

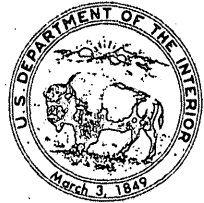
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# Geologic Names of the United States Through 1975

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*A computer list of geologic names  
in use in the United States  
and the major elements necessary  
for their definition*



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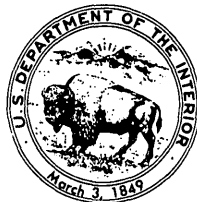
# Geologic Names of the United States Through 1975

By ROGER W. SWANSON, MARILYN L. HUBERT,  
GWENDOLYN W. LUTTRELL, and VIRGINIA M. JUSSEN

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# GEOLOGIC NAMES OF THE UNITED STATES THROUGH 1975

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By Roger W. Swanson, Marilyn L. Hubert,  
Gwendolyn W. Luttrell, and Virginia M. Jussen

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## INTRODUCTION

This report lists most of the rock-stratigraphic geologic names in published use in the United States and the major elements necessary for their definition. The format is based on a modified form of the Standard Stratigraphic Code adopted by the American Association of Petroleum Geologists, Committee on Standard Stratigraphic Coding (1967), to which was added other information critical to definition of geologic names. The report was prepared primarily from U.S. Geological Survey lexicons (Wilmarth, 1938; Wilson and others, 1957; Keroher and others, 1966; Keroher, 1970; and Luttrell and others, 1981), library research, and data in the files of the Survey's Geologic Names Committee; it also incorporates information supplied by State Geologists.

The name usage and accompanying data are based primarily on information published before the end of 1975, but age revisions recorded in the Geological Survey file of accepted usage before the end of 1975 and published later are included. Compilation is continuing on names introduced or otherwise modified since 1975. The interval between cutoff date and publication of this list reflects delay in availability of published material, difficulties in reviewing and processing the large amount of information, and problems of adjusting conflicting data. More recent information on changes of names that are in use by the U.S. Geological Survey, and on new names, may be obtained from U.S. Geological Survey Bulletins 1435-A, 1457-A, 1482-A, and 1502-A (Sohl and Wright, 1977, 1978, 1979, 1980).

Because this list has been prepared primarily for the benefit of geologists of the U.S. Geological Survey, who will be able to consult it via a computer terminal, emphasis has been placed on information recorded in the Survey files or obtained by consultation with Survey personnel. Where a difference exists between Survey records and data more recently published by others, the Survey file may be updated as necessary; however, the principal means of updating the Survey file of accepted usage is through Survey manuscripts submitted for review, wherein the need and justification for change can be documented. The authors of those reports, who are familiar with the details of the geology involved, can best recommend changes but should be able to demonstrate the need to their peers (reviewers) as well as to the Geologic Names Committee.

Official State usage as recorded in recent State reports, geologic maps, and lexicon-type publications is reflected insofar as possible. Information was obtained from State Geologists, who responded to the preliminary version of this list, which was distributed to them.

#### ACKNOWLEDGMENTS

Preparation of this list of geologic names was accomplished with the help and guidance of George V. Cohee and, since Mr. Cohee's retirement, of Norman F. Sohl, successive Chairmen of the Geologic Names Committee of the Geological Survey. Their helpful advice and encouragement have been of great value and are very much appreciated. Many others in the Geological Survey have supplied valuable information and counsel, including particularly Claire B. Davidson, Rudolph W. Kopf, Marjorie E. MacLachlan, and Wilna B. Wright of the Geologic Names Committee staff; the staff assistance of Susan Kingsbury is much appreciated.

Preparation of the original computer list of names was accomplished with the help of Linda E. Deiter and Olaf Kays of the Geological Survey. Subsequently, Patricia A. Fulton and Kevin W. Laurent, also of the Geological Survey, have been particularly helpful in writing programs and providing guidance for the computer manipulation of the data in this printout.

#### CODE OF STRATIGRAPHIC NOMENCLATURE

Geologic names should be established or revised according to the guidelines set forth by the American Commission on Stratigraphic Nomenclature (1970) in its "Code of Stratigraphic Nomenclature," hereafter referred to as "the Code." The U.S. Geological Survey has been a strong supporter of the Code as a means of achieving a more meaningful application of geologic names to mappable rock units. Application of the Code is not always easy or clearcut, for rocks are variable in all dimensions, and the Code does not clearly address some problems, but the decisions in selection of names for this list have been made with the Code foremost in mind. Though minor revisions have been made in the Code in recent years and though a major revision is in progress, this list reflects the Code that was in force at the end of 1975.

Many published usages of geologic names are at variance with the Code, and the resultant problems must be addressed in preparing a list such as this. Some of the differences reflect usages that antedate the Code and have persisted; some reflect problems not fully addressed by the Code, or even inconsistencies within the Code; and some seem to reflect ignorance of the Code as it might apply to the problem at hand.

In this effort to prepare the most meaningful list of geologic names that is practicable, deviation from the Code is avoided where possible. Thus, where a choice in name usage based on more than one publication is available, the usage in agreement with the Code is selected. Where such a choice is not available and a problem exists in the name, a slash (/) is entered immediately before the name to flag the existence of a problem. Problems such as multiple usage, adject-

tive in name, improper rank combination, misuse of the term "series," rock body terms, and preemption are subject to the slash.

For some names, a rank term has been omitted by the author but is clearly inferred, such as a limestone in a formation. Omission of the term "bed" or "member" implies one formation within another, clearly an error, so the rank term must be added, for example: ALBRIGHT,LS [BED] (CONEMAUGH FM). We slash a name that is in violation of the Code and enter one that is appropriate, but all information inserted by us is enclosed in brackets, for example: /BLACKSTONE,SER and [BLACKSTONE,GP].

#### DATA AND EXPLANATION

The format used in this list is based on the recommendations of the American Association of Petroleum Geologists, Committee on Standard Stratigraphic Coding (1967). Each line (record) in the list represents a separate name usage and is not duplicated by any other line. For some name usages, two or more lines are necessary to reflect the geologic age range, and each usage in each State is noted separately. A line may contain the following information: State, geologic age (coded), geologic name, usage, lithology, color, thickness, type area, reference, and identifier. The last five items before the identifier are noted only for the first line of the type-locality State. The items are explained separately.

State.--The State in which the unit has been identified is noted by the two-letter U.S. Postal Service abbreviation, as follows:

AK Alaska	KY Kentucky	NY New York
AL Alabama	LA Louisiana	OH Ohio
AR Arkansas	MA Massachusetts	OK Oklahoma
AZ Arizona	MD Maryland	OR Oregon
CA California	ME Maine	PA Pennsylvania
CO Colorado	MI Michigan	RI Rhode Island
CT Connecticut	MN Minnesota	SC South Carolina
DC Dist. of Columbia	MO Missouri	SD South Dakota
DE Delaware	MS Mississippi	TN Tennessee
FL Florida	MT Montana	TX Texas
GA Georgia	NC North Carolina	UT Utah
HI Hawaii	ND North Dakota	VA Virginia
IA Iowa	NE Nebraska	VT Vermont
ID Idaho	NH New Hampshire	WA Washington
IL Illinois	NJ New Jersey	WI Wisconsin
IN Indiana	NM New Mexico	WV West Virginia
KS Kansas	NV Nevada	WY Wyoming

Geologic age.--The geologic age is represented by a three-digit number. The first digit represents the erathem, the second, the system, and the third, the series. In addition to the numbers established by the Committee on Standard Stratigraphic Coding, we have added 01, 04, and 07 to each of the erathem numbers, except that for the Precambrian, to reflect informal subdivisions upper, middle, and lower, respectively. To the Precambrian erathem number (4) we have added 10, 20, 30, and 40 to reflect the fourfold division of the Precambrian (Z, Y, X, W) that was in use by the U.S. Geological Survey in 1975. The time breaks between these intervals are 800, 1,600,



and 2,500 million years, respectively. The full numeric code follows:

ERATHEM	SYSTEM	SERIES	CODE	
Cenozoic			100	
	upper		101	
	middle		104	
	lower		107	
		Quaternary		110
			Holocene	111
			Pleistocene	112
		Tertiary		120
			Pliocene	121
			Miocene	122
			Oligocene	123
			Eocene	124
			Paleocene	125
	Mesozoic			200
		upper		201
middle			204	
lower			207	
		Cretaceous		210
			Upper	211
			Gulfian	212 <u>1/</u>
			Comanchean	213 <u>1/</u>
			Lower	217
			Comanchean	218 <u>1/</u>
			Coahuilan	219 <u>2/</u>
		Jurassic		220
			Upper	221
			Middle	224
			Lower	227
	Triassic		230	
		Upper	231	
		Middle	234	
		Lower	237	
Paleozoic			300	
	upper		301	
	middle		304	
	lower		307	
		Permian		310
			Upper	311
			Ochoan	312 <u>3/</u>
			Guadalupian	313 <u>3/</u>
			Lower	317
			Leonardian	318 <u>3/</u>
			Wolfcampian	319 <u>3/</u>
		Pennsylvanian		320
			Upper	321
			Virgilian	322 <u>4/</u>
			Missourian	323 <u>4/</u>
		Middle	324	
		Des Moinesian	325 <u>4/</u>	
		Atokan	326 <u>4/</u>	
		Lower	327	
		Morrowan	328 <u>4/</u>	

ERATHEM	SYSTEM	SERIES	CODE
	Mississippian		330
		Upper	331
		Chesterian	332 5/
		Meramecian	333 5/
		Lower	337
		Osagean	338 5/
		Kinderhookian	339 5/
	Devonian		340
		Upper	341
		Middle	344
		Lower	347
	Silurian		350
		Upper	351
		Middle	354
		Lower	357
	Ordovician		360
		Upper	361
		Middle	364
		Lower	367
	Cambrian		370
		Upper	371
		Middle	374
		Lower	377
Precambrian			400
	Z (570-800 m.y.)		410
	Y (800-1,600 m.y.)		420
	X (1,600-2,500 m.y.)		430
	W (>2,500 m.y.)		440

The provincial series coded in this report, flagged above by footnote numbers, apply to the following States:

1/ Alabama, Arkansas, western Florida, Louisiana, Mississippi, southern Oklahoma, and Texas

2/ Alabama, Arkansas, Louisiana, Mississippi, and Texas

3/ New Mexico and Texas

4/ Arkansas, Illinois, Iowa, Kansas, Missouri, Nebraska, and Oklahoma

5/ Illinois, Indiana, Iowa, western Kentucky, Missouri, and western Tennessee.

The other provincial series used in the United States have not been coded in this report because they are essentially synonymous with the standard series.

Where geologic names apply to rocks whose geologic age extends into more than one series or system, a separate record is provided for each age. A plus sign (+) follows the first or youngest such age to alert the reader to read farther for full age information. When the geologic age of rocks is so imprecisely known that the rocks cannot be assigned to any one system, it may be possible to identify them with the upper, middle, or lower part of an erathem. For such rocks, the 01, 04, and 07 divisions of erathems have been added.

Age coding of the Miocene, which has boundaries at 22.5 and 5.0 million years, is based on Berggren (1972). Guadalupian names are all coded 313 and Morrowan names are all coded 328, even though some

Guadalupian units include Lower Permian and some Morrowan units include Middle Pennsylvanian strata.

Geologic name.--As stated in the Code, "The formation is the fundamental unit in rock classification." In this list, therefore, every record includes reference to one rock unit of at least formation rank. The primary unit is listed first, the geographic name being separated from the rank or lithology by a comma. The next larger unit, of which the primary unit is a part, is noted in parentheses; that notation may include two larger units in order to reflect formation rank. For example, a named bed as the primary unit may be in a member that must be part of a formation. If the primary unit is less than formation rank, nothing higher than formation rank is noted. If the primary unit is of formation or higher rank, the next higher rank, of which that unit is a part, may be noted. The name in parentheses is in the recommended form noted for that name in its primary listing, even if that form is in brackets. Abbreviations used include:

FM	formation	CGL	conglomerate	SH	shale
GP	group	DOL	dolomite	SS	sandstone
MBR	member	LS	limestone	STS	siltstone
SER	series	QTZ	quartzite	VOLCS	volcanics

MTN has been used for Mountain where space is limited. St. and Ste. are used for Saint and Sainte.

Usage.--The primary purpose of this list is to aid U.S. Geological Survey authors in the preparation of their reports. All Survey reports that use geologic names are reviewed by the Geologic Names Committee for proper usage of names according to records on file. In this compilation, the usage approved for a geologic name is noted by a "U" in the usage column.

Lithology.--Many names of geologic units (formation, member, bed, lentil, group, supergroup) do not refer to a lithology. The lithology field notes the dominant lithology(ies) for such named units. Lithology is omitted from this field if it is not in the first usage noted but is shown in a subsequent usage. The space is small, so most lithologic terms must be abbreviated. Many of the abbreviations used are fairly standard. A few abbreviations do not designate true lithologies but serve in lieu thereof. In addition to the abbreviations listed above under the heading "Geologic name," the following have been used:

AGL	agglomerate	GNS	greenstone	NVC	novaculite
ALV	alluvium	GR	granite	OBS	obsidian
AMP	amphibolite	GRD	granodiorite	OOL	oolite
AND	andesite	GRNL	granulite	PCL	pyroclastic rock
ANH	anhydrite	GVL	gravel	PHL	phyllite
ANR	anorthosite	GYK	graywacke	PHS	phosphate
ARG	argillite	GYP	gypsum	PMC	pumice
ARK	arkose	HNF	hornfels	POR	porphyry
ASP	asphalt	IG	igneous rock	QZ	quartz
BAS	basalt	IGNM	ignimbrite	QZD	quartz diorite
BAUX	bauxite	INTR	intrusive rock	QZM	quartz monzonite
BNT	bentonite	LAT	latite	RDBD	red bed
BRC	breccia	LOS	loess	RHY	rhyolite
CH	chert	LV	lava	SCH	schist

CL	clay	MBL	marble	SD	sand
CLS	claystone	MBNT	metabentonite	SED	sedimentary rock
CST	clastic rock	MCK	muck	SL	slate
DAC	dacite	MD	mud	SRP	serpentinite
DBS	diabase	MET	metamorphic rock	ST	silt
DRT	diorite	MGM	migmatite	SYN	syenite
DRF	drift	MGYK	metagraywacke	TF	tuff
DTM	diatomite	MIG	metaigneous rock	TL	till
EVP	evaporite	MRL	marl	TRC	trachyte
FE	iron-formation	MS	mudstone	ULTM	ultramafic rock
GAB	gabbro	MSED	metasedim. rock	VOL	volcanic rock
GLC	glauconite	MSTS	metasiltstone	VSED	volcanic sediment
GN	gneiss	MVOL	metavolcanic rock		

Color.--Unusual color (other than tan, gray, etc.) may be useful in rock description and identification. Abbreviations used in this field are as follows:

BK	black	PK	pink	VAR	variegated
BL	blue	PR	purple	WH	white
GN	green	RD	red	YL	yellow
OR	orange				

Thickness.--Maximum thickness at the type locality is noted in meters, rounded to the nearest second significant figure; five is rounded even so that 135 and 145 both become 140. Many units are not fully defined at their type localities; where only general or regional thickness is available, that is recorded.

Type locality.--The type area/locality/section is identified as within one of nine geographical areas of a State; these areas are determined by dividing the maximum longitudinal and latitudinal dimensions of the State by three. The nine areas are designated by the abbreviations NE, NC, NW, WC, C, EC, SE, SC, and SW. A rectangular State so divided would have nine equal parts. Many irregularly shaped States do not have all nine areas represented. Names originating in Canada or Mexico and extended to the United States are identified by CAN or MEX.

Reference.--A reference, noted by a letter, is included to help the reader learn more about the origin of the name and the characteristics of the unit it represents. Almost all the names noted have been described in one of the lexicons of geologic names of the United States that have been published as bulletins of the U.S. Geological Survey. The letters refer to these lexicons as follows:

- A Bull. 896, Wilmarth, 1938
- B Bull. 1056-A, Wilson and others, 1957
- C Bull. 1200, Keroher and others, 1966
- D Bull. 1350, Keroher, 1970
- E Bull. 1520, Luttrell and others, 1981.

Most names described in A are also described in C; the reference chosen is usually the most definitive. Names in A or C are not repeated in B, D, or E.

Identifier.--Computer search requires a unique identifier that can be used to isolate one record from all others. A four-letter

mnemonic derived from each geologic name and followed by a two-digit sequence number serves this purpose.

The mnemonic has been derived from the geographic part of the geologic name according to the "modified Franklin method" (American Association of Petroleum Geologists, Committee on Standard Stratigraphic Coding, 1967) by eliminating letters until only four remain. Elimination starts from the comma in the geologic name and proceeds to the left in the order noted below, but the first letter of each word is used regardless of its position in the elimination sequence.

1. A	8. Y	14. L	21. K
2. E	9. Doubles	15. D	22. B
3. I	(delete one)	16. C	23. V
4. O	10. T	17. M	24. X
5. U	11. N	18. F	25. J
6. W	12. S	19. G	26. Q
7. H	13. R	20. P	27. Z

The mnemonic is always four letters long, including blanks at the end where a name is short. The original derivation was accomplished by means of the computer, and for this purpose a comma was inserted between the geographic part of the name and the rank or lithology. Insignificant English words (the, on) are omitted, but those of foreign derivation (such as La, O', De) are kept and treated as individual words. Mac and Mc are combined with the second part of the name as one word, and the first letter of the second part is used in the mnemonic, so that McAfee is spelled MCAFEE and the mnemonic is MCAF.

Because the same mnemonic may be derived from different names, because the same name may be used for different rock units, and because the same rock unit may be represented many times (once for each usage and each age in each State), a two-digit sequence number has been added to complete the unique identifier. These six characters are recorded in the list for the benefit of a user who might wish to assemble a similar computer list or who might have access to this one on the computer and desire update information.

This method of identification is a modification of the one submitted by the Committee on Standard Stratigraphic Coding in that it derives every mnemonic strictly according to the rules noted. No modification is made when the same mnemonic represents different names; instead, a sequence number is added to differentiate between otherwise duplicate identifiers. No number is used in this list to identify rank or other definitive characteristics of a rock unit.

#### PROBLEMS AND DISCUSSION

Some geologic names are classified as informal by an author, even though he may define them just as carefully as he would a formal name. These names have been omitted from this list until they are given formal status. Many other names must be considered informal because of the ways they are introduced. These include names used only in charts, figures, map explanations, tables, and abstracts, or in text without any definition or description. If an author capitalizes some names (a practice recommended by the Code for formal names) but does not capitalize others, we assume that the uncapitalized names are informal and omit them. Where there is reasonable room for doubt as to formal intent, however, a name is likely to be included if it can meet the principal requisites for formal usage.

Names that have been abandoned and that have not been used subsequently are omitted, but most names that continue in use after someone abandons them are included. Names that have been long unused and that do not appear to serve a meaningful purpose are likely to be omitted, particularly if other names are in active use for the same rocks in that area. Morphologic, economic, paleontologic, time, tectonic, facies, and other terms that do not meet the requirements of rock-stratigraphic names are also omitted.

Group is defined in the Code (Art. 9) as "the rock-stratigraphic unit next higher in rank than a formation; a group consists of two or more associated formations," and (Art. 9, remark a) "A group consists wholly of divisions defined as formations," but an exception to the above seems also to be provided for: "In some reconnaissance work, the term 'group' has been applied to stratigraphic units that appear to be divisible into formations but have not yet been so divided." Does the exception really signify approval or does it merely cite an example of unfinished work that holds promise of division wholly into formations to provide a valid group?

The exception noted above creates problems, for an undivided group is not really a group of formations but simply a group of unnamed rock units. The formation is defined as the fundamental unit in rock-stratigraphic classification, but a group without formations lacks any fundamental units. Many rock units were called groups before the Code came into existence and therefore were not established under the umbrella of the exception, yet after many decades they remain undivided. Should they continue to be called groups?

Any rock unit called a group can also be called a formation, and in the absence of division of those rocks, that procedure would provide for a fundamental unit. This list was prepared on a State-by-State basis, and the State lists were then combined. In order to identify those groups that have unnamed formations within them, or those groups that lack two or more formations within a State and so are not groups in reality, a slash has been inserted before the name and a record has been inserted in brackets, calling the unit a formation. These notations will alert a subsequent worker to take steps to clarify the problem.

Article 6 in the Code concerns names at formation rank, and remark j concerns "Complex. -- If a mass of rock is composed of diverse types of any class or classes or is characterized by highly complicated structure, the word 'complex' may be used as part of the formal name instead of a lithologic or rank term." The phrase "instead of" indicates that a lithologic term should not be used with the word "complex." Accordingly, where "complex" is used together with a lithologic term, the name has been preceded by a slash, and a usage without lithology has been added in brackets.

In the review process, wherein some usages of a name were selected for inclusion in this list and others were omitted, the emphasis in selection was accorded to State or Survey usage or to identification of a lithology if one seemed dominant. Where the member is of the same lithology as the formation, the lithology is omitted before the word "member" to save space and to avoid redundancy.

This list does not include reference to subgroup or megagroup names, for these terms are of very limited use. It also omits reference to sequence, cyclothem, or names for units of less than formation rank that are not part of a named formation.

Hyphenated names are usually derived by combining the geographic parts of two normal names. The hyphenated name does not reflect a geographic name, so it is invalid and is accordingly slashed.

The U.S. Geological Survey endeavors through the review process to assure that all usage of geologic names by Survey authors is accurate and timely. The files of Survey usage of names are built and updated primarily from manuscripts submitted for publication, but changes are also made when new reliable information is received from outside sources. Many rock units in this country have not been studied by Survey geologists and therefore are not indicated by a "U" in the usage column. Because other units have not been studied in recent decades, Survey files may not be up to date, though a concerted effort has been made in preparing this list to update these files where new data have demonstrated the need. Absence of a "U" in the usage column should not be construed as unacceptability of a name by the Survey--only that the name in question has not yet been adopted for use by a Survey author.

Some names that have not been used by Survey authors in recent years are still shown in the Survey files in their old form and may now be out of date because of changes in the Code since their last Survey usage. If that usage is now in violation of the Code or otherwise is not in good form, the name is flagged by a slash, as is any other improper name, to alert the next Survey author to make the required changes. A suggested use that would correct the problem is shown in brackets. The fact that geologic names are not used everywhere at the same rank or lithology may lead to differences between Survey and State usage. For example, Survey usage may be at formation rank in one part of a State, and State usage may be at member or group rank in another part of the State.

A significant problem exists in use of the same name for different rock units (preemption, Art. 3 of the Code). In the Appalachian States, for example, the same name has been applied to several different rock units in sequence. Such usage is called "informal" in the Code (Art. 10 h). Though recent literature has corrected many of these multiple usages and so has reduced the problem, some of the repetitive names have continued in formal usage. Where the problem still exists and the names were established by the same author, the name of the unit stratigraphically lowest in the sequence is herein shown as acceptable because that unit would have been described first in the text; the other names are preceded by a slash. If the names were not described by the same author, the rule of priority (Art. 11 of the Code) has been applied in determining which names to slash.

Many duplicate names have been applied to totally unrelated rock units. The rule of priority has been applied to these, also. An exception is allowed in the Code (Art. 11 c) for units whose "geographic and stratigraphic separation preclude confusion." Geographic separation was probably intended to refer to units in States far removed from each other and in different geologic provinces. In this list, the assumption is that at least the States should not be adjacent. Therefore, the more recent of two uses of the same name in the

same or adjacent States (adjacent is here determined by including all States in which the respective units are identified) is marked by a slash to denote preemption. To satisfy the spirit of the Code, the separation should be greater. For example, Delaware and Pennsylvania involve some markedly different geologic provinces but are adjacent, whereas Maryland and New Jersey have much similar geology in the same provinces but are not adjacent. Duplication in any areas so small should be avoided.

Coal beds have been included where it is clear that the State uses the name formally as a rock-stratigraphic name; otherwise they are omitted as economic (Art. 4 f). Oil sands are omitted unless they are clearly used as rock-stratigraphic names.

Names of intrusive rock bodies are not considered geologic names by the Code (Art. 10 i). By analogy, a lava flow is here considered a rock body, and usage of the word "flow" in a name is slashed; where the dominant lithology is known, the term for it is entered in brackets in place of the word "flow"; where lithology is not known, the term "lava" is used.

Most rock units occur beneath the surface somewhere. In general, their concealed distribution is not as well known as their surficial distribution, but in areas of much drilling for oil and gas, the opposite may be true. One of the weaknesses, perhaps the greatest, perceived in this list of names is inadequate representation of the subsurface distribution of named geologic units. This inadequacy is particularly true for those parts of the country where structures are very gentle and topographic relief is very low. In such areas, only a few formations may be identified at the surface though the column of sedimentary rocks is 5,000 to 10,000 m thick. The names of many subsurface units are based on additions supplied by State Geologists.

In the interests of brevity and usability, this list is necessarily selective; it would be impractical, cumbersome, and confusing to record every name usage. Some selections may not be the most appropriate, and future work will show need for other changes and additions. For future listings, we hope to pick up changes as they are reported in the literature, but we would much appreciate having our attention called to errors or other needed changes based on information already in the literature.

This list of geologic names is maintained in the computers of the U.S. Geological Survey at Reston, Va.; Denver, Colo.; and Menlo Park, Calif. It can be consulted by persons having access to the computer to obtain lists of names sorted from this list for special purposes, for example, the names of Lower Devonian rocks in the Appalachian States or of Miocene rocks in California.



## REFERENCES CITED

- American Association of Petroleum Geologists, Committee on Standard Stratigraphic Coding, George V. Cohee, Chairman, 1967, Standard stratigraphic code adopted by AAPG: American Association of Petroleum Geologists Bulletin, v. 51, no. 10, p. 2146-2150.
- American Commission on Stratigraphic Nomenclature, 1970, Code of stratigraphic nomenclature: Tulsa, Okla., American Association of Petroleum Geologists, 22 p.
- Berggren, W. A., 1972, A Cenozoic time-scale--Some implications for regional geology and paleobiogeography: Lethaia, v. 5, no. 2, p. 195-215.
- Keroher, G. C., 1970, Lexicon of geologic names of the United States for 1961-1967: U.S. Geological Survey Bulletin 1350, 848 p.
- Keroher, G. C., and others, 1966, Lexicon of geologic names of the United States for 1936-1960: U.S. Geological Survey Bulletin 1200, 3 v.
- Luttrell, G. W., and others, 1981, Lexicon of geologic names of the United States for 1968-1975: U.S. Geological Survey Bulletin 1520, 342 p.
- Sohl, N. F., and Wright, W. B., 1977, Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1976: U.S. Geological Survey Bulletin 1435-A, 151 p.
- \_\_\_\_\_ 1978, Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1977: U.S. Geological Survey Bulletin 1457-A, 136 p.
- \_\_\_\_\_ 1979, Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1978: U.S. Geological Survey Bulletin 1482-A, 91 p.
- \_\_\_\_\_ 1980, Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1979: U.S. Geological Survey Bulletin 1502-A, 138 p.
- Wilmarth, M. G., 1938, Lexicon of geologic names of the United States: U.S. Geological Survey Bulletin 896, 2 v.
- Wilson, Druid, Sando, W. J., Kopf, R. W., and others, 1957, Geologic names of North America introduced in 1936-1955: U.S. Geological Survey Bulletin 1056-A, 405 p.

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COMPUTER LIST OF GEOLOGIC NAMES

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GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
OK 322	AARDE,SH (ADA GP)						ARDE 03
MO 322	AARDE,SH MBR (HOWARD FM)						ARDE 02
KS 322	AARDE,SH MBR (HOWARD LS)						ARDE 01
NC 307+	AARON,SLATE	U	SH,COAL		>1	NE A	ARDE 01
VA 307+	AARON,SLATE					NC A	ARON 01
NC 410	AARON,SLATE						ARON 02
NC 410	AARON,SLATE						ARON 03
VA 410	AARON,SLATE						ARON 04
IL 326	ABBOTT,FM (MCCORMICK GP)	U	SS,SH		110	SE C	ABBT 01
AL 304	ABEL GAP,FM (TALLADEGA GP)		STS		2100	NE E	ABGP 01
UT 374	ABERCROMBIE,FM	U	LS,SH		820	WC A	ABMB 01
UT 211	ABERDEEN,SS MBR (BLACKHAWK FM)	U			60	SC A	ABRD 02
KY 324	ABERDEEN,SS MBR (TRADEWATER FM)				12	SC A	ABRD 03
IL 364	ABERNATHY,MBR (JOACHIM DOL)						ABRN 08
MO 364	ABERNATHY,MBR (JOACHIM DOL)		DOL		8	SE D	ABRN 10
IL 325	ABINGDON,COAL MBR (SPOON FM)				<1	NW C	ABGO 01
IN 112	ABINGTON,SILT				2	EC D	ABNG 01
NM 122	ABIQUIU,TUFF				460	NC C	ABQU 01
NM 122	ABIQUIU,TUFF MBR (SANTA FE FM)						ABQU 02
NM 319	ABO,FM	U	SH,SS	PR,RD	280	C C	ABO 04
NM 319	ABO,RED BEDS	U					ABO 05
NM 319	ABO,SS	U					ABO 06
PA 337	ABRAHAMS CREEK,MBR (POCONO FM)		SS			C D	ABCK 03
CA 340	ABRAMS,MICA SCHIST	U			300	NW C	ABRM 03
OR 340	ABRAMS,MICA SCHIST	U					ABRM 04
AZ 371+	ABRIGO,FM	U		GN,YL	230	SE A	ABRG 01
AZ 374	ABRIGO,FM	U					ABRG 03
AZ 371+	ABRIGO,LS	U					ABRG 02
AZ 374	ABRIGO,LS	U					ABRG 04
RI 400	ABSALONA,FM	U	GN		1400	NC C	ABSL 01
MT 124	[ABSAROKA,SUPERGROUP]						ABRK 02
WY 124	[ABSAROKA,SUPERGROUP]				1500	NW E	ABRK 05
MT 124	/ABSAROKA,VOLC SUPERGROUP	U					ABRK 04
WY 124	/ABSAROKA,VOLC SUPERGROUP	U					ABRK 03
OK 328	ACADEMY CHURCH,SH MBR (SPRINGER FM)				76	SC E	ACMC 01
NY 351	ACCORD,SH				5	SE C	ACRD 01
CA 124	ACEBEDO,FM		STS			SC C	ACBD 01
CA 124	ACEBEDO,MBR (LODO FM)						ACBD 02
CA 124	ACEBEDO,SS						ACBD 03
AL 125	ACKERMAN,FM (WILCOX GP)						ACKM 01
MS 125	ACKERMAN,FM (WILCOX GP)		CL		46	EC C	ACKM 03

GEOLOGIC NAMES OF THE UNITED STATES THROUGH 1975

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN 125	ACKERMAN,FM (WILCOX GP)							ACKM 04
OK 317	ACME,DOL MBR (BLAINE FM)							ACME 01
TX 318	ACME,DOL MBR (BLAINE FM)							ACME 02
MA 301	ACTON,GRANITE	U			90	NC	C	ACTN 01
OK 322	ADA,FM . . . . .	U	LS,CGL		30	SE	A	ADA 01
OK 322	ADA,GP							ADA 08
TN 331	ADA,SH MBR (BLUEFIELD FM)							ADA 02
VA 331	ADA,SH MBR (BLUEFIELD FM)							ADA 03
WV 331	ADA,SH MBR (BLUEFIELD FM)			GN	18	SW	A	ADA 04
VT 340	ADAMANT,GRANITE . . . . .	U			91	C	C	ADMN 01
NV 317+	ADAM PEAK,FM	U	CST		1200	NC	D	AMPK 01
NV 321	ADAM PEAK,FM	U						AMPK 02
AK 377	ADAMS,ARGILLITE	U						ADMS 04
AK 111	/ADAMS,FM		CL,ST		66	SE	E	ADMS 01
TX 321	ADAMS BRANCH,FM (GRAFORD GP) . . . . .				9	C	A	AMBC 01
TX 321	ADAMS BRANCH,LS MBR (BROOKESMITH FM)							AMBC 03
TX 321	ADAMS BRANCH,LS MBR (GRAFORD FM)	U						AMBC 02
ME 361	ADAMSTOWN,GRANITE					WC	E	ADMS 02
MD 371	ADAMSTOWN,MBR (FREDERICK LS)				330	NC	E	ADMS 06
WY 211	ADAVILLE,FM . . . . .	U	CL,SS		880	SW	A	ADVL 01
OK 317	ADDINGTON,FM		SH,SS	RD	>100	SC	A	ADNG 01
VA 324	ADDINGTON,SS MBR (WISE FM)	U			12	SW	A	ADNG 02
VT 364	ADDISON,FM		SH,LS			WC	A	ADSN 01
WA 377	ADDY,QTZ	U			2400	NE	A	ADDY 01
MT 211	ADEL MOUNTAIN,VOLCS . . . . .				980	NW	C	ADLM 01
NM 112	ADEN,BASALT (POTRILLO VOLCS)					SW	C	ADEN 01
NY 420	/ADIRONDACK,ANORTHOSITE					NE	A	ADCK 05
TX 318	ADMIRAL,FM (WICHITA GP)	U	LS,SH		110	C	A	ADML 05
TX 318	ADMIRAL,GP							ADML 06
WA 112	ADMIRALTY,CLAY . . . . .	U			61	NW	C	ADML 03
WA 112	ADMIRALTY,DRIFT	U						ADML 04
AK 123+	ADMIRALTY ISLAND,VOLCS	U			1500	SE	D	ADMI 01
AK 124	ADMIRALTY ISLAND,VOLCS	U						ADMI 02
OK 317	ADMIRE,FM							ADMR 03
KS 317	ADMIRE,GP . . . . .	U	LS,SH		43	EC	C	ADMR 01
NE 317	ADMIRE,GP	U						ADMR 02
OK 317	ADMIRE,GP	U						ADMR 04
OK 317	ADMIRE,SH (VANOSS GP)							ADMR 05
NM 321	ADOBE,FM (VEREDAS GP)		LS,SH		14	C	C	ADOB 01
CA 211	ADOBE FLAT,SH MBR (PANOCHÉ FM) . . . . .					NC	D	ADBF 01

WY	124	ADOBE TOWN, MBR (WASHAKIE FM)	U	MS, SS	GN, RD	700	SW	E	ADBT	01	
CA	112	AEOLIAN BUTTES, TILL						C	C	ALBS	01
NM	112	AFTON, BASALT (POTRILLO VOLCS)						SC	E	AFTN	01
KS	317	AFTON, LS MBR (WELLINGTON FM)						SC	C	AFTN	02
ME	227	AGAMENTICUS, COMPLEX (WHITE MOUNTAIN GP)		GR, SYN			SW	A	AGMC	01	
AK	104+	/AGATTU, BEDS		SED		610	SW	C	AGTT	01	
AK	107	/AGATTU, BEDS								AGTT	02
AK	104+	[AGATTU, FM]								AGTT	03
AK	107	[AGATTU, FM]								AGTT	04
OK	311	AGAWAM, GYPSUM BED (MARLOW FM)						C	C	AGWM	02
OK	311	AGAWAM, GYPSUM BED (MARLOW MBR OF WHITE HORSE FM)								AGWM	01
NV	361+	AGORT, CHERT					240	NE	D	AGRT	01
NV	364	AGORT, CHERT								AGRT	02
AL	307	[AGRICOLA, SCHIST (DADEVILLE COMPLEX)]						EC	E	AGCL	04
AL	307	/AGRICOLA, SCHIST-GNEISS (DADEVILLE COMPLEX)								AGCL	01
CA	123	AGUA, SS BED (SANTOS SH MBR OF TEBLOR FM)	U				15	SC	C	AGUA	02
CA	123	AGUA, SS MBR (TEBLOR FM)								AGUA	01
NM	400	AGUA CALIENTE, GABBRO						NC	C	AGCL	03
CA	221	AGUA FRIA, FM		SL, LS		610		C	A	AGFR	01
CA	122	AGUAJITO, SH MBR (MONTEREY FM)				610	WC	D	AGJT	01	
CA	210	AGUANGA, TONALITE						SE	C	AGNG	01
NM	231	AGUA ZARCA, SS MBR (CHINLE FM)	U			46	NW	C	AGZC	01	
TX	212	AGUJA, FM	U	SS, SH		31	WC	C	AGUJ	01	
TX	212	AGUJA, FM (TORNILLO GP)								AGUJ	04
SD	123	AHEARN, MBR (CHADRON FM)						SW	C	AHRN	01
OK	331	AHLOSO, MBR (CANEY SH)					15	SE	C	AHLS	01
AK	320+	AHTELL, DIORITE	U					EC	A	ATLL	01
AK	330	AHTELL, DIORITE	U							ATLL	02
CA	217	AIKEN, MBR (BUDDEN CANYON FM)		MS		760	NW	E	AIKN	01	
HI	112	AIONI, VOLCS (HONOLULU GP)				30	NC	C	ANON	03	
VA	400	AIR POINT, GRANITE						SC	A	ARPN	03
WY	211	AIRPORT, SS MBR (BAXTER SH)					150	SW	D	ARPR	01
UT	371	AJAX, DOL	U			180		C	C	AJAX	01
MI	430	AJIBIK, QTZ (MENOMINEE GP)	U			270	NC	A	AJBK	01	
AZ	104	AJO, VOLCS	U			150	SW	C	AJO	01	
AK	112	AKALURA, DRIFT	U					SC	E	AKLR	01
NY	351	AKRON, DOL	U			2	WC	A	AKRN	01	
FL	121	ALACHUA, FM	U	CL		5	NE	A	ALCH	01	
NM	318+	ALACRAN MOUNTAIN, FM (HUECO GP)								ALCM	01
TX	318+	ALACRAN MOUNTAIN, FM (HUECO GP)		LS, SH		120	WC	D	ALCM	02	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
NM 319	ALACRAN MOUNTAIN,FM (HUECO GP)							ALCM 04
TX 319	ALACRAN MOUNTAIN,FM (HUECO GP)							ALCM 03
SD 364	ALADDIN,SS							ALDN 02
WY 364	ALADDIN,SS				9	NE	C	ALDN 03
CA 112	ALAMEDA,FM	U	CL		91	WC	A	ALMD 01
NM 321+	ALAMITOS,FM		ARK,LS		1200	NC	D	ALMS 06
NM 324	ALAMITOS,FM							ALMS 08
TX 124	ALAMO CREEK,BASALT MBR (CHISOS FM)				63	SW	D	AMCK 03
NM 337	ALAMOGORDO,LS				40	SC	C	AMGD 01
NM 337	ALAMOGORDO,MBR (LAKE VALLEY LS)	U						AMGD 02
NV 122	ALAMO RANGE,FM		TF		300	EC	D	AMRG 03
CA 221	ALAMOS,TONALITE					SC	E	ALMS 05
CO 112+	ALAMOSA,FM	U	CL,SD		380	SC	A	ALMS 01
CO 121	ALAMOSA,FM	U						ALMS 02
AK 331	ALAPAH,LS (LISBURNE GP)	U			300	NC	C	ALPH 07
MT 324+	ALASKA BENCH,LS (AMSDEN GP)	U			46	C	C	AKBC 01
MT 327	ALASKA BENCH,LS (AMSDEN GP)	U						AKBC 03
MT 324+	ALASKA BENCH,LS MBR (AMSDEN FM)							AKBC 02
MT 327	ALASKA BENCH,LS MBR (AMSDEN FM)							AKBC 04
NY 112	ALBANY,CLAY				6	EC	A	ALBN 02
VT 112	ALBANY,CLAY							ALBN 03
NH 227+	/ALBANY,GRANITE (WHITE MOUNTAIN GP)				300	EC	A	ALBN 10
NH 231	/ALBANY,GRANITE (WHITE MOUNTAIN GP)							ALBN 14
NH 227+	/ALBANY,PORPHYRITIC QUARTZ SYENITE (WHITE MOUNTAIN GP)	U						ALBN 06
NH 231	/ALBANY,PORPHYRITIC QUARTZ SYENITE (WHITE MOUNTAIN GP)	U						ALBN 08
NH 227+	/ALBANY,QUARTZ SYENITE (WHITE MOUNTAIN GP)							ALBN 07
NH 231	/ALBANY,QUARTZ SYENITE (WHITE MOUNTAIN GP)							ALBN 09
ME 364+	ALBEE,FM	U						ALBE 01
NH 364+	ALBEE,FM	U	QTZ,SL		1200	C	A	ALBE 02
VT 364+	ALBEE,FM	U						ALBE 03
ME 367	ALBEE,FM	U						ALBE 04
NH 367	ALBEE,FM	U						ALBE 05
VT 367	ALBEE,FM	U						ALBE 06
NC 370	ALBEMARLE,GP	U	VOL			C	D	ALBM 01
CA 124	ALBERHILL,CLAY				20	SE	A	ALBL 01
NY 357	ALBION,GP	U	SS,SH		73	WC	C	ALBN 15
OH 357	ALBION,GP							ALBN 21
GA 124	ALBION,MBR (BARNWELL FM)		CL,SS		5	EC	D	ALBN 04
RI 410	ALBION,SCHIST MBR (QUINNVILLE QTZ)	U			120	NC	C	ALBN 20
NY 357	ALBION,SS							ALBN 16

OH	357	ALBION,SS		U						ALBN	17	
ID	400	/ALBION RANGE,GP		U	QTZ, SCH	2700	SC	C		ABRG	05	
UT	400	/ALBION RANGE,GP		U						ABRG	06	
ID	400	[ALBION RANGE,QTZ]								ABRG	07	
UT	400	[ALBION RANGE,QTZ]								ABRG	08	
MN	112	ALBORN,TILL							C	D	ALBR	01
MD	321	ALBRIGHT,LS [BED] (CONEMAUGH FM)									ALBG	01
WV	321	ALBRIGHT,LS [BED] (CONEMAUGH FM)				<1	C	A			ALBG	02
NM	120	ALBUQUERQUE,MARL				110	C	A			ABQQ	01
CA	211	ALCALDE,SH (PANOCHÉ GP)					C	C			ALCD	01
WY	231	ALCOVA,LS (CHUGWATER GP)				2	C	A			ALCV	01
WY	231	ALCOVA,LS MBR (CHUGWATER FM)		U							ALCV	02
AZ	101+	ALCYONE,TRACHYTE		U		600	WC	A			ALCN	01
AZ	104	ALCYONE,TRACHYTE		U							ALCN	02
IA	339	ALDEN,LS				9	C	A			ALDN	01
AZ	430	ALDER,FM		U	MSED	1500	C	C			ALDR	04
CA	111	ALDER CREEK,BASALT				46	NW	C			ADCK	01
WV	331	ALDERSON,LS (GREENBRIER GP)				99	SC	A			ALDR	06
VA	331	ALDERSON,MBR (GREENBRIER LS)									ALDR	02
WA	112	ALDERTON,FM		U	VSED	16	C	C			ALDR	01
OR	227+	ALDRICH MOUNTAINS,GP		U	VSED	11000	C	D			ADCM	01
OR	231	ALDRICH MOUNTAINS,GP									ADCM	02
NV	122	ALDRICH STATION,FM (WASSUK GP)			SED	1200	WC	C			ADCS	02
ID	420	ALDRIDGE,FM (BELT SUPERGROUP)			QTZ	4600	CAN	A			ALDG	03
WA	124	ALDWELL,FM		U	ST	900	NW	C			ALDL	01
CA	123	ALEGRIA,FM			SS	370	SC	C			ALGR	01
AZ	361	ALEMAN,FM (MONTTOYA GP)									ALMN	13
NM	361	ALEMAN,FM (MONTTOYA GP)		U							ALMN	10
TX	361	ALEMAN,FM (MONTTOYA GP)									ALMN	12
NM	361	ALEMAN,MBR (MONTTOYA DOL)		U		61	SW	C			ALMN	09
TX	361	ALEMAN,MBR (MONTTOYA DOL)		U							ALMN	11
AK	224	ALEUTS,MBR (KIALAGVIK FM)			SH, SS	340	SC	C			ALTS	01
CA	122	ALFERITZ,FM			STS	210	C	C			ALFZ	01
ME	231	ALFRED,COMPLEX (WHITE MOUNTAIN GP)			GAB		SW	D			ALFD	01
NY	341	ALFRED,SH				14	WC	A			ALFD	02
NY	341	ALFRED STATION,COQUINITE MBR (RUSHFORD LAKE FM)				3	WC	D			AFDS	01
KY	354	ALGER,FM			CL	17	EC	A			ALGR	02
CA	124	ALHAMBRA,FM			SH	250	WC	C			ALMB	01
HI	112	/ALIAMANU,BASALT (HONOLULU GP)				9	NC	C			ALMN	01
HI	112	ALIAMANU,TUFF (HONOLULU GP)		U							ALMN	02



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO	237	ALI BABA,MBR (MOENKOPI FM)	U	SS		88	SW	B	ALBB 01
UT	237	ALI BABA,MBR (MOENKOPI FM)	U						ALBB 02
TX	313	ALIBATES,DOL LENTIL (DOXEY SH)			WH	5	NC	A	ALBS 03
OK	311	ALIBATES,DOL LENTIL (QUARTERMASTER FM)							ALBS 06
NM	313	ALIBATES,DOL LENTIL (QUARTERMASTER FM)							ALBS 04
TX	313	ALIBATES,DOL LENTIL (QUARTERMASTER FM)	U						ALBS 02
NM	313	ALIBATES,GYPSUM TONGUE (QUARTERMASTER FM)							ALBS 05
AZ	200	[ALI MOLINA,COMPLEX]	U			910	SC	D	ALML 02
AZ	200	/ALI MOLINA,METAMORPHIC COMPLEX							ALML 01
CA	217	ALISITOS,FM				1500	MEX	D	ALST 02
CO	324	ALKALI GULCH,FM							AKGC 01
UT	324	ALKALI GULCH,FM		LS		34	SE	E	AKGC 02
UT	374	ALLAH,QTZ				15	C	C	ALLH 01
TX	400	ALLAMOORE,FM	U			910	WC	C	ALMR 02
TX	400	ALLAMOORE,LS	U						ALMR 03
MT	337	ALLAN MOUNTAIN,LS (MADISON GP)	U			180	NW	D	ALNM 01
IL	332	ALLARD,MBR (MENARD LS)				11	SE	D	ALRD 01
MD	324	ALLEGHENY,FM	U						ALGN 10
OH	324	ALLEGHENY,FM	U						ALGN 11
PA	324	ALLEGHENY,FM	U	SS	WH	30	WC	A	ALGN 12
VA	324	ALLEGHENY,FM	U						ALGN 14
WV	324	ALLEGHENY,FM	U						ALGN 15
PA	324	ALLEGHENY,GP	U						ALGN 13
PA	341	ALLEGRIPPIS,SS MBR (CHEMUNG FM)	U			3	C	A	ALGP 01
ME	370	ALLEN,QTZ MBR (ELLSWORTH FM)					SC	C	ALLN 02
IL	325	ALLENBY,COAL MBR (CARBONDALE FM)				<1	SC	C	ALNB 01
UT	211	ALLEN HOLLOW,SH MBR (FRONTIER FM)				240	NC	C	ALHL 01
TX	218	ALLEN RANCH,BRECCIA MBR (SEGOVIA FM)		LS		7	C	E	ALRC 01
WY	211	ALLEN RIDGE,FM (MESAVERDE GP)	U	SS,SH		370	SE	C	ARDG 01
NY	371	ALLENS FALLS,CGL					NC	C	ALFL 01
NY	371	ALLENS FALLS,MBR (POTSDAM SS)							ALFL 02
OH	337	ALLENSVILLE,CGL MBR (LOGAN FM)				12	SC	A	ALVL 03
NJ	371	ALLENTOWN,DOL	U						ALNN 01
PA	371	ALLENTOWN,DOL	U			610	EC	A	ALNN 04
PA	371	ALLENTOWN,FM							ALNN 05
PA	371	ALLENTOWN,LS							ALNN 06
NJ	371	ALLENTOWN,MBR (KITTATINNY LS)							ALNN 07
UT	211	ALLEN VALLEY,SH (INDIANOLA GP)	U			190	C	C	ALVL 02
NC	420	ALLIGATOR BACK,FM		GN			NC	E	AGBK 01
VA	420	ALLIGATOR BACK,FM							AGBK 02

CT	360	ALLINGTOWN,METADIABASE	U		610	SC	D	ALNG	01	
CT	360	ALLINGTOWN,VOLCS						ALNG	02	
NM	211	ALLISON,MBR (MENELEE FM)	U	SS	240	NW	A	ALSN	01	
NM	211	ALLISON,MBR (MESAVERDE FM)						ALSN	02	
WI	400	ALLOA,RHYOLITE					SC	A	ALLO	01
MI	420	ALLOUEZ,CGL [BED] (PORTAGE LAKE VOLCS)	U		6	NW	A	ALLZ	02	
NJ	122	ALLOWAY,CLAY MBR (KIRKWOOD FM)			24	SW	A	ALLY	01	
ME	357	ALLSBURY,FM	U	GYK	1200	NE	D	ALBR	09	
WA	300	ALMA CREEK,LEUCOTRONDHJEMITE					NW	D	AMCK	05
WY	211	ALMOND,FM (MESAVERDE GP)	U	SS,SH	290	SW	A	ALMD	02	
AL	320+	ALMOND,TRONDHJEMITE					EC	E	ALMD	05
AL	330	ALMOND,TRONDHJEMITE							ALMD	03
CA	121	ALMOND MOUNTAIN,VOLCS	U		270	SE	D	AMDM	01	
ND	125	ALMONT,SS [BED] (TONGUE RIVER MBR OF FORT UNION FM)			17	SW	C	ALMN	03	
WY	124	ALMY,CGL			670	SW	A	ALMY	01	
WY	124	ALMY,FM	U						ALMY	02
MI	344	ALPENA,LS (TRAVERSE GP)	U		24	EC	A	ALPN	05	
ID	112	ALPINE,FM (LAKE BONNEVILLE GP)							ALPN	06
UT	112	ALPINE,FM (LAKE BONNEVILLE GP)	U	ST	30		C	C	ALPN	01
UT	112	ALPINE,MBR (LITTLE COTTONWOOD FM)							ALPN	02
CA	217+	ALPINE,QUARTZ DIORITE					SE	A	ALPN	03
CA	221	ALPINE,QUARTZ DIORITE							ALPN	04
CA	367	AL ROSE,FM (MAZOURKA GP)	U	STS,LS	120		C	D	ALRS	04
TX	367	ALSATE,SH	U		15	WC	A	ALST	01	
OR	123	ALSEA,FM	U	STS	1100	WC	E	ALSE	01	
NY	347	ALSEN,LS (HELDERBERG GP)	U		15	EC	A	ALSN	03	
AL	331	ALSOBROOK,FM		SH,LS	15	NW	C	ALBK	01	
MS	331	ALSOBROOK,FM							ALBK	04
AL	331	ALSOBROOK,MBR (PRIDE MOUNTAIN FM)	U						ALBK	02
MS	331	ALSOBROOK,MBR (PRIDE MOUNTAIN FM)	U						ALBK	03
NV	122	ALTA,ANDESITE			1100	WC	C	ALTA	01	
NV	122	ALTA,FM	U						ALTA	02
TX	319	ALTA,FM	U	SD	1100	WC	A	ALTA	03	
TX	319	ALTA,FM (CHINATI GP)							ALTA	04
TX	112	ALTA LOMA,SAND			110	SE	C	ALLM	01	
CA	122	ALTAMIRA,SH MBR (MONTEREY FM)	U		340	SC	A	ALMR	01	
IA	325	ALTAMONT,LS (MARMATON GP)							ALMN	04
KS	325	ALTAMONT,LS (MARMATON GP)	U		6	SE	C	ALMN	05	
MO	325	ALTAMONT,LS (MARMATON GP)	U						ALMN	06
OK	325	ALTAMONT,LS (MARMATON GP)	U						ALMN	07

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 325	ALTAMONT, MBR (OOLOGAH LS)	U						ALMN 08
IL 344	ALTO, FM	U	SH, DOL		25	SC	C	ALTO 02
PA 324	ALTON, COAL BED (POTTSVILLE FM)					NW	A	ALTN 07
OK 317	ALTONA, DOL BED (BLAINE FM)							ALTN 06
OK 317	ALTONA, DOL MBR (BLAINE GYPSUM)						C	A ALTN 01
TX 313	ALTUDA, FM	U	DOL		120	WC	A	ALTD 01
CA 121	ALTURAS, FM		TF, SS		91	NC	C	ALRS 01
MT 420	ALTYN, LS (BELT SUPERGROUP)	U			430	NW	A	ALTN 05
VA 400	ALUM, PHYLLITE					SC	C	ALUM 01
FL 122	ALUM BLUFF, GP	U	SD, CL		5	NC	A	AMBF 02
GA 122	ALUM BLUFF, GP	U						AMBF 03
IN 324	ALUM CAVE, LS MBR (DUGGER FM)				2	SW	C	AMCV 01
CO 120	ALUM CREEK, PORPHYRY					SC	E	AMCK 02
NM 123	ALUM MOUNTAIN, FM		AND			SW	E	ALMM 02
CA 101	ALUM ROCK, RHYOLITE					WC	C	AMRK 01
FL 121	ALVA, CLAY MBR (TAMIAMI FM)					SE	D	ALVA 01
CA 122	ALVERSON, ANDESITE				120	SE	C	ALVR 01
OR 121	ALVORD CREEK, FM	U	TF		300	SE	A	AVCK 01
CA 122	ALVORD PEAK, BASALT	U			120	SE	C	AVPK 01
CO 101+	AMALIA, FM							AMLI 01
NM 101+	AMALIA, FM		VSED		610	NC	C	AMLI 02
CO 104	AMALIA, FM							AMLI 03
NM 104	AMALIA, FM							AMLI 04
IA 341	AMANA, BEDS						C	AMAN 01
IA 341	[AMANA, SH]							AMAN 02
ND 220+	AMARANTH, FM		SH	RD	67	CAN	B	AMRN 01
ND 230	AMARANTH, FM							AMRN 02
CA 220	AMARGO, FM		VOL			SE	C	AMRG 04
MI 430	AMASA, FM (BARAGA GP)	U	SL, FE		460	NW	C	AMAS 01
KS 322	AMAZONIA, LS MBR (LAWRENCE FM)	U						AMZN 01
MO 322	AMAZONIA, LS MBR (LAWRENCE SH)	U			3	NW	C	AMZN 02
WI 430	AMBERG, GRANITE					EC	D	AMBG 04
NJ 211	[AMBOY, CLAY MBR (MAGOTHY FM)]				9	EC	C	AMBY 04
NJ 211	[AMBOY, CLAY MBR (RARITAN FM)]							AMBY 01
NJ 211	/AMBOY, STONEWARE CLAY MBR (MAGOTHY FM)	U						AMBY 03
NJ 211	/AMBOY, STONEWARE CLAY MBR (RARITAN FM)							AMBY 02
AK 107	AMCHITKA, FM	U	VOL		910	SW	C	AMCK 01
AK 200	AMERICAN CREEK, GRANITE					NC	D	AMCK 04
ID 112	AMERICAN FALLS, LAKE BEDS	U			46	SE	A	AMCF 02
AZ 211	AMERICAN FLAG, FM	U	CGL, GYK		640	SE	D	AMFG 01

CO	123	AMERICAN FLAT,LATITE	U				SW	A	AMCF	03	
CO	112	AMERICAN LAKES,TILL						C	C	AMLK	01
NV	122	AMERICAN RAVINE,ANDESITE PORPHYRY	U			150	WC	C	AMRV	01	
OK	317	AMERICUS,LS (VANOSS GP)								AMRC	04
KS	317	AMERICUS,MBR (FORAKER LS)	U			2	EC	A	AMRC	01	
NE	317	AMERICUS,MBR (FORAKER LS)	U							AMRC	02
OK	317	AMERICUS,MBR (FORAKER LS)	U							AMRC	03
KY	321	AMES,LS MBR (CONEMAUGH FM)	U							AMES	01
MO	321	AMES,LS MBR (CONEMAUGH FM)	U							AMES	02
OH	321	AMES,LS MBR (CONEMAUGH FM)	U			2	SC	A	AMES	03	
WV	321	AMES,LS MBR (CONEMAUGH FM)	U							AMES	09
PA	321	AMES,LS MBR (GLENSHAW FM)	U							AMES	06
WV	321	AMES,LS MBR (GLENSHAW FM)								AMES	14
NH	227+	AMES,MONZODIORITE (WHITE MOUNTAIN GP)						SC	C	AMES	12
NH	231	AMES,MONZODIORITE (WHITE MOUNTAIN GP)								AMES	15
ME	357	AMES KNOB,FM	U	LS,SH		180	SC	A	AMKB	04	
CT	300	AMHERST,SCHIST	U					NW	A	AMRS	01
MI	344	AMHERSTBURG,FM (DETROIT RIVER GP)	U	DOL		9	SE	A	AMBG	01	
OH	344	AMHERSTBURG,FM (DETROIT RIVER GP)	U							AMBG	02
GA	400	AMICALOLA,GNEISS						NW	C	AMCL	01
MI	430	AMIK LAKE,GRANITE						NW	E	AKLK	03
NY	341	AMITY,SH MBR (CATTARAUGUS FM)								AMTY	02
PA	341	AMITY,SH MBR (CATTARAUGUS FM)						NW	A	AMTY	04
NV	122	AMMONIA TANKS,MBR (TIMBER MOUNTAIN TUFF)	U			76	SC	D	AMTK	01	
MA	364	AMMONOOSUC,VOLCS	U							AMSC	01
ME	364	AMMONOOSUC,VOLCS								AMSC	04
NH	364	AMMONOOSUC,VOLCS	U			760	C	A	AMSC	02	
VT	364	AMMONOOSUC,VOLCS	U							AMSC	03
NC	410	AMMONS,FM (GREAT SMOKY GP)								AMNS	01
WI	420	AMNICON,FM (ORONTO GP)	U	MSED		1500	WC	E	AMNC	01	
AZ	211+	AMOLE,ARKOSE				840	SC	C	AMOL	04	
AZ	217	AMOLE,ARKOSE								AMOL	09
AZ	211+	AMOLE,GP								AMOL	05
AZ	217	AMOLE,GP								AMOL	10
AZ	211	/AMOLE,GRANITE						SE	C	AMOL	06
AZ	211	/AMOLE,LATITE						SE	C	AMOL	07
AZ	211	/AMOLE,QUARTZ MONZONITE						SE	C	AMOL	08
IA	325	AMORET,MBR (ALTAMONT LS)								AMRT	01
KS	325	AMORET,MBR (ALTAMONT LS)								AMRT	02
MO	325	AMORET,MBR (ALTAMONT LS)				2	WC	D	AMRT	03	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
OK	325	AMORET, MBR (ALTAMONT LS)							AMRT 04
AZ	317	AMOS WASH, MBR (SUPAI FM)				110	C C		AMSW 01
AK	230	AMPHITHEATRE, BASALT					SE D		AMPR 01
MT	324+	AMSDEN, FM	U						AMSD 01
WY	324+	AMSDEN, FM	U	LS, SS		110	NC C		AMSD 02
ID	327+	AMSDEN, FM	U						AMSD 03
MT	327	AMSDEN, FM	U						AMSD 04
ND	327	AMSDEN, FM							AMSD 09
WY	327	AMSDEN, FM	U						AMSD 05
ID	331	AMSDEN, FM	U						AMSD 06
MT	331	AMSDEN, FM	U						AMSD 07
WY	331	AMSDEN, FM	U						AMSD 08
MT	324+	AMSDEN, GP	U						AMSD 10
MT	327	AMSDEN, GP	U						AMSD 11
VT	364	AMSTERDAM, LS	U						AMDM 09
NY	364	AMSTERDAM, LS (BLACK RIVER GP)	U			3	EC C		AMDM 05
VT	364	AMSTERDAM, LS (BLACK RIVER GP)							AMDM 08
NY	364	AMSTERDAM, LS (TRENTON GP)							AMDM 06
VT	364	AMSTERDAM, LS (TRENTON GP)							AMDM 07
MI	420	[AMYGDALOID ISLAND, BASALT (PORTAGE LAKE VOLCS)]				15	NW E		AMGI 02
MI	420	/AMYGDALOID ISLAND, FLOW (PORTAGE LAKE VOLCS)	U						AMGI 01
TX	212	ANACACHO, LS	U			85	SC A		ANCC 01
TX	212	ANACACHO, LS (TAYLOR GP)							ANCC 02
OK	323	ANADARCHE, MBR (HOXBAR FM)				61	SE A		ADRC 03
LA	122+	ANAHUAC, FM							ANHC 01
TX	122+	ANAHUAC, FM		SH		490	EC C		ANHC 02
LA	123	ANAHUAC, FM							ANHC 03
TX	123	ANAHUAC, FM							ANHC 04
NC	410	ANAKEESTA, FM (GREAT SMOKY GP)	U						ANKS 31
TN	410	ANAKEESTA, FM (GREAT SMOKY GP)	U	ARG, SS		1500	SC C		ANKS 02
AK	217	[ANAKTUVUK, FM]		SS		610	NC A		AKVK 02
AK	217	/ANAKTUVUK, GP	U						AKVK 01
PA	341	ANALOMINK, FM				30	NW A		ALMK 02
PA	341	/ANALOMINK, RED SH MBR (CATSKILL FM)	U						ALMK 01
PA	341	[ANALOMINK, SH MBR (CATSKILL FM)]							ALMK 03
WA	311	ANARCHIST, GP		MSED		>1500	CAN A		ARCS 03
ME	350	ANASAGUNTI COOK, FM (WOODSTOCK GP)		SCH, GN			NW D		AGCK 03
FL	112	ANASTASIA, FM	U	LS		18	EC A		ANSS 01
CA	121	ANAVERDE, FM	U	CGL, ARK		610	SC C		AVRD 01
IL	364	ANCELL, GP							ANCL 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN 370	ANDREWS,SCHIST	U						ADRS 11
CA 377+	ANDREWS MOUNTAIN,MBR (CAMPITO FM)	U	SS,STS		850	C	D	ADRM 04
NV 377+	ANDREWS MOUNTAIN,MBR (CAMPITO FM)	U						ADRM 03
CA 410	ANDREWS MOUNTAIN,MBR (CAMPITO FM)	U						ADRM 05
NV 410	ANDREWS MOUNTAIN,MBR (CAMPITO FM)	U						ADRM 06
ME 360	ANDROSCOGGIN,FM				1100	SW	C	ADCG 01
ME 360	ANDROSCOGGIN,GNEISS							ADCG 02
AZ 341	ANETH,FM							ANTH 01
CO 34L	ANETH,FM							ANTH 02
NM 341	ANETH,FM							ANTH 03
UT 341	ANETH,FM							ANTH 04
AZ 217	ANGELICA,ARKOSE	U	DOL,SH		52	SE	C	ANTH 04
KS 112	ANGELL,MBR (BALLARD FM)	U	SD,GVL		1500	SC	E	AGLC 01
WY 124	ANGELO,MBR (GREEN RIVER FM)	U	SED		2	SW	C	ANGL 01
NY 341	ANGOLA,SH (WEST FALLS GP)				59	SW	E	ANGL 03
NY 341	ANGOLA,SH MBR (WEST FALLS FM)	U			51	WC	A	ANGL 04
OR 122	ANGORA PEAK,SS MBR (ASTORIA FM)							ANGL 05
WA 122	ANGORA PEAK,SS MBR (ASTORIA FM)				300	NW	E	AGPK 01
CO 125+	ANIMAS,FM	U	CL,SS		210	SW	A	ANMS 03
NM 125+	ANIMAS,FM	U						ANMS 04
CO 211	ANIMAS,FM	U						ANMS 05
NM 211	ANIMAS,FM	U						ANMS 06
NM 120	ANIMAS,QUARTZ MONZONITE					SW	D	ANMS 02
NM 111+	ANIMAS VALLEY,BASALT				18	SW	C	AMVL 01
NM 112	ANIMAS VALLEY,BASALT							AMVL 02
MN 430	ANIMIKIE,GP	U	MET		3000	CAN	A	ANMK 01
CA 124+	ANITA,FM		SH		180	SC	C	ANIT 01
CA 125	ANITA,FM							ANIT 02
ID 231+	ANKAREH,FM	U						ANKR 01
UT 231+	ANKAREH,FM	U						ANKR 03
WY 231+	ANKAREH,FM	U		RD	460	NC	A	ANKR 05
ID 237	ANKAREH,FM	U						ANKR 08
UT 237	ANKAREH,FM	U						ANKR 10
WY 237	ANKAREH,FM	U						ANKR 12
WY 231+	ANKAREH,RED BEDS	U						ANKR 06
WY 237	ANKAREH,RED BEDS	U						ANKR 13
ID 231+	ANKAREH,SH	U						ANKR 02
UT 231+	ANKAREH,SH	U						ANKR 04
WY 231+	ANKAREH,SH	U						ANKR 07
ID 237	ANKAREH,SH	U						ANKR 09

UT	237	ANKAREH,SH		U						ANKR	11
WY	237	ANKAREH,SH		U						ANKR	14
AZ	211	ANKLAM,FM			TF,AND			SC	D	AKLM	01
OK	325	ANNA,SH BED (PAWNEE MBR OF OOLOGAH LS)								ANNA	04
IL	325	ANNA,SH MBR (CARBONDALE FM)								ANNA	06
IA	325	ANNA,SH MBR (PAWNEE LS)								ANNA	01
KS	325	ANNA,SH MBR (PAWNEE LS)					3	SE	C	ANNA	02
MO	325	ANNA,SH MBR (PAWNEE LS)								ANNA	03
OK	325	ANNA,SH MBR (PAWNEE LS)								ANNA	05
MO	420	ANNAPOLIS,RHYOLITE (VAN EAST GP)						SE	D	APLS	01
KS	317	ANNELLY,GYPSUM MBR (WELLINGTON FM)					4	C	C	ANNL	01
OR	111	[ANNIE CREEK,PUMICE]						SW	C	ACRK	10
OR	111	/ANNIE CREEK,PUMICE FLOWS								ACRK	02
AR	212	ANNOVA,CHALK		U						ANNN	01
LA	212	ANNOVA,CHALK		U						ANNN	02
MS	212	ANNOVA,CHALK		U						ANNN	03
OK	212	ANNOVA,CHALK		U						ANNN	04
TX	212	ANNOVA,CHALK		U			120	NE	C	ANNN	05
AR	212	ANNOVA,CHALK (TAYLOR GP)								ANNN	12
TX	212	ANNOVA,CHALK (TAYLOR GP)								ANNN	06
NY	364	ANNSVILLE,PHYLLITE						SE	C	ASVL	02
PA	364	ANNVILLE,FM (ST. PAUL GP)					73	SE	C	ANVL	02
PA	364	ANNVILLE,LS		U						ANVL	03
CT	361+	ANSONIA,GNEISS (HARTLAND GP)						SC	C	ANSN	01
CT	364	ANSONIA,GNEISS (HARTLAND GP)								ANSN	04
AZ	120	ANTELOPE,RHYOLITE						WC	A	ANLP	01
CA	211	/ANTELOPE,SH					1600	NC	C	ANLP	04
CA	122	/ANTELOPE,SH MBR (MONTEREY FM)					730	SC	C	ANLP	02
OR	121	ANTELOPE FLAT,BASALT					910	SE	D	ALPF	01
CA	364	ANTELOPE VALLEY,LS (POGONIP GP)		U						ALPV	01
NV	364+	ANTELOPE VALLEY,LS (POGONIP GP)		U			340	NC	C	ALPV	02
NV	367	ANTELOPE VALLEY,LS (POGONIP GP)		U						ALPV	04
CO	123	ANTERO,FM			VSED		620	C	C	ANTR	01
PA	364	ANTES,SH (TRENTON GP)					120	C	C	ANTS	01
OH	324	ANTHONY,SH [MBR] (POTTSVILLE FM)					7	NE	C	ANTN	03
OR	217	ANTHONY LAKE,GRANODIORITE						EC	C	ANLK	01
MD	377	ANTIETAM,FM (CHILHOWEE GP)			WH		76	NC	C	ANTM	01
PA	377	ANTIETAM,FM (CHILHOWEE GP)								ANTM	03
VA	377	ANTIETAM,FM (CHILHOWEE GP)								ANTM	07
PA	377	ANTIETAM,QTZ (CHILHOWEE GP)		U						ANTM	04



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VA 377	ANTIETAM,QTZ (CHILHOWEE GP)	U						ANTM 08
WV 377	ANTIETAM,QTZ (CHILHOWEE GP)	U						ANTM 11
MD 377	ANTIETAM,SCHIST (CHILHOWEE GP)	U						ANTM 02
PA 377	ANTIETAM,SCHIST (CHILHOWEE GP)	U						ANTM 05
MD 377	ANTIETAM,SS (CHILHOWEE GP)	U						ANTM 13
PA 377	ANTIETAM,SS (CHILHOWEE GP)	U						ANTM 06
VA 377	ANTIETAM,SS (CHILHOWEE GP)	U						ANTM 09
UT 123	ANTIMONY,TUFF MBR (MOUNT DUTTON FM)	U			20	SW	E	ANMN 01
IN 324	ANTIOCH,LS MBR (DUGGER FM)				2	WC	E	ANTC 02
OK 317	ANTIOCH,SS							ANTC 01
NV 317+	ANTLER PEAK,LS	U			190	NC	C	ALPK 01
NV 321	ANTLER PEAK,LS	U						ALPK 02
OK 218	ANTLERS,SAND (TRINITY GP)						SE	C ALRS 02
TX 218	ANTLERS,SAND (TRINITY GP)							ALRS 03
WA 120	ANTOINE,FM		CGL		290	NE	E	ANTN 05
IN 341	ANTRIM,SH							ANRM 03
MI 341	ANTRIM,SH				150	EC	A	ANRM 02
MI 430	ANVIL,MBR (IRONWOOD IRON-FORMATION)	U	CH		110	NW	A	ANVL 04
WI 430	ANVIL,MBR (IRONWOOD IRON-FORMATION)	U						ANVL 05
CO 124	ANVIL POINTS,MBR (GREEN RIVER FM)	U	MRL,SH		460	NW	C	AVLP 01
IL 325	ANVIL ROCK,SS MBR (CARBONDALE FM)							AVRK 02
KY 321	ANVIL ROCK,SS MBR (STURGIS FM)	U			9	WC	A	AVRK 01
CA 317	ANVIL SPRING,FM		LS		1100	EC	C	AVSP 03
CA 122	ANZA,FM		CGL		350	SE	D	ANZA 01
AZ 420	APACHE,GP		QTZ,SH		300		C	A APCH 06
NM 110	APACHE,TONGUE (CLAYTON BASALT)	U				NE	C	APCH 02
AZ 217	APACHE CANYON,FM (BISBEE GP)	U	CST		220	SE	D	APCC 01
CO 211	APACHE CREEK,SS MBR (PIERRE SH)				6	SC	C	APCK 01
AZ 122	APACHE LEAP,TUFF	U			610	C	E	APLP 03
NM 123	APACHE SPRING,QUARTZ LATITE		TF		760	SW	E	APSP 03
UT 124	APEX,CGL	U			10	C	D	APEX 02
MT 112	APEX,TILL				30	SW	C	APEX 01
GA 377	APISON,SH MBR (ROME FM)	U						APSN 01
NC 377	APISON,SH MBR (ROME FM)	U						APSN 02
TN 377	APISON,SH MBR (ROME FM)	U		VAR	300	SC	A	APSN 03
IA 341	APLINGTON,FM (YELLOW SPRING GP)		DOL		160	WC	D	APLG 09
NM 324	APODACA,FM (GREEN CANYON GP)		LS		17	SW	C	APDC 01
MT 420	APPEKUNNY,ARGILLITE (RAVALLI GP)	U			610	NW	C	APKN 03
MT 420	APPEKUNNY,FM (RAVALLI GP)	U						APKN 04
TX 313	APPEL RANCH,MBR (WORD FM)	U	LS,DOL		160	WC	D	APRC 01

MT	420	APPISTOKI,MBR (APPEKUNNY ARGILLITE)			670	NW	A	APSK	03	
MT	420	APPISTOKI,MBR (APPEKUNNY FM)						APSK	04	
ID	420	APPLE CREEK,FM (LEMHI GP)	U		3000	EC	D	APCK	03	
ID	420	APPLE CREEK,PHYLLITE (BELT SUPERGROUP)						APCK	02	
CA	231	[APPLEGATE,FM]						APLG	10	
OR	231	[APPLEGATE,FM]		VOL	>1600	SW	C	APLG	11	
CA	231	/APPLEGATE,GP	U					APLG	05	
OR	231	/APPLEGATE,GP						APLG	07	
TX		APPLE RANCH--SEE APPEL RANCH								
ME	360	APPLETON,FM		MSED			SC	D	APLN	01
AZ	122	APSEY,CGL MBR (GALIURO VOLCS)	U		120	SE	E	APSY	01	
NY	344	APULIA,LS			5	C	C	APUL	01	
NY	344	APULIA,MBR (TULLY LS)						APUL	02	
NY	344	APULIA,SH						APUL	03	
NY	347	[AQUETUCK,FM (TRISTATES GP)]		MS,LS	14	EC	D	AQCK	02	
NY	347	AQUETUCK,MBR (SCHOHARIE FM)						AQCK	01	
NY	347	/AQUETUCK,SH AND LS (TRISTATES GP)						AQCK	03	
DC	125	AQUIA,FM	U					AQUI	06	
DE	125	AQUIA,FM	U					AQUI	01	
MD	125	AQUIA,FM (PAMUNKEY GP)	U					AQUI	02	
VA	125	AQUIA,FM (PAMUNKEY GP)	U		30	EC	C	AQUI	04	
DC	125	AQUIA,GREENSAND	U					AQUI	07	
MD	125	AQUIA,GREENSAND (PAMUNKEY GP)	U					AQUI	03	
MA	112	AQUINNAH,CGL	U		<1	SE	C	AQNN	01	
MD	374+	ARABY,FM		MSTS	100	NC	E	ARBY	01	
MD	377	ARABY,FM						ARBY	02	
OR	124	ARAGO,FM	U		3000	SW	A	ARGO	01	
CO	211	ARAPAHOE,FM	U			EC	C	ARPH	02	
UT	224	ARAPIEN,SH	U		3400	C	C	ARPN	02	
AZ	122	ARAVAIPA,MBR (GALIURO VOLCS)	U	TF	90	SE	E	ARVP	01	
KS	367+	ARBUCKLE,GP	U					ABCK	04	
OK	367+	ARBUCKLE,GP	U		2700	SC	C	ABCK	05	
KS	371	ARBUCKLE,GP	U					ABCK	07	
OK	371	ARBUCKLE,GP	U					ABCK	08	
OK	367+	ARBUCKLE,LS	U					ABCK	06	
OK	371	ARBUCKLE,LS	U					ABCK	09	
FL	122	ARCADIA,FM		MRL	3	EC	A	ARCD	02	
WI	371	ARCADIA,MBR (TREMPEALEAU FM)		CGL,STS	7	WC	C	ARCD	05	
TX	212	ARCADIA PARK,FM (EAGLE FORD GP)		CL,SH	30	EC	A	ACPK	01	
TX	212	ARCADIA PARK,MBR (EAGLE FORD FM)						ACPK	04	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 337	ARCENTE, MBR (LAKE VALLEY LS)	U	STS, SH		70	SC	C	ARCH 01
VA 307	ARCH, FM (EVINGTON GP)				120	SC	C	ARCH 01
VA 307	ARCH, MARBLE (EVINGTON GP)							ARCH 02
VA 307	ARCHER CREEK, FM (EVINGTON GP)	U	SCH, MBL		270	SC	C	ACCK 01
AK 110	ARCH POINT, BASALT	U				SC	C	ARCP 01
CA 210	ARCH ROCK, GRANITE					C	C	ACRK 05
MS 124	ARCHUSA, MARL MBR (COOK MOUNTAIN FM)	U			15	EC	C	ARCS 01
AL 212	ARCOLA, LS MBR (MOOREVILLE CHALK)	U			9	WC	C	ARCL 01
MS 212	ARCOLA, LS MBR (MOOREVILLE CHALK)	U						ARCL 02
NV 317	ARCTURUS, FM	U			300	EC	A	ARCR 01
UT 317	ARCTURUS, FM	U						ARCR 03
NV 317	ARCTURUS, GP							ARCR 05
NV 317	ARCTURUS, LS	U						ARCR 02
UT 317	ARCTURUS, LS	U						ARCR 04
CA 124	ARDATH, SH (LA JOLLA GP)	U			70	SE	E	ARDT 01
DE 370	ARDEN, GRANITE					NC	C	ARDN 01
PA 370	ARDEN, GRANITE							ARDN 03
MT 211	/ARDMORE, BENTONITE BED (CLAGGETT SH)	U						ARDM 08
WY 211	/ARDMORE, BENTONITE BED (CODY SH)	U						ARDM 12
MT 211	/ARDMORE, BENTONITE BED (COKEDALE FM)							ARDM 10
WY 211	/ARDMORE, BENTONITE BED (MESAVERTS FM)	U						ARDM 13
ND 211	/ARDMORE, BENTONITE BED (PEMBINA MBR OF PIERRE SH)							ARDM 09
MT 211	/ARDMORE, BENTONITE BED (PIERRE SH)							ARDM 01
SD 211	/ARDMORE, BENTONITE BED (SHARON SPRINGS MBR OF PIERRE SH)	U			1	SW	C	ARDM 02
WY 211	/ARDMORE, BENTONITE BED (SHARON SPRINGS MBR OF PIERRE SH)	U						ARDM 03
MT 211	/ARDMORE, BENTONITE BED (TWO MEDICINE FM)							ARDM 11
IA 325	ARDMORE, LS MBR (CHEROKEE SH)							ARDM 04
MO 325	ARDMORE, LS MBR (CHEROKEE SH)				3	NC	A	ARDM 06
MO 325	ARDMORE, LS MBR (VERDIGRIS FM)							ARDM 07
PA 231	ARENDTSVILLE, FANGLOMERATE LENTIL (GETTYSBURG SH)				150	SC	A	ADVL 02
IA 323	ARGENTINE, MBR (WYANDOTTE LS)	U						ARGN 01
KS 323	ARGENTINE, MBR (WYANDOTTE LS)	U			10	NE	A	ARGN 02
MO 323	ARGENTINE, MBR (WYANDOTTE LS)	U						ARGN 03
NE 323	ARGENTINE, MBR (WYANDOTTE LS)	U						ARGN 04
MN 440	ARGO, GNEISS					NC	E	ARGO 03
WI 112	ARGYLE, TILL							ARGL 03
IL 112	ARGYLE, TILL MBR (WINNEBAGO FM)					NC	E	ARGL 02
CO 122	ARIKAREE, FM							ARKR 13
ND 122	ARIKAREE, FM							ARKR 12
SD 122	ARIKAREE, FM	U						ARKR 06

WY	122	ARIKAREE,FM	U						ARKR	08
NE	122	ARIKAREE,GP	U			150	NW	A	ARKR	10
SD	122	ARIKAREE,GP							ARKR	11
WY	122	ARIKAREE,GP							ARKR	14
CO	122	ARIKAREE,SS	U						ARKR	02
MT	122	ARIKAREE,SS	U						ARKR	04
NE	122	ARIKAREE,SS	U						ARKR	05
SD	122	ARIKAREE,SS	U						ARKR	07
WY	122	ARIKAREE,SS	U						ARKR	09
AR	212	ARKADELPHIA,MARL	U			49	SW	A	AKDP	01
LA	212	ARKADELPHIA,MARL	U						AKDP	03
TX	212	ARKADELPHIA,MARL	U						AKDP	05
AR	212	ARKADELPHIA,MARL (NAVARRO GP)							AKDP	02
TX	212	ARKADELPHIA,MARL (NAVARRO GP)							AKDP	06
AR	330+	ARKANSAS,NOVACULITE	U			270	WC	A	ARKS	01
OK	330+	ARKANSAS,NOVACULITE	U						ARKS	02
AR	340	ARKANSAS,NOVACULITE	U						ARKS	03
OK	340	ARKANSAS,NOVACULITE	U						ARKS	04
AZ	217	ARKILL,LS [BED] (SAAVEDRA MBR OF LOWELL FM)				<1	SE	C	ARKL	01
MI	344	ARKONA,SH				12	CAN	A	ARKN	01
OH	344	ARKONA,SH							ARKN	02
AK	125	ARKOSE RIDGE,FM	U	ARK,CGL		600	EC	C	AKRG	01
NY	341	ARKWRIGHT,GP		SH		440	WC	C	ARKG	01
GA	364	ARLINE,FM							ARLN	01
TN	364	ARLINE,FM		LS		120	NW	C	ARLN	02
VA	364	ARLINE,FM							ARLN	03
CA	330	ARLINGTON,FM	U	SL,SS		1700	NC	A	ARLG	03
WA	112	ARLINGTON,GRAVEL MBR (VASHON DRIFT)	U				NW	C	ARLG	01
TX	212	ARLINGTON,MBR (WOODBINE FM)		SD,CL		11	EC	D	ARLG	02
NM	324	ARMENDARIS,GP		LS		140	SW	C	ARMD	01
TN	324	ARMES GAP,SS (GRAVES GAP GP)				3	EC	A	AMGP	02
TN	324	ARMES GAP,SS MBR (GRAVES GAP FM)							AMGP	04
OH	337	ARMSTRONG,SS MBR (CUYAHOGA FM)				11	NC	A	ARMG	02
GA	344+	ARMUCHEE,CHERT	U			15	NW	A	ARMC	01
GA	347	ARMUCHEE,CHERT	U						ARMC	02
OH	361	ARNHEIM,FM				19	SW	A	ARNM	03
OH	361	ARNHEIM,SH	U						ARNM	04
OK	325	ARNOLD,MBR (DEESE FM)		LS,SS		76	SC	A	ARLD	02
ME	364	ARNOLD RIVER,FM		MSED		1000	CAN	E	ADRV	01
KY	321	ARNOLDSBURG,LS MBR (MONONGAHELA FM)	U						ADBG	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MD 321	/ARNOLDSBURG,LS MBR (MONONGAHELA FM)	U						ADBG 03
OH 321	/ARNOLDSBURG,LS MBR (MONONGAHELA FM)	U						ADBG 05
WV 321	/ARNOLDSBURG,LS MBR (MONONGAHELA FM)	U			5	NC	A	ADBG 10
OH 321	/ARNOLDSBURG,RED-BED MBR (MONONGAHELA FM)							ADBG 16
KY 321	ARNOLDSBURG,SS MBR (MONONGAHELA FM)	U						ADBG 02
OH 321	ARNOLDSBURG,SS MBR (MONONGAHELA FM)	U						ADBG 06
WV 321	ARNOLDSBURG,SS MBR (MONONGAHELA FM)	U			14	NC	A	ADBG 11
PA 321	ARNOLDSBURG,SS MBR (PITTSBURGH FM)							ADBG 15
CA 112	AROMAS,SAND	U			55	WC	C	ARMS 01
LA 124	ARP,MBR (QUEEN CITY SAND)							ARP 01
TX 124	ARP,MBR (QUEEN CITY SAND)				23	EC	C	ARP 03
LA 124	ARP,SAND [MBR] (REKLAW FM)							ARP 02
TX 124	ARP,SAND [MBR] (REKLAW FM)							ARP 04
CA 304	ARRASTRE,COMPLEX					SE	A	ARSR 01
CA 304	ARRASTRE,QTZ							ARSR 02
TX 324	ARREY,FM							ARRY 03
NM 324	ARREY,FM (GREEN CANYON GP)		LS		10	SW	C	ARRY 02
NV 341	ARROW CANYON,FM				340	SE	D	ARCN 02
NV 341	ARROW CANYON,LS							ARCN 03
MT 217	ARROW CREEK,MBR (COLORADO SH)	U	BNT	WH	12	C	C	ARCK 02
NV 331	ARROWHEAD,LS (MONTE CRISTO GP)	U	LS,SH		6	SE	A	ARRD 03
CA 331	ARROWHEAD,MBR (MONTE CRISTO LS)	U						ARRD 01
NV 331	ARROWHEAD,MBR (MONTE CRISTO LS)							ARRD 02
UT 331	ARROWHEAD,MBR (REDWALL LS)							ARRD 04
TX 318	ARROYO,FM (CLEAR FORK GP)	U	LS		76	C	C	ARRY 01
CA 124	/ARROYO HONDO,FM		SS,SH		91	C	C	ARHD 03
CA 124	ARROYO HONDO,SH MBR (LODO FM)	U			320	C	C	ARHD 04
NM 331+	ARROYO PENASCO,FM		LS		46	NC	C	ARPC 01
NM 337	ARROYO PENASCO,FM							ARPC 02
NM 331+	ARROYO PENASCO,GP	U						ARPC 03
NM 337	ARROYO PENASCO,GP	U						ARPC 04
CA 112	ARROYO SECO,GRAVEL	U			6	NW	A	ARSC 01
IL 367	ARSENAL,MBR (ONEOTA DOL)		CH		46	NE	D	ARSL 02
MN 112	ARSENAL,SAND					SC	D	ARSL 01
NM 313	ARTESIA,GP	U	LS,EVP		520	SE	D	ARTS 01
TX 313	ARTESIA,GP	U						ARTS 02
AZ 124	ARTILLERY,FM	U	VSED		760	WC	C	ARLR 01
CA 121+	ARTIST DRIVE,FM	U	VOL		300	EC	C	ARDV 01
CA 122	ARTIST DRIVE,FM	U						ARDV 02
CA 123	ARTIST DRIVE,FM	U						ARDV 03

DC	217	ARUNDEL,CLAY (POTOMAC GP)	U									ARDL	04
MD	217	ARUNDEL,CLAY (POTOMAC GP)	U					61	C	A		ARDL	02
MD	217	ARUNDEL,FM (POTOMAC GP)	U									ARDL	03
WY	112	ARVADA,FM	U	GVL,SD				2	NE	C		ARVD	01
CA	227	ARVISON,FM . . . . .	U	VOL . . . . .				1600	NW	C		ARVS	01
VA	361+	ARVONIA,FM	U							C	A	ARVN	03
VA	364	ARVONIA,FM	U									ARVN	04
VA	361+	ARVONIA,SLATE	U									ARVN	01
VA	364	ARVONIA,SLATE	U									ARVN	02
NJ	122	ASBURY PARK,MBR (KIRKWOOD FM) . . . . .	U	SD . . . . .				18	EC	D		ABPK	01
MI	420	ASHBED,AMYGDALOID (PORTAGE LAKE VOLCS)	U					55	NW	A		ASBD	01
GA	122	ASHBURN,FM	U	CL				22	SC	D		ASBR	01
NM	211	ASH CANYON,MBR (MESAVERT DE FM)	U	CST					SW	D		ASCN	01
AZ	430	ASH CREEK,GP	U	VSED				6000	C	C		ACRK	08
NM	400	ASH CREEK,SER . . . . .	U	MSED . . . . .				1800	SW	C		ACRK	09
NV	122	ASHDOWN,TUFF	U					60	NW	E		ASDN	01
NC	410	ASHE,FM	U	GN				>3000	NC	E		ASHE	01
VA	410	ASHE,FM	U									ASHE	04
OK	317	ASHER,FM	U	SS	RD			76	EC	A		ASHR	01
MT	344	ASHERN,FM (ELK POINT GP) . . . . .	U	DOL	RD			8	CAN	B		ASRN	02
ND	344	ASHERN,FM (ELK POINT GP)	U									ASRN	01
MO	112	ASHERVILLE,ALLUVIUM	U					24	SE	C		ARVL	01
NE	122	ASH HOLLOW,FM (OGALLALA GP)	U	SS				83	WC	C		ASHL	03
SD	122	ASH HOLLOW,FM (OGALLALA GP)	U									ASHL	04
WY	122	ASH HOLLOW,FM (OGALLALA GP)	U									ASHL	05
KS	122	ASH HOLLOW,MBR (OGALLALA FM)	U									ASHL	02
NE	122	ASH HOLLOW,MBR (OGALLALA FM)	U									ASHL	06
AK	112+	ASHISHIK,BASALT	U					150	SW	C		ASSK	01
AK	121	ASHISHIK,BASALT	U									ASSK	02
ME	350	ASHLAND,FM . . . . .	U	LS,SH					NE	C		ASLD	03
AL	307	ASHLAND,MICA SCHIST	U					3000	EC	A		ASLD	06
GA	307	ASHLAND,MICA SCHIST	U									ASLD	08
NY	377	ASHLEY HILL,LS CGL	U		YL			6	EC	C		ALHL	02
KY	361	ASHLOCK,FM	U	MS,LS				44	C	D		ALCK	03
CA	200+	ASH MOUNTAIN,COMPLEX . . . . .	U	INTR . . . . .						C		ASMN	01
CA	300	ASH MOUNTAIN,COMPLEX	U									ASMN	02
WA	210	ASHNOLA,GABBRO	U							CAN	A	ASNL	02
NY	344	ASHOKAN,FM (HAMILTON GP)	U	SH				180	SE	A		ASKN	01
TX	123	ASH SPRING,BASALT MBR (CHISOS FM)	U					61	SW	D		ASPG	01
OH	112	ASHTABULA,TILL . . . . .	U					6	NE	C		ASBL	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
PA 112	ASHTABULA,TILL	U						ASBL 02
ID 217	ASPEN,FM	U						ASP 10
WY 217	ASPEN,FM	U			610	SW	C	ASP 08
UT 217	ASPEN,MBR (MANCOS SH)							ASP 04
WY 217	ASPEN,MBR (MANCOS SH)							ASP 06
ID 217	ASPEN,SH	U						ASP 09
MT 217	ASPEN,SH	U						ASP 07
UT 217	ASPEN,SH	U						ASP 03
WY 217	ASPEN,SH	U						ASP 05
OK 317	ASPERMONT,DOL							APRM 01
TX 318	ASPERMONT,DOL				<1	NC	A	APRM 03
TX 318	ASPERMONT,DOL MBR (BLAINE FM)							APRM 05
OK 317	ASPERMONT,MBR (DOG CREEK SH)							APRM 02
TX 318	ASPERMONT,MBR (DOG CREEK SH)							APRM 04
UT 211	ASPHALT RIDGE,SS (MESAVERDE GP)				30	NE	C	APRG 01
UT 211	ASPHALT RIDGE,SS MBR (ILES FM)							APRG 03
OK 317	ASPHALTUM,SS				15	SC	A	APLM 01
OK 317	ASPINWALL,LS							ASPL 07
KS 317	ASPINWALL,LS (ADMIRE GP)							ASPL 02
NE 317	ASPINWALL,LS (ADMIRE GP)	U			<1	SE	A	ASPL 05
KS 317	ASPINWALL,LS MBR (CHICAGO MOUND FM)							ASPL 03
NE 317	ASPINWALL,LS MBR (CHICAGO MOUND FM)							ASPL 06
KS 317	ASPINWALL,LS MBR (ONAGA SH)	U						ASPL 04
MA 301	ASSABET,QUARTZ DIORITE	U				NC	C	ASBT 01
AK 200	ASSES EARS,GRANITE					NC	C	ASER 01
IL 325	ASSUMPTION,COAL MBR (SPOON FM)				1	C	C	ASMP 01
OR 122	ASTORIA,FM	U			430	NW	A	ASTR 01
WA 122	ASTORIA,FM	U						ASTR 03
OR 122	ASTORIA,SH							ASTR 02
WA 122	ASTORIA,SH							ASTR 04
CA 211	ASUNCION,FM		CGL,SS		3000	SC	C	ASNC 02
CA 211	ASUNCION,GP							ASNC 03
NM 211	ATARQUE,MBR (GALLUP SS)		SS,SH		39	WC	C	ATRG 02
NM 211	ATARQUE,MBR (MESAVERDE FM)							ATRG 01
AZ 120	ATASCOSA,FM		CGL,TF		240	SW	C	ASCS 01
TX 218	ATASCOSA,GP		LS			SC	D	ASCS 02
UT 122	ATCHINSON,FM		BRC		300	SW	C	ACNS 01
KS 112	ATCHISON,FM		SD,ST		24	NE	C	ACSN 01
MO 112	ATCHISON,FM							ACSN 03
NE 112	ATCHISON,FM							ACSN 02

TX	212	ALCO,FM (AUSTIN GP)		LS		46	EC	D	ATCO	01
WI	430	ATHELSTANE,QUARTZ MONZONITE					EC	A	ALSN	04
VA	364	ATHENS,FM (CLIFFFIELD GP)							ATNS	12
VA	364	ATHENS,LS							ATNS	10
TN	364	ATHENS,LS (CHICKAMAUGA GP)				150	SC	A	ATNS	08
AL	364	ATHENS,SH							ATNS	05
GA	364	ATHENS,SH							ATNS	07
VA	364	ATHENS,SH							ATNS	11
TN	364	ATHENS,SH (CHICKAMAUGA GP)							ATNS	09
IL	325	ATHENSVILLE,COAL MBR (MODESTO FM)				<1	C	C	ASVL	01
IN	112	ATHERTON,FM				SD,GVL	24	SC	ATR	01
AL	212	ATKINSON,FM							AKNS	01
FL	212	ATKINSON,FM							AKNS	05
GA	212	ATKINSON,FM				SH,SS	240	SC	AKNS	06
MI	420	ATLANTIC,AMYGDALOID (PORTAGE LAKE VOLCS)						NW	ALNC	03
CA	110	ATLAS,FM				ALV		SC	ATLS	01
TX	324	ATOKA,FM							ATOK	09
AR	326	ATOKA,FM							ATOK	01
KS	326	ATOKA,FM							ATOK	03
MO	326	ATOKA,FM							ATOK	04
NE	326	ATOKA,FM							ATOK	05
OK	326	ATOKA,FM					2100	SE	ATOK	07
OK	326	ATOKA,SS							ATOK	08
CA	210	ATOLIA,QUARTZ MONZONITE						SE	ATOL	01
NM	321+	ATRASADO,MBR (MADERA LS)				LS,SH	240	WC	ARSD	01
NM	324	ATRASADO,MBR (MADERA LS)							ARSD	02
AL	364	ATTALLA,CGL					12	NE	ATTL	01
GA	364	ATTALLA,CGL							ATTL	04
AL	364	ATTALLA,CHERT CGL MBR (CHICKAMAUGA LS)							ATTL	02
AL	364	ATTALLA,FM							ATTL	03
GA	364	ATTALLA,FM							ATTL	06
ME	367	ATTEAN,QUARTZ MONZONITE						WC	ATTN	03
KS	112	ATWATER,MBR (CROOKED CREEK FM)				ST,CL	15	SW	ATTR	01
NY	364	ATWATER CREEK,[MBR] (UTICA SH)					21	NC	ARCK	03
CO	124+	ATWELL GULCH,MBR (WASATCH FM)				CLS	560	WC	ALGC	01
CO	125	ATWELL GULCH,MBR (WASATCH FM)							ALGC	02
AZ	317	AUBREY,GP				LS,SS	800	NW	ABRY	01
NV	317	AUBREY,GP							ABRY	02
UT	317	AUBREY,GP							ABRY	03
MO	364	/AUBURN,CHERT						EC	ABRN	11



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AL 307	AUBURN,GNEISS (OPELIKA COMPLEX)					EC	E	ABRN 06
GA 307	AUBURN,GNEISS (OPELIKA COMPLEX)							ABRN 07
OK 322	AUBURN,SH (ADA GP)							ABRN 13
IA 322	AUBURN,SH (WABAUNSEE GP)	U						ABRN 01
KS 322	AUBURN,SH (WABAUNSEE GP)	U			6	EC	A	ABRN 02
MO 322	AUBURN,SH (WABAUNSEE GP)	U						ABRN 03
NE 322	AUBURN,SH (WABAUNSEE GP)	U						ABRN 04
OK 322	AUBURN,SH (WABAUNSEE GP)							ABRN 05
OK 317	AUGER,CGL LENTIL (WICHITA FM)	U			24	SW	A	AUGR 01
NM 120	AUGITE VENTS,BASALT					NE	D	AGVN 01
IL 364	AUGUSTA,MBR (JOACHIM DOL)							AGST 01
MO 364	AUGUSTA,MBR (JOACHIM DOL)		DOL,LS		9	EC	D	AGST 02
NV 231+	AUGUSTA MOUNTAIN,FM	U	LS,DOL		760	NC	C	AGSM 03
NV 234	AUGUSTA MOUNTAIN,FM	U						AGSM 01
NV 231+	AUGUSTA MOUNTAIN,FM (STAR PEAK GP)							AGSM 02
NV 234	AUGUSTA MOUNTAIN,FM (STAR PEAK GP)							AGSM 04
AK 111+	AUGUSTINE,VOLCS	U			100	C	E	AGSN 04
AK 112	AUGUSTINE,VOLCS	U						AGSN 05
NV 227+	AULD LANG SYNE,GP	U	SS		7600	NW	E	ALGS 01
NV 231	AULD LANG SYNE,GP	U						ALGS 02
OH 317	AULTS RUN,SS MBR (GREENE FM)	U			6	EC	E	ALSR 01
PA 317	AULTS RUN,SS MBR (GREENE FM)	U						ALSR 03
WV 317	AULTS RUN,SS MBR (GREENE FM)	U						ALSR 02
NV 360	AURA,FM		PHL,LS		1200	NE	D	AURA 01
OH 337	AURORA,STS MBR (ORANGEVILLE SH)	U		BL	2	NE	A	AURR 02
PA 337	AURORA,STS MBR (ORANGEVILLE SH)	U						AURR 04
NY 371	AUSABLE,MBR (POTSDAM SS)					NE	C	ASBL 04
GA 400	AUSTELL,GRANITE GNEISS					NW	A	ASTL 01
NY 377	AUSTERLITZ,PHYLLITE (COSSAYUNA GP)					EC	D	ARLZ 01
TX 212	AUSTIN,CHALK	U			130	EC	A	ASTN 01
AR 212	AUSTIN,GP							ASTN 04
TX 212	AUSTIN,GP							ASTN 02
NY 364	AUSTIN GLEN,FM		SS		150	EC	C	ASGL 02
NY 364	AUSTIN GLEN,GRAYWACKE MBR (NORMANSKILL SH)							ASGL 01
VT 364	AUSTIN GLEN,GRAYWACKE MBR (NORMANSKILL SH)							ASGL 03
NY 364	AUSTIN GLEN,GRAYWACKE MBR (WALLOOMSAC FM)							ASGL 05
VT 364	AUSTIN GLEN,GRAYWACKE MBR (WALLOOMSAC FM)							ASGL 04
VA 377	AUSTINVILLE,MBR (SHADY DOL)				300	SW	C	ASVL 04
MI 364+	AU TRAIN,FM	U	SS,DOL		38	NC	C	ATRN 04
MI 367	AU TRAIN,FM	U						ATRN 05

UT	420	AUTS CANYON,FM (SHEEPROCK GP)	PHL,QTZ	1700	WC	C	ASCN	02
IL	332+	AUX VASES,FM					AXVS	01
IN	332+	AUX VASES,FM					AXVS	08
KY	332+	AUX VASES,FM	U				AXVS	07
MO	332+	AUX VASES,FM		30	SE	A	AXVS	04
IL	333	AUX VASES,FM					AXVS	13
IN	333	AUX VASES,FM					AXVS	12
KY	333	AUX VASES,FM	U				AXVS	11
MO	333	AUX VASES,FM					AXVS	09
IL	332+	AUX VASES,SS	U				AXVS	02
MO	332+	AUX VASES,SS	U				AXVS	05
IL	333	AUX VASES,SS	U				AXVS	14
MO	333	AUX VASES,SS	U				AXVS	10
MO	344	AUXVASSE CREEK,SS MBR (CALLAWAY LS)		2	C	A	AXVC	01
OK	323	AVANT,MBR (IOLA LS)	U	12	NE	A	AVNT	02
CA	121	AVAWATZ,FM		300	SE	C	AVTZ	01
CA	124	AVENAL,SS	U	120	C	A	AVNL	01
VT	330	AVERILL,GRANITE					AVRL	01
CA	211	AVILA,MBR (SERPIENTE SS)		830	SC	C	AVIL	01
WV	331	/AVIS,LS MBR (HINTON FM)		14	SC	A	AVIS	09
WV	331	[AVIS,MBR (HINTON FM)]					AVIS	10
WV	331	AVIS,SH MBR (HINTON FM)		40	SC	A	AVIS	08
TX	321	AVIS,SS (THRIFTY GP)		12	NC	A	AVIS	01
TX	321	AVIS,SS MBR (GRAHAM FM)	U				AVIS	02
TX	321	AVIS,SS MBR (THRIFTY FM)					AVIS	03
MO	322	AVOCA,LS MBR (LECOMPTON FM)					AVOC	03
IA	322	AVOCA,MBR (LECOMPTON LS)					AVOC	01
KS	322	AVOCA,MBR (LECOMPTON LS)	U				AVOC	02
NE	322	AVOCA,MBR (LECOMPTON LS)	U	3	SE	A	AVOC	04
FL	124	AVON PARK,LS	U	200	EC	C	AVPK	02
GA	124	AVON PARK,LS	U				AVPK	03
FL	124	AVON PARK,LS (CLAIBORNE GP)					AVPK	04
GA	124	AVON PARK,LS (CLAIBORNE GP)					AVPK	05
GA	124	AVON PARK,SS	U				AVPK	06
AZ	420	AWATUBI,MBR (KWAGUNT FM)		340	NC	E	AWTB	01
PA	367	AXEMANN,LS (BEEKMANTOWN GP)	U	48	C	A	AXMN	01
MT	430	/AXES CREEK,PHASE (CHERRY CREEK FM)]		>240	SW	C	AXCK	01
MT	430	/AXES CREEK,PHASE (CHERRY CREEK SER)					AXCK	02
UT	112+	AXTELL,FM		23	C	C	AXTL	01
UT	121	AXTELL,FM	CGL				AXTL	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY 124	AYCROSS,FM	U	CL,TF		300	WC	C	ACRS 01
CT 337+	AYER,GRANITE							AYER 01
MA 337+	AYER,GRANITE	U				NC	C	AYER 03
NH 337+	AYER,GRANITE							AYER 05
CT 341	AYER,GRANITE							AYER 07
MA 341	AYER,GRANITE	U						AYER 10
NH 341	AYER,GRANITE							AYER 12
CT 337+	AYER,GRANODIORITE							AYER 02
MA 337+	AYER,GRANODIORITE							AYER 04
NH 337+	AYER,GRANODIORITE	U						AYER 06
CT 341	AYER,GRANODIORITE							AYER 08
MA 341	AYER,GRANODIORITE							AYER 11
NH 341	AYER,GRANODIORITE	U						AYER 13
VT 347+	AYERS CLIFF,FM	U	LS,SS		1400	CAN	C	ACLF 03
VT 351	AYERS CLIFF,FM	U						ACLF 07
VT 347+	AYERS CLIFF,MBR (WAITS RIVER FM)							ACLF 04
VT 351	AYERS CLIFF,MBR (WAITS RIVER FM)							ACLF 08
FL 112	AYERS LANDING,MBR (CALOOSAHATCHEE FM)		LS		1	SE	C	ALDG 02
FL 112	AYERS LANDING,MBR (CALOOSAHATCHEE MARL)							ALDG 01
AK 211	AYIYAK,MBR (SEABEE FM)	U	STS,SH		110	NC	C	AYYK 01
TX 327	AYLOR,MBR (BIG SALINE FM)		LS		30	C	C	AYLR 01
NV 364	AYSEES,MBR (ANTELOPE VALLEY LS)	U			230	SE	D	AYSS 01
ME 367	AZISCOHOS,FM	U	SL,PHL		2100	WC	D	AZSC 02
NH 367	AZISCOHOS,FM							AZSC 01
NM 313	AZOTEA,TONGUE (SEVEN RIVERS FM)	U	DOL			SE	C	AZOT 01
NV 220+	AZTEC,SS	U			640	SE	A	AZTC 03
NV 230	AZTEC,SS	U						AZTC 04
NY 344	BABCOCK HILL,MBR (ONONDAGA FM)		LS,CH		15	C	C	BBKH 01
AZ 120	BABOQUIVARI,GRANITE	U		RD		SC	D	BBQV 01
NM 110	BABY CAPULIN,BASALT					NE	C	BBCP 01
IL 326	BABYLON,SS MBR (ABBOTT FM)				8	WC	C	BBLN 02
NM 124	BACA,FM	U	CGL,SS		210	C	C	BACA 01
MO 339	BACHELOR,FM (CHOUTEAU GP)		SS		<1	C	C	BCLR 09
MO 322	BACHELOR CREEK,LS MBR (HOWARD FM)							BCKK 17
KS 322	BACHELOR CREEK,MBR (HOWARD LS)	U			<1	SE	A	BCKC 04
CO 123	BACHELOR MOUNTAIN,MBR (CARPENTER RIDGE TUFF)	U				SW	D	BCLM 01
CO 123	BACHELOR MOUNTAIN,RHYOLITE							BCLM 03
KY 361	BACK,BED (TATE MBR OF ASHLOCK FM)	U	LS		2	C	D	BACK 01
IL 347	BACKBONE,LS	U			21	SC	A	BCKB 09
IN 347	BACKBONE,LS							BCKB 17

KY	347	BACKBONE,LS	U						BCKB	15	
PA	344	BACKBONE RIDGE,STS MBR (MAHANTANGO FM)				14	SC	D	BKBR	01	
TX	218	BACON,LS MBR (FERRY LAKE ANHYDRITE)				9	NE	C	BCON	02	
TN	364	BACON BEND,MBR (SEVIER FM)	U	SH,SS		50	EC	C	BCBD	01	
MT	211	BACON CREEK,MBR (HELL CREEK FM)							BCKC	01	
ND	211	BACON CREEK,MBR (HELL CREEK FM)		SH,BNT		36	SW	E	BCKC	02	
WY	211	BACON RIDGE,SS	U			280	NW	C	BCRG	03	
VA	112+	BACONS CASTLE,FM		SD,GVL		9	SE	D	BCCL	01	
VA	121	BACONS CASTLE,FM							BCCL	02	
KS	317	BADER,FM (COUNCIL GROVE GP)				7	EC	C	BDER	01	
NE	317	BADER,FM (COUNCIL GROVE GP)							BDER	03	
OK	317	BADER,FM (COUNCIL GROVE GP)							BDER	05	
KS	317	BADER,LS (COUNCIL GROVE GP)	U						BDER	02	
NE	317	BADER,LS (COUNCIL GROVE GP)							BDER	04	
OK	317	BADER,LS (COUNCIL GROVE GP)	U						BDER	06	
CA	217	BADGER,SH				1100	C	C	BDGR	01	
OR	217	BADGER BUTTE,QUARTZ-BIOTITE NORITE						C	C	BDGB	03
CO	123	BADGER CREEK,TUFF	U			95	C	E	BGCK	01	
CA	364	BADGER FLAT,LS (MAZOURKA GP)	U			180	C	D	BDGF	01	
AZ	400	BADGER SPRING,GRANODIORITE	U					C	E	BGSP	07
NV	121	BADGER VALLEY,BASALT				61	SE	D	BDGV	01	
MI	430	BAD RIVER,DOL (CHOCOLAY GP)	U						BDRV	02	
WI	430	BAD RIVER,DOL (CHOCOLAY GP)				91	NC	A	BDRV	03	
MI	430	BADWATER,GREENSTONE (BARAGA GP)	U			4800	WC	C	BDTR	01	
WI	430	BADWATER,GREENSTONE (BARAGA GP)	U						BDTR	02	
AZ	217	[BAGA,BEDS (JOSERITA MBR OF LOWELL FM)]		LS,SH		2	SE	C	BAGA	01	
AZ	217	/BAGA,SH AND LS (JOSERITA MBR OF LOWELL FM)							BAGA	02	
WY	430	BAGGOT ROCKS,GRANITE						SC	E	BGRK	03
CA	227	BAGLEY,ANDESITE	U			300	NW	A	BGLY	01	
IL	347	BAILEY,LS	U						BILY	03	
IN	347	BAILEY,LS	U						BILY	06	
KY	347	BAILEY,LS	U						BILY	04	
MO	347	BAILEY,LS	U						BILY	05	
NV	327	BAILEY CREEK,MBR (SCHOONOVER FM)		LS,CH		340	NC	D	BLCK	22	
NV	327+	BAILEY SPRING,LS	U			690	EC	A	BSPG	28	
NV	331	BAILEY SPRING,LS	U						BSPG	30	
MO	354	BAINBRIDGE,FM				30	SE	C	BBDG	06	
MO	354	BAINBRIDGE,GP							BBDG	07	
IL	354	BAINBRIDGE,LS	U						BBDG	05	
MO	354	BAINBRIDGE,LS	U						BBDG	08	

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	317+	BAIRD,FM	U		BK	150	NW	A	BIRD 08
CA	320	BAIRD,FM	U						BIRD 01
CA	330	BAIRD,FM	U						BIRD 03
AK	340+	BAIRD,GP	U	LS			NC	D	BIRD 05
AK	350	BAIRD,GP	U						BIRD 06
AK	360	BAIRD,GP	U						BIRD 10
CA	317+	BAIRD,SH	U						BIRD 09
CA	320	BAIRD,SH	U						BIRD 02
CA	330	BAIRD,SH	U						BIRD 04
AR	337	BAIRD MOUNTAIN,LS MBR (NORTHVIEW FM)							BRDM 10
OK	337	BAIRD MOUNTAIN,LS MBR (NORTHVIEW FM)							BRDM 09
MO	339	BAIRD MOUNTAIN,LS MBR (NORTHVIEW FM)			RD	2	SC	E	BRDM 03
VT	364	BAKER BROOK,VOLCS				61	SW	D	BK BK 03
CA	211	BAKER CANYON,CGL MBR (LADD FM)	U			61	SE	C	BKRC 03
NH	341	BAKER POND,GNEISS (OLIVERIAN GP)					WC	C	BKPD 01
CO	430	BAKERS BRIDGE,GRANITE	U		RD		SW	E	BK BG 04
VT	377	BAKERSFIELD,GREENSTONE [MBR] (UNDERHILL FM)					NW	D	BKFD 06
OH	321	BAKERSTOWN,MBR (CONEMAUGH FM)							BKRS 01
PA	321	BAKERSTOWN,SS MBR (CONEMAUGH FM)				10	WC	C	BKRS 04
NC	410	BAKERSVILLE,GABBRO	U				NW	A	BKVL 17
TN	410	BAKERSVILLE,GABBRO	U						BKVL 18
MT	337+	BAKKEN,FM	U						BKKN 02
ND	337+	BAKKEN,FM	U	SH,SS		32	NW	C	BKKN 03
MT	341	BAKKEN,FM	U						BKKN 06
ND	341	BAKKEN,FM	U						BKKN 07
NY	344	BAKOVEN,SH (HAMILTON GP)	U		BK	61	EC	A	BKVN 01
CA	344	BALAKLALA,RHYOLITE	U			1100	NW	C	BLKL 03
CA	344	BALAKLALA,RHYOLITE MBR (COPLY GREENSTONE)							BLKL 06
OR	112	[BALD CRATER,BASALT]					SW	C	BLDC 04
OR	112	/BALD CRATER,BASALT FLOW							BLDC 02
PA	361	BALD EAGLE,FM		SS,CGL		200	C	A	BDEG 01
PA	361	BALD EAGLE,MBR (JUNIATA FM)							BDEG 02
CA	211	BALD HILLS,FM		CGL,SS		570	NW	C	BLDH 02
UT	123	BALDHILLS,TUFF MBR (ISOM FM)	U				SW	C	BLDL 02
UT	123+	BALD KNOLL,FM		CL,STS		180	C	C	BLDK 01
UT	124	BALD KNOLL,FM							BLDK 02
WA	227+	/BALD MOUNTAIN,FM		SED			NW	D	BLDM 10
WA	231	/BALD MOUNTAIN,FM							BLDM 11
UT	400	/BALD MOUNTAIN,FM		QTZ,CGL		380	NW	C	BLDM 16
NV	121+	BALD MOUNTAIN,LAKE BEDS MBR (ESMERALDA FM)	U	CGL,SS		150	C	A	BLDM 05

NV	122	BALD MOUNTAIN,LAKE BEDS MBR (ESMERALDA FM)	U									BLDM	06
NY	364+	BALD MOUNTAIN,LS						31	EC	A		BLDM	13
VT	364+	BALD MOUNTAIN,LS										BLDM	14
NY	367	BALD MOUNTAIN,LS										BLDM	17
VT	367	BALD MOUNTAIN,LS										BLDM	18
OR	217	/BALD MOUNTAIN,TONALITE								NE	C	BLDM	08
CA	122	BALD PEAK,BASALT (CONTRA COSTA GP)	U							WC	C	BDPK	01
CA	122	BALD PEAK,FM (CONTRA COSTA GP)										BDPK	02
VA	327	BALD ROCK,CGL MBR (LEE FM)	U					21	SW	A		BRCK	54
CA	221	BALD ROCK,GRANITE								NW	C	BRCK	16
WI	430	/BALDWIN,CGL								NE	D	BLDN	11
IL	332	BALDWIN,FM			SH,LS			23	SC	C		BLDN	09
CA	400	BALDWIN,GNEISS						610	SE	C		BLDN	10
NY	367	BALDWIN CORNER,FM			DOL,LS			37	EC	C		BLDC	03
CO	231	BALDY HILL,FM (DOCKUM GP)										BLDH	05
NM	231	BALDY HILL,FM (DOCKUM GP)			MS,SS			35	NE	C		BLDH	03
KS	112	BALLARD,FM (MEADE GP)	U		SD,ST			6	SW	C		BLRD	01
CA	124	BALLENA,GRAVEL						30	SE	A		BLLN	01
TX	110	BALLUCO,GRAVEL	U					6	WC	D		BLLC	01
NY	364	BALMVILLE,LS						15	SE	A		BLMV	01
TX	321	BALSORA,LS [BED] (PALO PINTO FM)						1	NE	A		BLSR	01
MI	420	BALTIC,AMYGDALOID (PORTAGE LAKE VOLCS)	U			RD			NW	A		BLTC	02
MI	420	/BALTIC,CGL [BED] (PORTAGE LAKE VOLCS)	U						NW	A		BLTC	01
MD	307	/BALTIMORE,GABBRO							NC	C		BLMR	01
MD	307	/BALTIMORE,GABBRO COMPLEX										BLMR	02
DE	400	BALTIMORE,GNEISS	U									BLMR	05
MD	400	BALTIMORE,GNEISS	U						NC	A		BLMR	06
NJ	400	BALTIMORE,GNEISS	U									BLMR	07
PA	400	BALTIMORE,GNEISS	U									BLMR	08
VA	400	BALTIMORE,GNEISS	U									BLMR	09
ID	121	BANBURY,BASALT (IDAHO GP)	U					110	SC	A		BNBR	01
NV	121	BANBURY,FM	U									BNBR	04
ID	121	BANBURY,FM (IDAHO GP)	U									BNBR	02
NM	112	BANCO BONITO,MBR (VALLES RHYOLITE)							NW	D		BNCB	01
ID	374	BANCROFT,LS	U					160	SE	E		BRCF	07
UT	374	BANCROFT,LS	U									BRCF	08
NC	377	BANDANA,DOL				WH			NW	D		BNDN	01
NV	371+	BANDED MOUNTAIN,MBR (BONANZA KING FM)	U		LS,DOL			750	SE	D		BDDM	02
NV	374	BANDED MOUNTAIN,MBR (BONANZA KING FM)	U									BDDM	03
NM	112	BANDELIER,RHYOLITE TUFF (TEWA GP)							NC	C		BDLR	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
NM 112	BANDELIER,TUFF (TEWA GP)	U						BDLR 02	
IA 325	BANDERA,SH (MARMATON GP)	U						BNDR 06	
KS 325	BANDERA,SH (MARMATON GP)	U			30	SE	A	BNDR 07	
MO 325	BANDERA,SH (MARMATON GP)	U						BNDR 08	
OK 325	BANDERA,SH (MARMATON GP)	U						BNDR 09	
OK 325	BANDERA,SH MBR (OOLOGAH LS)	U						BNDR 10	
KS 325	BANDERA QUARRY,SS MBR (BANDERA SH)				9	SE	B	BDRQ 02	
MO 325	BANDERA QUARRY,SS MBR (BANDERA SH)							BDRQ 01	
MT 337	BANFF,FM		LS		260	CAN	A	BNFF 01	
AL 331	BANGOR,LS	U			210	NC	A	BNGR 03	
GA 331	BANGOR,LS	U						BNGR 04	
KY 331	BANGOR,LS	U						BNGR 05	
MS 331	BANGOR,LS	U						BNGR 09	
TN 331	BANGOR,LS	U						BNGR 06	
AK 123+	BANJO POINT,FM	U	SS,CGL		42	SW		BNJP 01	
AK 124	BANJO POINT,FM	U						BNJP 02	
KY 324	BANKSTON FORK,LS MBR (CARBONDALE FM)							BKFK 04	
IL 325	BANKSTON FORK,LS MBR (CARBONDALE FM)				5	SE	A	BKFK 03	
IL 112	BANNER,FM		TL		91	NC	E	BNNR 01	
NV 331	BANNER,FM	U			350	NE	C	BNNR 02	
NV 331	BANNER,LS							BNNR 03	
ID 410	[BANNOCK,MBR (POCATELLO FM)]				370	SE	A	BNCK 06	
ID 410	/BANNOCK,VOLC MBR (POCATELLO FM)							BNCK 04	
MN 420	[BAPTISM RIVER,BASALT (NORTH SHORE GP)]				90	EC	E	BPRV 02	
MN 420	BAPTISM RIVER,LAVA (NORTH SHORE GP)							BPRV 01	
WI 420	BARABOO,QTZ	U			1500	SC	A	BRBO 01	
MI 430	BARAGA,GP (MARQUETTE RANGE SUPERGROUP)	U	QTZ,SL			NW	C	BARG 01	
WI 430	BARAGA,GP (MARQUETTE RANGE SUPERGROUP)							BARG 02	
AZ 217	BARATA,LS [BED] (SAAVEDRA MBR OF LOWELL FM)				<1	SE	C	BART 01	
NM 321	BAR B,FM (MAGDALENA GP)		LS,SH		100	SW	C	BARB 01	
OK 351	BARBER,MBR (QUARRY MOUNTAIN FM)		DOL		16	NE	D	BRBR 02	
WV 112	BARBOURSVILLE,SILT				26	WC	C	BBVL 01	
WA 310	BARCLAY CREEK,FM		ARG		1100	NC	D	BCCK 03	
CA 210+	BARCROFT,GRANODIORITE						C	D	BRCF 01
CA 220	BARCROFT,GRANODIORITE							BRCF 02	
MN 420	BARDON PEAK,GABBRO (DULUTH COMPLEX)				61	NC	C	BDPK 08	
KY 361	BARSTOWN,MBR (DRAKES FM)		LS		12	C	E	BRDS 07	
ME 354	[BAR HARBOR,FM]		SL,QTZ		300	SE	A	BRHB 02	
ME 354	/BAR HARBOR,SER							BRHB 01	
ME 347	BARING,GRANITE					EC	E	BRNG 14	

MT	124	BARKER,PORPHYRY	U				C	C	BRKR	01	
VT	377	BARKER,QTZ	U				WC	A	BRKR	07	
CO	211	BARKER DOME,TONGUE (CLIFF HOUSE SS)	U						BKDM	01	
NM	211	BARKER DOME,TONGUE (CLIFF HOUSE SS)	U				NW	C	BKDM	02	
AK	230+	BARLOW COVE,FM	U	SCH		2000	EC	C	BLCV	01	
AK	310	BARLOW COVE,FM	U						BLCV	02	
WA	124	BARLOW PASS,VOLCS	U						BRLP	01	
CA	112	/BARLOW RANCH,BEDS		SD		1200	NC	C	BRLP	01	
CA	112	[BARLOW RANCH,FM]					SC	C	BLRC	01	
VT	364	BARNARD,GNEISS						C	A	BRRD	17
VT	364	BARNARD,MBR (MISSISQUOI FM)								BRRD	22
AZ	420	BARNES,CGL (APACHE GP)				5	EC	A	BRNS	18	
AZ	420	BARNES,CGL MBR (DRIPPING SPRING QTZ)	U							BRNS	19
MT	121	BARNES CREEK,GRAVEL				76	WC	D	BRCK	05	
KS	317	BARNESTON,LS (CHASE GP)	U							BRNS	14
NE	317	BARNESTON,LS (CHASE GP)	U				SE	A	BRNS	16	
TX	331+	BARNETT,FM	U			15	C	A	BRNT	03	
TX	337	BARNETT,FM	U							BRNT	07
TX	331+	BARNETT,SH	U							BRNT	04
TX	337	BARNETT,SH	U							BRNT	08
OK	326	BARNETT HILL,FM		SS,SH		130	SE	C	BRHL	04	
MT	440	BARNEY CREEK,AMPHIBOLITE (NORTH SNOWY GP)				240	SC	E	BRCK	78	
MO	364	BARNHART,FM		SH		6	EC	C	BRNR	01	
OK	323	BARNSDALL,FM (OCHELATA GP)	U	LS,SH		30	NE	C	BRDL	03	
MN	112	BARNUM,TILL			RD		NE	E	BRNM	01	
GA	124	BARNWELL,FM	U							BRNL	01
SC	124	BARNWELL,FM (ORANGEBURG GP)	U			60	C	A	BRNL	03	
SC	124	BARNWELL,SAND (ORANGEBURG GP)	U							BRNL	04
VT	347+	/BARRE,GP		MSED				C	C	BRRE	05
VT	351	/BARRE,GP								BRRE	04
VT	341	BARRE,GRANITE	U					C	A	BRRE	01
CA	364	BARREL SPRING,FM	U	QTZ,LS		40	EC	A	BSPG	34	
CA	364	BARREL SPRING,FM (EUREKA GP)								BSPG	35
TX	123	BARREL SPRINGS,FM		RHY		32	WC	E	BSPG	05	
WI	420	BARRON,QTZ				180	WC	A	BRRN	13	
AK	211	BARROW TRAIL,MBR (SCHRADER BLUFF FM)	U	SS		180	NC	C	BRTL	05	
CA	122	BARSTOW,FM	U	SS,TF		18	SE	A	BRST	01	
PA	337	BARTHOLOMEW,STS MBR (ORANGEVILLE SH)	U			<1	NW	C	BRLM	05	
NV	347	BARTINE,MBR (MCCOLLEY CANYON FM)		LS		180	NE	E	BRTN	14	
NM	211	/BARTLETT,BARREN MBR (CREVASSE CANYON FM)	U	SS,SH		120	NW	A	BRTL	08	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
NM 211	BARTLETT,MBR (CREVASSE CANYON FM)						BRTL 04
NM 211	BARTLETT,MBR (MESAVERDE FM)						BRTL 07
CA 121	BARTOLO,CGL					SC C	BRTL 01
MD 321	BARTON,LS [BED] (CONEMAUGH FM)				1	NW C	BRTN 04
PA 321	BARTON,LS [BED] (CONEMAUGH FM)						BRTN 09
OH 321	BARTON,SH MBR (CONEMAUGH FM)						BRTN 08
NV 371	BARTON CANYON,MBR (WINDFALL FM)		LS		11	EC C	BRNC 05
NY 400	BARTON MOUNTAIN,FM		GN		1000	NE E	BRNM 10
VT 347+	[BARTON RIVER,FM]		LS,PHL		2700	NC C	BRRV 13
VT 351	[BARTON RIVER,FM]						BRRV 14
VT 347+	/BARTON RIVER,FM (BARRE GP)						BRRV 08
VT 351	/BARTON RIVER,FM (BARRE GP)						BRRV 11
VT 347+	BARTON RIVER,MBR (WAITS RIVER FM)						BRRV 09
VT 351	BARTON RIVER,MBR (WAITS RIVER FM)						BRRV 12
NV 364+	BASCO,FM		STS,CH		530	NE C	BSCO 01
NV 367	BASCO,FM						BSCO 02
VT 367	BASCOM,FM (BEEKMANTOWN GP)		LS,DOL		110	WC C	BSCM 02
MA 367	BASCOM,FM (STOCKBRIDGE GP)	U					BSCM 01
VT 367	BASCOM,FM (STOCKBRIDGE GP)	U					BSCM 03
AZ 211	BASELINE,SS	U					BSLN 01
NV 211	BASELINE,SS	U			1100	SE C	BSLN 02
OR 224	BASEY,MBR (SNOWSHOE FM)	U	VOL		760	C C	BSEY 03
FL 124	BASHI,FM						BSHI 04
AL 124	BASHI,FM (WILCOX GP)	U	MRL,CL		30	WC A	BSHI 01
GA 124	BASHI,FM (WILCOX GP)	U					BSHI 06
MS 124	BASHI,MARL						BSHI 13
AL 124	BASHI,MARL MBR (HATCHETIGBEE FM)	U					BSHI 02
FL 124	BASHI,MARL MBR (HATCHETIGBEE FM)						BSHI 12
GA 124	BASHI,MARL MBR (HATCHETIGBEE FM)	U					BSHI 07
MS 124	BASHI,MARL MBR (HATCHETIGBEE FM)	U					BSHI 10
FL 124	BASHI,MARL MBR (WILCOX FM)						BSHI 05
MS 124	BASHI,MARL MBR (WILCOX FM)						BSHI 11
MS 124	BASIC CITY,SH MBR (TALLAHATTA FM)	U			40	EC A	BSCC 01
AK 123	BASIN CREEK,MBR (KATALLA FM)	U	SS,SH		300	SE C	BCRK 07
NM 120	BASIN CREEK,TUFF				210	SW D	BCRK 03
AZ 420	BASS,LS (UNKAR GP)	U			93	NC A	BASS 01
VA 400	BASSETT,FM		GN			SC E	BSST 02
CO 123	BASSICK,AGGLOMERATE	U			430	SC A	BSCK 01
MI 351	BASS ISLANDS,DOL	U					BILD 07
OH 351	BASS ISLANDS,DOL				170	NC A	BILD 09

PA	351	BASS ISLANDS,DOL								BILD	19
MI	351	BASS ISLANDS,GP								BILD	08
OH	351	BASS ISLANDS,GP								BILD	10
CA	330	BASS MOUNTAIN,BASALT						NW	A	BSMN	07
CA	330	BASS MOUNTAIN,DIABASE								BSMN	08
OR	123+	BASTENDORFF,SH								BDRF	01
OR	124	BASTENDORFF,SH								BDRF	02
NV	354	BASTILLE,LS								BSTL	02
NV	354	BASTILLE,LS MBR (MASKET SH)								BSTL	01
TX	112	BASTROP PARK,TERRACE DEPOSIT								BPPK	01
AZ	121	BATAMOTE,ANDESITE								BTMT	01
IL	112	BATAVIA,MBR (HENRY FM)								BTVI	01
NM	367	BAT CAVE,FM (EL PASO GP)								BTCV	01
NM	367	BAT CAVE,LS (EL PASO GP)								BTCV	02
NM	367	BAT CAVE,MBR (EL PASO LS)								BTCV	03
OR	124	BATEMAN,FM								BTMN	01
ME	354	BATES,LS								BTES	01
SD	122	BATESLAND,FM								BSLD	01
NV	122	BATES MOUNTAIN,TUFF								BSMN	01
CT	364+	BATES POND,LENTIL (PUTNAM GNEISS)								BSPD	01
CT	367	BATES POND,LENTIL (PUTNAM GNEISS)								BSPD	02
CT	370	BATES POND,LENTIL (PUTNAM GNEISS)								BSPD	03
CT	364+	BATES POND,LENTIL (TATNIC HILL FM)								BSPD	04
CT	367	BATES POND,LENTIL (TATNIC HILL FM)								BSPD	05
CT	370	BATES POND,LENTIL (TATNIC HILL FM)								BSPD	06
IL	112	BATESTOWN,TILL MBR (WEDRON FM)								BTSN	01
WI	112	BATESTOWN,TILL MBR (WEDRON FM)								BTSN	02
OK	331	BATESVILLE,FM								BSVL	05
MO	332	BATESVILLE,FM								BSVL	03
AR	331	BATESVILLE,SS								BSVL	02
OK	331	BATESVILLE,SS								BSVL	06
MO	332	BATESVILLE,SS								BSVL	04
AZ	217	BATHTUB,FM								BTTB	01
AK	217	BATHTUB,GRAYWACKE								BTTB	03
VT	377	BATTELL,MBR (MONASTERY FM)								B TTL	04
VT	377	BATTELL,MBR (UNDERHILL FM)								B TTL	05
CA	112	BATTERY,FM								B TTR	01
KY	327	BATTERY ROCK,SS MBR (CASEYVILLE FM)								BRCK	51
IL	328	BATTERY ROCK,SS MBR (CASEYVILLE FM)								BRCK	49
ME	307	BATTIE,QTZ								B TTI	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 331	BATTIEST,CHERT MBR (TENMILE CREEK FM)				5	SE	C	BTST 01
NV 324	BATTLE,CGL	U			210	NC	C	BTTL 02
NV 324	BATTLE,FM	U						BTTL 03
OR 112+	BATTLE AX,BASALT					NW	C	BLAX 01
OR 121	BATTLE AX,BASALT							BLAX 02
NC 304+	BATTLEGROUND,SCHIST	U						BLGD 01
SC 304+	BATTLEGROUND,SCHIST	U			760	NC	A	BLGD 04
NC 360	BATTLEGROUND,SCHIST	U						BLGD 03
SC 360	BATTLEGROUND,SCHIST	U						BLGD 08
NM 112	BATTLESHIP ROCK,MBR (VALLES RHYOLITE)					NC	D	BPRK 04
NM 112	BATTLESHIP ROCK,WELDED TUFF							BPRK 03
NV 331	BATTLESHIP WASH,FM		LS,SS		23	SE	D	BLPW 01
WY 124	BATTLE SPRING,FM	U	SS,CL		1000	SC	C	BSPG 07
NV 122+	BAUERS,IGNIMBRITE MBR (CONDOR CANYON FM)							BURS 03
UT 122+	BAUERS,IGNIMBRITE MBR (CONDOR CANYON FM)				76	SW	C	BURS 04
NV 123	BAUERS,IGNIMBRITE MBR (CONDOR CANYON FM)							BURS 13
UT 123	BAUERS,IGNIMBRITE MBR (CONDOR CANYON FM)							BURS 10
NV 122+	BAUERS,TUFF (QUICHAPA GP)							BURS 01
UT 122+	BAUERS,TUFF (QUICHAPA GP)							BURS 02
NV 123	BAUERS,TUFF (QUICHAPA GP)							BURS 12
UT 123	BAUERS,TUFF (QUICHAPA GP)							BURS 09
NV 122+	BAUERS,TUFF MBR (CONDOR CANYON FM)	U						BURS 11
UT 122+	BAUERS,TUFF MBR (CONDOR CANYON FM)	U						BURS 05
NV 123	BAUERS,TUFF MBR (CONDOR CANYON FM)	U						BURS 14
UT 123	BAUERS,TUFF MBR (CONDOR CANYON FM)	U						BURS 07
UT 122+	BAUERS,TUFF MBR (QUICHAPA FM)							BURS 06
UT 123	BAUERS,TUFF MBR (QUICHAPA FM)							BURS 08
OR 124	BAUGHMAN,MBR (TYEE FM)		SS		760	SW	E	BGMN 03
OK 218	BAUM,LS MBR (ANTLERS SAND)				22	SC	C	BAUM 02
OK 218	BAUM,LS MBR (PALUXY SAND)	U						BAUM 01
WY 211	BAXTER,SH	U			300	SW	A	BXTR 01
WI 420	BAXTER HOLLOW,GRANITE					SC	C	BXHL 01
KS 331	BAXTER SPRINGS,MBR (BOONE FM)							BXSP 01
OK 331	BAXTER SPRINGS,MBR (BOONE FM)	U	LS,CH		34	NE	E	BXSP 02
MI 361	BAY DE NOC,MBR (STONINGTON FM)		LS		12	C	A	BDNC 03
MI 420	BAYFIELD,GP (KEWEENAWAN SUPERGROUP)	U						BFLD 21
MN 420	BAYFIELD,GP (KEWEENAWAN SUPERGROUP)							BFLD 22
WI 420	BAYFIELD,GP (KEWEENAWAN SUPERGROUP)	U	SS		1300	NW	A	BFLD 15
CO 112	BAYFIELD,GRAVEL	U			60	SW	A	BFLD 02
NM 112	BAYFIELD,GRAVEL	U						BFLD 03

ID	367	BAYHORSE,DOL	U		300	SC	A	BYRS	01
IL	211	BAYLIS,FM		GVL,SD	8	WC	D	BYLS	01
WA	124	BAYNE,FM (PUGET GP)		SH,SS	910	C	A	BYNE	01
AK	351+	BAY OF PILLARS,FM	U	SS,ARG	910	SE	D	BPLR	01
AK	357	BAY OF PILLARS,FM	U					BPLR	02
LA	124	BAYOU CALAMUS,LENTIL (VERDA MBR OF YAZOO CLAY)			10	C	C	BCLM	02
LA	125	BAYOU LENANN,MBR (PENDLETON FM)		SD,ST	27	WC	C	BLNN	01
TX	125	BAYOU LENANN,MBR (PENDLETON FM)						BLNN	02
OK	331	BAYOU MANARD,MBR (MOOREFIELD FM)		LS,SH BK	20	EC	C	BMRD	01
CA	112	BAY POINT,FM	U	SD,ST	3	SE	C	BPNT	01
MI	331	BAYPORT,LS (GRAND RAPIDS GP)	U		15	SE	A	BPRT	01
GA	364	BAYS,FM	U					BAYS	01
VA	364	BAYS,FM	U					BAYS	05
WV	364	BAYS,FM						BAYS	06
TN	364	BAYS,FM (CHICKAMAUGA GP)	U	SS,LS RD	340	NE	A	BAYS	04
FL	121	BAYSHORE,CLAY MBR (TAMIAMI FM)			<1	EC	E	BYSR	01
ME	340	BAYS-OF-MAINE,COMPLEX		GAB,GR		NE	D	BSMN	06
NV	344	BAY STATE,DOL MBR (NEVADA FM)	U		260	C	C	BSST	01
ID	210+	BAYVIEW,GRANODIORITE	U			NE	A	BYVW	01
ID	220	BAYVIEW,GRANODIORITE	U					BYVW	02
WA	112	BEACON,TILL				WC	D	BCON	01
NV	317	BEACON FLAT,FM		LS	850	NE	C	BCFL	01
NJ	122	BEACON HILL,GRAVEL	U		30	EC	A	BCHL	01
NV	347	BEACON PEAK,DOL MBR (NEVADA FM)	U		290	EC	C	BCKP	03
ID	420	BEAD LAKE,FM						BDLK	05
WA	420	BEAD LAKE,FM (NEWPORT GP)		SS	3800	NE	C	BDLK	06
TX	318	BEAD MOUNTAIN,FM (BELLE PLAINS GP)			15	C	A	BDMN	01
TX	318	BEAD MOUNTAIN,LS MBR (BELLE PLAINS FM)	U					BDMN	02
CA	123	BEALVILLE,FANGLOMERATE			2100	SC	C	BLVL	04
CA	301	BEAN CANYON,FM	U	MET	1500	SC	A	BNCN	02
MT	125	BEAR,FM		SS,SH	180	C	C	BEAR	01
NC	121	BEAR BLUFF,FM						BBLF	06
SC	121	BEAR BLUFF,FM		SD,LS	3	EC	E	BBLF	01
TN	347	BEAR BRANCH,LS MBR (OLIVE HILL FM)	U	FE	14	SW	A	BRBC	02
CA	124	BEAR CANYON,SS MBR (KREYENHAGEN FM)			91	C	C	BRCN	02
NY	354	BEAR CREEK,SH (CLINTON GP)			4	C	C	BRCK	70
CT	361+	BEARDSLEY,GNEISS MBR (PROSPECT FM)				SW	E	BRDL	04
NY	361+	BEARDSLEY,GNEISS MBR (PROSPECT FM)						BRDL	05
CT	364	BEARDSLEY,GNEISS MBR (PROSPECT FM)						BRDL	06
NY	364	BEARDSLEY,GNEISS MBR (PROSPECT FM)						BRDL	07

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MT 327	BEAR GULCH,LS LENTIL (TYLER FM)					NC	C	BGLC 03
MT 327	BEAR GULCH,LS MBR (TYLER FM)							BGLC 04
MT 327	BEAR GULCH,TONGUE (CAMERON CREEK MBR OF TYLER FM)							BGLC 05
NM 121	BEARHEAD,RHYOLITE (KERES GP)	U				NC	E	BRHD 01
DC 307	BEAR ISLAND,GRANODIORITE							BILD 04
MD 307	BEAR ISLAND,GRANODIORITE					C	C	BILD 05
AK 122	BEAR LAKE,FM	U	SS,CGL		1500	SC	D	BRLK 01
CA 121	BEAR MOUNTAIN,BASALT					NW	C	BRMN 01
PA 337	BEAR MOUNTAIN,MBR (POCONO FM)		CGL,SS		180	C	D	BRMN 09
WY 211	BEARPAW,SH	U						BRPW 03
MT 211	BEARPAW,SH (MONTANA GP)	U			210	NC	A	BRPW 02
ME 347	BEAR POND,LS MBR (SEBOOMOOK FM)				3	WC	C	BRPD 03
NY 400	BEAR POND,SCHIST				9	NE	A	BRPD 04
CA 122	BEAR RIVER,FM		SS,CGL		230	NW	A	BRRV 01
ID 217	BEAR RIVER,FM	U						BRRV 03
UT 217	BEAR RIVER,FM	U						BRRV 04
WY 217	BEAR RIVER,FM	U	CGL,SS		1500	SC	A	BRRV 05
OH 324	BEAR RUN,MBR (POTTSVILLE FM)		SS,SH		9	SE	A	BRRN 02
TX 344	BEAR SPRINGS,FM	U	LS			C	C	BSPG 33
NM 123	BEAR SPRINGS,BASALT				46	SW	C	BSPG 02
AZ 211	BEARTOOTH,QTZ	U						BRTT 01
NM 211	BEARTOOTH,QTZ	U			38	SW	A	BRTT 02
ID 347	BEARTOOTH BUTTE,FM	U						BRTB 01
MT 347	BEARTOOTH BUTTE,FM	U						BRTB 02
WY 347	BEARTOOTH BUTTE,FM	U	SH,LS		46	NW	A	BRTB 03
UT 123	BEAR VALLEY,FM	U	VOL		300	SW	D	BRVL 02
CA 220	[BEAR WALLOW,COMPLEX]					NW	E	BRWL 02
CA 220	/BEAR WALLOW,DIORITE COMPLEX	U						BRWL 01
NM 122	BEARWALLOW MOUNTAIN,FM		VOL		300	SW	E	BRLM 04
KS 317	BEATTIE,LS (COUNCIL GROVE GP)	U			5	NE	A	BTTI 02
NE 317	BEATTIE,LS (COUNCIL GROVE GP)	U						BTTI 04
ME 360+	BEAUCEVILLE,FM		QTZ,SL	BK		CAN	A	BCVL 04
ME 370	BEAUCEVILLE,FM							BCVL 05
NC 125	BEAUFORT,FM	U	SD		20	EC	C	BFRT 01
LA 112	BEAUMONT,CLAY	U						BMNT 01
TX 112	BEAUMONT,CLAY	U			120	EC	A	BMNT 03
LA 112	BEAUMONT,FM							BMNT 02
TX 112	BEAUMONT,FM (HOUSTON GP)							BMNT 04
IL 344	BEAUVAIS,SS	U						BUVS 01
MO 344	BEAUVAIS,SS	U			15	SE	A	BUVS 02

UT	123	BEAVER,MBR (MOUNT DUTTON FM)			VOL	250	SW	E	BEVR	03	
UT	111+	BEAVER BASIN,FM		U	TL,ALV		SE	C	BVRB	01	
UT	112	BEAVER BASIN,FM		U					BVRB	02	
MN	420	BEAVER BAY,COMPLEX (KEWEENAWAN SUPERGROUP)			DBS	1800	NE	A	BVRB	06	
AK	123+	BEAVER BAY,GP			VSED	7600	SC	D	BVRB	03	
AK	124	BEAVER BAY,GP							BVRB	04	
AK	125	BEAVER BAY,GP							BVRB	05	
IN	332	BEAVER BEND,LS		U		4	SC	C	BVBD	02	
KY	332	BEAVER BEND,LS							BVBD	04	
KY	332	BEAVER BEND,LS (PAINT CREEK GP)							BVBD	08	
IN	332	BEAVER BEND,LS (WEST BADEN GP)							BVBD	03	
KY	332	BEAVER BEND,LS MBR (RENAULT FM)							BVBD	06	
IL	332	BEAVER BEND,LS MBR (RIDENHOWER FM)							BVBD	10	
TX	318	BEAVERBURK,LS (WICHITA GP)				1	NC	A	BVBK	01	
TX	318	BEAVERBURK,MBR (BEAD MOUNTAIN FM)							BVBK	02	
NE	112	BEAVER CREEK,FM				6	SE	D	BVCK	02	
NE	112	BEAVER CREEK,LOESS							BVCK	03	
AZ	112+	BEAVER CREEK,VOLCS				300	C	E	BVCK	01	
AZ	121	BEAVER CREEK,VOLCS							BVCK	05	
AL	304	BEAVERDAM,AMPHIBOLITE						EC	E	BVDM	03
DE	121	BEAVERDAM,FM								BVDM	07
ID	122	BEAVERDAM,FM (IDAVADA VOLCS)			SH	270	SC	D	BVDM	02	
DE	121	BEAVERDAM,SAND		U						BVDM	08
MD	121	BEAVERDAM,SAND		U		22	SE	C	BVDM	01	
VA	400	BEAVERDAM CREEK,AUGEN GNEISS		U			SW	C	BVCK	08	
PA	341	BEAVERDAM RUN,MBR (CATSKILL FM)			SS,STS	270	EC	D	BVMR	01	
PA	341	BEAVERDAM RUN,TONGUE (TRIMMERS ROCK SS)								BVMR	03
WY	123	BEAVER DIVIDE,CGL MBR (CHADRON FM)				21	SW	C	BVDV	02	
WY	123	BEAVER DIVIDE,CGL MBR (WHITE RIVER FM)		U						BVDV	03
ID	124+	BEAVERHEAD,CGL								BVRD	01
MT	124+	BEAVERHEAD,CGL				3000	SW	C	BVRD	05	
ID	125	BEAVERHEAD,CGL								BVRD	09
MT	125	BEAVERHEAD,CGL								BVRD	11
ID	211	BEAVERHEAD,CGL								BVRD	13
MT	211	BEAVERHEAD,CGL								BVRD	15
ID	124+	BEAVERHEAD,FM		U						BVRD	02
MT	124+	BEAVERHEAD,FM		U						BVRD	06
ID	125	BEAVERHEAD,FM		U						BVRD	10
MT	125	BEAVERHEAD,FM		U						BVRD	12
ID	211	BEAVERHEAD,FM		U						BVRD	14

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MT 211	BEAVERHEAD,FM	U						BVRD 16
ID 124	/BEAVERHEAD,GRANITE							BVRD 03
MT 124	/BEAVERHEAD,GRANITE							BVRD 07
ND 341+	BEAVERHILL LAKE,GP		LS		220	SW C	D	BVRL 05
ND 344	BEAVERHILL LAKE,GP							BVRL 06
UT 350+	BEAVER LAKE,DOL				120	SW C		BVLK 02
UT 361	BEAVER LAKE,DOL							BVLK 03
MN 420	BEAVER RIVER,GABBRO (BEAVER BAY COMPLEX)					NE C		BVRV 04
ID 217	BECHLER,CGL (GANNETT GP)	U			540	SE C		BCLR 01
WY 217	BECHLER,CGL (GANNETT GP)							BCLR 05
ID 217	BECHLER,FM (GANNETT GP)	U						BCLR 02
WY 217	BECHLER,FM (GANNETT GP)							BCLR 06
ID 217	BECHLER,RED BEDS (GANNETT GP)	U						BCLR 03
WY 217	BECHLER,RED BEDS (GANNETT GP)	U						BCLR 07
ID 217	BECHLER,SH (GANNETT GP)	U						BCLR 04
WY 217	BECHLER,SH (GANNETT GP)	U						BCLR 08
AZ 344+	BECKERS BUTTE,MBR (MARTIN FM)	U	SS		61	EC D		BCKB 10
AZ 347	BECKERS BUTTE,MBR (MARTIN FM)	U						BCKB 11
MO 364	BECKETT,LS (PLATTIN GP)				36	EC C		BCKT 07
ME 347	BECK POND,LS	U			230	WC C		BCKP 09
UT 341	BECKS,LS					NC C		BCKS 03
CA 420	BECK SPRING,DOL (PAHRUMP GP)	U			300	SE C		BKSP 03
PA 337	BECKVILLE,MBR (POCONO FM)		CGL		170	EC D		BCKV 06
UT 217+	BECKWITH,FM	U						BCKT 01
WY 217+	BECKWITH,FM	U	SH,SS		1700	SW A		BCKT 02
UT 221	BECKWITH,FM	U						BCKT 03
WY 221	BECKWITH,FM	U						BCKT 04
NJ 347	BECRAFT,LS (HELDERBERG GP)							BCRF 09
NY 347	BECRAFT,LS (HELDERBERG GP)	U			14	EC C		BCRF 02
PA 347	BECRAFT,LS (HELDERBERG GP)	U						BCRF 03
VA 347	BECRAFT,LS (HELDERBERG GP)	U						BCRF 04
MD 347	BECRAFT,MBR (HELDERBERG LS)							BCRF 05
VA 347	BECRAFT,MBR (HELDERBERG LS)							BCRF 01
VA 347	BECRAFT,SS (HELDERBERG GP)	U						BCRF 06
OH 324	/BEDFORD,CLAY BED (POTTSVILLE FM)				1	C C		BDFD 03
MI 337+	BEDFORD,FM							BDFD 06
OH 337+	BEDFORD,FM	U			18	NE A		BDFD 08
WV 337+	BEDFORD,FM	U						BDFD 12
MI 341	BEDFORD,FM							BDFD 20
OH 341	BEDFORD,FM	U						BDFD 23

WV	341	BEDFORD,FM	U							BDFD	27
NY	360	BEDFORD,GNEISS						SE	A	BDFD	32
KY	337+	BEDFORD,SH	U							BDFD	05
MI	337+	BEDFORD,SH	U							BDFD	07
OH	337+	BEDFORD,SH	U							BDFD	09
PA	337+	BEDFORD,SH	U							BDFD	11
WV	337+	BEDFORD,SH	U							BDFD	13
KY	341	BEDFORD,SH	U							BDFD	19
MI	341	BEDFORD,SH	U							BDFD	21
OH	341	BEDFORD,SH	U							BDFD	24
PA	341	BEDFORD,SH	U							BDFD	26
WV	341	BEDFORD,SH	U							BDFD	28
CA	224	BEDFORD CANYON,FM	U	MET		6100	SC		C	BDFC	01
TX	124	BEDIAS,MBR (WELLBORN SS)				9	EC		A	BDIS	01
CA	121	BEDROCK SPRING,FM	U	CGL,SS		1500	SE		D	BKSP	01
NY	341	/BEEBE,LS				1	C		A	BEEB	01
NY	377	BEEBE,LS MBR (BULL FM)								BEEB	03
VT	377	BEEBE,LS MBR (WEST CASTLETON FM)	U			6	WC		A	BEEB	02
MI	344	BEEBE SCHOOL,FM (TRAVERSE GP)		LS,SH		21	EC		C	BBSC	01
FL	112	BEE BRANCH,LS MBR (CALOOSAHATCHEE FM)				2	SE		C	BBRC	02
FL	112	BEE BRANCH,LS MBR (CALOOSAHATCHEE MARL)								BBRC	01
TX	218	BEE CAVE,MBR (WALNUT FM)		MRL,CL		3	EC		D	BECV	01
NC	420	BEECH,GRANITE	U					NW	A	BECH	03
TN	420	BEECH,GRANITE	U							BECH	05
NC	420	BEECH,GRANITE GNEISS								BECH	04
TN	420	BEECH,GRANITE GNEISS								BECH	06
NY	364	BEECH,MBR (VALCOUR FM)								BECH	01
VT	364	BEECH,MBR (VALCOUR FM)		LS,DOL		26	WC		C	BECH	02
NM	211	BEECHATUDA,TONGUE (CLIFF HOUSE SS)	U			27	NW		C	BCTD	01
IL	332	BEECH CREEK,FM (OKAW GP)								BCKK	14
IN	332	BEECH CREEK,LS	U			7	SC		A	BCKK	18
KY	332	BEECH CREEK,LS								BCKK	09
IL	332	BEECH CREEK,LS (GOLCONDA GP)								BCKK	15
IL	332	BEECH CREEK,LS (OKAW GP)								BCKK	16
IN	332	BEECH CREEK,LS (STEPHENSPORT GP)								BCKK	06
KY	332	BEECH CREEK,LS MBR (GOLCONDA FM)	U							BCKK	10
WI	440	/BEECHER,GNEISS						NE	E	BCHR	06
UT	350+	BEECHER,MBR (BLUEBELL DOL)				65	C		C	BCHR	01
UT	361	BEECHER,MBR (BLUEBELL DOL)								BCHR	02
IA	364	BEECHER,MBR (DUNLEITH FM)								BCHR	07



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IL 364	BEECHER, MBR (DUNLEITH FM)		DOL		1	NC	C	BCHR 03
MO 364	BEECHER, MBR (DUNLEITH FM)							BCHR 08
CO 211	BEECHER ISLAND, MBR (PIERRE SH)				30	NE	A	BCID 01
KS 211	BEECHER ISLAND, MBR (PIERRE SH)							BCID 02
CA 122	BEECHERS BAY, MBR (MONTEREY FM)		TF			SC	E	BCRB 01
NY 400	BEECH MOUNTAIN, AMPHIBOLITE				46	NE	A	BCMN 02
TN 354	BEECH RIVER, FM (BROWNSPORT GP)				32	WC	A	BCRV 02
TN 354	BEECH RIVER, LS MBR (BROWNSPORT FM)	U						BCRV 03
IN 344	BEECHWOOD, FM							BCHD 01
IN 344	BEECHWOOD, MBR (NORTH VERNON LS)							BCHD 04
IN 344	BEECHWOOD, MBR (SELLERSBURG LS)	U						BCHD 02
KY 344	BEECHWOOD, MBR (SELLERSBURG LS)	U			2	C	A	BCHD 03
AZ 120	BEEHIVE, RHYOLITE					SE	C	BHIV 01
NY 367	BEEKMANTOWN, DOL				560	NE	A	BKMN 04
PA 367	BEEKMANTOWN, DOL	U						BKMN 08
VA 367	BEEKMANTOWN, DOL	U						BKMN 12
WV 367	BEEKMANTOWN, DOL							BKMN 19
VA 367	BEEKMANTOWN, FM							BKMN 17
MD 367	BEEKMANTOWN, GP							BKMN 01
NJ 367	BEEKMANTOWN, GP	U						BKMN 03
NY 367	BEEKMANTOWN, GP							BKMN 05
PA 367	BEEKMANTOWN, GP	U						BKMN 09
TN 367	BEEKMANTOWN, GP	U						BKMN 11
VA 367	BEEKMANTOWN, GP	U						BKMN 13
VT 367	BEEKMANTOWN, GP	U						BKMN 14
WV 367	BEEKMANTOWN, GP	U						BKMN 16
MD 367	BEEKMANTOWN, LS	U						BKMN 02
NY 367	BEEKMANTOWN, LS	U						BKMN 06
PA 367	BEEKMANTOWN, LS	U						BKMN 10
VA 367	BEEKMANTOWN, LS	U						BKMN 18
NY 367	BEEKMANTOWN, SH	U						BKMN 07
NM 321	BEEMAN, FM (MAGDALENA GP)		SH, LS		150	SC	C	BEMN 01
NJ 361	BEEMERVILLE, NEPHELINE SYENITE					NC	E	BMVL 01
TX 123	BEE MOUNTAIN, BASALT MBR (CHISOS FM)				24	SW	D	BMNN 02
KY 327	BEE ROCK, SS MBR (LEE FM)	U						BRCK 53
VA 327	BEE ROCK, SS MBR (LEE FM)	U			210	SW	C	BRCK 56
NY 341	BEERS HILL, MBR (RHINESTREET FM)				91	C	D	BRHL 07
PA 341	BEERS HILL, MBR (RHINESTREET FM)							BRHL 12
NY 341	BEERS HILL, SH (WEST FALLS GP)							BRHL 08
UT 123	BEERS SPRING, FM		VOL		110	SW	E	BSPG 06

KY	327	BEE SPRING,SS MBR (CASEYVILLE FM)			14	SC	A	BSPG	27
OR	231	BEGG,FM						BEGG	01
CO	123	BEIDELL,QUARTZ LATITE	U	SED	4600	EC	C	BDLL	02
MO	322	BEIL,LS MBR (LECOMPTON FM)			400	SC	A	BEIL	03
IA	322	BEIL,MBR (LECOMPTON LS)						BEIL	04
KS	322	BEIL,MBR (LECOMPTON LS)	U					BEIL	01
NE	322	BEIL,MBR (LECOMPTON LS)	U		2	SE	C	BEIL	02
ID	341	BEIRDNEAU,FM	U					BRDN	08
UT	341	BEIRDNEAU,SS	U		280	NC	C	BRDN	09
VA	331	BELCHER,MBR (BLUESTONE FM)						BLCR	05
WV	331	BELCHER,MBR (BLUESTONE FM)		SH,SS	30	SW	C	BLCR	06
CO	430	BELCHER HILL,FM		SCH	3700	NC	E	BLCH	02
CT	344+	BELCHERTOWN,TONALITE						BLCR	01
MA	344+	BELCHERTOWN,TONALITE	U			WC	C	BLCR	02
CT	347	BELCHERTOWN,TONALITE						BLCR	03
MA	347	BELCHERTOWN,TONALITE	U					BLCR	04
CO	324+	BELDEN,FM	U		38	C	C	BLDN	06
CO	327	BELDEN,FM	U					BLDN	13
CA	217	BELDEN,GRANODIORITE				NW	C	BLDN	05
CO	324+	BELDEN,SH	U					BLDN	07
CO	327	BELDEN,SH	U					BLDN	14
VT	367	BELDENS,FM (BEEKMANTOWN GP)	U	DOL,LS	210	WC	C	BLDS	03
VT	367	BELDENS,MBR (CHIPMAN FM)	U					BLDS	04
KY	357	BELFAST,MBR (BRASSFIELD FM)						BLFS	02
OH	357	BELFAST,MBR (BRASSFIELD FM)				2	SW	A	BLFS
IN	357	BELFAST,MBR (BRASSFIELD LS)						BLFS	03
ND	311	BELFIELD,MBR (SPEARFISH FM)						BLFD	03
IL	112	/BELGIUM,MBR (BANNER FM)		STS,SH	62	SW	D	BLGM	01
WI	344	BELGIUM,MBR (LAKE CHURCH FM)		ST	1	EC	E	BLGM	16
OR	111	[BELKNAP,BASALT]		DOL	2	SE	A	BLKP	09
NH	227+	BELKNAP,COMPLEX (WHITE MOUNTAIN GP)				SW	C	BLKP	07
NH	231	BELKNAP,COMPLEX (WHITE MOUNTAIN GP)				EC	C	BLKP	08
OR	111	/BELKNAP,FLOWS						BLKP	01
TX	321	BELKNAP,LS MBR (THRIFTY FM)	U		1	NC	A	BLKP	04
NH	227+	BELKNAP,SYENITE (WHITE MOUNTAIN GP)						BLKP	03
NH	231	BELKNAP,SYENITE (WHITE MOUNTAIN GP)						BLKP	05
OR	111	BELKNAP,TUFF						BLKP	02
AK	104	BELKOFSKI,FM (BEAVER BAY GP)			910	SC	C	BKFK	05
AK	104	BELKOFSKI,TUFF	U					BKFK	01
MI	344	BELL,SH (TRAVERSE GP)	U		25	EC	A	BELL	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OH 321	BELLAIRE,SS MBR (CONEMAUGH FM)				6	EC C		BLLR 01
ME 340+	BELL BROOK,FM	U	CGL,STS		3400	NE D		BLBK 02
ME 350	BELL BROOK,FM	U						BLBK 03
NM 313	BELL CANYON,FM (DELAWARE MOUNTAIN GP)	U						BLCN 01
TX 313	BELL CANYON,FM (DELAWARE MOUNTAIN GP)	U	SS,LS		210	WC C		BLCN 02
MI 440	BELL CREEK,GNEISS				300	NC E		BLCK 37
OK 323	BELLE CITY,LS	U			9	EC A		BLCT 03
OH 112	BELLEFONTAINE,TILL					WC D		BLFN 01
PA 367	BELLEFONTE,DOL (BEEKMANTOWN GP)	U			650	C A		BLFN 05
VA 367	BELLEFONTE,DOL (BEEKMANTOWN GP)	U						BLFN 06
PA 367	BELLEFONTE,FM (BEEKMANTOWN GP)							BLFN 08
VA 367	BELLEFONTE,FM (BEEKMANTOWN GP)							BLFN 07
ND 211	BELLE FOURCHE,FM (COLORADO GP)							BLFC 14
MT 211	BELLE FOURCHE,MBR (CODY SH)	U						BLFC 01
WY 211	BELLE FOURCHE,MBR (CODY SH)	U			170	NE A		BLFC 09
MT 211	BELLE FOURCHE,MBR (COLORADO SH)	U						BLFC 02
WY 211	BELLE FOURCHE,MBR (COLORADO SH)	U						BLFC 10
SD 211	BELLE FOURCHE,MBR (GRANEROS SH)							BLFC 13
MT 211	BELLE FOURCHE,SH	U						BLFC 03
ND 211	BELLE FOURCHE,SH	U						BLFC 05
SD 211	BELLE FOURCHE,SH	U						BLFC 07
WY 211	BELLE FOURCHE,SH	U						BLFC 11
ND 211	BELLE FOURCHE,SH (COLORADO GP)							BLFC 06
SD 211	BELLE FOURCHE,SH (COLORADO GP)							BLFC 08
MT 211	BELLE FOURCHE,SH MBR (FRONTIER FM)							BLFC 04
WY 211	BELLE FOURCHE,SH MBR (FRONTIER FM)							BLFC 12
TX 318	BELLE PLAINS,FM (WICHITA GP)	U	LS,SH		91	C A		BLPL 01
TX 318	BELLE PLAINS,GP							BLPL 02
OH 344	BELLEPOINT,MBR (COLUMBUS LS)				7	C A		BLPN 07
CA 121	BELLEVIEW,MBR (PISMO FM)	U	CLS,SS		200	SC E		BLLV 07
KS 112	BELLEVILLE,FM	U	SD,GVL		60	NC A		BLVL 02
OH 361	BELLEVUE,LS				6	SW A		BLLV 04
OH 361	BELLEVUE,LS MBR (MCMILLAN FM)	U						BLLV 05
KY 361	BELLEVUE,TONGUE (GRANT LAKE LS)	U						BLLV 03
MN 420	[BELL HARBOR,BASALT (NORTH SHORE GP)]				85	EC E		BLHB 02
MN 420	BELL HARBOR,LAVA (NORTH SHORE GP)							BLHB 01
UT 354	BELL HILL,DOL	U			130	WC C		BLHL 09
MA 320	BELLINGHAM,CGL	U				C A		BLGM 06
RI 320	BELLINGHAM,CGL	U						BLGM 07
WA 112	[BELLINGHAM,DRIFT]				21	NW D		BLGM 21

WA	112	/BELLINGHAM, GLACIOMARINE DRIFT								BLGM	02		
MN	430	BELLINGHAM, GRANITE							SW	D	BLGM	17	
AK	122	BELL ISLAND, SS							C	E	BLID	06	
AK	122	BELL ISLAND, SS MBR (TYONEK FM)									BLID	08	
NM	110	/BELLISLE MOUNTAIN, FLOW (CLAYTON BASALT)						6	NE	C	BLLM	01	
NM	110	[BELLISLE MOUNTAIN, MBR (CLAYTON BASALT)]									BLLM	02	
CA	200+	BELL MOUNTAIN, QUARTZ DIORITE							SE	C	BLMN	10	
CA	301	BELL MOUNTAIN, QUARTZ DIORITE									BLMN	12	
NY	344	BELLONA, BED (TULLY LS)							<1	C	E	BLLN	05
NH	304	BELLOWS FALLS, GRANITE									A	BLFL	01
VT	304	BELLOWS FALLS, GRANITE								SC	A	BLFL	02
HI	112	BELLOWS FIELD, FM										BLFD	01
MA	360	BELLOWPIPE, LS						18	NC	E	BLFD	01	
NM	224	BELL RANCH, FM (SAN RAFAEL GP)						210	NW	A	BLPP	01	
TX	212	BELLS, SS MBR (EAGLE FORD FM)						20	NE	C	BLRC	02	
AL	125	BELLS LANDING, MARL MBR (TUSCAHOMA SAND)						14	NE	D	BLLS	01	
CO	231	BELL SPRINGS, MBR (NUGGET SS)						5	SW	A	BLDG	02	
WY	231	BELL SPRINGS, MBR (NUGGET SS)										BSPG	39
NM	123	BELL TOP, FM										BSPG	09
NY	344	BELLVALE, FM (HAMILTON GP)										BLTP	01
NJ	344	BELLVALE, SS						240	SC	C	BLTV	01	
NY	344	BELLVALE, SS						610	SE	A	BLVL	10	
TX	123	BELL VALLEY, ANDESITE (GARREN GP)										BLVL	05
NV	112	BELMONT, FANGLOMERATE										BLVL	07
WI	364	BELOIT, DOL						190	WC	C	BLVL	03	
WI	420	BELONGIA, GRANITE						370	EC	C	BLMN	09	
CA	122	BELRIDGE, DIATOMITE MBR (MONTEREY SH)										BLOT	02
ID	420	BELT, SUPERGROUP										BLNG	02
MT	420	BELT, SUPERGROUP						370	C	C	BLDG	01	
WA	420	BELT, SUPERGROUP										BELT	02
NV	122	BELTED RANGE, TUFF										BELT	03
MO	323	BELTON, SAND [LENS] (CHANUTE SH)										BELT	04
AK	121	BELUGA, FM (KENAI GP)						125	C	D	BDRG	01	
VT	377	BELVIDERE MOUNTAIN, AMPHIBOLITE (CAMELS HUMP GP)						10	WC	C	BLTN	08	
VT	377	BELVIDERE MOUNTAIN, AMPHIBOLITE MBR (HAZENS NOTCH FM)										BLUG	01
VT	377	BELVIDERE MOUNTAIN, FM (CAMELS HUMP GP)										BVDM	05
SD	112	BEMIS, DRIFT						1300	C	E	BLUG	01	
CA	122	BENA, GRAVEL						300	NW	C	BVDM	05	
TN	364	BENBOLT, FM										BVDM	06
VA	364	BENBOLT, FM										BVDM	09
												BMIS	01
								760	SC	C	BENA	01	
												BNBL	01
												BNBL	03
								99	SW	C	BNBL	03	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN 364	BENBOLT,LS							BNBL 02
VA 364	BENBOLT,LS							BNBL 04
SD 430	BENCHMARK,IRON-FORMATION (NEMO GP)	U				WC	E	BCMK 01
TX 324+	BEND,GROUP	U	LS,SH		79	C	A	BEND 01
TX 327	BEND,GROUP	U						BEND 04
TX 107	BEN DAY,PORPHYRY					WC	C	BNDY 01
TX 218	BENEVIDES,FM		SH,LS		46	WC	C	BVDS 01
TN 364	BEN HUR,LS	U						BNHR 01
VA 364	BEN HUR,LS	U			38	SW	C	BNHR 02
TN 364	BEN HUR,LS (CHICKAMAUGA GP)							BNHR 03
CA 211	BENITO,SS (PANOCHÉ GP)			GN	340	C	C	BNT0 01
PA 364	BENNER,FM				58	SC	C	BNNR 04
PA 364	BENNER,LS (BLACK RIVER GP)							BNNR 06
KS 317	BENNETT,SH MBR (RED EAGLE LS)	U						BNNT 02
NE 317	BENNETT,SH MBR (RED EAGLE LS)	U			3	SE	A	BNNT 03
NM 120	BENNETT CREEK,BRECCIA				30	SW	D	BCRK 04
VT 112	/BENNINGTON,DRIFT					SW	E	BNNG 01
OK 218	BENNINGTON,LS	U			5	SE	A	BNNG 03
VT 377	BENNINGTON,QTZ				490	SW	A	BNNG 04
VT 112	/BENNINGTON,TILL							BNNG 02
VA 112	BENNS CHURCH,FM		SD		12	SE	D	BCRC 02
WV 324	BENS CREEK,SS [MBR] (KANAWHA FM)				9	SW	A	BCRC 11
UT 337	BENSON,LS			BL	310	NC	A	BNSN 01
LA 112	BENTLEY,FM	U	CL		18	WC	C	BNTL 01
TX 112	BENTLEY,FM	U						BNTL 02
VA 331	BENT MOUNTAIN,MBR (BLUESTONE FM)							BNMN 01
WV 331	BENT MOUNTAIN,MBR (BLUESTONE FM)		LS,SH		39	SW	C	BNMN 02
CO 211+	BENTON,FM (COLORADO GP)	U						BNTN 02
MT 211+	BENTON,FM (COLORADO GP)	U			240	SE	A	BNTN 09
NM 211	BENTON,FM (COLORADO GP)	U						BNTN 15
SD 211+	BENTON,FM (COLORADO GP)	U						BNTN 17
WY 211+	BENTON,FM (COLORADO GP)	U						BNTN 22
CO 217	BENTON,FM (COLORADO GP)	U						BNTN 25
MT 217	BENTON,FM (COLORADO GP)	U						BNTN 32
SD 217	BENTON,FM (COLORADO GP)	U						BNTN 40
WY 217	BENTON,FM (COLORADO GP)	U						BNTN 45
SD 211+	BENTON,GP							BNTN 18
SD 217	BENTON,GP							BNTN 41
CO 211+	BENTON,SH (COLORADO GP)	U						BNTN 04
MT 211+	BENTON,SH (COLORADO GP)	U						BNTN 11

NE	211+	BENTON,SH (COLORADO GP)	U									BNTN	14	
NM	211	BENTON,SH (COLORADO GP)										BNTN	16	
SD	211+	BENTON,SH (COLORADO GP)	U									BNTN	19	
WY	211+	BENTON,SH (COLORADO GP)	U									BNTN	24	
CO	217	BENTON,SH (COLORADO GP)	U									BNTN	27	
MT	217	BENTON,SH (COLORADO GP)	U									BNTN	34	
NE	217	BENTON,SH (COLORADO GP)	U									BNTN	37	
SD	217	BENTON,SH (COLORADO GP)	U									BNTN	42	
WY	217	BENTON,SH (COLORADO GP)	U									BNTN	47	
ME	354	BENTON FALLS,LS									C	D	BFLS	09
PA	321	BENWOOD,LS (MONONGAHELA GP)						11	SW		A		BNWD	03
PA	321	BENWOOD,LS BED (SEWICKLEY MBR OF PITTSBURGH FM)	U										BNWD	04
WV	321	BENWOOD,LS BED (SEWICKLEY MBR OF PITTSBURGH FM)											BNWD	07
OH	321	BENWOOD,LS MBR (MONONGAHELA FM)	U										BNWD	02
PA	321	BENWOOD,LS MBR (MONONGAHELA FM)	U										BNWD	05
WV	321	BENWOOD,LS MBR (MONONGAHELA FM)	U										BNWD	06
CA	400	BERDOO,GRANITE									SE	C	BRDO	01
MI	337	BEREA,FM	U										BERE	02
WV	337	BEREA,MBR (POCONO SS)											BERE	07
KY	337	BEREA,SS	U										BERE	01
MI	337	BEREA,SS	U										BERE	03
OH	337	BEREA,SS	U					15	NE		A		BERE	04
PA	337	BEREA,SS	U										BERE	05
WV	337	BEREA,SS	U										BERE	06
AK	111	BERG,FM					SD,GVL			130	SE	E	BERG	01
ID	200+	BERG CREEK,AMPHIBOLITE (RIGGINS GP)	U					610	WC		D		BGCK	05
ID	300	BERG CREEK,AMPHIBOLITE (RIGGINS GP)	U										BGCK	08
CO	311	BERGEN,SH MBR (LYKINS FM)								19	C	C	BRGN	01
AR	124	BERGER,FM (WILCOX GP)	U				CL,SD			110	C	C	BRGR	02
TX	212	BERGSTROM,FM					CLS			120	C	D	BRGM	01
NM	324	BERINO,FM (MAGDALENA GP)					LS			-170	SC	C	BRNO	04
TX	324	BERINO,FM (MAGDALENA GP)											BRNO	03
NM	324	BERINO,MBR (MAGDALENA FM)	U										BRNO	01
TX	324	BERINO,MBR (MAGDALENA FM)	U										BRNO	02
OH	364	BERKEY,MBR (SILICA FM)								4	NW	D	BRKY	01
CT	364	BERKSHIRE,SCHIST	U										BRKR	03
MA	364	BERKSHIRE,SCHIST	U							610	WC	A	BRKR	04
NY	364	BERKSHIRE,SCHIST	U										BRKR	05
VT	364	BERKSHIRE,SCHIST	U										BRKR	06
CT	400	[BERKSHIRE HIGHLANDS,COMPLEX]									NW	E	BKHG	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CT 400	/BERKSHIRE HIGHLANDS,GNEISS COMPLEX							BKHG 01
NJ 351	BERKSHIRE VALLEY,FM				38	NC	D	BKVL 15
CT 112	BERLIN,CLAY					C	A	BRLN 01
WI 430	BERLIN,RHYOLITE GNEISS					SC	A	BRLN 02
FL 112	BERMONT,FM . . . . .		MRL		3	EC	E	BRMN 16
MO 322	BERN,FM (WABAUNSEE GP)							BERN 05
KS 322	BERN,LS (WABAUNSEE GP)	U			6	NE	C	BERN 01
NE 322	BERN,LS (WABAUNSEE GP)							BERN 06
IL 326	BERNADOTTE,SS MBR (ABBOTT FM)				1	WC	C	BRND 11
NM 313	BERNAL,FM . . . . .	U	SS,SH	RD	110	NC	C	BRNL 05
NM 313	BERNAL,FM (ARTESIA GP)							BRNL 06
OR 211	BERNARD,FM		SS,CGL		460	C	D	BRRD 05
MA 340+	BERNARDSTON,FM	U	SL,QTZ		500	NW	A	BRRD 06
NH 340+	BERNARDSTON,FM	U						BRRD 07
VT 340+	BERNARDSTON,FM . . . . .	U						BRRD 08
MA 350	BERNARDSTON,FM	U						BRRD 14
NH 350	BERNARDSTON,FM	U						BRRD 15
VT 350	BERNARDSTON,FM	U						BRRD 16
OH 337	BERNE,CGL MBR (CUYAHOGA FM)				6	C	A	BERN 02
OH 337	BERNE,CGL MBR (LOGAN FM) . . . . .							BERN 03
NY 344	BERNE,MBR (MARCELLUS SH)				85	EC	A	BERN 04
IL 112	BERRY,CLAY MBR (GLASFORD FM)				2	C	E	BRRY 01
WI 112	BERRY,CLAY MBR (GLASFORD FM)							BRRY 02
CA 123	BERRY,FM	U	SS		300	WC	C	BRRY 03
CA 210	BERRYESSA,FM . . . . .		SS,STS		300	WC	C	BRRS 01
ME 354	BERRY LEDGE,FM (BUCKFIELD GP)		GRNL		76	SW	D	BLDG 03
PA 341	BERRY RUN,MBR (CATSKILL FM)		SS		300	EC	E	BRRN 07
WI 344	BERTHELET,MBR (MILWAUKEE FM)	U	DOL,LS		6	SE	A	BRTL 06
NY 351	BERTIE,FM (SALINA GP)	U			15	CAN	A	BRTI 01
NY 351	BERTIE,GP . . . . .							BRTI 02
NY 351	BERTIE,LS (SALINA GP)	U						BRTI 03
IA 354	BERTRAM,DOL				15	EC	A	BRRM 01
IA 354	BERTRAM,MBR (WAPSIPINICON LS)							BRRM 02
ME 347+	BERWICK,FM (MERRIMACK GP)	U	GN			SW	A	BRCK 61
NH 347+	BERWICK,FM (MERRIMACK GP) . . . . .	U						BRCK 62
ME 351	BERWICK,FM (MERRIMACK GP)	U						BRCK 58
NH 351	BERWICK,FM (MERRIMACK GP)	U						BRCK 59
NC 304+	BESSEMER,GRANITE	U				C	A	BSMR 01
SC 304+	BESSEMER,GRANITE	U						BSMR 02
NC 360	BESSEMER,GRANITE . . . . .	U						BSMR 04

SC	360	BESSEMER,GRANITE	U						BSMR	05	
MI	420	BESSEMER,QTZ	U		90	NW	C		BSMR	06	
WI	420	BESSEMER,QTZ	U						BSMR	09	
MI	420	BESSEMER,SS							BSMR	07	
WI	420	BESSEMER,SS							BSMR	10	
OK	311	BESSIE,MBR (QUARTERMASTER FM)					WC	A	BSSI	01	
IA	323	BETHANY FALLS,LS (KANSAS CITY GP)							BFLS	01	
KS	323	BETHANY FALLS,LS (KANSAS CITY GP)	U						BFLS	03	
NE	323	BETHANY FALLS,LS (KANSAS CITY GP)							BFLS	07	
IA	323	BETHANY FALLS,MBR (SWOPE LS)	U						BFLS	02	
KS	323	BETHANY FALLS,MBR (SWOPE LS)	U						BFLS	04	
MO	323	BETHANY FALLS,MBR (SWOPE LS)	U			7	NW	A	BFLS	06	
NE	323	BETHANY FALLS,MBR (SWOPE LS)	U						BFLS	08	
MS	125	BETHEDEN,FM		CL,BAUX		8	EC	C	BTDN	04	
IN	332	BETHEL,FM (WEST BADEN GP)							BTHL	01	
VT	340	BETHEL,GRANITE						C	A	BTHL	08
VT	371	BETHEL,SCHIST				1800	SC	A	BTHL	10	
MS	331	BETHEL,SS	U						BTHL	01	
KY	332	BETHEL,SS	U			12	SW	A	BTHL	06	
IL	332	BETHEL,SS (PAINT CREEK GP)	U						BTHL	03	
IL	332	BETHEL,SS (WEST BADEN GP)							BTHL	11	
NH	347	BETHLEHEM,GNEISS (NEW HAMPSHIRE GP)	U					C	A	BTLM	01
VT	347	BETHLEHEM,GNEISS (NEW HAMPSHIRE GP)							BTLM	02	
LA	125	BEULAH CHURCH,SAND LENTIL (SLAUGHTER CRK MBR,PENDLETON FM)				1	WC	C	BLCC	01	
SC	307	BEVERLY,GRANITE GNEISS					NW	D	BVRL	04	
WA	121+	BEVERLY,MBR (ELLENSBURG FM)	U	VSED		91	C	D	BVRL	01	
WA	122	BEVERLY,MBR (ELLENSBURG FM)	U						BVRL	02	
MA	301	BEVERLY,SYENITE	U				NE	A	BVRL	03	
MO	325	BEVIER,FM (CABANISS GP)		SH,COAL		1	NC	C	BVIR	02	
OK	325	BEVIER,FM (CABANISS GP)							BVIR	03	
KS	325	BEVIER,FM (CHEROKEE GP)							BVIR	01	
MO	325	BEVIER,FM (CHEROKEE GP)							BVIR	04	
MO	420	BEVOS,GP		GR			SE	D	BVOS	01	
TX	218	BEXAR,SH MBR (PEARSALL FM)				6	C	C	BEXR	01	
AL	371	BIBB,DOL	U			150	C	A	BIBB	01	
AL	371	BIBB,DOL MBR (CONASAUGA FM)							BIBB	02	
VA	331	BICKETT,SH MBR (BLUEFIELD FM)							BCKT	05	
WV	331	BICKETT,SH MBR (BLUEFIELD FM)							BCKT	05	
NH	341+	BICKFORD,GRANITE (NEW HAMPSHIRE GP)	U				9	SE	A	BCKF	06
NH	344	BICKFORD,GRANITE (NEW HAMPSHIRE GP)	U					C	A	BCKF	06



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 221	BICKNELL,SS	U			150	NC A		BCKL 03
AZ 121+	BIDAHOCHI,FM	U	VSED			NE A		BDHC 01
NM 121+	BIDAHOCHI,FM	U						BDHC 02
AZ 122	BIDAHOCHI,FM	U						BDHC 04
NM 122	BIDAHOCHI,FM	U						BDHC 03
AK 227	BIDARKA,FM		SS,SH		700	SW C		BDRK 01
ME 301	BIDDEFORD,GRANITE	U				SE A		BDFD 02
VT 377	BIDDIE KNOB,FM					WC C		BDKB 02
IL 325	BIDWELL,COAL MBR (SPOON FM)				2	SC C		BDLL 04
CA 112+	BIEBER,FM		GVL,SD		300	NC D		BIBR 01
CA 121	BIEBER,FM							BIBR 02
AK 217	BIEDERMAN,ARGILLITE (KANDIK GP)	U			300	NE E		BDRM 01
NV 124	BIEROTH,ANDESITE				120	NE D		BRTH 01
AZ 317	BIG A BUTTE,MBR (SUPAI FM)		GYP,MS		140	EC D		BGAB 01
CA 210+	BIG BALDY,GRANITE					C C		BGBD 04
CA 220	BIG BALDY,GRANITE							BGBD 05
KS 311	BIG BASIN,FM		SS		4	SW A		BGBS 01
OK 311	BIG BASIN,FM							BGBS 02
OK 311	BIG BASIN,MBR (CLOUD CHIEF FM)							BGBS 04
OR 123	BIG BASIN,MBR (JOHN DAY FM)		CLS	RD	45	C E		BGBS 03
TX 123+	BIG BEND PARK,GP		VSED		1700	SW D		BBPK 01
TX 124	BIG BEND PARK,GP							BBPK 02
CA 122	BIG BLUE,FM	U	SRP		300	C A		BGBL 01
OK 325	BIG BRANCH,FM (DORNICK HILLS GP)		SH		240	SE C		BGBC 01
TX 400	/BIG BRANCH,GNEISS					C C		BGBC 02
AZ 430	BIG BUG,GP	U	VOL		6000	C E		BGBG 01
NC 410	BIG BUTT,QTZ (OCOEE SUPERGROUP)				49	NW C		BGBT 02
TN 410	BIG BUTT,QTZ (OCOEE SUPERGROUP)							BGBT 03
TN 364	BIGBY,LS	U			30	C A		BGBY 02
TN 364	BIGBY,LS (NASHVILLE GP)							BGBY 01
TN 364	/BIGBY-CANNON,FM							BGBC 03
ME 351	BIG CLAW,RED-BED MBR (LOBSTER LAKE FM)	U	QTZ,SS		61	WC D		BGCL 02
KY 332	BIG CLIFTY,FM				40	C A		BGCF 05
IN 332	BIG CLIFTY,FM (STEPHENSPORT GP)							BGCF 03
IL 332	BIG CLIFTY,SS MBR (FRAILEYS SH)							BGCF 07
KY 332	BIG CLIFTY,SS MBR (GOLCONDA FM)	U						BGCF 06
UT 420	BIG COTTONWOOD,FM	U	QTZ,SH		4900	NC C		BGCD 02
ID 420	BIG CREEK,FM (LEMHI GP)	U	QTZ		3100	EC E		BGCK 14
IL 325	BIG CREEK,SH MBR (CARBONDALE FM)				9	C C		BGCK 11
FL 218	[BIG CYPRESS,FM (MARQUESAS SUPERGROUP)]		SED		410	SE E		BGCP 02

FL	218	/BIG CYPRESS,GP (MARQUESAS SUPERGROUP)								BGCP	01
AZ	122	BIG DOME,FM								BGDM	03
MT	217	BIG ELK,SS MBR (COLORADO SH)	U	ALV		120	SE	E		BGEM	01
CT	304+	BIGELOW BROOK,FM (BRIMFIELD GP)	U			61	C	A		BGFK	01
MA	304+	BIGELOW BROOK,FM (BRIMFIELD GP)	U	SCH,GN		5200	NE	E		BGFK	03
CT	307	BIGELOW BROOK,FM (BRIMFIELD GP)	U							BGBK	02
MA	307	BIGELOW BROOK,FM (BRIMFIELD GP)	U							BGBK	04
HI	112	[BIG FALLS,BASALT (HANA GP)]				41	EC	C		BGFL	02
HI	112	/BIG FALLS,PICRITIC BASALT (HANA GP)	U							BGFL	01
TX	124	BIGFORD,FM (CLAIBORNE GP)	U	CL . . . VAR . . .		140	SC	A		BGFD	01
AR	364	BIGFORK,CHERT	U			210	WC	A		BGFK	01
OK	364	BIGFORK,CHERT	U							BGFK	02
TX	364	BIGFORK,CHERT	U							BGFK	03
CA	111	BIG GLASS MOUNTAIN,VOLCS						NC	A	BGGM	01
NM	367	BIG HATCHET,FM (EL PASO GP)		DOL,SH				SW	D	BGHC	01
TX	367	BIG HATCHET,FM (EL PASO GP)								BGHC	02
OK	323	BIGHEART,SS MBR (TALLANT FM)	U			53	NE	A		BGRT	01
NM	110	/BIG HILL,FLOW (CLAYTON BASALT)						NE	C	BGHL	01
MI	361	BIG HILL,FM				8		C	A	BGHL	04
MI	361	BIG HILL,LS								BGHL	03
NM	110	[BIG HILL,MBR (CLAYTON BASALT)]								BGHL	05
ID	112	BIG HOLE,BASALT (SNAKE RIVER GP)	U			46	SE	D		BGHL	02
ID	361	BIGHORN,DOL	U							BGRN	02
MT	361	BIGHORN,DOL	U							BGRN	03
WY	361+	BIGHORN,DOL	U			91	NC	A		BGRN	09
WY	364	BIGHORN,DOL	U							BGRN	18
MT	361	BIGHORN,GP	U							BGRN	04
ND	361	BIGHORN,GP	U							BGRN	06
SD	361	BIGHORN,GP	U							BGRN	07
WY	361+	BIGHORN,GP	U							BGRN	10
WY	364	BIGHORN,GP	U							BGRN	19
MT	361	BIGHORN,LS	U							BGRN	05
SD	361	BIGHORN,LS	U							BGRN	08
TX	212	BIG HOUSE,CHALK MBR (DESSAU FM)						EC	D	BGHS	01
TX	212	BIG HOUSE,FM (AUSTIN GP)								BGHS	02
OR	217	BIG KETTLE,CORDIERITE TRONDHJEMITE						EC	D	BGKL	01
VA	347	BIG MOUNTAIN,SH MBR (KEYSER LS)	U							BGMN	01
WV	347	BIG MOUNTAIN,SH MBR (KEYSER LS)	U			19	EC	A		BGMN	02
KS	111+	BIGNELL,FM (SANBORN GP)								BGNL	01
KS	112	BIGNELL,FM (SANBORN GP)								BGNL	04

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KS	111+	BIGNELL, LOESS	U						BGNL 02
NE	111+	BIGNELL, LOESS	U			3	SW	C	BGNL 03
KS	112	BIGNELL, LOESS	U						BGNL 05
MO	112	BIGNELL, LOESS							BGNL 07
NE	112	BIGNELL, LOESS	U						BGNL 06
CA	211	[BIG OAK FLAT, MBR (PANOCHÉ FM)]				200	C	C	BOKF 02
CA	211	[BIG OAK FLAT, SH AND SS MBR (PANOCHÉ FM)]							BOKF 01
NV	221	BIG POLE, FM (PONY TRAIL GP)	U	VOL		210	NC	D	BGPL 01
NM	400	BIG ROCK, CGL MBR (KIAWA MOUNTAIN FM)				61	NC	C	BGRK 02
OH	321	BIG RUN, SS [BED] (MONONGAHELA FM)					EC	C	BGRN 01
TX	324	BIG SALINE, FM (BEND GP)		SH, SS		15	C	C	BGSL 01
TX	324	BIG SALINE, FM (MARBLE FALLS GP)							BGSL 02
TX	324	BIG SALINE, GP							BGSL 03
TX	324	BIG SALINE, MBR (MARBLE FALLS LS)							BGSL 04
WY	123	BIG SAND DRAW, SS LENTIL (WHITE RIVER FM)	U			24	C	D	BGSD 02
AZ	121	BIG SANDY, FM	U	MS		75	WC	E	BGSD 01
MT	211	BIG SKUNK, FM (MONTANA GP)		VSED		640	WC	D	BSKK 01
ID	331	BIG SNOWY, FM	U						BGSN 01
MT	331	BIG SNOWY, FM	U	SH, LS	VAR	370	C	A	BGSN 02
MT	331	BIG SNOWY, GP	U						BGSN 03
ND	331	BIG SNOWY, GP	U						BGSN 04
ME	347	BIG SPENCER, RHYOLITE				430	NC	E	BGSP 05
MO	322	BIG SPRINGS, LS MBR (LECOMPTON FM)							BGSP 03
IA	322	BIG SPRINGS, MBR (LECOMPTON LS)							BGSP 01
KS	322	BIG SPRINGS, MBR (LECOMPTON LS)	U			1	EC	A	BGSP 02
NE	322	BIG SPRINGS, MBR (LECOMPTON LS)							BGSP 04
MD	371	BIG SPRING STATION, MBR (CONOCOCHÉAGUE LS)		DOL, STS		95	NW	C	BSPS 01
WV	371	BIG SPRING STATION, MBR (CONOCOCHÉAGUE LS)							BSPS 02
TN	337+	BIG STONE GAP, MBR (CHATTANOOGA SH)							BSGP 01
VA	337+	BIG STONE GAP, MBR (CHATTANOOGA SH)	U		BK	29	SW	A	BSGP 02
TN	341	BIG STONE GAP, MBR (CHATTANOOGA SH)							BSGP 05
VA	341	BIG STONE GAP, MBR (CHATTANOOGA SH)	U						BSGP 06
VA	337+	BIG STONE GAP, SH	U						BSGP 03
VA	341	BIG STONE GAP, SH	U						BSGP 07
VA	337+	BIG STONE GAP, STS	U						BSGP 04
VA	341	BIG STONE GAP, STS	U						BSGP 08
TX	110	BIG TANK, GRAVEL				1	WC	D	BGNK 01
VA	364	BIG VALLEY, FM		LS		62	C	D	BGVL 01
CA	121+	[BIG VALLEY MOUNTAINS, VOLCS]				1200	NC	D	BGVM 03
CA	122	[BIG VALLEY MOUNTAINS, VOLCS]							BGVM 04

CA	121+	/BIG VALLEY MOUNTAINS,VOLC SER								BGVM	01
CA	122	/BIG VALLEY MOUNTAINS,VOLC SER								BGVM	02
AZ	101	BIG WASH,ANDESITE						18	NW	C	BGWS 01
TX	124	BIG YELLOW,SS MBR (CANOE FM)				YL		15	SW	D	BGYL 01
MI	430	BIJKI,IRON-FORMATION MBR (MICHIGAMME SLATE)	U					160	NC	A	BIJK 01
CO	224	BILK CREEK,SS MBR (WANAKAH FM)	U					6	SW	C	BKCK 04
ME	347+	BILLINGS HILL,FM (WOODSTOCK GP)			GN			600	WC	D	BLGH 01
ME	351	BILLINGS HILL,FM (WOODSTOCK GP)									BLGH 02
MT	211	BILLMAN CREEK,FM (LIVINGSTON GP)	U		CL,SS			800	SC	D	BMCK 01
MI	361	BILLS CREEK,SH						19	C	C	BLCK 29
AL	112	BILOXI,FM									BLOX 05
LA	112	BILOXI,FM									BLOX 01
MS	112	BILOXI,FM									BLOX 03
IL	333	BILYEU,MBR (BORDEN STS)			SD			30	SE	A	BLYU 01
IL	333	BILYEU,MBR (WARSAW SH)			STS			31	C	E	BLYU 02
PA	341	BIMBER RUN,CGL MBR (VENANGO FM)						30	NW	A	BMRB 01
UT	321	BINGHAM MINE,FM (OQUIRRH GP)			LS,SS			2000	NC	D	BGMM 01
NY	112	BINGHAMTON,DRIFT								C	BNGM 01
PA	112	BINGHAMTON,DRIFT									BNGM 02
NY	351	BINNEWATER,SS							SE	A	BNTR 06
OK	323	BIRCH CREEK,LS MBR (BARNSDALL FM)	U					1	NE	A	BCKK 05
MI	430	/BIRD,IRON-BEARING MBR (HEMLOCK FM)	U		CH,FE			91	NW	C	BIRD 07
MI	430	[BIRD,MBR (HEMLOCK FM)]									BIRD 11
MT	341	BIRDBEAR,FM (JEFFERSON GP)	U								BRDB 02
ND	341	BIRDBEAR,FM (JEFFERSON GP)	U		DOL,LS			27	WC	C	BRDB 05
SD	341	BIRDBEAR,FM (JEFFERSON GP)	U								BRDB 06
MT	341	BIRDBEAR,MBR (JEFFERSON DOL)	U								BRDB 03
ID	341	BIRDBEAR,MBR (JEFFERSON FM)	U								BRDB 01
MT	341	BIRDBEAR,MBR (JEFFERSON FM)	U								BRDB 04
WY	341	BIRDBEAR,MBR (JEFFERSON FM)									BRDB 07
OK	322	BIRD CREEK,LS	U					1	NE	A	BCKK 05
OK	322	BIRD CREEK,LS (ADA GP)									BCKK 23
OK	322	BIRD CREEK,LS MBR (VAMOOSA FM)									BCKK 07
MT	217	BIRDHEAD,SS MBR (CLOVERLY FM)	U					4	C	A	BRDD 01
WY	217	BIRDHEAD,SS MBR (CLOVERLY FM)									BRDD 03
MT	217	BIRDHEAD,SS MBR (THERMOPOLIS SH)	U								BRDD 02
IL	357	BIRDS,MBR (WILHELMI FM)			DOL			6	NE	E	BRDS 08
TN	347	BIRDSONG,SH (LINDEN GP)	U					14	WC	A	BRDG 14
TN	347	BIRDSONG,SH MBR (ROSS FM)									BRDG 15
CA	317+	BIRD SPRING,FM	U								BSPG 10

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV	317+	BIRD SPRING,FM	U	LS,DOL		760	SE	A	BSPG 15
UT	317+	BIRD SPRING,FM	U						BSPG 16
CA	320	BIRD SPRING,FM	U						BSPG 19
NV	320	BIRD SPRING,FM	U						BSPG 20
UT	320	BIRD SPRING,FM	U						BSPG 21
CA	331	BIRD SPRING,FM	U						BSPG 29
NV	331	BIRD SPRING,FM	U						BSPG 31
UT	331	BIRD SPRING,FM	U						BSPG 32
MN	371	BIRKMOSE,MBR (FRANCONIA FM)							BRKM 03
WI	371	BIRKMOSE,MBR (FRANCONIA SS)							BRKM 04
PA	321	/BIRMINGHAM,RED BED (CONEMAUGH FM)		SS,GLC		8	WC	C	BMGM 03
OH	321	BIRMINGHAM,SH MBR (CONEMAUGH FM)	U						BMGM 02
PA	321	BIRMINGHAM,SH MBR (CONEMAUGH FM)	U			15	SW	A	BMGM 05
WV	321	BIRMINGHAM,SH MBR (CONEMAUGH FM)							BMGM 09
AZ	217	BISBEE,FM	U	SS,SH		1400	SE	A	BISB 01
NM	217	BISBEE,FM							BISB 03
AZ	217	BISBEE,GP	U						BISB 02
NM	217	BISBEE,GP							BISB 04
NM	121+	/BISCARA,INTRUSIVE ANDESITE				110	NC	C	BSCR 05
NM	122	/BISCARA,INTRUSIVE ANDESITE							BSCR 06
NM	121+	BISCARA,MBR (LOS PINOS FM)		CGL		210	NC	C	BSCR 02
NM	122	BISCARA,MBR (LOS PINOS FM)							BSCR 04
OH	354	BISHER,FM				14	SW	A	BSHR 03
KY	354	BISHER,LS	U						BSHR 02
OH	354	BISHER,LS	U						BSHR 04
CO	123	BISHOP,CGL	U						BSHP 06
UT	123	BISHOP,CGL	U						BSHP 07
WY	123	BISHOP,CGL	U			91	SW	A	BSHP 08
CA	112	BISHOP,TUFF	U			150	C	C	BSHP 02
NY	347	BISHOP BROOK,LS				2	C	A	BPBK 02
NY	347	BISHOP BROOK,MBR (MANLIUS LS)							BPBK 01
NM	324	BISHOP CAP,FM (MAGDALENA GP)		LS		190	SC	C	BPCP 04
TX	324	BISHOP CAP,FM (MAGDALENA GP)							BPCP 03
NM	324	BISHOP CAP,MBR (MAGDALENA FM)	U						BPCP 01
TX	324	BISHOP CAP,MBR (MAGDALENA FM)	U						BPCP 02
CA	217+	BISHOP CREEK,GRANITE					C	C	BPCK 03
CA	221	BISHOP CREEK,GRANITE							BPCK 04
NM	122	BISHOPS LODGE,MBR (PICURIS TUFF)		SS,ST		160	NC	C	BPLG 02
NM	122	BISHOPS LODGE,MBR (TESUQUE FM)	U						BPLG 01
OK	317	BISON,FM (HENNESSEY GP)	U						BSON 04

OK	317	BISON,MBR (HENNESSEY SH)	U		46	NW	A	BSON	03	
OK	317	BISON,SH (HENNESSEY GP)						BSON	05	
CA	122	BISSELL,FM (TROPICO GP)	U	SS,CGL	260	SC	C	BSSL	01	
TX	230	BISSETT,CGL	U		150	WC	A	BSS1	02	
LA	125	BISTINEAU,MBR (HALL SUMMIT FM)	U	ST,SH	30	NW	C	BSTN	01	
TX	125	BISTINEAU,MBR (HALL SUMMIT FM)						BSTN	03	
AK	220+	BITTER CREEK,FM	U	SS	1200	CAN	A	BRCK	14	
AK	230	BITTER CREEK,FM	U					BRCK	19	
CA	122	BITTERWATER CREEK,SH	U		610	SC	C	BRCK	10	
WY	112+	BIVOUAC,FM	U	CGL	300	NW	C	BVUC	01	
WY	121	BIVOUAC,FM	U					BVUC	02	
MN	430	BIWABIK,IRON-FORMATION (ANIMIKIE GP)	U		300	NC	A	BWBK	02	
TX	321	BLACH RANCH,LS (CISCO GP)			2		C	A	BCRC	05
TX	321	BLACH RANCH,LS (GRAHAM GP)							BCRC	03
TX	321	BLACH RANCH,LS MBR (THRIFTY FM)	U						BCRC	04
MN	420	BLACK BAY,GABBRO (BEAVER BAY COMPLEX)					NE	C	BCKB	14
OR	217	BLACK BEAR,QUARTZ GABBRO					EC	C	BCKB	07
CA	100	BLACK BUTTE,DACITE					NW	C	BCKB	01
MT	124	BLACK BUTTE,GRAVEL					SC	C	BCKB	02
WY	211	/BLACK BUTTE,SH TONGUE (ROCK SPRINGS FM)			260	SW	C	BCKB	06	
MT	124	BLACK BUTTE,TILL							BCKB	03
WY	211	/BLACK BUTTE,TONGUE (MANCOS SH)							BCKB	05
AZ	107+	/BLACK CANYON,LATITE					NW	C	BCKC	01
NV	107+	/BLACK CANYON,LATITE							BCKC	02
AZ	122	/BLACK CANYON,LATITE							BCKC	04
NV	122	/BLACK CANYON,LATITE							BCKC	05
CO	430	BLACK CANYON,SCHIST	U				WC	A	BCKC	11
AK	347+	BLACK CAP,LS	U		1400	EC	D	BKCP	01	
AK	351	BLACK CAP,LS	U						BKCP	02
ME	347	BLACK CAT,MBR (TRAVELER RHYOLITE)			2400	NC	E	BCKC	09	
OR	121	BLACK CRATER,BASALT					WC	A	BCKC	12
OR	121	BLACK CRATER,FM							BCKC	03
NC	211	BLACK CREEK,FM	U						BCKC	01
SC	211	BLACK CREEK,FM	U	SH,CL	120	NE	A	BCKC	15	
NC	211	BLACK CREEK,FM (LUMBEE GP)							BCKC	14
SC	211	BLACK CREEK,FM (LUMBEE GP)							BCKC	02
AZ	317	BLACK CREEK,MBR (DE CHELLE SS)	U				NE	D	BKCK	05
UT	237	BLACK DRAGON,MBR (MOENKOPI FM)		SS,STS	63	SE	E	BKDG	01	
MN	371	BLACK EARTH,MBR (ST. LAWRENCE FM)							BCKE	02
WI	371	BLACK EARTH,MBR (ST. LAWRENCE FM)		DOL	4	SC	A	BCKE	01	

ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MT	420	BLACKFOOT,FM (BELT SUPERGROUP)	U	LS		1500	WC	A	BCKF 14
GA	364	BLACKFORD,FM	U						BCKF 08
TN	364	BLACKFORD,FM	U						BCKF 09
VA	364	BLACKFORD,FM	U	CH		50	SW	C	BCKF 11
TN	364	BLACKFORD,FM (CLIFFIELD GP)							BCKF 16
VA	364	BLACKFORD,FM (CLIFFIELD GP)							BCKF 17
TN	364	BLACKFORD,MBR (CLIFFIELD FM)							BCKF 10
VA	364	BLACKFORD,MBR (CLIFFIELD FM)							BCKF 12
VA	364	BLACKFORD,MBR (LURICH FM)							BCKF 13
OK	357	BLACKGUM,FM		DOL,LS		4	EC	D	BKGM 02
OH	337	BLACK HAND,FM	U			27	C	A	BCKH 08
OH	337	BLACK HAND,SS	U						BCKH 10
OH	337	BLACK HAND,SS MBR (CUYAHOGA FM)							BCKH 09
UT	211	BLACKHAWK,FM (MESAVERT GP)	U	SS,SH		270	EC	A	BCKK 02
CT	364+	BLACK HILL,MBR (QUINEBAUG FM)	U	MSED		760	NE	D	BCKH 13
CT	367	BLACK HILL,MBR (QUINEBAUG FM)	U						BCKH 14
CT	370	BLACK HILL,MBR (QUINEBAUG FM)	U						BCKH 15
ND	364	BLACK ISLAND,FM (WINNIPEG GP)		SS		91	CAN	B	BCKI 03
ND	364	BLACK ISLAND,MBR (WINNIPEG FM)							BCKI 04
OR	122	BLACKJACK,BASALT MBR (DEER BUTTE FM)				140	SE	A	BKJK 02
OR	122	BLACKJACK,BASALT MBR (PAYETTE FM)	U						BKJK 01
MO	325	BLACKJACK CREEK,FM (MARMATON GP)				2	WC	C	BKJC 05
IA	325	BLACKJACK CREEK,MBR (FORT SCOTT LS)							BKJC 01
KS	325	BLACKJACK CREEK,MBR (FORT SCOTT LS)							BKJC 02
MO	325	BLACKJACK CREEK,MBR (FORT SCOTT LS)							BKJC 03
OK	325	BLACKJACK CREEK,MBR (FORT SCOTT LS)							BKJC 04
MO	367	BLACKJACK KNOB,MBR (THEODOSIA FM)		SS,DOL		55	SC	C	BKKB 02
OK	326	BLACKJACK SCHOOL,SS MBR (ATOKA FM)	U			12	EC	A	BKJS 01
AZ	217	/BLACK KNOB,DOL BED (PACHETA MBR OF LOWELL FM)				9	SE	C	BKKB 01
AZ	217	/BLACK KNOB,QTZ BED (PACHETA MBR OF LOWELL FM)							BKKB 02
ID	320+	BLACKLEAD,LS				120	WC	A	BCKD 04
ID	330	BLACKLEAD,LS							BCKD 05
MT	217	BLACKLEAF,FM (COLORADO GP)	U	SH,SS		23	NW	A	BCKM 03
OK	110	BLACK MESA,BASALT				20	NW	A	BCKM 04
ID	112	BLACK MESA,GRAVEL (IDAHO GP)	U			8	SW	D	BCKM 07
NC	124+	BLACK MINGO,FM	U						BKMG 01
SC	124+	BLACK MINGO,FM	U	SH			EC	A	BKMG 02
NC	125	BLACK MINGO,FM	U						BKMG 03
SC	125	BLACK MINGO,FM	U						BKMG 04
AZ	121	/BLACK MOUNTAIN,ANDESITE					SC	C	BCKM 10

CA	112	BLACK MOUNTAIN,BASALT	U		30	SC	A	BCKM	06
WA	317	BLACK MOUNTAIN,FM		LS		NC	D	BCKM	13
VT	340	BLACK MOUNTAIN,GRANITE				SC	A	BCKM	12
WA	210	BLACK PEAK,GRANODIORITE				NC	C	BKPK	02
WA	210	BLACK PEAK,QUARTZ DIORITE						BKPK	03
TX	125	BLACK PEAKS,FM (TORNILLO GP)		CL,SS	260	SW	D	BKPK	01
HI	112	/BLACK POINT,ASH				NC	C	BCKP	17
AK	110	BLACK POINT,BASALT	U			SC	C	BCKP	01
AZ	121	BLACK POINT,BASALT				NC	D	BCKP	04
HI	112	BLACK POINT,BASALT (HONOLULU GP)	U			NC	A	BCKP	02
MT	430	BLACK POINT,DOL MBR (CHERRY CREEK FM)				SW	C	BCKP	14
HI	112	/BLACK POINT,LS			15	NC	C	BCKP	03
AZ	327+	BLACK PRINCE,LS	U		36	SE	C	BCKP	07
NM	327+	BLACK PRINCE,LS						BCKP	20
AZ	331	BLACK PRINCE,LS	U					BCKP	08
NM	331	BLACK PRINCE,LS						BCKP	21
NY	364	BLACK RIVER,GP	U		23	NC	A	BKRV	02
PA	364	BLACK RIVER,GP	U					BKRV	05
VT	364	BLACK RIVER,GP						BKRV	07
IN	364	BLACK RIVER,LS						BKRV	08
MI	364	BLACK RIVER,LS	U					BKRV	01
MA	231	BLACK ROCK,DIABASE BRECCIA [MBR] (GRANBY TUFF)				C	A	BKRV	01
AR	367	BLACK ROCK,LS MBR (SMITHVILLE,FM)	U		61	NE	A	BKRV	02
NV	320+	BLACKROCK,QTZ			300	NE	C	BCKK	03
NV	330	BLACKROCK,QTZ						BCKK	05
ID	410	BLACKROCK CANYON,LS	U		160	SE	E	BKFC	01
NC	304+	BLACKSBURG,SCHIST	U					BKBG	01
SC	304+	BLACKSBURG,SCHIST	U		300	NC	A	BKBG	02
NC	360	BLACKSBURG,SCHIST	U					BKBG	03
SC	360	BLACKSBURG,SCHIST	U					BKBG	04
WY	124	BLACKS FORK,MBR (BRIDGER FM)	U	SS	300	SW	A	BKFK	02
ID	374	BLACKSMITH,DOL						BCKM	14
UT	374	BLACKSMITH,DOL	U		160	NC	A	BCKM	16
ID	374	BLACKSMITH,LS	U					BCKM	15
UT	374	BLACKSMITH,LS	U					BCKM	17
RI	307+	[BLACKSTONE,GP]		QTZ,SCH		NC	A	BLCK	46
RI	410	[BLACKSTONE,GP]						BLCK	47
RI	307+	/BLACKSTONE,SER	U					BLCK	45
RI	410	/BLACKSTONE,SER	U					BLCK	35
CO	124	BLACK SULPHUR,TONGUE (GREEN RIVER FM)	U	MRL	9	NW	E	BKSP	04



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA	317	BLACKSVILLE,LS [BED] (WASHINGTON FM)							BCKV 02
WV	317	BLACKSVILLE,LS [MBR] (WASHINGTON FM)				2	NC	A	BCKV 04
AZ	120	BLACKTAIL,FM		VOL			SE	C	BLCK 01
ID	420	BLACKTAIL,FM (BELT SUPERGROUP)	U	QTZ,ARG PR		2500	NE	A	BLCK 36
MT	122	BLACKTAIL DEER CREEK,FM		CL,ASH		120	SW	A	BKDC 02
WV	324	[BLACKWATER,FM]				5	C	A	BLCK 48
WV	324	/BLACKWATER,SH AND LS							BLCK 20
MO	325	BLACKWATER CREEK,SH [BED] (LITTLE OSAGE MBR OF FORT SCOTT LS)				8	WC	C	BKCK 08
NC	211	BLADEN,MBR (BLACK CREEK FM)		SD,CL		210	SE	A	BLDN 02
SC	211	BLADEN,MBR (BLACK CREEK FM)							BLDN 03
NE	317	BLAINE,FM	U						BLIN 04
OK	317	BLAINE,FM (EL RENO GP)	U		RD	23	NC	A	BLIN 05
KS	317	BLAINE,FM (NIPPEWALLA GP)	U						BLIN 09
TX	318	BLAINE,FM (PEASE RIVER GP)	U						BLIN 08
CO	317	BLAINE,GYPSUM	U						BLIN 01
OK	317	BLAINE,GYPSUM (EL RENO GP)	U						BLIN 07
KS	317	BLAINE,GYPSUM (NIPPEWALLA GP)	U						BLIN 03
CO	317	BLAINE,GYPSUM MBR (LYKINS FM)	U						BLIN 02
UT	211	BLAIR,FM (MESAVERDE GP)	U						BLIR 01
WY	211	BLAIR,FM (MESAVERDE GP)	U	SS,SH		370	SW	A	BLIR 02
WA	122+	BLAKELEY,FM		SH,SS		2400	WC	A	BLKL 01
WA	123	BLAKELEY,FM							BLKL 02
AR	367	BLAKELY,SS	U			150	WC	A	BLKL 04
OK	367	BLAKELY,SS	U						BLKL 05
WA	121+	BLAKELY HARBOR,FM							BKHB 01
WA	122	BLAKELY HARBOR,FM		CGL		1000	WC	E	BKHB 01
CA	122	BLANCA,TUFF					SC	A	BLNC 03
OH	361	BLANCHESTER,MBR (WAYNESVILLE FM)		SED			SW	A	BLCR 10
KS	112	BLANCO,FM	U						BLNC 01
NM	112	BLANCO,FM							BLNC 09
TX	112	BLANCO,FM	U	CL		23	NC	A	BLNC 02
CA	122	BLANCO,SS [MBR] (PUENTE FM)				100	SE	C	BLNC 04
CO	124	BLANCO BASIN,FM	U	SS,CGL		175	SW	A	BLCB 01
IL	357	BLANDING,FM		DOL		16	NW	E	BLDG 05
AR	357	BLAYLOCK,SS	U			460	WC	A	BLCK 27
OK	357	BLAYLOCK,SS	U						BLCK 28
TN	354	BLED SOE,LS				10	NC	A	BLDS 01
WA	210	BLICKENS DERFER,QUARTZ MONZONITE	U			1800	NE	E	BCKF 15
ME	364	BLIND BROOK,FM		SL		2100	NC	E	BDBK 01
WY	211	BLIND BULL,FM	U	SS,STS		1900	SW	E	BLDB 02

UT	112	BLIND LAKE,DRIFT		U			18	SC	C	BDLK	02	
NV	123	BLIND SPRING,FM			IGNM		210	EC	D	BSPG	04	
NM	367+	BLISS,FM		U						BLSS	06	
NM	371	BLISS,FM		U						BLSS	03	
NM	367+	BLISS,SS		U						BLSS	01	
TX	367+	BLISS,SS		U			91	WC	A	BLSS	02	
NM	371	BLISS,SS		U						BLSS	04	
TX	371	BLISS,SS		U						BLSS	05	
MD	341	BLIZZARD,MBR (FOREKNOBS FM)								BLZD	01	
VA	341	BLIZZARD,MBR (FOREKNOBS FM)								BLZD	02	
WV	341	BLIZZARD,MBR (FOREKNOBS FM)			SS,STS		220	EC	E	BLZD	03	
IN	344	BLOCHER,MBR (NEW ALBANY SH)				BK		3	SE	C	BLCR	08
IL	344	BLOCHER,SH									BLCR	11
IA	323	BLOCK,LS MBR (CHERRYVALE FM)		U							BLCK	15
MO	323	BLOCK,LS MBR (CHERRYVALE FM)									BLCK	17
NE	323	BLOCK,LS MBR (CHERRYVALE FM)		U							BLCK	18
KS	323	BLOCK,LS MBR (CHERRYVALE SH)		U				2	EC	A	BLCK	16
NE	323	BLOCK,LS MBR (SARPY FM)									BLCK	19
GA	364	BLOCKHOUSE,SH									BLCK	42
TN	364	BLOCKHOUSE,SH		U			290	EC	C	BLCK	30	
IL	367	BLODGETT,MBR (ONEOTA DOL)					30	NE	D	BLDG	04	
IA	364	BLOMEYER,MBR (MIFFLIN FM)									BLMR	11
IL	364	BLOMEYER,MBR (MIFFLIN FM)									BLMR	03
MO	364	BLOMEYER,MBR (MIFFLIN FM)			LS,DOL		4	SE	D	BLMR	04	
NM	123	BLOODGOOD CANYON,RHYOLITE					610	SW	E	BDGC	01	
CA	310	BLOODY MOUNTAIN,FM		U	HNF		910	C	D	BLDM	12	
ID	374	BLOOMINGTON,FM		U	LS,SH		450	SE	A	BLMG	02	
UT	374	BLOOMINGTON,FM		U						BLMG	03	
MD	351	BLOOMSBURG,FM								BMBG	01	
NY	351	BLOOMSBURG,FM								BMBG	12	
WV	351	BLOOMSBURG,FM								BMBG	15	
NY	351	/BLOOMSBURG,FM (CAYUGA GP)								BMBG	17	
PA	351	/BLOOMSBURG,FM (CAYUGA GP)				RD	130	EC	A	BMBG	03	
VA	351	/BLOOMSBURG,FM (CAYUGA GP)								BMBG	11	
MD	351	BLOOMSBURG,RED BEDS								BMBG	02	
PA	351	BLOOMSBURG,RED BEDS								BMBG	04	
VA	351	BLOOMSBURG,RED BEDS		U						BMBG	14	
WV	351	BLOOMSBURG,RED BEDS		U						BMBG	07	
VA	351	/BLOOMSBURG,RED BEDS (CAYUGA FM)								BMBG	16	
MD	351	/BLOOMSBURG,RED BEDS (CAYUGA GP)		U						BMBG	20	

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA	351	/BLOOMSBURG,RED BEDS (CAYUGA GP)	U						BMBG 09
WV	351	/BLOOMSBURG,RED BEDS (CAYUGA GP)							BMBG 18
PA	351	BLOOMSBURG,SH	U						BMBG 05
VA	351	BLOOMSBURG,SH							BMBG 06
WV	351	BLOOMSBURG,SH							BMBG 19
WV	351	/BLOOMSBURG,SH (CAYUGA GP)							BMBG 13
MO	364	BLOOMSDALE,FM (PLATTIN GP)		DOL,SH		19	EC C		BLMD 04
NY	341	BLOSSBURG,RED BEDS							BLBG 01
PA	341	BLOSSBURG,RED BEDS			RD		NC A		BLBG 02
OK	212	BLOSSOM,SAND							BLSM 01
TX	212	BLOSSOM,SAND (AUSTIN GP)	U			30	NE A		BLSM 04
LA	122	BLOUNTS CREEK,MBR (FLEMING FM)		CL,SD		150	WC C		BLCK 03
NC	420	BLOWING ROCK,GNEISS					NW A		BGRK 01
AR	324+	BLOYD,FM	U		BK	58	NW A		BLYO 05
OK	324+	BLOYD,FM	U						BLYO 07
AR	328	BLOYD,FM	U						BLYO 01
OK	328	BLOYD,FM	U						BLYO 03
AR	324+	BLOYD,SH	U						BLYO 06
OK	324+	BLOYD,SH	U						BLYO 08
AR	328	BLOYD,SH	U						BLYO 02
OK	328	BLOYD,SH	U						BLYO 04
UT	340+	BLUEBELL,DOL	U			340	C A		BLBL 02
UT	350	BLUEBELL,DOL	U						BLBL 03
UT	361	BLUEBELL,DOL	U						BLBL 04
UT	374	BLUEBIRD,DOL	U			61	C A		BLBD 01
TX	212	BLUEBONNET,MBR (LAKE WACO FM)		LS,SH		5	EC C		BLBN 01
UT	211	BLUECASTLE,SS MBR (NESLEN FM)	U			30	EC A		BLCL 01
UT	211	BLUECASTLE,SS MBR (PRICE RIVER FM)	U						BLCL 02
IN	327	BLUE CREEK,COAL MBR (MANSFIELD FM)				1	SC C		BLCK 21
MN	367	BLUE EARTH,BEDS (ONEOTA DOL)				1	SC A		BLER 01
KY	331	BLUEFIELD,FM	U						BLFD 04
VA	331	BLUEFIELD,FM	U						BLFD 05
WV	331	BLUEFIELD,FM	U			350	SW A		BLFO 09
WV	331	BLUEFIELD,FM (MAUCH CHUNK GP)							BLFD 08
VA	331	BLUEFIELD,SH	U						BLFD 07
UT	211	BLUE GATE,MBR (MANCOS SH)	U			300	SC A		BLGT 01
MA	361	BLUE HILL,GRANITE PORPHYRY	U				EC A		BLHL 16
MA	361	BLUE HILL,GRANITE PORPHYRY (BLUE HILLS COMPLEX)							BLHL 20
CO	211	BLUE HILL,MBR (CARLILE SH)	U						BLHL 01
KS	211	BLUE HILL,MBR (CARLILE SH)	U			30	NC A		BLHL 02

NE 211	BLUE HILL, MBR (CARLILE SH)		U									BLHL 03		
NM 211	BLUE HILL, MBR (CARLILE SH)											BLHL 18		
SD 211	BLUE HILL, MBR (CARLILE SH)		U									BLHL 19		
KS 211	BLUE HILL, SH											BLHL 17		
MA 304	BLUE HILLS, APOPHYOLITE (MATTAPAN COMPLEX)									EC	A	BLHL 06		
MA 304	BLUE HILLS, COMPLEX											BLHL 07		
KS 325	BLUEJACKET, FM (CHEROKEE GP)											BJCK 01		
MO 325	BLUEJACKET, FM (CHEROKEE GP)											BJCK 08		
OK 325	BLUEJACKET, FM (KREBS GP)									18	NE	A	BJCK 05	
OK 325	BLUEJACKET, SS MBR (BOGGY FM)		U										BJCK 06	
OK 325	BLUEJACKET, SS MBR (BOGGY SH)		U										BJCK 07	
KS 325	BLUEJACKET, SS MBR (CHEROKEE SH)												BJCK 03	
KS 325	BLUEJACKET, SS MBR (KREBS FM)		U										BJCK 04	
UT 123	BLUE MEADOWS, TUFF MBR (ISOM FM)		U				Rd			8	SW	E	BLMD 02	
CO 123	BLUE MESA, TUFF		U							73	SW	E	BLMS 01	
AZ 122	BLUE MOUNTAIN, BASALT											NW	C	BLMN 03
ND 112	BLUE MOUNTAIN, DRIFT											NW	D	BLMN 05
AZ 122	BLUE MOUNTAIN, VOLCS													BLMN 08
NV 331	BLUEPOINT, LS		U							270	SE	A	BLPN 03	
WY 124	BLUE POINT, MBR (WIGGINS FM)						CGL, CL					NW	D	BLPN 01
KS 317	BLUE RAPIDS, SH (COUNCIL GROVE GP)		U							9	NE	A	BRPD 01	
NE 317	BLUE RAPIDS, SH (COUNCIL GROVE GP)		U											BRPD 02
CA 217	BLUE RIDGE, MBR (CRACK CANYON FM)						SH, SS			12000	NW	C	BRDG 09	
IN 332+	BLUE RIVER, GP						LS			120	SC	C	BLRV 01	
IN 333	BLUE RIVER, GP													BLRV 06
NM 400	BLUE SPRINGS, FM									91	C	C	BSPG 37	
KS 317	BLUE SPRINGS, MBR (MATFIELD SH)		U											BSPG 11
NE 317	BLUE SPRINGS, MBR (MATFIELD SH)		U							9	SE	A	BSPG 13	
NM 400	BLUE SPRINGS, MUSCOVITE SCHIST													BSPG 38
KS 317	BLUE SPRINGS, SH (CHASE GP)													BSPG 12
NE 317	BLUE SPRINGS, SH (CHASE GP)													BSPG 14
KY 327+	BLUESTONE, FM		U											BLSN 02
VA 327+	BLUESTONE, FM		U				SH, LS	Rd		240	SW	A	BLSN 04	
WV 327+	BLUESTONE, FM		U											BLSN 05
KY 331	BLUESTONE, FM		U											BLSN 07
VA 331	BLUESTONE, FM		U											BLSN 09
WV 331	BLUESTONE, FM													BLSN 10
WV 331	BLUESTONE, FM (MAUCH CHUNK GP)													BLSN 11
VA 327+	BLUESTONE, FM (PENNINGTON GP)													BLSN 03
VA 331	BLUESTONE, FM (PENNINGTON GP)													BLSN 08

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 112	BLUE WATER,BASALT	U				WC	A	BLWR 01
AZ 310	/BLUEWATER,FM							BLTR 01
NM 310	/BLUEWATER,FM		SH		300	NW	C	BLTR 02
CO 224	BLUFF,MBR (ENTRADA SS)							BLFF 08
AZ 224	BLUFF,SS (SAN RAFAEL GP)	U						BLFF 04
CO 224	BLUFF,SS (SAN RAFAEL GP)	U						BLFF 07
NM 224	BLUFF,SS (SAN RAFAEL GP)	U						BLFF 10
UT 224	BLUFF,SS (SAN RAFAEL GP)	U			110	SW	A	BLFF 13
AZ 224	BLUFF,SS MBR (ENTRADA SS)							BLFF 05
NM 224	BLUFF,SS MBR (ENTRADA SS)							BLFF 11
UT 224	BLUFF,SS MBR (ENTRADA SS)							BLFF 14
NM 120	/BLUFF CREEK,FM		VSED		300	SW	D	BFCK 01
TX 321	BLUFF CREEK,MBR (HARPERSVILLE FM)				23	C	A	BFCK 04
TX 321	BLUFF CREEK,SH MBR (GRAHAM FM)	U						BFCK 02
TX 218	BLUFF DALE,SAND (TRINITY GP)				12	C	A	BLFD 14
TX 218	BLUFF DALE,SAND MBR (TRAVIS PEAK FM)							BLFD 02
ME 364	BLUFFER POND,FM		VOL		1200	NC	E	BFPD 01
TX 218	BLUFF MESA,FM (TRINITY GP)	U			300	WC	C	BLFM 01
TX 218	BLUFF MESA,LS (TRINITY GP)							BLFM 02
NY 341	BLUFF POINT,STS BED (WEST RIVER MBR OF GENESEE FM)	U			1	WC	C	BLFP 03
AL 212	BLUFFPORT,MARL MBR (DEMOPOLIS CHALK)	U			20	WC	C	BLFP 01
MS 212	BLUFFPORT,MARL MBR (DEMOPOLIS CHALK)	U						BLFP 02
AL 320+	BLUFF SPRINGS,GRANITE	U				EC	A	BSPG 40
AL 330	BLUFF SPRINGS,GRANITE	U						BSPG 41
GA 212	BLUFFTOWN,FM	U	CL,SD		61	WC	A	BLFN 10
AL 212	BLUFFTOWN,FM (SELMA GP)	U						BLFN 02
AZ 430	BOARD CABIN,FM		VSED		61	EC	C	BDCB 01
VT 367	BOARDMAN,FM		MBL,DOL		270	WC	C	BRDM 05
TN 354	BOB,LS (BROWNSPORT GP)				27	WC	A	BOB 03
TN 354	BOB,LS MBR (BROWNSPORT FM)	U						BOB 01
WY 211	BOBCAT,MBR (HAREBELL FM)		CGL		1400	NW	E	BBCT 01
NM 120+	BOBCAT HILL,CGL				350	SW	C	BBCH 01
NM 211	BOBCAT HILL,CGL							BBCH 02
VA 344	BOBS RIDGE,MBR (HUNTERSVILLE CHERT)					SC	C	BBRG 04
WV 344	BOBS RIDGE,SS MBR (HUNTERSVILLE CHERT)					SC	C	BBRG 03
CA 122	BOBTAIL,QUARTZ LATITE MBR (GEM HILL FM)	U				SC	C	BBTL 01
LA 221	BODCAW,TONGUE (TERRYVILLE SS)				5	NW	D	BDCW 02
CA 200	BODEGA,DIORITE				24	WC	A	BODG 01
ID 420	BOEHLS BUTTE,FM (BELT SUPERGROUP)	U	SCH		1100	NW	E	BLSB 01
TX 101+	BOFECILLOS,GP		VOL			SW	D	BFCL 02

TX	123	BOFECILLOS,GP											BFCL	01
OH	324	BOGGS,MBR (POTTSVILLE FM)											BGGS	01
CA	110	[BOGGS MOUNTAIN,ANDESITE (CLEAR LAKE VOLCS)]			LS			1		SE	A		BGSM	03
CA	110	/BOGGS MOUNTAIN,FLOWS (CLEAR LAKE VOLCS)						150		NW	C		BGSM	01
AR	325	BOGGY,FM (KREBS GP)											BGGY	01
OK	325	BOGGY,FM (KREBS GP)			U								BGGY	03
OK	325	BOGGY,SH (KREBS GP)			U			910		SE	A		BGGY	04
IL	322	BOGOTA,LS MBR (MATTOON FM)											BOGT	02
MI	420	BOHEMIA,CGL [BED] (PORTAGE LAKE VOLCS)			U								BOHM	01
KS	337	BOICE,SH											BOIC	01
NE	337	BOICE,SH						9		SE	C		BOIC	02
MI	347	BOIS BLANC,FM			U								BBLC	01
NY	347	BOIS BLANC,FM			U			120		EC	C		BBLC	02
NY	347	BOIS BLANC,LS (TRISTATES GP)											BBLC	03
OK	347	BOIS D'ARC,LS (HUNTON GP)			U								BDAC	01
ID	121	BOISE,SS											BOIS	01
AK	227+	BOKAN MOUNTAIN,GRANITE			U								BKNM	01
AK	231	BOKAN MOUNTAIN,GRANITE			U								BKNM	02
OK	218	BOKCHITO,FM (WASHITA GP)											BKCT	01
CA	124+	BOLADO PARK,FM											BDPK	03
CA	125	BOLADO PARK,FM											BDPK	04
NM	324	BOLANDER,FM											BLDR	02
IL	364	BOLES,MBR (JOACHIM DOL)											BOLS	01
MO	364	BOLES,MBR (JOACHIM DOL)											BOLS	02
OK	322	BOLEY,CGL MBR (VAMOOSA FM)											BOLY	01
PA	324	BOLIVAR,CLAY BED (FREEPORT FM)			U								BLVR	05
OH	324	[BOLIVAR,MBR (ALLEGHENY FM)]											BLVR	10
OH	324	/BOLIVAR,SH AND SS MBR (ALLEGHENY FM)											BLVR	03
CA	310	BOLLIBOKKA,GP											BLBK	01
AZ	374	BOLSA,QTZ			U								BOLS	03
CT	347+	BOLTON,FM											BLTN	01
CT	350	BOLTON,FM											BLTN	09
CT	347+	BOLTON,GP			U								BLTN	02
CT	350	BOLTON,GP			U								BLTN	10
CT	347+	BOLTON,SCHIST											BLTN	03
CT	350	BOLTON,SCHIST											BLTN	11
CA	122	BOMMER,MBR (TOPANGA FM)			U								BMMR	01
NY	377	BOMOSEEN,GRAYWACKE											BMSN	07
VT	377	BOMOSEEN,GRAYWACKE MBR (BULL FM)											BMSN	03
NY	377	BOMOSEEN,GRAYWACKE MBR (NASSAU FM)											BMSN	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VT 377	BOMOSEEN,GRAYWACKE MBR (NASSAU FM)							BMSN 10
VT 377	BOMOSEEN,GRAYWACKE MBR (ST. CATHERINE FM)							BMSN 09
NY 377	BOMOSEEN,GRIT							BMSN 01
VT 377	BOMOSEEN,GRIT							BMSN 04
VT 377	BOMOSEEN,GRIT MBR (BULL FM)							BMSN 05
VT 377	BOMOSEEN,GRIT MBR (SCHODACK FM)							BMSN 06
NY 377	BOMOSEEN,MBR (BULL FM)							BMSN 08
GA 327	BONAIR,SS	U						BONR 01
GA 327	BONAIR,SS (CRAB ORCHARD MOUNTAINS GP)							BONR 03
TN -327	BONAIR,SS (LEE GP)	U			61	C	A	BONR 02
WA 200+	BONANZA,ORTHOGNEISS					NC	D	BNNZ 02
WA 300	BONANZA,ORTHOGNEISS							BNNZ 03
CO 123	BONANZA,TUFF	U			300	SC	A	BNNZ 01
CA 371+	BONANZA KING,DOL	U			610	SE	A	BZKG 01
CA 374	BONANZA KING,DOL	U						BZKG 04
CA 371+	BONANZA KING,FM	U						BZKG 02
NV 371+	BONANZA KING,FM	U						BZKG 03
CA 374	BONANZA KING,FM	U						BZKG 06
NV 374	BONANZA KING,FM	U						BZKG 05
IN 321	BOND,FM (MCLEANSBORO GP)							BOND 02
IL 323	BOND,FM (MCLEANSBORO GP)		LS		91	C	C	BOND 01
MT 123	BONE BASIN,MBR (RENOVA FM)		LS,MS		300	SW	E	BNBS 01
NM 318	BONE SPRING,LS	U						BSPG 17
TX 318	BONE SPRING,LS	U			480	WC	A	BSPG 18
FL 121	BONE VALLEY,FM	U			9	EC	A	BNVL 02
FL 121	BONE VALLEY,GRAVEL	U						BNVL 03
TX 212	BONHAM,CLAY (AUSTIN GP)					NE	A	BNHM 05
TX 212	BONHAM,MARL	U						BNHM 01
SD 112	BON HOMME,GRAVEL			PK	8	SE	E	BNHM 02
AZ 121	BONITA,MBR (GILA CGL)				240	SE	C	BONT 02
NV 123	BONITA CANYON,FM		VOL		490	C	E	BNCN 01
AZ 120	BONITA PARK,FM		VSED	RD	91	SE	C	BPRK 01
AZ 111	BONITO,BASALT					NC	D	BONT 01
MT 420	BONNER,QTZ (MISSOULA GP)	U		PK		WC	C	BNNR 08
IA 323	BONNER SPRINGS,FM (KANSAS CITY GP)	U						BSPG 22
IA 323	BONNER SPRINGS,SH (KANSAS CITY GP)	U						BSPG 23
KS 323	BONNER SPRINGS,SH (KANSAS CITY GP)	U			11	NE	A	BSPG 24
MO 323	BONNER SPRINGS,SH (KANSAS CITY GP)	U						BSPG 25
NE 323	BONNER SPRINGS,SH (KANSAS CITY GP)	U						BSPG 26
AR 371	BONNETERRE,DOL	U						BNTR 01





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WA 121	BORING,LAVA	U						BRNG 09
CA 112+	BORREGO,FM		MS,STS		1800	SE C		BRRG 01
CA 121	BORREGO,FM							BRRG 02
NM 211	BORREGO PASS,LENTIL (CREVASSE CANYON FM)		SS		20	NW E		BRRG 01
NJ 351	BOSSARDVILLE,LS	U						BDVL 01
NY 351	BOSSARDVILLE,LS							BDVL 02
PA 351	BOSSARDVILLE,LS	U			30	EC A		BDVL 03
AL 221	BOSSIER,FM (COTTON VALLEY GP)	U						BSSR 07
AR 221	BOSSIER,FM (COTTON VALLEY GP)	U						BSSR 01
LA 221	BOSSIER,FM (COTTON VALLEY GP)	U			500	NW C		BSSR 03
MS 221	BOSSIER,FM (COTTON VALLEY GP)							BSSR 08
TX 221	BOSSIER,FM (COTTON VALLEY GP)	U						BSSR 05
LA 221	BOSSIER,SH							BSSR 04
OH 112	BOSTON,DRIFT				3	SW E		BSTN 04
OH 112	BOSTON,TILL							BSTN 05
MA 301+	BOSTON BAY,GP	U	CGL,SL			EC A		BSNB 02
MA 304	BOSTON BAY,GP	U						BSNB 03
MD 122	BOSTON CLIFFS,MBR (CHOPTANK FM)		SD		5	EC E		BCLF 01
VA 122	BOSTON CLIFFS,MBR (CHOPTANK FM)							BCLF 02
ID 121+	BOSTON RANCH,FM (REYNOLDS BASIN GP)		VOL		63	SW E		BSRC 01
ID 122	BOSTON RANCH,FM (REYNOLDS BASIN GP)							BSRC 02
OK 326	BOSTWICK,CGL MBR (LAKE MURRAY FM)				91	SE A		BSCK 02
OK 326	BOSTWICK,LS (DORNICK HILLS GP)							BSCK 03
OK 326	BOSTWICK,MBR (DORNICK HILLS FM)							BSCK 04
TN 364	BOTETOURT,FM							BTTR 02
VA 364	BOTETOURT,LS				23	C C		BTTR 03
VA 364	BOTETOURT,LS MBR (EDINBURG FM)							BTTR 04
ME 340	BOTTLE LAKE,QUARTZ MONZONITE	U				EC D		BLLK 07
AZ 374	BOUCHER,TONGUE (MUAV FM)		DOL			NC C		BCHR 04
CO 430	BOULDER CREEK,COMPLEX					NC A		BDCK 15
CO 430	BOULDER CREEK,GRANITE	U						BDCK 17
CO 430	BOULDER CREEK,GRANITE GNEISS							BDCK 19
AK 200	BOULDER CREEK,GRANODIORITE					C D		BDCK 01
CO 430	BOULDER CREEK,GRANODIORITE	U						BDCK 20
AK 200	BOULDER CREEK,QUARTZ MONZONITE							BDCK 02
MT 211	BOULDER RIVER,SS MBR (FRONTIER FM)	U			30	SC C		BDRV 01
NV 400	[BOULDER WASH,FM]		BRC		600	SE C		BLDW 02
NV 400	/BOULDER WASH,GP							BLDW 02
TX 212	BOULDIN,MBR (LAKE WACO FM)		LS,SH		3	EC C		BLDN 04
AK 210+	BOUNDARY,GRANODIORITE	U				SE A		BNDR 04

AK	220	BOUNDARY,GRANODIORITE	U																		BNDR	05								
CA	211	BOUNDARY PEAK,GRANITE																				BDPK	05							
ID	224	BOUNDARY RIDGE,MBR (TWIN CREEK LS)	U	STS,LS	RD,GN	87		SE		D												BDRG	02							
UT	224	BOUNDARY RIDGE,MBR (TWIN CREEK LS)	U																				BDRG	03						
WY	224	BOUNDARY RIDGE,MBR (TWIN CREEK LS)	U																				BDRG	04						
AZ	121	BOUSE,FM	U	CL		230		SW		E													BOUS	01						
CA	121	BOUSE,FM																						BOUS	02					
NV	121	BOUSE,FM	U																					BOUS	03					
TN	364	BOWEN,FM	U																					BOWN	01					
VA	364	BOWEN,FM	U	SS,MS		23		SW		C														BOWN	02					
VA	364	BOWEN,LS																							BOWN	04				
WA	217	BOWERS,QUARTZ DIORITE (HORSESHOE BASIN GP)								NC		E												BWRS	01					
MT	224	BOWES,MBR (PIPER FM)		LS,SS		17				NC		C													BOWS	01				
ND	224	BOWES,SH MBR (PIPER FM)																							BOWS	02				
OK	322	BOWHAN,SS MBR (VAMOOSA FM)	U			1				NE		A													BWHN	01				
CO	211	BOWIE,SH MBR (MESAVERTDE FM)	U			130				WC		A													BOWI	01				
UT	231	BOWKNOT,BED (CHURCH ROCK MBR OF CHINLE FM)		SS		15				SE		C														BKNT	01			
WI	400	BOWLER,GRANITE										C														BWLR	03			
IL	357	BOWLING GREEN,DOL (EDGEWOOD GP)																									BLGG	04		
MO	357	BOWLING GREEN,DOL (EDGEWOOD GP)																									BLGG	03		
IL	357	BOWLING GREEN,MBR (EDGEWOOD LS)	U																								BLGG	01		
MO	357	BOWLING GREEN,MBR (EDGEWOOD LS)	U																								BLGG	02		
UT	374	BOWMAN,LS	U			85				NC		A															BWMN	01		
OK	322	BOWRING,LS MBR (VAMOOSA FM)				1				NE		C															BRNG	12		
AK	224	BOWSER,FM (TUXEDNI GP)	U	SS,CGL		790				SC		C															BWSR	01		
NM	341	BOX,MBR (PERCHA SH)	U			14				SW		C																BOX	01	
NE	122	BOX BUTTE,FM (HEMINGFORD GP)		CL,SS		32				NW		C																BOXBT	02	
NE	122	BOX BUTTE,MBR (SHEEP CREEK FM)	U																									BOXBT	01	
NV	123	/BOX CANYON,FM		TF		110				C		E																BXCN	02	
UT	410	BOX CANYON,MBR (MUTUAL QTZ)				250				NE		C																BXCN	03	
NM	123	/BOX CANYON,RHYOLITE TUFF				23				SW		C																BXCN	01	
SD	430	BOXELDER CREEK,QTZ (NEMO GP)	U							WC		E																BXCK	01	
MA	307	BOXFORD,FM	U	SCH		1500				NE		D																BXFD	01	
CA	400	BOX SPRINGS,GRANODIORITE				460				SE		C																BXSP	03	
AL	307	[BOYDS CREEK,AMPHIBOLITE (DADEVILLE COMPLEX)]								EC		E																BDCK	25	
AL	307	/BOYDS CREEK,MAFIC COMPLEX (DADEVILLE COMPLEX)																										BDCK	08	
NV	224+	BOYER RANCH,FM		SS		110				NC		E																BRRC	03	
NV	227	BOYER RANCH,FM																											BRRC	04
KY	344	BOYLE,DOL	U			14				C		A																BOYL	01	
KY	344	BOYLE,FM	U																										BOYL	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KY 344	BOYLE,LS	U						BOYL 03
AL 327	BOYLES,SS MBR (POTTSVILLE FM)	U			180	NC	A	BYLS 02
MA 320+	BOYLSTON,SCHIST	U				C	A	BLSN 01
MA 330	BOYLSTON,SCHIST	U						BLSN 06
WY 371	BOYSEN,FM		LS,CGL		160	WC	C	BYSN 01
MT 121+	BOZEMAN,GP	U	CGL,SS		370	SC	C	BZMN 02
MT 122	BOZEMAN,GP	U						BZMN 03
MT 123	BOZEMAN,GP	U						BZMN 04
MT 124	BOZEMAN,GP	U						BZMN 01
VT 367	BRACKETT,MBR (STOWE FM)		SCH	GN		WC	C	BRCK 65
TX 123	BRACKS,RHYOLITE (VIEJA GP)				91	WC	C	BRCK 02
TX 321	BRAD,FM (CANYON GP)	U	LS,SH		69	C	A	BRAD 01
TX 321	BRAD,GP							BRAD 02
CA 221	BRADLEY,GRANODIORITE						SE	C BRDL 02
AZ 430	BRADY BUTTE,GRANODIORITE	U					C	D BRDB 08
AZ 317	BRADY CANYON,MBR (TOROWEAP FM)		LS				NW	D BRDC 01
CA 330	BRAGDON,FM	U	SL,QTZ		610	NW	A	BRGD 04
AZ 430	BRAHMA,SCHIST				4600	NC	D	BRHM 01
IA 361	BRAINARD,MBR (MAQUOKETA SH)	U			37	NE	A	BRRD 18
IL 361	BRAINARD,MBR (MAQUOKETA SH)							BRRD 24
WI 361	BRAINARD,MBR (MAQUOKETA SH)	U						BRRD 20
IL 361	BRAINARD,SH (MAQUOKETA GP)							BRRD 19
IN 361	BRAINARD,SH (MAQUOKETA GP)							BRRD 23
MN 112	BRAINERD,DRIFT						C	D BRRD 01
MN 112	BRAINERD,TILL							BRRD 03
MA 374	BRAINTREE,ARGILLITE	U			300	EC	A	BRNR 02
WV 341	BRALLIER,FM							BRLR 04
PA 341	BRALLIER,FM (SUSQUEHANNA GP)	U			550	SC	A	BRLR 01
PA 341	BRALLIER,MBR (FORT LITTLETON FM)							BRLR 02
MD 341	BRALLIER,SH	U						BRLR 06
VA 341	BRALLIER,SH	U						BRLR 05
WV 341	BRALLIER,SH	U						BRLR 07
PA 341	BRALLIER,SH (SUSQUEHANNA GP)	U						BRLR 03
VA 331	BRAMWELL,MBR (BLUESTONE FM)	U						BRML 02
WV 331	BRAMWELL,MBR (BLUESTONE FM)		SH,STS		31	SW	E	BRML 03
CA 122	BRANCH CANYON,SS	U			910	SE	C	BRCC 01
ME 370	BRANCH POND,FM					SC	A	BCPD 01
ME 370	BRANCH POND,GNEISS							BCPD 02
VT 123	BRANDON,LIGNITE					WC	A	BRND 02
IL 354	BRANDON BRIDGE,MBR (JOLIET DOL)					NE	D	BBBG 01

ME	341	BRANDY COVE, MBR (PERRY FM)		CGL	RD	85	CAN	E	BDCV	01
MD	121	BRANDYWINE, FM	U			20	C	A	BRND	04
NC	121	BRANDYWINE, FM	U						BRND	06
SC	121	BRANDYWINE, FM							BRND	07
VA	121	BRANDYWINE, FM	U						BRND	08
DC	121	BRANDYWINE, GRAVEL	U						BRND	17
MD	121	BRANDYWINE, GRAVEL	U						BRND	05
CT	400	BRANFORD, GRANITE GNEISS	U					SC	A	BRFD
CT	400	BRANFORD, QUARTZ MONZONITE								BRFD
TX	324	BRANNON, LS MBR (MILLSAP LAKE FM)						C	A	BRNN
KY	364	BRANNON, MBR (LEXINGTON LS)	U			5		C	A	BRNN
TX	324	BRANNON BRIDGE, LS (STRAWN GP)				18		C	C	BBDG
TX	324	BRANNON BRIDGE, LS MBR (GRINDSTONE CREEK FM)								BBDG
TX	324	BRANNON BRIDGE, LS MBR (LAZY BEND FM)								BBDG
TX	324	BRANNON BRIDGE, LS MBR (MILLSAP LAKE FM)								BBDG
TN	341	BRANFORD, SS BED (GASSAWAY MBR OF CHATTANOOGA SH)	U			<1		NC	C	BRFD
NY	420	BRANT LAKE, GNEISS						NE	E	BRLK
KY	357	BRASSFIELD, DOL	U			6		EC	A	BFLD
TN	357	BRASSFIELD, DOL	U							BFLD
KY	357	BRASSFIELD, FM	U							BFLD
OH	357	BRASSFIELD, FM								BFLD
AL	357	BRASSFIELD, LS								BFLD
AR	357	BRASSFIELD, LS	U							BFLD
IN	357	BRASSFIELD, LS	U							BFLD
KY	357	BRASSFIELD, LS	U							BFLD
MS	357	BRASSFIELD, LS	U							BFLD
OH	357	BRASSFIELD, LS	U							BFLD
TN	357	BRASSFIELD, LS	U							BFLD
OH	357	BRASSFIELD, LS MBR (MANITOULIN DOL)								BFLD
GA	377	BRASSTOWN, SCHIST	U							BRSN
NC	377	BRASSTOWN, SCHIST	U			460		WC	A	BRSN
TN	377	BRASSTOWN, SCHIST	U							BRSN
VT	347+	BRATTLEBORO, PHYLLITE						SC	A	BRLB
VT	351	BRATTLEBORO, PHYLLITE								BRLB
WV	331	BRATTON, MBR (BLUESTONE FM)			SH	17		SC	A	BRTN
VA	331	BRATTON, SS MBR (BLUESTONE FM)								BRTN
CA	112	BRAWLEY, FM			CL, SS	610		SE	C	BRLY
NY	351	BRAYMAN, SH	U			6		EC	A	BRMN
ID	331+	BRAZER, DOL	U							BRZR
UT	331+	BRAZER, DOL	U			260		NC	C	BRZR

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY 331+	BRAZER,DOL	U						BRZR 03
ID 337	BRAZER,DOL	U						BRZR 04
UT 337	BRAZER,DOL	U						BRZR 05
WY 337	BRAZER,DOL	U						BRZR 06
IN 324	BRAZIL,FM	U	SH,SS		91	WC	A	BRZL 04
IN 324	BRAZIL,FM (RACCOON CREEK GP)							BRZL 01
AR 212	BRAZIL BRANCH,BRECCIA						C	A BZBC 02
NM 111	BRAZOS,BASALT						NC	E BRZS 01
TX 324	BRAZOS RIVER,CGL MBR (GARNER FM)	U			15	C	A	BZRV 02
TX 324	BRAZOS RIVER,FM (STRAWN GP)							BZRV 03
TX 324	BRAZOS RIVER,SS MBR (GARNER FM)							BZRV 04
MO 420	BREADTRAY,GRANITE (BEVOS GP)						SE	D BRDR 07
WI 430	BREAKWATER,QTZ	U					NE	A BRKR 09
MN 420	BREAKWATER,TRACHYBASALT (NORTH SHORE GP)				110	NE	E	BRKR 08
KY 324+	BREATHITT,FM	U	SH,SS		170	EC	A	BRTT 03
TN 324+	BREATHITT,FM	U						BRTT 05
KY 327	BREATHITT,FM	U						BRTT 07
TN 327	BREATHITT,FM	U						BRTT 09
KY 324+	BREATHITT,GP	U						BRTT 04
TN 324+	BREATHITT,GP	U						BRTT 11
VA 324+	BREATHITT,GP	U						BRTT 06
KY 327	BREATHITT,GP	U						BRTT 08
TN 327	BREATHITT,GP	U						BRTT 12
VA 327	BREATHITT,GP	U						BRTT 10
TX 321	BRECKENRIDGE,FM (THRIFTY GP)				2	C	A	BCKG 02
TX 321	BRECKENRIDGE,LS MBR (HARPERSVILLE FM)							BCKG 05
TX 321	BRECKENRIDGE,LS MBR (THRIFTY FM)	U						BCKG 03
OH 337	BRECKSVILLE,SH [BED] (ORANGEVILLE MBR OF CUYAHOGA FM)				32	NE	A	BCKV 05
KS 325	BREEZY HILL,LS MBR (CABANISS FM)	U			1	SE	C	BZHL 02
IL 325	BREEZY HILL,LS MBR (CARBONDALE FM)							BZHL 07
MO 325	BREEZY HILL,LS MBR (CHEROKEE SH)							BZHL 04
KS 325	BREEZY HILL,LS MBR (MULKY FM)							BZHL 03
MO 325	BREEZY HILL,LS MBR (MULKY FM)							BZHL 08
OK 325	BREEZY HILL,LS MBR (MULKY FM)							BZHL 05
KS 325	BREEZY HILL,LS MBR (SENORA FM)							BZHL 09
OK 325	BREEZY HILL,LS MBR (SENORA FM)	U						BZHL 06
CT 361+	BREEZY HILL,MBR (SATANS KINGDOM FM)		SCH			NW	D	BZHL 01
CT 364	BREEZY HILL,MBR (SATANS KINGDOM FM)							BZHL 10
ND 211	BREIEN,MBR (HELL CREEK FM)		SD,BNT		9	SC	C	BRIN 01
OR 122+	BREITENBUSH,TUFF				2300	WC	C	BRBS 02

OR	123	BREITENBUSH,TUFF										BRBS	04
AL	327	BREMEN,SS MBR (POTTSVILLE FM)	U			24	NC	A				BRMN	08
VA	361	BREMO,QTZ MBR (ARVONIA FM)				120	C	C				BRMO	01
MN	112	BRENNA,FM										BRNN	06
ND	112	BRENNA,FM										BRNN	04
MN	112	BRENNA,MBR (COLEHARBOR FM)										BRNN	05
UT	123+	BRENNAN BASIN,MBR (DUCHESNE RIVER FM)		SS		540	NE	E				BRBS	05
UT	124	BRENNAN BASIN,MBR (DUCHESNE RIVER FM)										BRBS	06
AR	328	BRENTWOOD,LS MBR (BLOYD FM)	U			24	NW	A				BRND	15
OK	328	BRENTWOOD,LS MBR (BLOYD FM)	U									BRND	16
AR	328	BRENTWOOD,LS MBR (BLOYD SH)	U									BRND	12
OK	328	BRENTWOOD,LS MBR (BLOYD SH)	U									BRND	13
IL	325	BRERETON,LS MBR (CARBONDALE FM)				1	WC	C				BRRN	04
IN	324	BRERETON,LS [MBR] (PETERSBURG FM)										BRRN	05
SC	377	BREVARD,PHYLLITE										BRVD	07
GA	377	BREVARD,SCHIST	U									BRVD	01
NC	377	BREVARD,SCHIST	U			300	WC	A				BRVD	03
SC	377	BREVARD,SCHIST	U									BRVD	05
AL	301	BREWER,PHYLLITE				300	C	A				BRWR	01
AL	301	BREWER,PHYLLITE (TALLADEGA GP)	U									BRWR	03
CO	120	BREWER CREEK,LATITE	U			150	SC	A				BRCK	01
NY	354	BREWER DOCK,LS (CLINTON GP)				1	WC	A				BDCCK	11
NY	354	BREWER DOCK,MBR (REYNALES LS)										BDCCK	12
VT	377	BREZEE,FM	U	PHL		150	WC	A				BRZ	01
NY	371	BRIARCLIFF,DOL (WAPPINGER GP)				300	SE	C				BCLF	03
IL	325	BRIAR HILL,COAL MBR (CARBONDALE FM)				>1	WC	C				BRHL	03
CA	221	BRICEBURG,FM (MARIPOSA GP)		SL	BK			C	D			BCBG	01
TN	324+	BRICEVILLE,FM				91	NE	A				BCVL	02
TN	327	BRICEVILLE,FM										BCVL	06
TN	324+	BRICEVILLE,SH	U									BCVL	03
TN	327	BRICEVILLE,SH	U									BCVL	07
IA	364	BRICKEYS,MBR (MIFFLIN FM)										BRCK	76
IL	364	BRICKEYS,MBR (MIFFLIN FM)		LS,DOL		1	NC	C				BRCK	64
MO	364	BRICKEYS,MBR (MIFFLIN FM)										BRCK	77
CA	210	BRIDALVEIL,GRANITE	U					C	A			BDLV	01
UT	324+	BRIDAL VEIL,LS MBR (OQUIRRH FM)	U			370	NC	D				BDLV	02
UT	327	BRIDAL VEIL,LS MBR (OQUIRRH FM)	U									BDLV	03
NM	211	BRIDGE CREEK,LS MBR (GREENHORN FM)										BGCK	13
CO	211	BRIDGE CREEK,MBR (GREENHORN LS)	U									BGCK	06
KS	211	BRIDGE CREEK,MBR (GREENHORN LS)	U			23	WC	A				BGCK	07

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VT	377	BRIDGEMAN HILL,FM		DOL,SL			NW	D	BGMH 01
PA	351	BRIDGEPORT,SS MBR (BLOOMSBURG FM)				1	SC	A	BDGP 02
CO	124	BRIDGER,FM	U						BRDG 06
UT	124	BRIDGER,FM	U						BRDG 07
WY	124	BRIDGER,FM	U	SD		760	SW	A	BRDG 08
CO	112	BRIDGETIMBER,GRAVEL	U			6	SW	A	BGMB 01
NJ	122	BRIDGETON,FM	U	GVL,SD		18	SW	A	BRDG 01
NY	344	BRIDGEWATER,MBR (MARCELLUS SH)				110	EC	A	BRDG 13
NY	344	BRIDGEWATER,SH (HAMILTON GP)							BRDG 23
AZ	430	BRIDLE,FM	U	MVOL		910	WC	C	BRDL 08
NY	367	BRIDPORT,DOL (BEEKMANTOWN GP)							BRDP 01
VT	367	BRIDPORT,DOL (BEEKMANTOWN GP)				150	WC	C	BRDP 02
VT	367	BRIDPORT,DOL MBR (CHIPMAN FM)	U						BRDP 03
TX	121	BRIDWELL,FM (OGALLALA GP)		SD,CL		47	NC	C	BRDL 01
MI	430	BRIER,SLATE MBR (VULCAN IRON-FORMATION)	U		BK	170	C	A	BRIR 01
AL	374	BRIERFIELD,DOL	U			380	C	A	BFLD 14
AL	374	BRIERFIELD,DOL MBR (CONASAUGA FM)							BFLD 20
PA	317	BRIER HILL,SS [MBR] (WASHINGTON FM)				9	SW	C	BRHL 02
MD	341	BRIERY GAP,SS MBR (FOREKNOBS FM)							BRGP 02
VA	341	BRIERY GAP,SS MBR (FOREKNOBS FM)							BRGP 03
WV	341	BRIERY GAP,SS MBR (FOREKNOBS FM)				36	EC	E	BRGP 04
TX	318	BRIGGS,FM	U	GYP,LS		91	WC	C	BRGS 02
UT	377+	BRIGHAM,GP	U			610	NC	A	BRGM 08
UT	410	BRIGHAM,GP	U						BRGM 12
ID	374+	BRIGHAM,QTZ	U						BRGM 03
UT	374+	BRIGHAM,QTZ	U						BRGM 05
ID	377	BRIGHAM,QTZ	U						BRGM 07
UT	377	BRIGHAM,QTZ	U						BRGM 09
ID	410	BRIGHAM,QTZ	U						BRGM 11
UT	410	BRIGHAM,QTZ	U						BRGM 13
VT	377	BRIGHAM HILL,GRAYWACKE					NW	C	BGMH 02
CA	374+	BRIGHT ANGEL,SH	U						BGAG 13
NV	374+	BRIGHT ANGEL,SH	U						BGAG 11
UT	374	BRIGHT ANGEL,SH	U						BGAG 05
CA	377	BRIGHT ANGEL,SH	U						BGAG 14
NV	377	BRIGHT ANGEL,SH	U						BGAG 12
AZ	374	BRIGHT ANGEL,SH (TONTO GP)	U			110	NC	A	BGAG 02
CA	320	BRIGHT DOT,FM	U	MET		760	C	D	BRGD 03
MA	301+	BRIGHTON,MELAPHYRE (BOSTON BAY GP)	U			91	C	A	BRGN 03
MA	304	BRIGHTON,MELAPHYRE (BOSTON BAY GP)	U						BRGN 11

VA	125	BRIGHTSEAT,FM	U									BRGS	08
MD	125	BRIGHTSEAT,FM (PAMUNKEY GP)	U	CL				2	C	C		BRGS	01
CT	304+	BRIMFIELD,GP	U									BMFD	12
MA	304+	BRIMFIELD,GP	U					330	C	A		BMFD	14
CT	307	BRIMFIELD,GP	U									BMFD	13
MA	307	BRIMFIELD,GP	U									BMFD	15
MA	304+	BRIMFIELD,SCHIST	U									BMFD	04
NH	304+	BRIMFIELD,SCHIST	U									BMFD	05
MA	307	BRIMFIELD,SCHIST	U									BMFD	07
NH	307	BRIMFIELD,SCHIST	U									BMFD	08
CT	304+	BRIMFIELD,SCHIST (PUTNAM GP)	U									BMFD	03
CT	307	BRIMFIELD,SCHIST (PUTNAM GP)	U									BMFD	06
AZ	430	BRINDLE PUP,ANDESITE (ASH CREEK GP)	U					760	C	C		BRDP	01
OH	344	BRINT ROAD,MBR (SILICA FM)	U	SS				7	NW	D		BRRD	11
CA	122	BRIONES,SS (SAN PABLO GP)	U					700	WC	A		BRNS	04
OR	231	BRISBOIS,FM	U	SED				4500	C	C		BRSB	05
TX	324	BRISTER,LS MBR (BIG SALINE FM)	U					23	C	C		BRSR	01
CT	307	BRISTOL,GRANITE GNEISS	U							C	A	BRSL	03
OH	317	BRISTOL,LS [BED] (WASHINGTON FM)	U									BRSL	04
WV	317	BRISTOL,LS [BED] (WAYNESBURG FM)	U					2	C	A		BRSL	06
CT	307	BRISTOL,MBR (COLLINSVILLE FM)	U									BRSL	07
NV	337	BRISTOL PASS,LS	U					93	EC	A		BRLP	03
TX	123	BRITE,IGNIMBRITE (VIEJA GP)	U					30	WC	C		BRIT	01
IA	364	BRITON,MBR (MIFFLIN FM)	U									BRTN	21
IL	364	BRITON,MBR (MIFFLIN FM)	U	LS				3	NC	C		BRTN	15
MO	364	BRITON,MBR (MIFFLIN FM)	U									BRTN	22
TX	212	BRITTON,CLAY	U					76	EC	A		BRTN	01
TX	212	BRITTON,FM (EAGLE FORD GP)	U									BRTN	25
NV	367+	BROAD CANYON,FM	U	LS				610	C	E		BRDC	02
NV	371	BROAD CANYON,FM	U									BRDC	05
NV	374	BROAD CANYON,FM	U									BRDC	06
WV	337	BROAD FORD,MBR (POCONO FM)	U									BDFD	17
VA	337	BROAD FORD,SS	U					RD	70	SW	A	BDFD	14
WV	337	BROAD FORD,SS	U									BDFD	34
VA	337	BROAD FORD,SS MBR (POCONO FM)	U									BDFD	15
NE	112	BROADWATER,FM	U	GVL,SD				21	WC	C		BRDR	02
CO	112	BROADWAY,ALLUVIUM	U					5	NC	C		BRDY	01
CA	231	BROCK,SH	U					120	NW	A		BCKC	21
NV	317+	BROCK CANYON,FM	U	DOL,CGL				1500	NC	D		BCKC	07
NV	321	BROCK CANYON,FM	U									BCKC	08



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
ID 324+	BROCKIE LAKE,CGL (COPPER BASIN GP)				660	SC	E	BKLL 02
ID 327	BROCKIE LAKE,CGL (COPPER BASIN GP)							BKLL 03
VT 341	BROCKLEBANK,GRANITE					C	C	BKBK 02
PA 344	BRODHEAD CREEK,MBR (MARCELLUS SH)	U			9	EC	C	BDCX 10
NM 112	BROKEN BACK,BASALT					C	D	BKBK 01
NM 217	BROKEN JUG,LS (BISBEE GP)	U			1000	SW	C	BKJG 01
CO 341	BROKEN RIB,MBR (DYER FM)		LS			WC	D	BKRB 01
CA 100	BROKEOFF,ANDESITE					NW	A	BRKF 01
OK 364	BROMIDE,FM (SIMPSON GP)	U	LS,SS		180	SE	A	BRMD 03
TX 364	BROMIDE,FM (SIMPSON GP)							BRMD 05
KY 364	BROMLEY,SH MBR (POINT PLEASANT FM)	U			9	NC	A	BRML 04
OH 364	BROMLEY,SH MBR (POINT PLEASANT FM)							BRML 05
NY 347	BRONCKS LAKE,MBR (KALKBERG LS)				6	EC	D	BKLL 04
AZ 211	BRONCO,VOLCS	U			1800	SE	C	BRNC 04
TX 321	BROOKSMITH,FM (CANYON GP)		LS,SH			C	D	BRKM 02
CT 307	BROOKFIELD,DIORITE GNEISS					WC	A	BKFD 02
NY 307	BROOKFIELD,DIORITE GNEISS							BKFD 05
MA 301+	BROOKLINE,MBR (ROXBURY CGL)	U			610	C	A	BRKL 03
MA 304	BROOKLINE,MBR (ROXBURY CGL)	U						BRKL 04
NY 307+	BROOKLYN,GNEISS					SE	C	BRKL 01
NY 400	BROOKLYN,GNEISS							BRKL 05
TX 324	BROOK RANCH,MBR (BIG SALINE FM)		LS		8	C	C	BKRC 04
WY 211	BROOKS,SS TONGUE (ROCK SPRINGS FM)				37	SW	D	BRKS 02
TX 123	BROOKS MOUNTAIN,FM		TRC		300	WC	E	BRKM 01
PA 324	BROOKVILLE,CLAY BED (ALLEGHENY FM)							BKVL 13
OH 324	BROOKVILLE,CLAY MBR (POTTSVILLE FM)				2	C	C	BKVL 12
NJ 231	/BROOKVILLE,DIABASE				500	NW	E	BKVL 07
PA 231	/BROOKVILLE,DIABASE							BKVL 09
PA 231	/BROOKVILLE,SYENITE							BKVL 10
SD 317	BROOM CREEK,FM							BMCK 03
NE 317	BROOM CREEK,MBR (HARTVILLE FM)							BMCK 05
WY 317	BROOM CREEK,MBR (HARTVILLE FM)		LS,SS		31	EC	C	BMCK 04
CA 217	BROPHY CANYON,FM		SH		12000	NW	C	BRPC 01
AK 217+	BROTHERS,VOLCS (STEPHENS PASSAGE GP)	U			610	EC	D	BRRS 02
AK 221	BROTHERS,VOLCS (STEPHENS PASSAGE GP)	U						BRRS 05
NV 121	BROUGHER,DACITE					C	A	BRGR 01
CA 221	[BROWER CREEK,MBR (MARIPOSA FM)]					C	D	BRCK 82
CA 221	/BROWER CREEK,VOLC MBR (MARIPOSA FM)							BRCK 17
NE 122	BROWN COUNTY,BED (VALENTINE FM)		MRL		1	NW	C	BRNC 02
ID 121	BROWN CREEK,FM		SED			SW	D	BRCK 04

VT	367	BROWNELL MOUNTAIN, PHYLLITE MBR (BASCOM FM)				NW	D	BRLM	06	
IL	325	BROWNING, SS MBR (SPOON FM)			3	WC	C	BRNG	13	
NC	420	BROWN MOUNTAIN, GRANITE	U			NW	D	BRNM	09	
WY	123	BROWN MOUNTAIN, GRANODIORITE			370	NW	D	BRNM	04	
MO	420	BROWN MOUNTAIN, RHYOLITE PORPHYRY (BEVOS GP)				SE	D	BRNM	08	
CA	211	BROWN MOUNTAIN, SS (PANOCHÉ GP)			76	WC	C	BRNM	05	
CA	211	BROWN MOUNTAIN, SS MBR (MORENO GRANDE FM)						BRNM	06	
CO	122+	BROWNS CANYON, FM	U	STS	15	C	E	BRSC	01	
CO	123	BROWNS CANYON, FM	U					BRSC	07	
UT	410	BROWNS HOLE, FM (BRIGHAM GP)	U	BAS, QTZ	190	NC	E	BRHL	10	
PA	364	BROWNS MILLS, MBR (ROW PARK LS)			24	SC	C	BRML	06	
CO	122	BROWNS PARK, FM	U	ST	550	NW	A	BRPK	04	
UT	122	BROWNS PARK, FM	U					BRPK	05	
WY	122	BROWNS PARK, FM	U					BRPK	06	
CO	430	BROWNS PASS, QUARTZ MONZONITE	U				C	D	BRSP	02
MS	354	BROWNSPORT, FM	U					BRPR	01	
TN	354	BROWNSPORT, FM	U	LS	37	SW	A	BRPR	03	
TN	354	BROWNSPORT, GP						BRPR	04	
LA	212	BROWNSTOWN, FM	U					BRNS	07	
OK	212	BROWNSTOWN, FM	U					BRNS	09	
TX	212	BROWNSTOWN, FM (AUSTIN GP)	U					BRNS	11	
AR	212	BROWNSTOWN, MARL	U				SW	A	BRNS	06
LA	212	BROWNSTOWN, MARL	U					BRNS	08	
OK	212	BROWNSTOWN, MARL	U					BRNS	10	
AR	212	BROWNSTOWN, MARL (AUSTIN GP)	U					BRNS	30	
TX	212	BROWNSTOWN, MARL (AUSTIN GP)	U					BRNS	12	
WV	324	BROWNSTOWN, SS [MBR] (KANAWHA FM)			11	SW	A	BRNS	17	
IN	338	BROWNSTOWN HILLS, SS MBR (EDWARDSVILLE FM)			6	SC	A	BRHL	05	
OK	322	BROWNVILLE, LS (VANOSS GP)						BRVL	16	
IA	322	BROWNVILLE, LS (WABAUNSEE GP)						BRVL	04	
NE	322	BROWNVILLE, LS (WABAUNSEE GP)			2	SE	A	BRVL	07	
OK	322	BROWNVILLE, LS (WABAUNSEE GP)						BRVL	09	
KS	322	BROWNVILLE, LS MBR (WOOD SIDING FM)	U					BRVL	06	
NE	322	BROWNVILLE, LS MBR (WOOD SIDING FM)	U					BRVL	08	
OK	322	BROWNVILLE, LS MBR (WOOD SIDING FM)	U					BRVL	11	
TX	321	BROWNWOOD, SH (CANYON GP)			55	C	A	BRND	09	
TX	321	BROWNWOOD, SH MBR (GRAFORD FM)	U					BRND	10	
TX	212	BRUCEVILLE, MARL MBR (ATCO FM)					EC	D	BCVL	01
NE	123	BRULE, CLAY (WHITE RIVER GP)			150	NW	C	BRUL	02	
CO	123	BRULE, FM (WHITE RIVER GP)	U					BRUL	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ND 123	BRULE,FM (WHITE RIVER GP)							BRUL 06
NE 123	BRULE,FM (WHITE RIVER GP)	U						BRUL 03
SD 123	BRULE,FM (WHITE RIVER GP)	U						BRUL 04
WY 123	BRULE,FM (WHITE RIVER GP)	U						BRUL 05
MN 420	/BRULE RIVER,BASALT (NORTH SHORE GP)				460	NE	E	BLRV 02
MN 420	BRULE RIVER,RHYOLITE (NORTH SHORE GP)				1100	NE	E	BLRV 03
ID 112	BRUNEAU,FM (IDAHO GP)	U	VSED		240	SW	D	BRUN 01
KS 317	BRUNO,LS [BED] (BLUE SPRINGS MBR OF MATFIELD SH)							BRUN 04
NE 317	BRUNO,LS [BED] (BLUE SPRINGS MBR OF MATFIELD SH)				1	EC	A	BRUN 05
NJ 231	BRUNSWICK,FM (NEWARK GP)	U			3700	EC	A	BRCK 22
NY 231	BRUNSWICK,FM (NEWARK GP)	U						BRCK 24
PA 231	BRUNSWICK,FM (NEWARK GP)	U						BRCK 27
NJ 231	BRUNSWICK,SH (NEWARK GP)							BRCK 23
IL 325	BRUSH,COAL MBR (SPOON FM)				<1	NW	C	BRSH 01
PA 321	/BRUSH CREEK,CLAY BED (CONEMAUGH FM)					WC	A	BRCK 38
OH 321	/BRUSH CREEK,CLAY MBR (CONEMAUGH FM)							BRCK 32
PA 321	/BRUSH CREEK,COAL BED (CONEMAUGH FM)				<1	WC	A	BRCK 66
KY 321	BRUSH CREEK,LS MBR (CONEMAUGH FM)	U						BRCK 29
MD 321	BRUSH CREEK,LS MBR (CONEMAUGH FM)							BRCK 30
OH 321	BRUSH CREEK,LS MBR (CONEMAUGH FM)	U						BRCK 34
PA 321	BRUSH CREEK,LS MBR (CONEMAUGH FM)	U			1	WC	A	BRCK 40
WV 321	BRUSH CREEK,LS MBR (CONEMAUGH FM)	U						BRCK 45
WV 321	BRUSH CREEK,LS MBR (GLENSHAW FM)							BRCK 72
CO 324	BRUSH CREEK,LS MBR (GOTHIC FM)		LS		85	WC	E	BRCK 79
PA 321	/BRUSH CREEK,RED BED (CONEMAUGH FM)					WC	A	BRCK 42
OH 321	/BRUSH CREEK,SH MBR (CONEMAUGH FM)							BRCK 36
WV 321	/BRUSH CREEK,SH [MBR] (CONEMAUGH FM)							BRCK 46
AZ 221	BRUSHY BASIN,SH MBR (MORRISON FM)	U						BRSB 01
CO 221	BRUSHY BASIN,SH MBR (MORRISON FM)	U						BRSB 02
NM 221	BRUSHY BASIN,SH MBR (MORRISON FM)	U						BRSB 03
UT 221	BRUSHY BASIN,SH MBR (MORRISON FM)	U			140	SE	A	BRSB 04
NM 313	BRUSHY CANYON,FM (DELAWARE MOUNTAIN GP)	U						BRSC 05
TX 313	BRUSHY CANYON,FM (DELAWARE MOUNTAIN GP)	U	SS		300	WC	C	BRSC 06
CA 221	BRUSHY CANYON,FM (MARIPOSA GP)		SS,CGL			C	D	BRSC 03
CA 221	BRUSHY CANYON,MBR (MARIPOSA FM)							BRSC 04
IL 112	BRUSSELS,FM	U	ST,SD		23	WC	C	BRSL 01
MO 112	BRUSSELS,FM	U						BRSL 02
NM 322	/BRUTON,FM (FRESNAL GP)		SH	RD	34	C	C	BRTN 10
NM 322	[BRUTON,MBR (FRESNAL FM)]							BRTN 24
TX 124	BRYAN,SS MBR (YEGUA FM)				170	EC	C	BRYN 01

TX	124	BRYAN,SS (YEGUA GP)															BRYN	02
IL	357	BRYANT KNOB,FM (EDGEWOOD GP)															BRKB	04
MO	357	BRYANT KNOB,FM (EDGEWOOD GP)															BRKB	03
IN	332+	BRYANTSVILLE,BRECCIA BED (LEVIAS MBR OF STE. GENEVIEVE LS)															BRVL	17
IN	333	BRYANTSVILLE,BRECCIA BED (LEVIAS MBR OF STE. GENEVIEVE LS)															BRVL	12
DE	121	BRYN MAWR,FM															BRMR	05
DC	121	BRYN MAWR,GRAVEL															BRMR	01
DE	121	BRYN MAWR,GRAVEL															BRMR	02
MD	121	BRYN MAWR,GRAVEL															BRMR	03
PA	121	BRYN MAWR,GRAVEL															BRMR	04
CO	231	BRYNT DRAW,MBR (POPO AGIE FM)															BRDR	08
WY	231	BRYNT DRAW,MBR (POPO AGIE FM)															BRDR	04
KY	324	BRYSON,FM (BREATHITT GP)															BRSN	01
TN	324	BRYSON,FM (BREATHITT GP)															BRSN	02
AL	123	BUCATUNNA,CLAY															BCTN	01
FL	123	BUCATUNNA,CLAY															BCTN	04
AL	123	BUCATUNNA,CLAY MBR (BYRAM FM)															BCTN	02
FL	123	BUCATUNNA,CLAY MBR (BYRAM FM)															BCTN	05
MS	123	BUCATUNNA,CLAY MBR (BYRAM FM)															BCTN	08
FL	123	BUCATUNNA,FM															BCTN	06
MS	123	BUCATUNNA,FM (VICKSBURG GP)															BCTN	09
IA	112	BUCHANAN,GRAVEL															BCNN	02
CO	211	BUCK,FM															BUCK	01
UT	211	BUCK,FM															BUCK	03
UT	211	BUCK,SH MBR (PRICE RIVER FM)															BUCK	04
CO	211	BUCK,TONGUE (MANCOS SH)															BUCK	02
UT	211	BUCK,TONGUE (MANCOS SH)															BUCK	05
AZ	122	BUCK AND DOE,CGL															BCKD	03
TX	324	BUCK CREEK,SS (STRAWN GP)															BKCK	06
TX	324	BUCK CREEK,SS MBR (GRINDSTONE CREEK FM)															BKCK	07
KS	317	BUCKEYE,SH (SUMNER GP)															BCKY	01
KS	317	BUCKEYE,SH MBR (WELLINGTON FM)															BCKY	02
ME	354+	BUCKFIELD,GP															BCKF	07
ME	357	BUCKFIELD,GP															BCKF	18
TX	122+	BUCK HILL,GP															BCKH	02
TX	123	BUCK HILL,GP															BCKH	03
TX	124	BUCK HILL,GP															BCKH	04
CO	217	/BUCKHORN,CGL															BCKR	02
CO	217	/BUCKHORN,CGL MBR (CEDAR MOUNTAIN FM)															BCKR	03
UT	217	/BUCKHORN,CGL MBR (CEDAR MOUNTAIN FM)															BCKR	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 320	BUCKHORN,LS					SE	C	BCKR 11
IA 364	BUCKHORN,MBR (DUNLEITH FM)							BCKR 18
IL 364	BUCKHORN,MBR (DUNLEITH FM)							BCKR 14
FL 121	BUCKINGHAM,LS MBR (TAMIAMI FM)		DOL		2	NC	C	BKGM 01
FL 121	BUCKINGHAM,MARL MBR (TAMIAMI FM)					SE	C	BKGM 03
CA 217	BUCK ISLAND,MBR (DAVIS CANYON FM)		SH		12000	NW	C	BCKI 01
WA 217	BUCK MOUNTAIN,FM (NEWBY GP)		VOL		4400	NC	E	BCKM 23
WY 400	BUCK MOUNTAIN,GRANITE					NW	C	BCKM 20
SD 430	/BUCK MOUNTAIN,QTZ	U				WC	E	BCKM 22
AR 221	BUCKNER,FM	U	ANH		61	SW	C	BCKR 07
LA 221	BUCKNER,FM	U						BCKR 08
TX 221	BUCKNER,FM	U						BCKR 10
AL 221	BUCKNER,MBR (HAYNESVILLE FM)	U						BCKR 06
AR 221	BUCKNER,MBR (HAYNESVILLE FM)	U						BCKR 19
MS 221	BUCKNER,MBR (HAYNESVILLE FM)	U						BCKR 09
AR 212	BUCKRANGE,SAND LENTIL (OZAN FM)	U			5	SW	A	BCKG 04
NC 400	BUCK RIDGE,SCHIST					NW	C	BKRG 02
CA 221	BUCKS,GRANODIORITE					NW	C	BCKS 02
NY 367	BUCKS BRIDGE,FM				23	NC	A	BKBG 05
TX 123	BUCKSHOT,IGNIMBRITE (VIEJA GP)				23	WC	C	BCKS 01
UT 123	BUCKSKIN,BRECCIA	U			30	SW	E	BCKK 08
WA 370+	BUCKSKIN,SCHIST				1100	NC	C	BCKK 06
WA 400	BUCKSKIN,SCHIST							BCKK 07
NV 317	BUCKSKIN MOUNTAIN,FM		LS		360	NC	C	BKKM 01
ME 350	BUCKSPORT,FM		QTZ			C	C	BCKP 06
WY 371+	BUCK SPRING,FM		SS,STS		32	SC	C	BKSP 02
WY 374	BUCK SPRING,FM							BKSP 05
IN 324	BUCKTOWN,COAL MBR (DUGGER FM)				1	SW	E	BCKN 01
NM 211	BUDA,LS							BUDA 10
TX 213	BUDA,LS (SIXSHOOTER GP)				30	C	A	BUDA 05
AR 213	BUDA,LS (WASHITA GP)	U						BUDA 02
TX 213	BUDA,LS (WASHITA GP)	U						BUDA 04
CA 211+	BUDDEN CANYON,FM		SS		6700	NW	D	BDNC 01
CA 217	BUDDEN CANYON,FM							BDNC 02
PA 341	BUDDYS RUN,MBR (CATSKILL FM)	U	SS	RD	1300	EC	D	BDSR 01
OR 124	BUPELL,LS				6	NW	C	BULL 01
IL 371	BUELTER,MBR (IRONTON SS)				24	NE	D	BLTR 03
OH 337	BUENA VISTA,SS MBR (CUYAHOGA FM)	U			9	SC	A	BNVS 03
OH 337	BUENA VISTA,SS MBR (LOGAN FM)							BNVS 04
VA 400	/BUFFALO,GRANITE					SC	A	BFFL 15

PA	321	BUFFALO,SH MBR (CONEMAUGH FM)								BFFL	08
MD	321	BUFFALO,SS MBR (CONEMAUGH FM)	U							BFFL	03
OH	321	BUFFALO,SS MBR (CONEMAUGH FM)	U							BFFL	06
PA	321	BUFFALO,SS MBR (CONEMAUGH FM)	U					24	WC	A	BFFL 10
WV	321	BUFFALO,SS MBR (CONEMAUGH FM)	U								BFFL 12
WV	324	BUFFALO CREEK,LS [BED] (KANAWHA FM)						<1	SW	C	BFCK 03
WA	420	BUFFALO HUMP,FM (DEER TRAIL GP)	U	SL,QTZ		600	NE	C	C	C	BFHP 01
CO	123	BUFFALO PEAKS,ANDESITE				180			C	C	BFPK 01
AR	364	BUFFALO RIVER,GP		DOL,SS					NW	C	BFRV 01
PA	371	BUFFALO SPRINGS,FM	U	LS				75	SE	C	BSPG 42
PA	371	BUFFALO SPRINGS,FM (CONOCOCHEAGUE GP)									BSPG 36
IN	324	BUFFALOVILLE,COAL MBR (BRAZIL FM)						2	SW	C	BFLV 01
KY	332	BUFFALO WALLOW,FM	U	SH		61			C	A	BFLW 02
VA	350	BUFFARDS,FM		SCH		460			C	E	BFRD 03
NV	371	BUFFINGTON,FM		DOL					SE	D	BFNG 01
IN	321	BUFFKIN,FM		SED					SW	A	BFKN 01
MO	420	BUFORD,GRANITE PORPHYRY (MUSCO GP)							SE	D	BFRD 04
AZ	100+	BUFORD CANYON,FM	U	VOL		670			SE	D	BFDC 01
AZ	200	BUFORD CANYON,FM									BFDC 02
WY	112+	BUG,FM	U	CLS				38	C	E	BUG 01
WY	121	BUG,FM	U								BUG 02
NM	321+	BUG SCUFFLE,LS MBR (GOBBLER FM)							SC	C	BGSF 01
NM	324	BUG SCUFFLE,LS MBR (GOBBLER FM)									BGSF 02
SD	400	BUGTOWN,FM	U	SCH		2100			SW	D	BGTN 01
AK	110	BULDIR,VOLCS	U						SW	C	BLDR 01
MA	307+	BULGARMARSH,GRANITE	U								BLGM 04
RI	307+	BULGARMARSH,GRANITE	U						EC	D	BLGM 05
MA	340	BULGARMARSH,GRANITE	U								BLGM 14
RI	340	BULGARMARSH,GRANITE	U								BLGM 15
NY	377	BULL,FM	U								BULL 06
VT	377	BULL,FM	U	SL					WC	A	BULL 04
NM	400	[BULLARD PEAK,FM]		GN					SW	C	BDPK 07
NM	400	/BULLARD PEAK,SER									BDPK 09
TX	218	BULL CREEK,LS MBR (WALNUT FM)						10	EC	D	BLCK 13
SD	211	BULL CREEK,SAND BED (HELL CREEK MBR OF LANCE FM)									BLCK 09
MT	211	/BULL CREEK,SANDY LS (GREENHORN FM)						3	NW	C	BLCK 10
WY	211	/BULL CREEK,SANDY LS (GREENHORN FM)							SE	C	BLCK 11
UT	124	BULLDOG HOLLOW,MBR (FOWKES FM)									BDGH 02
WY	124	BULLDOG HOLLOW,MBR (FOWKES FM)		SS,MS		73			SW	E	BDGH 01
KY	361	BULL FORK,FM	U	SH,LS		61			NE	D	BLFK 01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WA 311	BULLFROG MOUNTAIN,FM (ANARCHIST GP)		SL		1500	NC E		BFGM 01
SD 211	BULLHEAD,MBR (FOX HILLS FM)		CL,ST		120	NC C		BLLD 01
ND 211	BULLHEAD,MBR (FOX HILLS SS)							BLLD 03
VT 377	BULL HILL,GNEISS				300	SC A		BLHL 12
VT 377	BULL HILL,GNEISS MBR (CAVENDISH FM)							BLHL 15
VT 377	BULL HILL,MBR (HOOSAC FM)							BLHL 13
NM 221	BULLINGTON,MBR (MORRISON FM)		LS			NC C		BLNG 01
NV 331	BULLION,DOL (MONTE CRISTO GP)				91	SE A		BLLN 06
CA 331	BULLION,DOL MBR (MONTE CRISTO LS)	U						BLLN 02
NV 331	BULLION,DOL MBR (MONTE CRISTO LS)	U						BLLN 03
NV 331	BULLION,MBR (MONTE CRISTO DOL)	U						BLLN 04
UT 331	BULLION,MBR (REDWALL LS)							BLLN 07
ND 125	BULLION BUTTE,BED (SENTINEL BUTTE MBR OF FORT UNION FM)		SH		5	SW C		BLNB 01
UT 122+	BULLION CANYON,VOLCS	U			1500	SC C		BLNC 06
UT 123	BULLION CANYON,VOLCS	U						BLNC 08
CO 112	BULL LAKE,DRIFT	U						BLLK 01
ID 112	BULL LAKE,DRIFT	U						BLLK 02
MT 112	BULL LAKE,DRIFT	U						BLLK 03
UT 112	BULL LAKE,DRIFT	U						BLLK 05
WY 112	BULL LAKE,DRIFT	U				WC A		BLLK 06
CO 112	BULL LAKE,TILL							BLLK 11
ID 112	BULL LAKE,TILL							BLLK 10
UT 112	BULL LAKE,TILL	U						BLLK 09
WY 112	BULL LAKE,TILL	U						BLLK 08
AZ 120	BULL MOUNTAIN,ANDESITIC SER				300	NW C		BLMN 16
AZ 120	[BULL MOUNTAIN,VOLCS]							BLMN 06
WY 124	BULLPEN,MBR (WASATCH FM)	U	CST		54	SW E		BLPN 02
MT 331	BULL RIDGE,MBR (MADISON LS)	U						BRDG 22
WY 331	BULL RIDGE,MBR (MADISON LS)	U			37	WC E		BRDG 12
MT 331	BULL RIDGE,MBR (MISSION CANYON LS)	U						BRDG 11
MD 231	BULL RUN,SH (NEWARK GP)							BLRN 07
VA 231	BULL RUN,SH (NEWARK GP)					NC A		BLRN 01
TX 318	BULLWAGON,DOL (CLEAR FORK GP)				2	C A		BLGN 01
TX 318	BULLWAGON,DOL MBR (VALE FM)	U						BLGN 02
NV 371	BULLWHACKER,MBR (WINDFALL FM)	U	LS		120	EC C		BLCK 32
OR 121	BULLY CREEK,FM		SS		130	EC D		BLCK 02
CA 231+	BULLY HILL,RHYOLITE	U			150	NW A		BLHL 04
CA 234	BULLY HILL,RHYOLITE	U						BLHL 05
AZ 400	BUMBLEBEE,GRANODIORITE	U				C E		BMBB 01
FL 124	BUMPNOSE,LS MBR (CRYSTAL RIVER FM)				5	NW C		BMPB 01

NV	112+	BUNÉJUG,FM	U	BAS	200	WC	D	BNJG	01
NV	121	BUNEJUG,FM	U					BNJG	02
TX	321	BUNGER,FM (GRAHAM GP)						BNGR	01
TX	321	BUNGER,LS (CISCO GP)			2	NC	A	BNGR	10
TX	321	BUNGER,LS MBR (GRAHAM FM)	U					BNGR	02
IL	323	BUNJE,LS MBR (BOND FM)			1	C	C	BUNJ	01
CO	123	BUNKER,TRACHYANDESITE	U				SC	BNKR	01
VA	420	BUNKER HILL,FM (LYNCHBURG GP)		GN			NE	BKHL	01
OH	337	BURBANK,MBR (CUYAHOGA FM)		SH,SS	46	NC	A	BRBK	01
VT	367	BURCHARDS,MBR (CHIPMAN FM)	U	LS	46	WC	C	BRCD	01
NY	370	BURDEN,CGL			3	EC	A	BRDN	10
TX	212	BURDITT,MARL (AUSTIN GP)			12	EC	A	BRDT	02
NE	122	BURGE,MBR (VALENTINE FM)			9	NC	A	BURG	01
NE	122	BURGE,SAND MBR (OGALLALA FM)						BURG	02
OK	364+	BURGEN,SS	U		30	NE	A	BRGN	14
OK	367	BURGEN,SS	U					BRGN	16
AL	331	BURGESS,OOOLITE MBR (BANGOR LS)			12	NW	A	BRGS	04
MO	326	BURGNER,FM		SH,STS	20	SW	C	BRGR	03
PA	337	BURGOON,FM (POCONO GP)			91	SC	A	BRGN	06
WV	337	BURGOON,FM (POCONO GP)						BRGN	09
PA	337	BURGOON,SS (POCONO GP)	U					BRGN	07
WV	337	BURGOON,SS (POCONO GP)	U					BRGN	10
PA	337	BURGOON,SS MBR (POCONO FM)	U					BRGN	08
ID	420	BURKE,FM (RAVALLI GP)	U	SS	520	NW	A	BURK	01
MT	420	BURKE,FM (RAVALLI GP)	U					BURK	02
WA	420	BURKE,FM (RAVALLI GP)	U					BURK	03
VA	364	BURKES GARDEN,LS MBR (BENBOLT FM)			61	SW	C	BKGD	01
MD	341	/BURKET,BLACK SH MBR (HARRELL SH)	U					BRKT	07
PA	341	/BURKET,BLACK SH MBR (HARRELL SH)	U		24	SC	A	BRKT	02
PA	341	BURKET,MBR (HARRELL FM)						BRKT	08
MD	341	BURKET,MBR (HARRELL SH)						BRKT	04
PA	341	BURKET,MBR (HARRELL SH)						BRKT	05
PA	341	BURKET,SH						BRKT	06
PA	341	BURKET,SH MBR (HARRELL FM)						BRKT	01
PA	341	BURKET,SH MBR (RUSH FM)						BRKT	03
ID	112	BURLEY,LAKE BEDS	U		46	SC	A	BRLY	02
IA	322	BURLINGAME,LS (SHAWNEE GP)						BLGM	08
KS	322	BURLINGAME,LS (WABAUNSEE GP)			2	EC	A	BLGM	09
NE	322	BURLINGAME,LS (WABAUNSEE GP)						BLGM	13
MO	322	BURLINGAME,LS MBR (BERN FM)						BLGM	18



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KS 322	BURLINGAME, MBR (BERN LS)	U						BLGM 10
VT 112	BURLINGTON, DRIFT					NW	D	BRLG 01
KS 337	BURLINGTON, LS	U						BRLG 06
IA 338	BURLINGTON, LS	U			15	SE	A	BRLG 04
IL 338	BURLINGTON, LS	U						BRLG 05
MO 338	BURLINGTON, LS	U						BRLG 08
VT 112	BURLINGTON, TILL							BRLG 02
AK 123	BURLS CREEK, SH MBR (KATALLA FM)	U			880	SE	A	BLCK 06
TX 361	BURNAM, LS	U				C	C	BRNM 07
NM 400	BURNED MOUNTAIN, METARHYOLITE	U		RD		NC	C	BRDM 07
CA 112	BURNEY, BASALT	U				NW	D	BRNY 01
CO 123	BURNS, FM	U			370	SW	A	BRNS 01
CO 123	BURNS, LATITE TUFF							BRNS 02
CO 123	BURNS, QUARTZ LATITE							BRNS 03
CA 210+	BURNSIDE LAKE, ADAMELLITE					C	D	BDLK 03
CA 220	BURNSIDE LAKE, ADAMELLITE							BDLK 04
ND 112	BURNSTAD, DRIFT					SC	D	BRSD 01
CA 111	BURNT, LAVA					NC	C	BRNT 01
CA 111	[BURNT, MBR (MODOC BASALT)]							BRNT 09
MI 354	BURNT BLUFF, FM	U	DOL		76	C	A	BBLF 02
WI 354	BURNT BLUFF, FM	U						BBLF 04
MI 354	BURNT BLUFF, GP							BBLF 03
WI 354	BURNT BLUFF, GP							BBLF 05
ME 357	BURNT BROOK, FM (MEDUXNEKEAG GP)	U	SL		1500	NE	D	BRBK 02
UT 374	BURNT CANYON, FM							BRNC 08
NV 374	BURNT CANYON, LS				130	EC	C	BRNC 06
UT 374	BURNT CANYON, LS							BRNC 09
NV 374	BURNT CANYON, MBR (HIGHLAND PEAK FM)	U						BRNC 07
WY 121+	BURNT GULCH, CGL				91	WC	C	BGLC 01
WY 122	BURNT GULCH, CGL							BGLC 02
AK 231	BURNT ISLAND, CGL (HYD GP)	U			30	SE	D	BILD 03
ME 227	BURNT MEADOW, COMPLEX (WHITE MOUNTAIN GP)					SW	A	BRMD 04
ME 227	BURNT MEADOW, SYENITE (WHITE MOUNTAIN GP)							BRMD 01
TN 324	BURNT MILL, SH (CROOKED FORK GP)				40	NC	C	BRML 01
OR 122	BURNT MOUNTAIN, MBR (DEER BUTTE FM)		BAS		17	EC	D	BRNM 03
OR 307+	BURNT RIVER, SCHIST	U			1500	EC	A	BRRV 06
OR 340	BURNT RIVER, SCHIST	U						BRRV 07
MN 440	BURNTSIDE, GRANITE GNEISS					NE	A	BRSD 02
KS 317	BURR, MBR (GRENOLA LS)	U						BURR 03
NE 317	BURR, MBR (GRENOLA LS)	U			3	SE	A	BURR 04

OK	317	BURR, MBR (GRENOLA LS)	U						BURR	05	
NM	321	BURREGO, FM (HANSONBURG GP)		LS		16	C	C	BRRG	03	
IA	322	BURROAK, SH MBR (DEER CREEK LS)	U			1	SW	A	BRRK	01	
KS	322	BURROAK, SH MBR (DEER CREEK LS)	U						BRRK	02	
MO	322	BURROAK, SH MBR (DEER CREEK LS)	U						BRRK	03	
NE	322	BURROAK, SH MBR (DEER CREEK LS)	U						BRRK	04	
AZ	217	BURRO CANYON, FM	U						BRCN	03	
CO	217	BURRO CANYON, FM	U	SS, SH		79	SW	C	BRCN	04	
NM	217	BURRO CANYON, FM	U						BRCN	05	
UT	217	BURRO CANYON, FM	U						BRCN	06	
TX	123	BURRO MESA, RIEBECKITE RHYOLITE MBR (SOUTH RIM FM)						SW	C	BRMS	01
IL	357	BURROUGHS, DOL	U			18	NC	A	BRGS	05	
WI	357	BURROUGHS, DOL	U						BRGS	06	
IL	323	BURROUGHS, LS MBR (MODESTO FM)				2	C	C	BRGS	03	
WA	111	BURROUGHS MOUNTAIN, DRIFT	U					C	D	BRGM	15
NV	374	BURROWS, DOL				120	EC	C	BRRS	06	
NV	374	BURROWS, LS							BRRS	07	
NV	374	BURROWS, MBR (HIGHLAND PEAK FM)	U						BRRS	08	
NM	319	BURSUM, FM (MADERA GP)	U	SH		76	C	C	BRSM	01	
NM	319	BURSUM, FM (MAGDALENA GP)	U						BRSM	02	
WV	317	BURTON, SS [MBR] (GREENE FM)				12	NC	A	BRTN	02	
TX	218	BURT RANCH, MBR (SEGOVIA FM)		LS		18	C	E	BRRC	02	
UT	377	BUSBY, FM				140	WC	A	BSBY	03	
UT	377	BUSBY, QTZ	U						BSBY	04	
MO	339	BUSHBERG, SS (SULPHUR SPRINGS GP)				3	EC	A	BBRG	01	
MO	339	BUSHBERG, SS MBR (SULPHUR SPRINGS FM)	U						BBRG	02	
NJ	361+	BUSHKILL, MBR (MARTINSBURG FM)	U						BSKL	01	
PA	361+	BUSHKILL, MBR (MARTINSBURG FM)	U	SL		1200	EC	D	BSKL	02	
NJ	364	BUSHKILL, MBR (MARTINSBURG FM)	U						BSKL	03	
PA	364	BUSHKILL, MBR (MARTINSBURG FM)	U						BSKL	04	
OR	124	BUSHNELL ROCK, MBR (LOOKINGGLASS FM)		CGL		300	SW	E	BRCK	81	
IN	324	BUSSERON, SS MBR (SHELburn FM)	U			20	SW	A	BSRN	01	
CA	124	BUTANO, SS	U			640	WC	A	BUTN	01	
TX	110+	BUTCHERKNIFE, BASALT			BK			WC	C	BCKF	01
TX	120	BUTCHERKNIFE, BASALT								BCKF	02
TX	125	BUTLER, CLAY MBR (CALVERT BLUFF FM)				120	EC	A	BTLR	02	
TX	125	BUTLER, CLAY MBR (ROCKDALE FM)								BTLR	03
MD	324	BUTLER, SS MBR (ALLEGHENY FM)								BTLR	04
PA	324	BUTLER, SS MBR (ALLEGHENY FM)	U			9	WC	A	BTLR	07	
PA	324	BUTLER, SS MBR (FREEPORT FM)								BTLR	08

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OH	112	BUTLER,TILL				2	NC	D	BTLR 01
MO	420	BUTLER HILL,GRANITE (BEVOS GP)					SE	D	BLHL 14
IN	112	BUTLERVILLE,TILL MBR (JESSUP FM)				8	SE	D	BLVL 01
CA	101	BUTTE,GRAVEL				370	NW	A	BUTT 01
CA	101	BUTTE,GRAVEL MBR (SUTTER FM)	U						BUTT 02
MT	211	BUTTE,QUARTZ MONZONITE	U				WC	A	BUTT 04
CA	111+	BUTTE CREEK,BASALT			BK	46	NW	C	BCRK 01
CA	112	BUTTE CREEK,BASALT							BCRK 02
OR	122	BUTTE CREEK,VOLC SS				30	SE	D	BCRK 06
AZ	430	BUTTE FALLS,TUFF	U			760	WC	C	BFLS 11
UT	324	BUTTERFIELD PEAKS,FM (OQUIRRH GP)	U	LS			C	D	BFPK 03
OK	371	BUTTERLY,DOL (ARBUCKLE GP)	U			87	SE	C	BTRL 01
NY	344	BUTTERMILK FALLS,LS							BMKF 03
PA	344	BUTTERMILK FALLS,LS	U			61	EC	C	BMKF 01
PA	344	BUTTERMILK FALLS,MBR (ONONDAGA LS)							BMKF 02
NY	344	BUTTERNUT,SH MBR (SKANEATELES FM)				72	C	C	BTRN 01
CA	111+	BUTTE VALLEY,BASALT	U		BK	24	NW	C	BTVL 01
CA	112	BUTTE VALLEY,BASALT	U						BTVL 02
CA	237	BUTTE VALLEY,FM		HNF		1200	EC	C	BTVL 03
AL	347	BUTTING RAM,SS (TALLADEGA GP)				300	C	A	BGRM 02
AL	347	BUTTING RAM,SS MBR (TALLADEGA SLATE)	U						BGRM 01
CA	122	BUTTLE,DIATOMITE MBR (MONTEREY FM)				150	C	C	B TTL 01
CA	122	BUTTLE,MBR (MONTEREY FM)	U						B TTL 06
CA	122	BUTTONBED,SS MBR (TEMBLOR FM)	U			150	SC	E	B NBD 01
IN	338	BUTTON MOLD KNOB,MBR (NEW PROVIDENCE FM)							BMKB 01
KY	338	BUTTON MOLD KNOB,MBR (NEW PROVIDENCE FM)		SH		44	C	C	BMKB 02
CT	204+	BUTTRESS,DIABASE	U				C	D	BTRS 01
CT	231	BUTTRESS,DIABASE	U						BTRS 02
TX	371	BUTTRILL RANCH,MBR (DAGGER FLAT FM)		SS,SH		110	WC	C	BLRC 03
CA	211	BUTTS RANCH,SH MBR (PANOCHE FM)				61	C	C	BSRC 03
AZ	430	BUZZARD,RHYOLITE (ASH CREEK GP)	U			1100	C	C	BZRD 01
CA	122	BUZZARD PEAK,CGL MBR (TOPANGA FM)	U			610	SC	C	BZPK 01
CA	360	BUZZTAIL SPRING,FM	U	HNF		760	C	D	BZSP 01
CA	122	BY-DAY,MBR (EUREKA VALLEY TUFF)	U			35	EC	E	BYDY 01
NV	122	BY-DAY,MBR (EUREKA VALLEY TUFF)	U						BYDY 02
OH	337	BYER,MBR (LOGAN FM)		SS		46	SC	A	BYER 01
PA	351	BYERS ISLAND,MBR (KEYSER LS)				28	C	E	BILD 16
VA	351	BYERS ISLAND,MBR (KEYSER LS)							BILD 13
WV	351	BYERS ISLAND,MBR (KEYSER LS)							BILD 17
PA	337	BYHAM,LS MBR (MEADVILLE SH)				4	NW	A	BYHM 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 400	CABRESTO,METAQUARTZITE				300	NC	C	CBRS 01
CA 211	CABRILLO,FM (ROSARIO GP)	U	SS		81	SE	E	CBRL 01
VA 354	CACAPON,FM			RD	91	NW	A	CCPN 04
VA 354	CACAPON,SS MBR (CLINTON FM)	U						CCPN 01
WV 354	CACAPON,SS MBR (CLINTON FM)	U						CCPN 02
WV 354	CACAPON,SS MBR (ROSE HILL FM)							CCPN 03
CA 112+	CACHE,FM		GVL,SD		300	NW	A	CCHE 02
CA 121	CACHE,FM							CCHE 03
ID 121	CACHE VALLEY,FM (SALT LAKE GP)							CCVL 01
UT 121	CACHE VALLEY,FM (SALT LAKE GP)		MRL		610	NC	A	CCVL 02
UT 120	CACTUS,QUARTZ MONZONITE					SW	E	CCTS 05
CA 210+	CACTUS,QUARTZ MONZONITE					SE	A	CCTS 02
CA 220	CACTUS,QUARTZ MONZONITE							CCTS 04
CA 210+	CACTUS POINT,GRANITE					C	C	CCSP 01
CA 220	CACTUS POINT,GRANITE							CCSP 02
TX 124	CADDELL,FM (JACKSON GP)	U	CL		91	EC	A	CDDL 02
TX 321	CADDO CREEK,FM (CANYON GP)	U	LS,SH		21	C	A	CDCK 04
TX 321	CADDO CREEK,GP							CDCK 05
TX 324	CADDO POOL,FM (KICKAPOO CREEK GP)		LS	BK	61	C	C	CDPL 01
TX 324	CADDO POOL,FM (SMITHWICK GP)							CDPL 02
ID 410	CADDY CANYON,QTZ	U			910	SE	E	CDCN 01
UT 410	CADDY CANYON,QTZ (BRIGHAM GP)	U						CDCN 02
NC 410	CADES,SS (OCOEE SUPERGROUP)	U						CDOS 02
TN 410	CADES,SS (OCOEE SUPERGROUP)	U			730	EC	A	CDOS 04
LA 221	CADEVILLE, TONGUE (TERRYVILLE SS)				73	NW	D	CDVL 05
ME 350	CADILLAC MOUNTAIN,GRANITE					SC	B	CDCM 01
CA 374+	CADIZ,FM	U	LS		110	SE	A	CDIZ 02
NV 374+	CADIZ,FM	U						CDIZ 03
CA 377	CADIZ,FM	U						CDIZ 04
NV 377	CADIZ,FM	U						CDIZ 05
NV 364	CAESAR CANYON,LS				46	C	C	CSRC 01
NC 300	CAESARS HEAD,QUARTZ MONZONITE							CRHD 01
SC 300	CAESARS HEAD,QUARTZ MONZONITE					NW	E	CRHD 02
NV 123	CAETANO,TUFF	U			2400	NC	D	CTNO 01
IN 112	CAGLE,LOESS MBR (ATHERTON FM)				1	C	C	CGLE 01
IL 110	CAHOKIA,ALLUVIUM				14	SC	E	CHOK 01
CA 210	CAHUENGA,BEDS		CST		1600	SC	C	CHNG 01
CA 210	[CAHUENGA,FM]							CHNG 02
CA 122	CAJON,FM		CST		2900	SC	C	CJON 01
VT 347	CALAIS,GRANITE					NC	A	CLIS 01

TX	111	CALAMITY,FM		ST,SD	4	SW	C	CLMT	01
OR	123+	CALAPOOYA,FM	U	VOL	1500	SW	A	CLPY	01
OR	124	CALAPOOYA,FM	U					CLPY	02
CA	301+	CALAVERAS,FM	U	SL	1200	C	A	CLVR	08
CA	310	CALAVERAS,FM	U					CLVR	09
OH	112	CALCUTTA,SILT			3	EC	D	CLCT	01
ID	327	CALDER CREEK,MBR (WELLS FM)		SS,LS	300	SC	C	CDCK	06
ME	307	CALDERWOOD,FM	U	SL,SCH		SC	A	CLDD	01
ID	112	[CALDWELL,FM]		CL,ST	15	SW	C	CLDL	04
ME	370	[CALDWELL,FM]		MSED	1200	CAN	A	CLDL	05
ME	370	/CALDWELL,GP						CLDL	03
ID	112	/CALDWELL,SEDIMENTS						CLDL	01
WY	121+	CALDWELL CANYON,VOLCS			91	NW	C	CLDC	02
WY	122	CALDWELL CANYON,VOLCS						CLDC	03
TX	125	CALDWELL KNOB,MBR (ROCKDALE FM)		LS	<1	EC	A	CDKB	01
TX	125	CALDWELL KNOB,MBR (SEGUIN FM)						CDKB	02
NH	351	CALEF,MBR (ELIOT FM)	U	PHL	240	SE	C	CLEF	01
CA	211+	CALERA,LS MBR (FRANCISCAN FM)	U		18	WC	A	CLER	01
CA	217	CALERA,LS MBR (FRANCISCAN FM)	U					CLER	02
IL	323	/CALHOUN,COAL MBR (MATTOON FM)			<1	SE	C	CLHN	02
IA	322	CALHOUN,SH (SHAWNEE GP)	U					CLHN	01
KS	322	CALHOUN,SH (SHAWNEE GP)	U		20	NE	A	CLHN	03
MO	322	CALHOUN,SH (SHAWNEE GP)	U					CLHN	04
NE	322	CALHOUN,SH (SHAWNEE GP)	U					CLHN	05
CA	122	CALICO,FM		VOL	82	SE	C	CLCO	03
AK	327+	CALICO BLUFF,FM	U	SH,LS	460	NE	A	CCBF	01
AK	331	CALICO BLUFF,FM	U					CCBF	02
CO	120	CALICO PEAK,PORPHYRY				SW	A	CCPK	01
AR	364	CALICO ROCK,SS MBR (EVERTON FM)	U		61	NC	A	CCRK	20
CA	122	CALIENTE,FM	U	CLS,SS RD	1300	SC	C	CLNT	03
CA	122	CALIENTE,RED BEDS						CLNT	04
NY	400	CALIFORNIA,GRANITE				NC	A	CLFR	04
AK	330	CALIFORNIA CREEK,MBR (TOTATLANIKA SCHIST)	U		900	EC	E	CFCK	02
CA	211	CALL,SS MBR (PANOCHÉ FM)			880	WC	C	CALL	02
CA	361	/CALLAHAN,CHERT MBR (DUZEL FM)				NW	D	CLLN	02
CA	111	/CALLAHAN,FLOW (MODOC BASALT)				NC	C	CLLN	01
CA	111	[CALLAHAN,MBR (MODOC BASALT)]						CLLN	03
MO	344	CALLAWAY,LS	U		21	C	A	CLLY	09
TX	124	CALLIHAM,SS MBR (WHITSETT FM)	U		6	SC	A	CLLM	03
VT	377	CALL MILL,SLATE			30	CAN	C	CLML	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KY 361	ALLOWAY CREEK,LS	U			38	EC	D	CLCK 55
NV 123	ALLOWAY WELL,FM		VOL		4600	EC	D	CLWL 01
UT 374	CALLS FORT,SH MBR (BLOOMINGTON FM)				61	NW	C	CLFR 03
AZ 317+	CALLVILLE,LS	U						CLVL 18
NV 317+	CALLVILLE,LS	U			610	SE	A	CLVL 19
AZ 320	CALLVILLE,LS	U						CLVL 22
NV 320	CALLVILLE,LS	U						CLVL 23
UT 320	CALLVILLE,LS	U						CLVL 60
AZ 331	CALLVILLE,LS	U						CLVL 41
NV 331	CALLVILLE,LS	U						CLVL 42
FL 112+	CALOOSAHATCHEE,FM	U			18	SE	A	CLSC 04
FL 121	CALOOSAHATCHEE,FM	U						CLSC 01
FL 112+	CALOOSAHATCHEE,MARL	U						CLSC 05
FL 121	CALOOSAHATCHEE,MARL	U						CLSC 02
NM 337	CALOSO,FM	U	LS		26	WC	C	CLOS 01
MI 420	CALUMET,AMYGDALOID (PORTAGE LAKE VOLCS)	U				NW	A	CLMT 05
MI 420	CALUMET AND HECLA,CGL [BED] (PORTAGE LAKE VOLCS)	U			3	NW	A	CMHC 01
KS 122	CALVERT,ASH BED (ASH HOLLOW MBR OF OGALLALA FM)				7	NW	C	CLVR 01
KS 122	CALVERT,ASH BED (VALENTINE MBR OF OGALLALA FM)							CLVR 02
DC 122	CALVERT,FM							CLVR 11
DE 122	CALVERT,FM (CHESAPEAKE GP)	U						CLVR 03
MD 122	CALVERT,FM (CHESAPEAKE GP)	U	CL,MRL		56	SE	A	CLVR 04
NC 122	CALVERT,FM (CHESAPEAKE GP)	U						CLVR 05
VA 122	CALVERT,FM (CHESAPEAKE GP)	U						CLVR 06
MD 122	CALVERT BEACH,MBR (CHOPTANK FM)		SD		5	EC	E	CVBC 01
VA 122	CALVERT BEACH,MBR (CHOPTANK FM)							CVBC 02
TX 125	CALVERT BLUFF,CLAY MBR (ROCKDALE FM)				300	C	A	CVBF 01
TX 125	CALVERT BLUFF,FM (WILCOX GP)							CVBF 02
OK 325	CALVIN,SS (MARMATON GP)	U			73	EC	A	CLVN 03
TN 361	CAMARGO,FM		SH		30	SC	C	CMRG 02
OR 124	CAMAS VALLEY,MBR (FLOURNOY FM)		SS		460	SW	E	CMVL 01
CA 123	CAMBRIA,FELSITE	U			120	SC	E	CMBR 04
MA 301+	CAMBRIDGE,ARGILLITE (BOSTON BAY GP)				61	NE	A	CMBG 14
MA 304	CAMBRIDGE,ARGILLITE (BOSTON BAY GP)							CMBG 15
KY 321	CAMBRIDGE,LS MBR (CONEMAUGH FM)	U						CMBG 02
MD 321	CAMBRIDGE,LS MBR (CONEMAUGH FM)	U						CMBG 04
OH 321	CAMBRIDGE,LS MBR (CONEMAUGH FM)	U			1	EC	A	CMBG 06
PA 321	CAMBRIDGE,LS MBR (CONEMAUGH FM)	U						CMBG 08
WV 321	CAMBRIDGE,LS MBR (CONEMAUGH FM)	U						CMBG 11
PA 321	CAMBRIDGE,RED BED (CONEMAUGH FM)							CMBG 10





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ID 121	CAMP DAVIS,FM	U						CPDV 01
WY 121	CAMP DAVIS,FM	U	CGL		910	NW	C	CPDV 02
CA 220+	CAMPER FLAT,GRANODIORITE					C	D	CMPF 01
CA 230	CAMPER FLAT,GRANODIORITE							CMPF 02
OK 325	/CAMP GROUND,MBR (DEESE GP)					SE	C	CMPG 03
OK 325	[CAMP GROUND,SS MBR (DEESE FM)]							CMPG 07
AL 307	CAMP HILL,GRANITE (DADEVILLE COMPLEX)					EC	E	CMPH 01
CA 377+	CAMPITO,FM	U			960	C	A	CMPPT 03
NV 377+	CAMPITO,FM	U						CMPPT 01
CA 410	CAMPITO,FM	U						CMPPT 05
NV 410	CAMPITO,FM	U						CMPPT 07
NV 377+	CAMPITO,SS							CMPPT 04
NV 410	CAMPITO,SS							CMPPT 08
CT 347	CAMP JENKINS,FM					C	C	CPJK 01
CT 347	CAMP JENKINS,SCHIST							CPJK 02
KY 364	CAMP NELSON,LS (HIGH BRIDGE GP)	U			87	C	A	CMPN 08
NM 112	CAMP RICE,FM (SANTA FE GP)							CMPR 05
TX 112	CAMP RICE,FM (SANTA FE GP)		SD,ASH		27	WC	D	CMPR 02
IN 341	CAMP RUN,MBR (NEW ALBANY SH)				5	SE	D	CMPR 04
TX 230	CAMP SPRINGS,CGL					C	A	CPSP 02
NM 124	CAMPUS,ANDESITE							CMPS 03
TX 124	CAMPUS,ANDESITE					WC	D	CMPS 01
CA 112	CAMPUS,FM	U	VOL		240	WC	A	CMPS 02
UT 121	[CAMP WILLIAMS,FM (SALT LAKE GP)]		MS,STS		30	NC	C	CMPW 01
UT 121	/CAMP WILLIAMS,UNIT (SALT LAKE GP)							CMPW 02
ME 354+	CANAAN,FM		STS,SH			C	E	CANN 01
ME 357	CANAAN,FM							CANN 02
CT 360	CANAAN MOUNTAIN,SCHIST					NW	C	CNNM 03
UT 125+	CANAAN PEAK,FM	U	CGL		300	SC	E	CNPK 01
UT 211	CANAAN PEAK,FM	U						CNPK 02
CA 124	CANADA,FM		SH,STS		420	SC	E	CAND 01
NY 420	CANADA HILL,GRANITE (HUDSON HIGHLANDS COMPLEX)					SE	A	CDHL 10
NY 420	CANADA LAKE,FM		GN		900	EC	E	CDLK 01
PA 341	CANADAWAY,FM							CNDY 07
NY 341	CANADAWAY,FM (ARKWRIGHT GP)		SH		300	WC	A	CNDY 01
NY 341	CANADAWAY,GP							CNDY 03
PA 341	CANADAWAY,GP							CNDY 04
NY 364	CANAJOHARIE,SH (TRENTON GP)	U				C	A	CNJR 01
VA 112+	CANAL RUN,FM		SD,ST		5	SE	D	CNLR 01
VA 121	CANAL RUN,FM							CNLR 02

OH	324	CANARY,IRONSTONE [BED] (ALLEGHENY FM)								<1	SE	C	CNRY	01
NM	318	CANAS,GYPSUM MBR (YESO FM)								29	C	C	CANS	01
NY	341	CANASERAGA,MBR (CANADAWAY FM)								94	WC	A	CSRG	03
NY	341	CANASERAGA,SS (CANADAWAY GP)											CSRG	04
NY	341	CANASERAGA,SS MBR (PERRYSBURG FM)											CSRG	05
NV	237	CANDELARIA,FM								910	C	A	CDLR	05
VA	307	CANDLER,FM (EVINGTON GP)								1200	SC	C	CDLR	06
VA	307	CANDLER,PHYLLITE											CDLR	07
NY	341	CANEADEA,MBR (CANADAWAY FM)								85	WC	A	CNEB	01
NY	341	CANEADEA,MBR (PERRYSBURG FM)											CNEB	02
NY	341	CANEADEA,SH (CANADAWAY GP)											CNEB	03
CA	121	CANEBRAKE,CGL								2100	SE	C	CBRK	01
TN	364	CANE CREEK,FM											CCRK	21
VA	364	CANE CREEK,FM								46	SW	C	CCRK	22
AR	328+	CANE HILL,FM								20	NW	C	CNHL	05
AR	331	CANE HILL,FM											CNHL	06
AR	328+	CANE HILL,MBR (HALE FM)											CNHL	03
OK	328	CANE HILL,MBR (HALE FM)											CNHL	04
AR	331	CANE HILL,MBR (HALE FM)											CNHL	07
AZ	210	CANELO,RED BEDS								410	SE	C	CNLO	01
AZ	227+	CANELO HILLS,VOLCS								610	SE	D	CLHL	04
AZ	231	CANELO HILLS,VOLCS											CLHL	05
NC	112	CANEPATCH,FM											CNPC	02
SC	112	CANEPATCH,FM								21	EC	E	CNPC	01
AR	124	CANE RIVER,FM (CLAIBORNE GP)											CRVR	01
LA	124	CANE RIVER,FM (CLAIBORNE GP)								33	NW	A	CRVR	02
KY	364	CANE RUN,BED (GRIER MBR OF LEXINGTON LS)								2	C	D	CNRN	01
NV	231	CANE SPRING,FM								300	NC	C	CSPG	20
KY	337	CANE VALLEY,LS MBR (FORT PAYNE FM)								63	SC	E	CNVL	21
AR	331	CANEY,SH											CNEY	01
OK	331	CANEY,SH (SPRINGER GP)								120	SE	A	CNEY	02
AR	124	CANEY POINT,MARL MBR (WHITE BLUFF FM)								6	SC	C	CNPN	01
KS	322	CANEYVILLE,LS (WABAUNSEE GP)								6	SE	A	CNVL	11
NE	322	CANEYVILLE,LS (WABAUNSEE GP)											CNVL	13
OK	322	CANEYVILLE,LS (WABAUNSEE GP)											CNVL	15
NE	322	CANEYVILLE,SH MBR (WOOD SIDING FM)											CNVL	14
NY	341	CANISTEO,SH (CANADAWAY GP)								58	WC	C	CNST	02
NY	341	CANISTEO,SH MBR (PERRYSBURG FM)											CNST	01
WV	324	CANNELTON,LS [BED] (KANAWHA FM)								1	SW	A	CNLN	02
AK	317	CANNERY,FM								910	SE	D	CNNR	01

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN	364	CANNON,LS	U			76	C	A	CNNN 04
GA	364	CANNON,LS (NASHVILLE GP)							CNNN 05
TN	364	CANNON,LS (NASHVILLE GP)							CNNN 02
SD	125	CANNONBALL,FM							CNBL 03
ND	125	CANNONBALL,FM (FORT UNION GP)		SS		91	SW	A	CNBL 01
ND	125	CANNONBALL,MBR (FORT UNION FM)	U						CNBL 02
SD	125	CANNONBALL,MBR (FORT UNION FM)	U						CNBL 04
UT	224	CANNONVILLE,MBR (ENTRADA SS)				44	SC	E	CNVL 10
NM	211	CANO,MBR (MESAVERDE FM)		SS		69	NC	C	CANO 01
CA	124	CANOAS,SILT				34	C	C	CNOS 01
CA	124	CANOAS,STS MBR (KREYENHAGEN SH)	U						CNOS 02
TX	124	CANOE,FM (BIG BEND PARK GP)		SS,VOL		350	SW	D	CNOE 01
NV	122	CANON,RHYOLITE				120	NW	C	CNON 01
OR	122	CANON,RHYOLITE							CNON 02
NM	121	CANOVAS CANYON,RHYOLITE (KERES GP)	U			270	NC	E	CVSC 01
CT	347+	CANTERBURY,GNEISS	U				NE	A	CRBR 05
MA	347+	CANTERBURY,GNEISS	U						CRBR 07
CT	351	CANTERBURY,GNEISS	U						CRBR 01
MA	351	CANTERBURY,GNEISS	U						CRBR 03
CT	347+	CANTERBURY,GRANITE GNEISS							CRBR 06
CT	351	CANTERBURY,GRANITE GNEISS							CRBR 02
CA	211	CANTINAS,SS (ASUNCION GP)					WC	C	CNNS 02
NY	400	CANTON,COMPLEX		GR			NC	A	CNTN 08
GA	400	CANTON,FM					NW	A	CNTN 06
GA	400	CANTON,SCHIST							CNTN 07
IL	325	CANTON,SH MBR (CARBONDALE FM)				9	C	A	CNTN 05
CA	124+	CANTUA,SS MBR (LODO FM)	U			1400	C	A	CNTU 02
CA	125	CANTUA,SS MBR (LODO FM)	U						CNTU 03
AK	125	CANTWELL,FM	U	CGL,SS		210	EC	A	CNTL 01
NM	344	CANUTILLO,FM							CNTL 03
TX	344	CANUTILLO,FM		LS,SH		53	WC	C	CNTL 02
IA	323	CANVILLE,MBR (DENNIS LS)	U						CNVL 16
KS	323	CANVILLE,MBR (DENNIS LS)	U			1	SE	A	CNVL 17
MO	323	CANVILLE,MBR (DENNIS LS)							CNVL 18
NE	323	CANVILLE,MBR (DENNIS LS)	U						CNVL 19
OK	323	CANVILLE,MBR (HOGSHOOTER LS)							CNVL 20
TX	321	CANYON,GP	U	LS		280	C	A	CNYN 07
CO	122	CANYON CREEK,MBR (SAN JUAN FM)	U	TF		370	SW	A	CCRK 01
CA	122	CANYON DEL REY,DIATOMITE MBR (MONTEREY FM)				240	WC	D	CDLR 02
AZ	122	CANYON LAKE,MBR (SUPERSTITION TUFF)	U		RD	180	C	E	CNLK 01

OR	234+	CANYON MOUNTAIN,COMPLEX	U	INTR			C	D	CNNM	01
OR	237	CANYON MOUNTAIN,COMPLEX	U						CNNM	02
OR	310	CANYON MOUNTAIN,COMPLEX							CNNM	05
WY	224	CANYON SPRINGS,SS MBR (RIERDON FM)				8	NE	C	CSPG	18
CO	224	CANYON SPRINGS,SS MBR (SUNDANCE FM)	U						CSPG	12
MT	224	CANYON SPRINGS,SS MBR (SUNDANCE FM)							CSPG	34
SD	224	CANYON SPRINGS,SS MBR (SUNDANCE FM)	U						CSPG	16
WY	224	CANYON SPRINGS,SS MBR (SUNDANCE FM)	U						CSPG	19
CA	124	CAPAY,FM	U	SED		730	WC	A	CAPY	01
IL	361	CAPE,LS							CAPE	01
MO	361	CAPE,LS				2	SE	C	CAPE	02
MA	361	CAPE ANN,GRANITE	U				NE	A	CPAN	01
AK	112	CAPE DECEIT,FM		ST		5	NC	E	CPDC	01
ME	304+	CAPE ELIZABETH,FM (CASCO BAY GP)	U	SL		180	SW	A	CEZB	01
ME	307	CAPE ELIZABETH,FM (CASCO BAY GP)	U						CEZB	02
NC	112	CAPE FEAR,COQUINA					SE	C	CPFR	01
NC	211	CAPE FEAR,FM	U	SS,MS		90	SE	A	CPFR	03
SC	211	CAPE FEAR,FM	U						CPFR	02
OR	122	CAPE FOULWEATHER,BASALT	U			150	NW	E	CPFL	02
WA	122	CAPE FOULWEATHER,BASALT							CPFL	03
CA	330	CAPE HORN,SLATE	U			1	NC	A	CPHR	02
NJ	112	CAPE MAY,FM	U	SD,GVL		60	SC	A	CPMY	01
PA	112	CAPE MAY,FM	U						CPMY	02
ME	227	CAPE NEDDICK,COMPLEX (WHITE MOUNTAIN GP)					SW	A	CPNK	03
ME	227	CAPE NEDDICK,GABBRO							CPNK	04
ME	350	CAPENS,FM	U	SL		120	SC	D	CPNS	01
OR	211	CAPE SEBASTIAN,SS				240	SW	E	CPSB	01
AK	337	CAPE THOMPSON,MBR (NASORAK FM)	U	LS		69	NC	D	CPTP	01
CA	121+	CAPISTRANO,FM	U	SH		370	SE	A	CPSR	01
CA	122	CAPISTRANO,FM	U						CPSR	02
CA	124	CAPITA,SH MBR (DOMENGINE FM)				15	C	C	CPIT	01
NM	313	CAPITAN,LS	U						CPTN	01
TX	313	CAPITAN,LS	U			550	WC	A	CPTN	02
UT	231	CAPITOL REEF,BED (PETRIFIED FOREST MBR OF CHINLE FM)	U	STS,SS	Rd		SC	D	CPRF	01
OK	371	CAP MOUNTAIN,FM (TIMBERED HILLS GP)							CPMN	07
TX	371	CAP MOUNTAIN,LS MBR (RILEY FM)	U			27	C	A	CPMN	08
TX	123	CAPOTE MOUNTAIN,TUFF (VIEJA GP)				500	WC	C	CPMN	01
TX	324	CAPPS,LS (LONE CAMP GP)				1	C	A	CPPS	01
TX	324	CAPPS,LS (STRAWN GP)							CPPS	07
TX	324	CAPPS,LS MBR (MINERAL WELLS FM)	U						CPPS	02

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NE	122	CAP ROCK, MBR (ASH HOLLOW FM)		GVL		9	NC	E	CPRK 01
SD	122	CAP ROCK, MBR (ASH HOLLOW FM)							CPRK 02
WI	112	CAPRON, TILL							CPRN 03
IL	112	CAPRON, TILL MBR (WINNEBAGO FM)				2	NE	E	CPRN 02
MO	323	CAPTAIN CREEK, LS MBR (STANTON FM)							CPCK 23
IA	323	CAPTAIN CREEK, MBR (STANTON LS)	U						CPCK 07
KS	323	CAPTAIN CREEK, MBR (STANTON LS)	U			3	EC	A	CPCK 08
NE	323	CAPTAIN CREEK, MBR (STANTON LS)	U						CPCK 09
NM	111	CAPULIN, BASALT					NE	C	CPLN 01
NV	331	CAP WINN, MBR (SCHOONOVER FM)		CH	RD	110	NC	D	CPWN 01
WA	124	CARBONADO, FM (PUGET GP)	U	SS		610	WC	A	CRBD 01
NM	217	CARBONATE HILL, LS (BISBEE GP)				34	SE	C	CBHL 01
AZ	420	CARBON BUTTE, MBR (KWAGUNT FM)		MS		76	NC	C	CRBB 01
AZ	420	CARBON CANYON, MBR (GALEROS FM)		SED		470	NC	E	CRBC 03
KY	324	CARBONDALE, FM	U						CBDL 02
IL	325	CARBONDALE, FM (KEWANEE GP)	U	SH		140	SC	A	CBDL 01
IN	324	CARBONDALE, GP							CBDL 03
UT	317	CARBON RIDGE, FM							CBRG 05
NV	317	CARBON RIDGE, FM (ARCTURUS GP)	U	LS		530	EC	C	CBRG 01
NV	317	CARBON RIDGE, GP							CBRG 02
UT	317	CARBON RIDGE, GP							CBRG 06
UT	112	CARCASS CREEK, DRIFT	U			15	SC	C	CCCK 02
UT	347	CARD, MBR (WATER CANYON FM)		DOL		67	NC	D	CARD 01
AZ	420	CARDENAS, LAVA (UNKAR GP)	U			300	NC	C	CRDS 02
TN	377	CARDENS BLUFF, SH MBR (HAMPTON FM)	U			61	NE	C	CDBF 07
IL	325	CARDIFF, COAL MBR (CARBONDALE FM)				4	NE	E	CRDF 01
NY	344	/CARDIFF, MBR (MARCELLUS SH)				30	C	A	CRDF 02
PA	344	/CARDIFF, MBR (MARCELLUS SH)							CRDF 04
VA	410	CARDIFF, METACONGLOMERATE	U						CRDF 08
MD	410	CARDIFF, METACONGLOMERATE (GLENARM GP)	U			150	NE	A	CRDF 06
PA	410	CARDIFF, METACONGLOMERATE (GLENARM GP)	U						CRDF 07
NY	344	/CARDIFF, SH							CRDF 03
AZ	400	CARDIGAN, GNEISS	U				SW	C	CRDG 07
FL	211	CARD SOUND, DOL				430	SE	E	CDSD 01
CA	121	CAREAGA, FM				440	SC	C	CREG 01
CA	121	CAREAGA, SAND	U						CREG 02
CA	121	CAREAGA, SS	U						CREG 03
ID	344+	CAREY, DOL	U			150	C	E	CREY 01
ID	347	CAREY, DOL	U						CREY 02
MN	364	CARIMONA, MBR (PLATTEVILLE FM)		LS		2	SC	C	CRMN 07

PA	337	CARL,SS MBR (SHENANGO FM)			16	NW	C	CARL	01
MT	211	CARLILE,MBR (CODY SH)	U					CRLL	05
WY	211	CARLILE,MBR (CODY SH)	U					CRLL	14
CO	211	CARLILE,MBR (COLORADO SH)	U		61	SC	A	CRLL	01
MT	211	CARLILE,MBR (COLORADO SH)	U					CRLL	06
NM	211	CARLILE,MBR (COLORADO SH)	U					CRLL	10
NM	211	CARLILE,MBR (MANCOS SH)	U					CRLL	11
SD	211	CARLILE,SH (BENTON GP)	U					CRLL	17
CO	211	CARLILE,SH (COLORADO GP)	U					CRLL	02
IA	211	CARLILE,SH (COLORADO GP)	U					CRLL	03
KS	211	CARLILE,SH (COLORADO GP)	U					CRLL	04
MN	211	CARLILE,SH (COLORADO GP)						CRLL	18
MT	211	CARLILE,SH (COLORADO GP)	U					CRLL	07
ND	211	CARLILE,SH (COLORADO GP)	U					CRLL	08
NE	211	CARLILE,SH (COLORADO GP)	U					CRLL	09
NM	211	CARLILE,SH (COLORADO GP)	U					CRLL	12
SD	211	CARLILE,SH (COLORADO GP)	U					CRLL	13
WY	211	CARLILE,SH (COLORADO GP)	U					CRLL	15
PA	364	CARLIM,LS	U		55	SC	A	CRLM	03
NV	121	CARLIN,FM		CGL,SS	180	NE	C	CRLN	05
NV	311+	CARLIN CANYON,FM		LS,CH	380	NE	C	CRLC	02
NV	317	CARLIN CANYON,FM						CRLC	03
IL	323	CARLINVILLE,LS (MCLEANSBORO GP)	U		4	C	A	CLVL	36
IL	323	CARLINVILLE,LS MBR (MODESTO FM)						CLVL	37
NY	347	CARLISLE CENTER,FM	U	SH	14	EC	C	CLLC	01
NY	347	CARLISLE CENTER,MBR (SCHOHARIE FM)						CLLC	02
NY	347	CARLISLE CENTER,SH (TRISTATES GP)						CLLC	04
NY	347	CARLISLE CENTER,STS						CLLC	03
TX	124	CARLOS,MBR (WELLBORN SS)			7	EC	A	CRLS	05
CA	112+	CARLOTTA,FM (WILDCAT GP)		CGL,SS	910	NW	C	CRLT	01
CA	121	CARLOTTA,FM (WILDCAT GP)						CRLT	02
OK	374	[CARLTON,GP]			1100	SC	A	CRLN	17
KS	317	CARLTON,LS MBR (WELLINGTON FM)			5	SC	A	CRLN	09
OK	374	CARLTON,RHYOLITE						CRLN	15
OK	374	/CARLTON,RHYOLITE GP						CRLN	16
MS	337	CARMACK,LS			30	NE	A	CMCK	10
VT	364	CARMAN,FM (CHAZY GP)			37	NW	C	CRMN	10
VT	364	CARMAN,QTZ (MAQUAM GP)						CRMN	09
CA	121	CARMAN,SS MBR (ETCHEGOIN FM)	U		600	SC	E	CRMN	01
AZ	224	CARMEL,FM (SAN RAFAEL GP)	U					CRML	09

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO	224	CARMEL,FM (SAN RAFAEL GP)	U						CRML 10
NM	224	CARMEL,FM (SAN RAFAEL GP)	U						CRML 11
UT	224	CARMEL,FM (SAN RAFAEL GP)	U	LS,SH		200	SW	A	CRML 12
CA	125	CARMELO,FM		SS		240	WC	D	CRML 02
IL	112	CARMI,MBR (EQUALITY FM)		ST		15	SE	E	CRMI 01
PA	112	CARMICHAELS,FM	U	CL		24	SW	A	CMCL 01
LA	122	CARNAHAN BAYOU,MBR (FLEMING FM)		STS		38	WC	C	CRNB 01
PA	321	CARNAHAN RUN,SH [BED] (CONEMAUGH FM)				2	WC	C	CRNR 01
MT	331	CARNARVON,MBR (MOUNT HEAD FM)		LS		46	CAN	B	CRRV 01
CA	211	CARNERADA,CGL MBR (MARLIFE SH)			RD	670	C	C	CRRD 02
CA	122	CARNEROS,SS MBR (TEMLOR FM)	U			66	SC	A	CRRS 02
MI	400	CARNEY LAKE,GNEISS					WC	C	CRLK 13
TX	213	CARPENTER,LS MBR (GRAYSON FM)	U			27	WC	C	CRPR 03
MT	124	CARPENTER CREEK,PORPHYRY	U				C	A	CPCK 02
NY	344	CARPENTER FALLS,BED (TULLY LS)				3	C	E	CPFL 04
ME	347+	CARPENTER POND,FM (EAST BRANCH GP)		VOL		240	NC	E	CPPD 01
ME	351	CARPENTER POND,FM (EAST BRANCH GP)							CPPD 02
CO	123	CARPENTER RIDGE,TUFF	U			73	SW	E	CPRG 01
CA	112	CARPINTERIA,FM		SD,GVL		12	SC	A	CRPR 01
ME	347	CARRABASSET,FM		MET		1600	WC	E	CRBS 01
CA	374+	CARRARA,FM	U						CRRR 03
NV	374+	CARRARA,FM	U	SH,LS		540	SC	D	CRRR 04
CA	377	CARRARA,FM	U						CRRR 05
NV	377	CARRARA,FM	U						CRRR 06
CA	211	CARRIE CREEK,FM		STS,SS		1500	SC	D	CRCK 16
CT	361+	CARRINGTONS POND,MBR (HARTLAND FM)							CGPD 01
NY	361+	CARRINGTONS POND,MBR (HARTLAND FM)		SCH,GN			SE	E	CGPD 02
CT	364	CARRINGTONS POND,MBR (HARTLAND FM)							CGPD 03
NY	364	CARRINGTONS POND,MBR (HARTLAND FM)							CGPD 04
NM	110	/CARRIZO,FLOW (CLAYTON BASALT)					NE	C	CRRZ 01
AR	124	CARRIZO,SAND (CLAIBORNE GP)	U						CRRZ 03
LA	124	CARRIZO,SAND (CLAIBORNE GP)	U						CRRZ 05
TX	124	CARRIZO,SAND (CLAIBORNE GP)				61	SC	A	CRRZ 07
TX	400	CARRIZO MOUNTAIN,FM	U	SCH		5800	WC	A	CRZM 02
NM	111	CARRIZOZO,BASALT				21	C	C	CRZ2 01
NM	104+	CARSON,CGL					NC	C	CRSN 01
NM	107	CARSON,CGL							CRSN 02
WA	112	CARSON,LAVA				150	SC	A	CRSN 03
CA	200+	CARSON CREEK,FM		VSED		1500	C	A	CRCK 14
CA	300	CARSON CREEK,FM							CRCK 24

CA	210+	CARSON PASS,TONALITE					C	D	CRSP	01
CA	220	CARSON PASS,TONALITE							CRSP	02
VA	400	CARSONVILLE,GRANITE					SW	C	CRVL	37
CO	211	CARTER,SS MBR (PIERRE SH)	U			20	NC	E	CRTR	02
NE	122	CARTER CANYON,ASH BED (HELVAS CANYON MBR OF GERING FM)	U			1	WC	E	CRCC	01
KY	331	CARTER CAVES,SS				14	NE	E	CRCV	01
MT	211	CARTER CREEK,FM (COLORADO GP)		SED		1800	WC	D	CRCK	19
AL	364	CARTERS,LS	U						CRRS	07
GA	364	CARTERS,LS (STONES RIVER GP)							CRRS	09
TN	364	CARTERS,LS (STONES RIVER GP)	U			30	C	A	CRRS	08
IN	112	CARTERSBURG,TILL MBR (TRAFALGAR FM)				9	C	D	CRBG	01
MO	332	CARTERVILLE,FM	U	SH		15	SW	A	CRVL	21
KY	321	CARTHAGE,LS MBR (STURGIS FM)	U			2	WC	A	CRTG	01
MT	420	CARTHEW,MBR (ALTYN LS)				270	CAN	C	CRTH	02
MT	112	CARTWRIGHT,GRAVEL	U						CRRG	02
ND	112	CARTWRIGHT,GRAVEL	U			12	NW	C	CRRG	03
MO	420	CARVER CREEK,GRANITE PORPHYRY (MUSCO GP)				30	SE	D	CVCK	14
IN	338	CARWOOD,FM (BORDEN GP)	U	STS		46	SE	A	CRWD	01
ME	357+	CARYS MILLS,FM (MEDUXNEKEAG GP)	U	LS,STS		3600	NE	D	CRML	16
ME	361	CARYS MILLS,FM (MEDUXNEKEAG GP)	U						CRML	17
ME	364	CARYS MILLS,FM (MEDUXNEKEAG GP)	U						CRML	18
TN	324	CARYVILLE,SS (REDOAK MOUNTAIN GP)				18	NE	C	CRVL	17
TN	324	CARYVILLE,SS MBR (REDOAK MOUNTAIN FM)							CRVL	39
AK	307+	CASADEPAGA,SCHIST	U				NC	A	CDPG	01
AK	400	CASADEPAGA,SCHIST	U						CDPG	02
CA	112	CASA DIABLO,TILL					C	E	CDBL	01
NM	221	CASAMERO,MBR (MORRISON FM)		SS		24	NW	D	CSMR	01
CA	112+	CASCADE,ANDESITE							CSCD	01
OR	112+	CASCADE,ANDESITE					NW	D	CSCD	02
WA	112+	CASCADE,ANDESITE							CSCD	05
CA	121	CASCADE,ANDESITE							CSCD	08
OR	121	CASCADE,ANDESITE							CSCD	09
WA	121	CASCADE,ANDESITE							CSCD	10
WY	123	CASCADE CREEK,ANDESITE					NW	D	CCCK	03
WA	122	CASCADE PASS,QUARTZ DIORITE					NC	D	CCDP	01
WA	300	CASCADE RIVER,SCHIST					NC	D	CCRV	02
VA	231	CASCADE STATION,MBR (LEAKESVILLE FM)		CLS,SH		720	SC	D	CCDS	01
NY	341	CASCADILLA,SH				46	C	A	CCDL	01
CA	121	CASCAJO,CGL MBR (SAN JOAQUIN FM)	U			15	C	C	CSCJ	01
ME	304+	CASCO BAY,GP	U	MET			SW	A	CSCB	01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ME 307	CASCO BAY,GP	U						CSCB 02
NY 344	CASE HILL,BED (MOTTVILLE MBR OF SKANEATELES FM)		LS		<1	C	E	CSHL 07
KY 344	CASEY,LS				3	SC	A	CSEY 01
KY 327	CASEYVILLE,FM	U						CSVL 05
IL 328	CASEYVILLE,FM (MCCORMICK GP)	U	SS,SH		120	SE	A	CSVL 04
NY 341	CASHAQUA,FM				49	WC	A	CSHQ 01
NY 341	CASHAQUA,SH (SONYEA GP)							CSHQ 03
NY 341	CASHAQUA,SH MBR (SONYEA FM)	U						CSHQ 02
ID 374+	CASH CREEK,QTZ	U			340	C	E	CCRK 23
ID 377	CASH CREEK,QTZ	U						CCRK 24
CA 112	CASITAS,FM	U	CL,ST	RD	120	SC	C	CSTS 01
CA 122	CASMALIA,GYPSIFEROUS SH			RD	850	SC	A	CSML 01
CA 122	CASMALIA,RED BEDS							CSML 02
CA 122	CASMALIA,SH							CSML 03
AR 361	CASON,SH	U			7	NC	A	CSON 01
CO 317+	CASPER,FM	U						CSPR 01
WY 317+	CASPER,FM	U	LS,SS		150	EC	A	CSPR 02
CO 320	CASPER,FM	U						CSPR 03
WY 320	CASPER,FM	U						CSPR 04
NE 322	CASS,LS (DOUGLAS GP)				5	SE	A	CASS 04
SD 317	CASSA,FM							CASS 02
WY 317	CASSA,GP		SED		100	EC	C	CASS 03
NE 317	CASSA,MBR (HARTVILLE FM)							CASS 07
WY 317	CASSA,MBR (HARTVILLE FM)							CASS 05
LA 122	CASSEL HILL,MBR (CATAHOULA FM)		SD,CL		8	NE	C	CLHL 02
PA 321	CASSELMAN,FM (CONEMAUGH GP)	U	SH		150	NW	D	CSLM 02
WV 321	CASSELMAN,FM (CONEMAUGH GP)							CSLM 15
ID 300	CASSIA,DOL (DOVE CREEK GP)				610	SC	E	CSSI 01
NY 367	CASSIN,FM	U						CSSN 02
VT 367	CASSIN,FM		LS		67	WC	A	CSSN 03
OH 321	CASSVILLE,SH MBR (WAYNESBURG FM)	U						CSVL 01
WV 321	CASSVILLE,SH MBR (WAYNESBURG FM)				5	NC	A	CSVL 03
CA 122	CASTAIC,FM		SH,SS		2100	SC	C	CSTC 01
OH 112	CASTALIA,MARL				3	NC	D	CSTL 03
NC 112	CASTALIA,SAND				3	SE	C	CSTL 02
PA 357	CASTANEA,MBR (TUSCARORA FM)				23	C	A	CSTN 05
PA 357	CASTANEA,SS							CSTN 03
NM 312	CASTILE,FM	U						CSTL 08
TX 312	CASTILE,FM	U			91	WC	A	CSTL 09
NM 312	CASTILE,GYPSUM	U						CSTL 07

TX	312	CASTILE,GYPSUM	U								CSTL	10		
ME	347+	CASTINE,VOLCS	U							SC	A	CSTN	02	
ME	351	CASTINE,VOLCS	U									CSTN	04	
MT	121+	CASTLE,GRANITE	U							C	A	CSTL	05	
MT	122	CASTLE,GRANITE	U									CSTL	06	
HI	112	CASTLE,VOLCS (HONOLULU GP)	U					30		SE	A	CSTL	01	
CO	331	CASTLE BUTTE,MBR (LEADVILLE LS)	U							WC	E	CSLB	01	
OR	111	/CASTLE CREEK,FLOWS	U					76		SW	C	CLCK	02	
OR	111	[CASTLE CREEK,PUMICE]	U									CLCK	65	
CO	211	CASTLEGATE,SS (MESAVERT GP)	U									CSLG	01	
UT	211	CASTLEGATE,SS (MESAVERT GP)	U					150		C	A	CSLG	02	
NC	124	CASTLE HAYNE,LS	U					15		SE	A	CSLH	01	
SC	124	CASTLE HAYNE,LS	U									CSLH	02	
MT	331+	CASTLE REEF,DOL (MADISON GP)	U					250		NW	D	CLRF	01	
MT	337	CASTLE REEF,DOL (MADISON GP)	U									CLRF	02	
CO	123	CASTLE ROCK,CGL (WHITE RIVER GP)	U					27		C	A	CRCK	10	
NY	377	CASTLETON,CGL MBR (METTAWEE FM)	U									CSLN	04	
VT	377	CASTLETON,CGL MBR (ST. CATHERINE FM)	U					6		WC	C	CSLN	05	
IA	364	CASTLEWOOD,MBR (SPECHTS FERRY FM)	U									CSLD	01	
IL	364	CASTLEWOOD,MBR (SPECHTS FERRY FM)	U									CSLD	02	
MO	364	CASTLEWOOD,MBR (SPECHTS FERRY FM)	U					2		SH,LS	EC	D	CSLD	04
TX	400	CASTNER,LS	U					340		WC	C	CSNR	01	
LA	122	CASTOR CREEK,MBR (FLEMING FM)	U					61		WC	C	CRCK	09	
CA	124	CASTRO,SH MBR (ALHAMBRA FM)	U					44		NW	C	CESTR	01	
LA	122+	CATAHOULA,FM	U					300		NE	A	CTHL	02	
MS	122+	CATAHOULA,FM	U									CTHL	04	
TX	122+	CATAHOULA,FM	U									CTHL	06	
LA	123	CATAHOULA,FM	U									CTHL	20	
MS	123	CATAHOULA,FM	U									CTHL	11	
TX	123	CATAHOULA,FM	U									CTHL	23	
AL	122+	CATAHOULA,SS	U									CTHL	01	
FL	122+	CATAHOULA,SS	U									CTHL	14	
LA	122+	CATAHOULA,SS	U									CTHL	03	
MS	122+	CATAHOULA,SS	U									CTHL	05	
TX	122+	CATAHOULA,SS	U									CTHL	07	
AL	123	CATAHOULA,SS	U									CTHL	09	
FL	123	CATAHOULA,SS	U									CTHL	15	
LA	123	CATAHOULA,SS	U									CTHL	10	
MS	123	CATAHOULA,SS	U									CTHL	12	
TX	123	CATAHOULA,SS	U									CTHL	18	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 122+	CATAHOULA,TUFF	U						CTHL 08
TX 123	CATAHOULA,TUFF	U						CTHL 19
AZ 430	/CATALINA,GNEISS					SE	C	CTLN 06
AZ 120	/CATALINA,GRANITE					SE	C	CTLN 01
CA 200+	CATALINA,SCHIST	U				SC	A	CTLN 03
CA 300	CATALINA,SCHIST	U						CTLN 04
MI 357	CATARACT,FM	U	SH,DOL			CAN	A	CTRC 02
MI 357	CATARACT,GP							CTRC 03
AZ 112+	CATARACT CREEK,GRAVEL					NW	D	CCCK 01
AZ 121	CATARACT CREEK,GRAVEL							CCCK 04
NY 341	CATAWISSA,RED BEDS							CTSS 01
PA 341	CATAWISSA,RED BEDS		SH,SS			NE	A	CTSS 02
MN 361	CAT HEAD,MBR (RED RIVER FM)		LS	YL	41	CAN	A	CTHD 01
MT 361	CAT HEAD,MBR (RED RIVER FM)							CTHD 02
ND 361	CAT HEAD,MBR (RED RIVER FM)							CTHD 03
SD 361	CAT HEAD,MBR (RED RIVER FM)							CTHD 04
NY 400	CATHEAD MOUNTAIN,CHARNOCKITE				610	EC	E	CDMN 01
WA 217	CATHEDRAL,QUARTZ MONZONITE (HORSESHOE BASIN GP)					NC	E	CDRL 04
WY 124	CATHEDRAL BLUFFS,TONGUE (KNIGHT FM)		CL,SH		460	SW	A	CDBF 03
CO 124	CATHEDRAL BLUFFS,TONGUE (WASATCH FM)	U						CDBF 02
WY 124	CATHEDRAL BLUFFS,TONGUE (WASATCH FM)	U						CDBF 04
MT 124	CATHEDRAL CLIFFS,FM (WASHBURN GP)	U						CDCF 01
WY 124	CATHEDRAL CLIFFS,FM (WASHBURN GP)	U	TF		460	NW	D	CDCF 02
TX 318	CATHEDRAL MOUNTAIN,FM	U	LS		350	WC	D	CDLM 01
CA 211	CATHEDRAL PEAK,GRANITE (TUOLUMNE GP)	U				C	A	CDPK 01
AK 101	CATHEDRAL VALLEY,AGGLOMERATE	U				SC	C	CDLV 01
TN 364	CATHEYS,FM (NASHVILLE GP)				30	C	A	CTYS 03
AL 364	CATHEYS,LS	U						CTYS 01
TN 364	CATHEYS,LS	U						CTYS 04
GA 364	CATHEYS,LS (NASHVILLE GP)							CTYS 05
TN 364	CATHEYS,LS (NASHVILLE GP)							CTYS 02
NV 371	CATLIN,MBR (WINDFALL FM)	U	LS		76	EC	C	CTLN 05
AZ 211	CAT MOUNTAIN,RHYOLITE				240	SC	C	CMNN 01
PA 420	CATOCTIN,FM							CTCN 15
VA 420	CATOCTIN,FM	U						CTCN 07
WV 420	CATOCTIN,FM	U						CTCN 12
MD 420	CATOCTIN,GREENSTONE	U			300	NC	A	CTCN 02
PA 420	CATOCTIN,GREENSTONE	U						CTCN 04
VA 420	CATOCTIN,GREENSTONE	U						CTCN 08
WV 420	CATOCTIN,GREENSTONE	U						CTCN 13



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA	347+	/CAYUGA,GP	U						CYUG 04
VA	347+	/CAYUGA,GP	U						CYUG 14
MD	351	/CAYUGA,GP	U						CYUG 06
PA	351	/CAYUGA,GP	U						CYUG 09
VA	351	/CAYUGA,GP	U						CYUG 12
WV	351	/CAYUGA,GP	U						CYUG 10
OR	111	[CAYUSE,BASALT]					SW	C	CYUS 02
OR	111	/CAYUSE,FLOW							CYUS 01
PA	341	CAYUTA,FM							CYUT 02
NY	341	CAYUTA,FM (WEST FALLS GP)				180	WC	A	CYUT 03
NY	341	CAYUTA,SH MBR (CHEMUNG FM)	U						CYUT 01
CA	121	/CEBADA,FINE-GRAINED MBR (CAREAGA SAND)	U			300	SC	C	CEBD 01
CA	121	/CEBADA,FINE-GRAINED MBR (CAREAGA SS)	U						CEBD 02
CA	121	[CEBADA,MBR (CAREAGA SAND)]							CEBD 03
CA	121	[CEBADA,MBR (CAREAGA SS)]							CEBD 04
CA	231	CEBAR,FM	U	LS			NW	A	CDBR 01
IL	332+	CEDAR BLUFF,GP							CDBF 05
KY	332+	CEDAR BLUFF,GP		LS		40	SW	C	CDBF 06
IL	333	CEDAR BLUFF,GP							CDBF 10
KY	333	CEDAR BLUFF,GP							CDBF 11
KS	112	CEDAR BLUFFS,TILL							CDBF 09
NE	112	CEDAR BLUFFS,TILL				5	EC	D	CDBF 01
UT	125	CEDAR BREAKS,FM		LS	PK	440	SW	D	CDBK 01
ID	112	CEDAR BUTTE,BASALT (SNAKE RIVER GP)	U			61	SE	A	CDRB 01
MO	344	CEDAR CITY,FM		LS		21	C	D	CDRC 06
UT	231	CEDAR CITY,TONGUE (KAYENTA FM)	U	MS		130	SW	C	CDRC 05
MD	351	CEDAR CLIFF,LS LENS (WILLS CREEK SH)				4	NW	A	CDCF 07
PA	351	CEDAR CLIFF,LS LENTIL (BLOOMSBURG FM)							CDCF 16
MD	351	CEDAR CLIFF,LS MBR (BLOOMSBURG FM)							CDCF 15
MD	351	CEDAR CLIFF,LS MBR (WILLIAMSPORT FM)							CDCF 08
WV	351	CEDAR CLIFF,LS MBR (WILLIAMSPORT SS)							CDCF 12
AK	341+	CEDAR COVE,FM	U	ARG,LS		810	SE	D	CDCV 03
AK	344	CEDAR COVE,FM	U						CDCV 04
WA	370	CEDAR CREEK,ARGILLITE				760	NE	A	CDCK 08
CO	123	CEDAR CREEK,MBR (WHITE RIVER FM)		SS		87	NE	A	CDCK 02
VA	231	CEDAR FOREST,FM (NEWARK GP)		SH,CGL	RD	27	SC	D	CDRF 01
IA	338	CEDAR FORK,MBR (BURLINGTON LS)				5	SE	D	CDFK 01
UT	324	CEDAR FORT,MBR (OQUIRRH FM)		QTZ		420	NC	C	CDRF 02
WV	324	CEDAR GROVE,SS [MBR] (KANAWHA FM)				40	SW	A	CDGV 01
CO	430	CEDAR GULCH,FM		GN		1200	NC	E	CDGC 02

NM	122	CEDAR HILL,ANDESITE			91	SW	D	CDHL	02
MD	307	CEDAR HILL,SERPENTINITE				NE	C	CDHL	04
PA	307	CEDAR HILL,SERPENTINITE						CDHL	05
NE	317	CEDAR HILLS,MBR (SALT FORK FM)						CDHL	03
OK	317	CEDAR HILLS,SS (EL RENO GP)	U					CDHL	08
KS	317	CEDAR HILLS,SS (NIPPEWALLA GP)	U					CDHL	07
FL	125	CEDAR KEYS,FM			23	SC	A	CDRK	01
GA	125	CEDAR KEYS,FM			160	NC	C	CDRK	03
FL	125	CEDAR KEYS,LS	U					CDRK	02
GA	125	CEDAR KEYS,LS	U					CDRK	04
NM	319	CEDAR MESA,FM						CDRM	10
AZ	317	CEDAR MESA,FM (CUTLER GP)						CDRM	08
UT	317	CEDAR MESA,FM (CUTLER GP)			300	SE	A	CDRM	12
AZ	317	CEDAR MESA,SS MBR (CUTLER FM)	U					CDRM	09
UT	317	CEDAR MESA,SS MBR (CUTLER FM)	U					CDRM	13
NM	319	CEDAR MESA,SS MBR (CUTLER FM)	U					CDRM	11
MN	430	CEDAR MOUNTAIN,COMPLEX		GAB,DRT	150	SW	C	CDRM	14
CO	217	CEDAR MOUNTAIN,FM	U					CDRM	02
UT	217	CEDAR MOUNTAIN,FM	U		83	SC	C	CDRM	06
CO	217	CEDAR MOUNTAIN,FM (DAKOTA GP)						CDRM	03
CO	217	CEDAR MOUNTAIN,SH (DAKOTA GP)						CDRM	05
TX	218	CEDAR PARK,MBR (WALNUT CLAY)			38	EC	A	CDPK	02
WY	112	CEDAR RIDGE,TILL	U		15	WC	C	CDRG	01
UT	122	CEDAR SPRING,MBR (COVE MOUNTAIN FM)		TF	91	SW	C	CSPG	05
OK	317	CEDAR SPRINGS,DOL MBR (BLAINE FM)			<1	NC	D	CSPG	21
TX	321	CEDARTON,SH (GRAFORD GP)			27	C	A	CDRN	07
TX	321	CEDARTON,SH MBR (BROOKESMITH FM)						CDRN	09
TX	321	CEDARTON,SH MBR (GRAFORD FM)	U					CDRN	08
OK	317	CEDARTOP,GYPSUM MBR (BLAINE FM)	U		3	C	A	CDRP	01
TX	318	CEDARTOP,GYPSUM MBR (BLAINE FM)	U					CDRP	04
OK	317	CEDARTOP,MBR (BLAINE GYPSUM)						CDRP	02
KS	322	CEDAR VALE,MBR (SCRANTON SH)			8	SE	A	CDVL	25
MO	322	CEDAR VALE,MBR (SCRANTON SH)						CDVL	24
NE	322	CEDAR VALE,MBR (SCRANTON SH)	U					CDVL	10
IA	322	CEDAR VALE,SH (WABAUNSEE GP)						CDVL	08
KS	322	CEDAR VALE,SH (WABAUNSEE GP)	U					CDVL	09
IA	344	CEDAR VALLEY,FM			18	EC	A	CDVL	11
IL	344	CEDAR VALLEY,FM						CDVL	13
MN	344	CEDAR VALLEY,FM						CDVL	15
IA	344	CEDAR VALLEY,LS	U					CDVL	12

ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IL	344	CEDAR VALLEY,LS	U						CDVL 14
CA	122+	CEDARVILLE,ANDESITE				2300	NC	A	CDVL 01
CA	123	CEDARVILLE,ANDESITE							CDVL 26
IN	354	CEDARVILLE,DOL	U						CDVL 17
OH	354	CEDARVILLE,DOL	U			29	WC	A	CDVL 18
OH	354	CEDARVILLE,DOL (DURBIN GP)							CDVL 19
IA	323	CEMENT CITY,LS MBR (CHANUTE SH)							CMNC 01
KS	323	CEMENT CITY,LS MBR (CHANUTE SH)							CMNC 03
NE	323	CEMENT CITY,LS MBR (CHANUTE SH)							CMNC 07
IA	323	CEMENT CITY,MBR (DRUM LS)	U						CMNC 02
KS	323	CEMENT CITY,MBR (DRUM LS)	U						CMNC 04
MO	323	CEMENT CITY,MBR (DRUM LS)	U			3	WC	A	CMNC 06
NE	323	CEMENT CITY,MBR (DRUM LS)	U						CMNC 08
AK	122+	CENOTAPH,VOLCS	U			380	EC	D	CNTP 01
AK	123	CENOTAPH,VOLCS	U						CNTP 02
OH	112	CENTERBURG,TILL					NC	D	CRBG 02
ID	122	/CENTER CREEK,FLOW (COLUMBIA RIVER BASALT)				52	WC	D	CRCK 08
ID	122	[CENTER CREEK,MBR (COLUMBIA RIVER BASALT)]							CRCK 38
NY	344	CENTERFIELD,FM				3	WC	A	CFLD 03
PA	344	CENTERFIELD,FM							CFLD 05
NY	344	CENTERFIELD,LS (HAMILTON GP)							CFLD 07
NY	344	CENTERFIELD,LS MBR (LUDLOWVILLE FM)	U						CFLD 04
PA	344	CENTERFIELD,MBR (LUDLOWVILLE FM)							CFLD 10
IN	112	CENTER GROVE,TILL MBR (TRAFALGAR FM)				5	C	D	CRGV 01
TN	341	CENTER HILL,BED (DOWELLTOWN MBR OF CHATTANOOGA SH)	U	BNT		<1	C	D	CRHL 03
CA	217	CENTER PEAK,CGL MBR (PANOCHÉ FM)				180	C	C	CRPK 04
NM	120	CENTER PEAK,LATITE				300	SW	D	CRPK 03
AR	212	CENTERPOINT,VOLCS			RD	75	SW	C	CNRP 02
IN	357	CENTERVILLE,CLAY							CRVL 24
OH	357	CENTERVILLE,CLAY							CRVL 26
IN	112	/CENTERVILLE,DRIFT				<1	WC	A	CRVL 01
IN	357	CENTERVILLE,FM					EC	D	CRVL 01
IN	357	CENTERVILLE,FM							CRVL 25
OH	357	CENTERVILLE,FM							CRVL 27
IN	112	/CENTERVILLE,TILL							CRVL 02
CA	122	[CENTRAL FEE,SS BEDS (SYCAMORE CANYON MBR OF PUENTE FM)]				320	SC	C	CRLF 01
CA	122	/CENTRAL FEE,SS UNIT (SYCAMORE CANYON MBR OF PUENTE FM)							CRLF 02
AL	307+	CENTRALHATCHEE,FM (HEARD GP)							CRLC 04
GA	307+	CENTRALHATCHEE,FM (HEARD GP)		MET			WC	E	CRLC 05
AL	400	CENTRALHATCHEE,FM (HEARD GP)							CRLC 08
GA	400	CENTRALHATCHEE,FM (HEARD GP)							CRLC 09

ID	112	CENTRAL PLATEAU,MBR (PLATEAU RHYOLITE)	U						CLPL	01	
MT	112	CENTRAL PLATEAU,MBR (PLATEAU RHYOLITE)	U						CLPL	02	
WY	112	CENTRAL PLATEAU,MBR (PLATEAU RHYOLITE)	U					NW	E	CLPL	03
AZ	112	[CENTRAL SHEBA,BASALT]						C	D	CLSB	02
AZ	112	/CENTRAL SHEBA,FLOW								CLSB	01
NY	347	CENTRAL VALLEY,SS					8	SE	C	CLVL	51
PA	354	CENTRE,SS MBR (ROSE HILL FM)					11	SC	A	CNTR	07
PA	364	CENTRE HALL,MBR (NEALMONT FM)		LS			5	C	A	CRHL	05
NM	319	CERRO ALTO,LS (HUECO GP)								CRAL	01
TX	319	CERRO ALTO,LS (HUECO GP)					140	WC	D	CRAL	02
IA	341	CERRO GORDO,MBR (LIME CREEK FM)			SH		6	NC	A	CRGD	03
NM	112	CERRO RUBIO,QUARTZ LATITE (TEWA GP)	U					NC	D	CRRB	01
CA	125	CERROS,SH MBR (LODO FM)	U				190	C	C	CRRS	04
NM	112	CERROS DEL RIO,BASALT					240	NC	D	CDLR	01
NM	112	CERRO TOLEDO,RHYOLITE (TEWA GP)	U					NC	D	CTLD	01
PA	341	CHADAKOIN,FM								CDKN	03
NY	341	CHADAKOIN,FM (ARKWRIGHT GP)			STS		130	WC	A	CDKN	04
NY	341	CHADAKOIN,GP								CDKN	01
PA	341	CHADAKOIN,GP								CDKN	02
MT	123	CHADRON,FM								CDRN	02
CO	123	CHADRON,FM (WHITE RIVER GP)	U							CDRN	01
ND	123	CHADRON,FM (WHITE RIVER GP)	U							CDRN	03
NE	123	CHADRON,FM (WHITE RIVER GP)	U		CL		18	NW	A	CDRN	04
SD	123	CHADRON,FM (WHITE RIVER GP)	U							CDRN	05
WY	123	CHADRON,FM (WHITE RIVER GP)	U							CDRN	06
KY	327+	CHADWELL,MBR (LEE FM)	U		SS		55	SE	D	CDLL	06
VA	327+	CHADWELL,MBR (LEE FM)								CDLL	07
KY	331	CHADWELL,MBR (LEE FM)	U							CDLL	08
VA	331	CHADWELL,MBR (LEE FM)								CDLL	09
CO	337+	CHAFFEE,GP	U		SS,SH		49	C	A	CHFF	02
CO	341	CHAFFEE,GP	U							CHFF	01
TX	321	CHAFFIN,FM (THRIFTY GP)					6	C	A	CFFN	01
TX	321	CHAFFIN,LS MBR (THRIFTY FM)	U							CFFN	02
OH	341	CHAGRIN,MBR (OHIO SH)					150	NE	A	CGRN	01
OH	341	CHAGRIN,SH	U							CGRN	02
AK	112	CHAGVAN,DRIFT					53	C	D	CGVN	01
NV	331+	CHAINMAN,FM	U				76	EC	A	CNMN	07
NV	337	CHAINMAN,FM	U							CNMN	10
CA	331	CHAINMAN,SH	U							CNMN	06
NV	331+	CHAINMAN,SH	U							CNMN	08



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT	331	CHAINMAN,SH	U						CNMN 09
NV	337	CHAINMAN,SH	U						CNMN 11
IL	333	CHALFIN,MBR (SALEM LS)							CLFN 04
ID	121	CHALK BUTTE,FM (IDAHO GP)				17	SW	C	CLKB 01
OR	121	CHALK BUTTE,FM (IDAHO GP)							CLKB 02
UT	211	CHALK CREEK,MBR (FRONTIER FM)		CGL,SS		160	EC	D	CKCK 12
ID	121	CHALK HILLS,FM (IDAHO GP)	U	SS		960	NE	C	CLKH 01
LA	122	CHALK HILLS,MBR (CATAHOULA FM)		ST,SD		91	SW	D	CLKH 02
CA	111	CHALK MOUNTAIN,DACITE		TF		2	NC	C	CLKM 01
CO	123	CHALK MOUNTAIN,RHYOLITE	U				NW	A	CLKM 06
ID	123+	[CHALLIS,GP]				1700	C	A	CLLS 14
ID	124	[CHALLIS,GP]							CLLS 15
ID	125	[CHALLIS,GP]							CLLS 16
ID	123+	/CHALLIS,VOLC GP							CLLS 10
ID	124	/CHALLIS,VOLC GP							CLLS 11
ID	125	/CHALLIS,VOLC GP							CLLS 12
ID	123+	CHALLIS,VOLCS	U						CLLS 02
MT	123+	CHALLIS,VOLCS							CLLS 06
ID	124	CHALLIS,VOLCS	U						CLLS 03
MT	124	CHALLIS,VOLCS							CLLS 07
ID	125	CHALLIS,VOLCS	U						CLLS 04
MT	125	CHALLIS,VOLCS							CLLS 08
MS	125	CHALYBEATE,LS MBR (CLAYTON FM)	U			24	NE	C	CLBT 01
NM	121	CHAMA-EL RITO,MBR (TESUQUE FM)		SS		12	NC	E	CMER 01
NM	357	CHAMBERINO,MBR (FUSSELMAN DOL)							CMER 02
TX	357	CHAMBERINO,MBR (FUSSELMAN DOL)				80	WC	D	CMBR 03
MT	420	CHAMBERLAIN,SH (BELT SUPERGROUP)				630	C	A	CMBL 02
TX	123	CHAMBERS,TUFF (VIEJA GP)				170	WC	C	CMBR 01
MD	364	CHAMBERSBURG,LS	U						CBBG 01
PA	364	CHAMBERSBURG,LS	U			300	SC	A	CBBG 02
VA	364	CHAMBERSBURG,LS	U						CBBG 03
WV	364	CHAMBERSBURG,LS	U						CBBG 04
WV	364	CHAMBERSBURG,LS (TRENTON GP)							CBBG 05
CA	377	CHAMBLESS,LS	U			67	SE	C	CMBL 01
CA	122	CHAMISAL,FM				240	WC	D	CMSL 01
NM	122	CHAMISA MESA,MBR (ZIA SAND)		SS,CGL		91	NC	D	CMSM 01
NM	121	CHAMITA,FM (SANTA FE GP)		TF		310	NC	E	CHMT 01
MO	341	CHAMP CLARK,GP		SED		16	NE	C	CPCK 15
KS	217	CHAMPION,SHELL BED (KIOWA SH)				1	SC	A	CPMN 01
WI	364	CHANA,BED (PECATONICA MBR OF PLATTEVILLE FM)							CHAN 03

IA	364	CHANA,MBR (PECATONICA FM)										CHAN	02			
IL	364	CHANA,MBR (PECATONICA FM)										CHAN	01			
CA	121	CHANAC,FM										CHNC	01			
TN	371	CHANCES BRANCH,DOL MBR (MAYNARDVILLE LS)	U	SD			180		C		A	CCBC	01			
VA	371	CHANCES BRANCH,DOL MBR (MAYNARDVILLE LS)	U				64		SW		C	CCBC	02			
CA	340	CHANCELULLA,FM										CCLL	04			
CA	340	/CHANCELULLA,GREENSTONE										CCLL	05			
AK	211+	CHANDLER,FM (NANUSHUK GP)	U	SS,CGL			1400		NC		C	CDLR	03			
AK	217	CHANDLER,FM (NANUSHUK GP)	U									CDLR	04			
MI	364	CHANDLER FALLS,FM (TRENTON GP)										CDLF	03			
MI	364	CHANDLER FALLS,MBR (TRENTON FM)										CDLF	01			
ME	347+	CHANDLER POND,FM (EAST BRANCH GP)										CDPD	01			
ME	351	CHANDLER POND,FM (EAST BRANCH GP)										CDPD	02			
ME	364	CHANDLER RIDGE,FM (MEDUXNEKEAG GP)	U	SL,GYK			1500		NE		D	CDRG	02			
OK	317	CHANEY,GYPSUM MBR (FLOWERPOT SH)										CHNY	02			
TX	318	CHANEY,GYPSUM MBR (FLOWERPOT SH)										CHNY	04			
OK	317	CHANEY,MBR (BLAINE GYPSUM)	U									CHNY	03			
TX	318	CHANEY,MBR (BLAINE GYPSUM)	U									CHNY	05			
CA	124	CHANEY RANCH,SS										CNRC	02			
PA	344	CHANEYSVILLE,SS MBR (MAHANTANGO FM)										CSVL	06			
WV	344	CHANEYSVILLE,STS MBR (MAHANTANGO FM)										CSVL	08			
OK	323	CHANUTE,FM (OCHELATA GP)	U									CHNT	06			
IA	323	CHANUTE,SH (KANSAS CITY GP)	U									CHNT	02			
KS	323	CHANUTE,SH (KANSAS CITY GP)	U									CHNT	03			
MO	323	CHANUTE,SH (KANSAS CITY GP)	U									CHNT	04			
NE	323	CHANUTE,SH (KANSAS CITY GP)	U									CHNT	05			
CA	100	CHAOS CRAGS,DACITE										NW	CCRG	01		
CA	111	CHAOS JUMBLES,DACITE										NW	CJMB	01		
IL	323	CHAPEL,COAL MBR (MODESTO FM)										<1	NC	CHPL	04	
MI	371	CHAPEL ROCK,SS MBR (MUNISING FM)										18	C	CPRK	03	
IA	339	CHAPIN,FM (NORTH HILL GP)										9	NC	A	CHPN	02
IA	339	CHAPIN,MBR (HAMPTON FM)													CHPN	01
AK	231	CHAPIN PEAK,FM	U	VOL			460		SE		E	CPPK	02			
AZ	121	CHAPIN WASH,FM	U	ALV			460		WC		C	CPWS	01			
ME	347	CHAPMAN,SS (DOCKENDORFF GP)	U									150	NE	A	CPMN	05
OK	367	CHAPMAN RANCH,FM (ARBUCKLE GP)										44	SE	A	CPMR	01
OK	367	CHAPMAN RANCH,MBR (MCKENZIE HILL FM)													CPMR	02
TN	364	CHAPMAN RIDGE,SS (CHICKAMAUGA GP)	U									270	EC	C	CPRG	03
AZ	217	CHAPPARAL,SS [BED] (SAAVEDRA MBR OF LOWELL FM)										7	SE	C	CPRL	01
TX	337	CHAPPEL,LS	U									46	C	A	CPPL	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY 124+	CHAPPO,MBR (WASATCH FM)	U	MS		150	SW	D	CHPP 01
WY 125	CHAPPO,MBR (WASATCH FM)	U						CHPP 02
NV 367	CHARCOAL CANYON,FM (CLIPPER CANYON GP)		ARG,CH		700	C	C	CCLC 01
OH 337	CHARDON,STS MBR (ORANGEVILLE SH)	U			2	NE	A	CRDN 01
ND 121	CHARGING EAGLE,FM		SD,ST		14	WC	E	CGGE 01
AK 112	CHARIOT,GRAVEL	U			8	NC	D	CHRT 01
IA 323	CHARITON,CGL MBR (PLEASANTON FM)	U			4	SC	A	CRTN 06
MO 323	CHARITON,CGL MBR (PLEASANTON FM)	U						CRTN 08
MT 331	CHARLES,FM (MADISON GP)	U	LS,DOL		230	EC	C	CRLS 10
ND 331	CHARLES,FM (MADISON GP)	U						CRLS 12
SD 331	CHARLES,FM (MADISON GP)	U						CRLS 13
WV 321+	CHARLESTON,SS				130	WC	A	CRLS 07
WV 324	CHARLESTON,SS							CRLS 08
MI 344	CHARLEVOIX,LS (TRAVERSE GP)				9	C	A	CLVX 01
MT 112	CHARLOS,DRIFT					WC	E	CRLS 17
ME 367	[CHARLOTTE,FM]		ARG			CAN	B	CRLT 06
ME 367	/CHARLOTTE,GP							CRLT 03
ME 347	/CHARLOTTE,GRANITE					EC	E	CRLT 05
VA 400	CHARLOTTESVILLE,FM		MET			C	C	CLVL 53
FL 121	CHARLTON,FM	U						CRLN 03
GA 121	CHARLTON,FM	U	LS,CL			SE	A	CRLN 04
IL 371	CHARTER,MBR (MOUNT SIMON SS)				96	NE	C	CRTR 03
KS 317	CHASE,GP	U	LS,SH		80	EC	A	CHSE 01
NE 317	CHASE,GP	U						CHSE 02
OK 317	CHASE,GP	U						CHSE 03
ME 370	CHASE BROOK,FM		SL		760	NC	E	CBRK 02
KS 112	CHASE CHANNEL,FM		SED		18	C	C	CSCL 01
ME 364	CHASE LAKE,FM		GYK		610	NC	E	CSLK 01
CO 430	CHASE RANCH,QTZ MBR (CRESSMANS GULCH FM)				6	NC	E	CSRC 02
AK 112	CHATANIKA,ASH BED (GOLDSTREAM FM)	U		WH	<1	EC	E	CTNK 01
NH 341	CHATHAM,GRANITE (NEW HAMPSHIRE GP)					EC	A	CHTM 02
VA 364	CHATHAM HILL,LS				140	SW	C	CMHL 02
AR 337+	CHATTANOOGA,SH	U						CTNG 01
GA 337+	CHATTANOOGA,SH	U						CTNG 02
KS 337+	CHATTANOOGA,SH	U						CTNG 03
KY 337+	CHATTANOOGA,SH	U						CTNG 21
OK 337+	CHATTANOOGA,SH	U						CTNG 05
TN 337+	CHATTANOOGA,SH	U		BK	11	SC	A	CTNG 06
VA 337+	CHATTANOOGA,SH	U						CTNG 07
MO 339+	CHATTANOOGA,SH	U						CTNG 04

TN	339+	CHATTANOOGA,SH	U							CTNG	22	
AL	341	CHATTANOOGA,SH	U							CTNG	08	
AR	341	CHATTANOOGA,SH	U							CTNG	09	
GA	341	CHATTANOOGA,SH	U							CTNG	10	
KS	341	CHATTANOOGA,SH	U							CTNG	11	
KY	341	CHATTANOOGA,SH	U							CTNG	12	
MO	341	CHATTANOOGA,SH	U							CTNG	13	
MS	341	CHATTANOOGA,SH								CTNG	14	
OK	341	CHATTANOOGA,SH	U							CTNG	15	
TN	341	CHATTANOOGA,SH	U							CTNG	16	
VA	341	CHATTANOOGA,SH	U							CTNG	17	
SC	377+	CHAUGA RIVER,FM			DOL			NW	D	CGRV	02	
SC	410	CHAUGA RIVER,FM								CGRV	03	
NY	364	CHAUMONT,FM (BLACK RIVER GP)						9	NC	A	CMNT 01	
NY	364	CHAUMONT,LS (BLACK RIVER GP)									CMNT 02	
NM	221	CHAVEZ,MBR (MORRISON FM)			SS,STS			49	NW	C	CHVZ 01	
NY	364	HAZY,GP	U					46	NE	A	CHZY 01	
VT	364	HAZY,GP	U								CHZY 03	
NY	364	HAZY,LS	U								CHZY 02	
VT	364	HAZY,LS	U								CHZY 04	
AL	304	CHEAHA,QTZ (TALLADEGA GP)									CHEH 05	
AL	304	CHEAHA,QTZ MBR (TALLADEGA FM)							NE	A	CHEH 01	
GA	304	CHEAHA,QTZ MBR (TALLADEGA FM)									CHEH 03	
AL	304	CHEAHA,SS MBR (TALLADEGA SLATE)	U								CHEH 02	
GA	304	CHEAHA,SS MBR (TALLADEGA SLATE)	U								CHEH 04	
KS	323	CHECKERBOARD,LS (PLEASANTON GP)	U								CCKB 02	
OK	323	CHECKERBOARD,LS (SKIATOOK GP)	U								CCKB 03	
OK	323	CHECKERBOARD,LS MBR (COFFEYVILLE FM)						1	EC	A	CCKB 04	
AZ	420	CHEDISKI,SS MBR (TROY QTZ)	U					30	EC	A	CDSK 01	
WA	221	CHELAN,COMPLEX								NC	A	CHLN 02
WA	221	CHELAN,GRANODIORITE										CHLN 01
NV	350	CHELLIS,LS						580	NC	D	CLLS 05	
MA	340	CHELMSFORD,GRANITE							NE	E	CMFD 01	
KS	325	CHELSEA,SS MBR (CABANISS FM)	U								CHLS 04	
MO	325	CHELSEA,SS MBR (SCAMMON FM)									CHLS 05	
OK	325	CHELSEA,SS MBR (SCAMMON FM)						9	NE	A	CHLS 06	
OK	325	CHELSEA,SS MBR (SENORA FM)	U								CHLS 07	
IL	325	CHELTENHAM,CLAY MBR (SPOON FM)									CLNM 01	
MO	326	CHELTENHAM,FM			CL			11	EC	A	CLNM 03	
LA	125	CHEMARD LAKE,LIGNITE LENTIL (NABORTON FM)						3	NW	C	CMLK 01	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AZ	112	CHEMEHUEVI,FM	U	SD,ST		210	NW	A	CHMV 01
CA	112	CHEMEHUEVI,FM							CHMV 03
NV	112	CHEMEHUEVI,FM	U						CHMV 02
MD	341	CHEMUNG,FM	U						CMNG 01
NY	341	CHEMUNG,FM	U	SS,SH			C	A	CMNG 02
PA	341	CHEMUNG,FM	U						CMNG 05
VA	341	CHEMUNG,FM	U						CMNG 08
WV	341	CHEMUNG,FM	U						CMNG 09
NY	341	CHEMUNG,FM (CONNEAUT GP)							CMNG 04
PA	341	CHEMUNG,FM (CONNEAUT GP)							CMNG 07
NY	341	CHEMUNG,GP							CMNG 11
WV	341	CHEMUNG,GP							CMNG 10
AK	111+	CHENA,ALLUVIUM	U			120	EC	E	CHEN 01
AK	112	CHENA,ALLUVIUM	U						CHEN 02
NY	344	CHENANGO,SS (HAMILTON GP)				18	C	C	CNNG 14
NY	344	CHENANGO,SS MBR (SKANEATELES SH)							CNNG 11
ID	124	CHENEY,VOLCS (CHALLIS GP)				610	C	D	CHNY 01
AZ	400	CHENEY GULCH,GRANITE	U				WC	C	CGLC 01
AL	367	CHEPULTEPEC,DOL	U			300	NC	A	CPPC 01
TN	367	CHEPULTEPEC,DOL (BEEKMANTOWN GP)							CPPC 09
AL	367	CHEPULTEPEC,DOL (KNOX GP)							CPPC 02
GA	367	CHEPULTEPEC,DOL (KNOX GP)	U						CPPC 03
KY	367	CHEPULTEPEC,DOL (KNOX GP)	U						CPPC 10
TN	367	CHEPULTEPEC,DOL (KNOX GP)	U						CPPC 05
VA	367	CHEPULTEPEC,DOL (KNOX GP)	U						CPPC 11
GA	367	CHEPULTEPEC,FM							CPPC 04
WV	367	CHEPULTEPEC,FM							CPPC 08
TN	367	CHEPULTEPEC,FM (KNOX GP)							CPPC 06
VA	367	CHEPULTEPEC,FM (KNOX GP)							CPPC 07
MI	420	CHEQUAMEGON,SS (BAYFIELD GP)	U						CQMG 02
WI	420	CHEQUAMEGON,SS (BAYFIELD GP)	U			300	NW	A	CQMG 01
IA	325	CHEROKEE,GP							CHRK 01
KS	325	CHEROKEE,GP	U			150	SE	A	CHRK 03
MO	325	CHEROKEE,GP	U						CHRK 05
IA	325	CHEROKEE,SH	U						CHRK 02
KS	325	CHEROKEE,SH	U						CHRK 04
MO	325	CHEROKEE,SH	U						CHRK 06
NE	325	CHEROKEE,SH	U						CHRK 07
MA	307+	CHERRY BROOK,FM	U	AMP		1200	C	E	CRBK 01
MA	410	CHERRY BROOK,FM	U						CRBK 02

NM	313	CHERRY CANYON,FM (DELAWARE MOUNTAIN GP)	U									CRCN	02
TX	313	CHERRY CANYON,FM (DELAWARE MOUNTAIN GP)	U	SS		300	WC	C				CRCN	03
MT	430	[CHERRY CREEK,FM]		GN		2100	SC	A				CRCK	37
MT	430	/CHERRY CREEK,GP	U									CRCK	33
NM	123	CHERRY CREEK,QUARTZ LATITE						SW	D			CRCK	11
MT	430	/CHERRY CREEK,SER										CRCK	35
MA	301	CHERRY HILL,GRANITE	U					NE	D			CRHL	01
WA	112	CHERRY POINT,CLAY					91	NW	D			CRPN	01
PA	341	CHERRY RIDGE,MBR (CATSKILL FM)	U	SH		50	NE	A				CRDG	06
MD	347	CHERRY RUN,MBR (LICKING CREEK LS)		SH,LS		26	NW		E			CRRN	03
PA	347	CHERRY RUN,MBR (LICKING CREEK LS)										CRRN	02
VA	347	CHERRY RUN,MBR (LICKING CREEK LS)										CRRN	04
WV	347	CHERRY RUN,MBR (LICKING CREEK LS)										CRRN	01
IA	323	CHERRYVALE,FM (KANSAS CITY GP)	U									CRVL	10
MO	323	CHERRYVALE,FM (KANSAS CITY GP)	U									CRVL	41
NE	323	CHERRYVALE,FM (KANSAS CITY GP)	U									CRVL	13
KS	323	CHERRYVALE,SH (KANSAS CITY GP)	U			18	SE	A				CRVL	11
MO	323	CHERRYVALE,SH (KANSAS CITY GP)										CRVL	12
NY	344	CHERRY VALLEY,LS MBR (MARCELLUS SH)	U			1	C	A				CRVL	22
NC	304	CHERRYVILLE,QUARTZ MONZONITE	U					C	C			CRVL	05
SC	304	CHERRYVILLE,QUARTZ MONZONITE	U									CRVL	06
NC	112+	CHESAPEAKE,GP	U									CSPK	09
MD	121+	CHESAPEAKE,GP	U	CL,SD		300	SE	A				CSPK	02
NC	121	CHESAPEAKE,GP	U									CSPK	03
VA	121+	CHESAPEAKE,GP	U									CSPK	04
DE	122	CHESAPEAKE,GP	U									CSPK	05
MD	122	CHESAPEAKE,GP	U									CSPK	06
NC	122	CHESAPEAKE,GP	U									CSPK	07
VA	122	CHESAPEAKE,GP	U									CSPK	08
OK	322	CHESHEWALLA,SS MBR (VAMOOSA FM)	U			15	NE	A				CSLL	01
VT	377	CHESHIRE,FM										CHSR	05
CT	377	CHESHIRE,QTZ	U									CHSR	01
MA	377	CHESHIRE,QTZ	U			240	NW	A				CHSR	02
NY	377	CHESHIRE,QTZ										CHSR	04
VT	377	CHESHIRE,QTZ	U									CHSR	03
CT	377	CHESTER,AMPHIBOLITE										CSTR	06
MA	377	CHESTER,AMPHIBOLITE			GN	910	WC	A				CSTR	07
VT	377	CHESTER,AMPHIBOLITE										CSTR	08
VT	377	CHESTER,AMPHIBOLITE MBR (PINNEY HOLLOW FM)										CSTR	09
MA	377	CHESTER,AMPHIBOLITE MBR (ROWE SCHIST)	U									CSTR	10

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CT	377	/CHESTER,HORNBLENDITE							CSTR 05
ID	331	CHESTERFIELD RANGE,GP	U	SS,LS		580	SE	D	CFRG 01
UT	331	CHESTERFIELD RANGE,GP	U						CFRG 02
AL	327	CHESTNUT,SS MBR (POTTSVILLE FM)	U			30	NC	A	CSTN 01
PA	337	CHESTNUT RIDGE,SS				210	SW	C	CRDG 05
ME	350	CHESUNCOOK,LS				110	NC	C	CSCK 03
WA	227+	CHEWACK RIVER,GNEISS					NC	E	CKRV 02
WA	230	CHEWACK RIVER,GNEISS							CKRV 03
AL	307	CHEWACLA,MARBLE (PINE MOUNTAIN GP)	U				EC	A	CHCL 01
KS	217	CHEYENNE,SS	U			12	SC	A	CYNN 02
CO	217	CHEYENNE,SS MBR (PURGATOIRE FM)	U						CYNN 01
NM	217	CHEYENNE,SS MBR (PURGATOIRE FM)							CYNN 05
OK	217	CHEYENNE,SS MBR (PURGATOIRE FM)	U						CYNN 03
AZ	211	CHIAPUK,RHYOLITE	U			61	SC	D	CHPK 01
KS	317	CHICAGO MOUND,FM		LS,SH		7	EC	C	CCGM 01
NE	317	CHICAGO MOUND,FM							CCGM 02
CA	211	CHICKABALLY,MUDSTONE MBR (BUDDEN CANYON FM)				1100	NW	D	CCKB 01
OK	320	CHICKACHOC,CHERT	U			24	SE	A	CCKC 03
VA	124	CHICKAHOMINY,FM	U	CL		24	SE	C	CCKM 02
AK	125	CHICKALOON,FM	U	SH,SS		610	C	A	CCKL 01
TN	361+	CHICKAMAUGA,GP				550	SC	A	CKMG 09
TN	364	CHICKAMAUGA,GP							CKMG 10
AL	361+	CHICKAMAUGA,LS	U						CKMG 01
GA	361+	CHICKAMAUGA,LS	U						CKMG 02
TN	361+	CHICKAMAUGA,LS	U						CKMG 03
VA	361+	CHICKAMAUGA,LS	U						CKMG 04
AL	364	CHICKAMAUGA,LS	U						CKMG 05
GA	364	CHICKAMAUGA,LS	U						CKMG 06
TN	364	CHICKAMAUGA,LS	U						CKMG 07
VA	364	CHICKAMAUGA,LS	U						CKMG 08
GA	364	CHICKAMAUGA,SUPERGROUP							CKMG 13
AR	331	CHICKASAW CREEK,FM (STANLEY GP)							CKCK 19
OK	331	CHICKASAW CREEK,FM (STANLEY GP)							CKCK 15
AR	331	CHICKASAW CREEK,MBR (STANLEY SH)	U			82	SE	C	CKCK 20
OK	331	CHICKASAW CREEK,SH (STANLEY GP)	U						CKCK 16
AL	123	CHICKASAWHAY,FM							CCKS 08
MS	123	CHICKASAWHAY,FM	U			17	SE	A	CCKS 07
AL	123	CHICKASAWHAY,LS	U						CCKS 01
FL	123	CHICKASAWHAY,LS	U						CCKS 09
MS	123	CHICKASAWHAY,LS	U						CCKS 02

OK	317	CHICKASHA,FM (EL RENO GP)	U	SS,SH	70	C	A	CCKS	03	
OK	317	CHICKASHA,TONGUE (FLOWERPOT SH)						CCKS	06	
NV	123+	/CHICKEN CREEK,FM		ASH	1	NE	D	CKCK	08	
NV	124	/CHICKEN CREEK,FM						CKCK	10	
UT	124	CHICKEN CREEK,TUFF . . . . .				WC	D	CKCK	11	
PA	410	CHICKIES,FM	U		300	SC	A	CCKS	04	
NJ	410	CHICKIES,QTZ						CCKS	05	
PA	410	CHICKIES,QTZ	U					CCKS	10	
CA	211+	CHICO,FM	U	SS,SH	6400	NW	A	CHCO	02	
CA	217	CHICO,FM . . . . .	U					CHCO	04	
NM	110	CHICO,PHONOLITE				GN	NE	C	CHCO	01
CA	122	CHICO MARTINEZ,CHERT MBR (MONTEREY FM)			210	SC	C	CCMZ	01	
CA	304+	CHICOPEE CANYON,FM		QTZ	440	SE	C	CCPC	02	
CA	307	CHICOPEE CANYON,FM						CCPC	03	
TX	321	CHICO RIDGE,LS [MBR] (GRAFORD FM) . . . . .			100	NE	A	CCRG	02	
AZ	200	CHICO SHUNIE,QUARTZ MONZONITE	U			SC	C	CCSN	01	
AK	211	CHIGNIK,FM	U	CGL,SS	180	SC	A	CGNK	01	
KS	317	CHIKASKIA,SS MBR (HARPER STS)			38	SC	C	CKSK	03	
OK	317	CHIKASKIA,SS MBR (HARPER STS)						CKSK	04	
TX	313	CHILDRESS,DOL MBR (MARLOW FM) . . . . .	U		1	NC	A	CLDR	03	
AZ	121	CHILDS,LATITE	U		210	SC	C	CLDS	01	
MD	377+	CHILHOWEE,GP	U					CHLH	02	
NC	377	CHILHOWEE,GP	U					CHLH	03	
PA	377+	CHILHOWEE,GP	U					CHLH	04	
TN	377	CHILHOWEE,GP . . . . .	U	SS,SH	910	EC	A	CHLH	05	
VA	377+	CHILHOWEE,GP	U					CHLH	06	
WV	377+	CHILHOWEE,GP	U					CHLH	07	
MD	410	CHILHOWEE,GP	U					CHLH	15	
PA	410	CHILHOWEE,GP	U					CHLH	11	
VA	410	CHILHOWEE,GP . . . . .	U					CHLH	09	
WV	410	CHILHOWEE,GP	U					CHLH	14	
GA	377	/CHILHOWEE,GP (UNDIVIDED)	U					CHLH	01	
TN	377	CHILHOWEE,SUPERGROUP						CHLH	14	
WA	301+	[CHILLIWACK,COMPLEX]		SED		NC	C	CLCK	63	
WA	304	[CHILLIWACK,COMPLEX] . . . . .						CLCK	64	
WA	301+	/CHILLIWACK,GP						CLCK	24	
WA	304	/CHILLIWACK,GP						CLCK	25	
SD	217	CHILSON,MBR (LAKOTA FM)	U	SS	110	SW	D	CLSN	04	
WY	217	CHILSON,MBR (LAKOTA FM)	U					CLSN	05	
AZ	200	CHILTEPINES,MBR (PITOIKAM FM) . . . . .	U	SH		SC	D	CLPS	01	



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WV	324	CHILTON,SS [MBR] (KANAWHA FM)				15	SW	A	CLTN 14
KS	357	CHIMNEYHILL,DOL							CMNL 03
OK	357	CHIMNEYHILL,LS (HUNTON GP)	U			23	SC	A	CMNL 07
WY	211	CHIMNEY ROCK,TONGUE (ROCK SPRINGS FM)		SS			SW	C	CMRK 01
CA	121	CHINA HAT,GRAVEL				12	C	D	CHHT 01
NV	237	CHINA MOUNTAIN,FM (KOIPATO GP)	U	CGL,SS		150	NC	C	CNMN 03
CA	112+	/CHINA RANCH,BEDS		CL		370	EC	C	CNRC 01
CA	121	/CHINA RANCH,BEDS							CNRC 03
CA	112+	[CHINA RANCH,FM]							CNRC 04
CA	121	[CHINA RANCH,FM]							CNRC 05
TX	313	CHINA TANK,MBR (WORD FM)	U	LS		34	WC	D	CNTK 01
TX	317+	[CHINATI,GP]		SH,CGL		1800	WC	A	CHNT 09
TX	321	[CHINATI,GP]							CHNT 07
TX	324	[CHINATI,GP]							CHNT 08
TX	317+	/CHINATI,SER							CHNT 01
TX	321	/CHINATI,SER							CHNT 10
TX	324	/CHINATI,SER							CHNT 11
TX	121	[CHINATI MOUNTAIN,VOLCS]				1100	WC	C	CNMN 01
TX	121	/CHINATI MOUNTAIN,VOLC SER							CNMN 02
AK	224	CHINITNA,FM	U			730	C	A	CNTN 01
AK	224	CHINITNA,STS	U						CNTN 03
AZ	231	CHINLE,FM	U	SH		300	NE	A	CHNL 01
NV	231	CHINLE,FM	U						CHNL 04
UT	231	CHINLE,FM	U						CHNL 05
CO	231	CHINLE,FM (DOCKUM GP)	U						CHNL 02
NM	231	CHINLE,FM (DOCKUM GP)	U						CHNL 03
AZ	420	CHINO CREEK,GRANITE					NC	D	CCRK 25
CA	301	[CHINO QUARRY,FM]							CNQR 03
CA	301	CHINO QUARRY,LS				140	SE	A	CNQR 02
CA	301	/CHINO QUARRY,QTZ				>23	SE	A	CNQR 01
AZ	370	CHINO VALLEY,FM	U	SS		27	NW	E	CNVL 23
CA	217	CHINQUAPIN,METABASALT MBR (SOUTH FORK MOUNTAIN SCHIST)	U				NW	D	CNQP 01
VT	367	CHIPMAN,DOL (STOCKBRIDGE GP)					WC	C	CPMN 09
VT	367	CHIPMAN,FM (BEEKMANTOWN GP)							CPMN 06
AL	122	CHIPOLA,FM	U						CHPL 01
FL	122	CHIPOLA,FM (ALUM BLUFF GP)	U	CL,SD		3	NW	A	CHPL 02
GA	122	CHIPOLA,FM (ALUM BLUFF GP)	U						CHPL 03
NY	400	CHIPPEWA,GRANITE					NW	A	CHPP 03
WI	430	CHIPPEWA,QTZ	U			91	WC	A	CHPP 04
ME	340	CHIPUTNETICOOK,QUARTZ MONZONITE	U				NE	D	CPCK 16

AZ	317	CHIRICAHUA,LS (NACO GP)			240	SE	A	CHRC	02
NM	318	CHIRICAHUA,LS (NACO GP)						CHRC	03
AK	104	CHIRIKOF,FM	U	CGL,SS	60	SW	E	CRKF	01
AK	217	CHISANA,FM	U	VOL GN	3000	EC	E	CHSN	01
AZ	374	CHISHOLM,FM						CSLM	03
CA	374	CHISHOLM,FM						CSLM	06
NV	374	CHISHOLM,FM			38	EC	A	CSLM	09
UT	374	CHISHOLM,FM						CSLM	12
AZ	374	CHISHOLM,SH						CSLM	04
CA	374	CHISHOLM,SH						CSLM	07
NV	374	CHISHOLM,SH	U					CSLM	10
UT	374	CHISHOLM,SH	U					CSLM	13
KS	317	CHISHOLM CREEK,SH MBR (WELLINGTON FM)			12	SC	C	CMCK	07
AK	221	CHISIK,CGL MBR (NAKNEK FM)	U		180	C	A	CHSK	03
AK	320+	CHISNA,FM	U	TF,QTZ		EC	A	CHSN	03
AK	330	CHISNA,FM	U					CHSN	04
TX	123+	CHISOS,FM (BIG BEND PARK GP)		VOL	610	SW	A	CHSS	01
TX	124	CHISOS,FM (BIG BEND PARK GP)						CHSS	04
TX	123+	CHISOS,FM (BOFECILLOS GP)						CHSS	03
TX	124	CHISOS,FM (BOFECILLOS GP)						CHSS	05
NV	122	CHISPA,ANDESITE	U			C	A	CHSP	01
TX	212	CHISPA SUMMIT,FM		CL	>250	WC	A	CPSM	01
TX	122	CHITA,SAND MBR (CATAHOULA FM)			24	EC	A	CHIT	01
AK	231	CHITISTONE,LS	U		150	EC	A	CTSN	01
AK	211+	CHITITU,FM	U	MS,SH	1700	EC	E	CHTT	01
AK	217	CHITITU,FM	U					CHTT	02
AK	122	CHITKA POINT,FM		VOL	300	SW	C	CKPN	01
NY	344	CHITTENANGO,MBR (MARCELLUS SH)			37	C	A	CNNG	12
NY	344	CHITTENANGO,SH MBR (MARCELLUS FM)						CNNG	15
AZ	200	CHIULI SHAIK,FM	U	VSED	610	SC	D	CLSK	01
UT	331	CHIULOS,SH MBR (GREAT BLUE FM)	U		550	WC	C	CHLS	08
MS	212	CHIWAPA,SS MBR (RIPLEY FM)	U		24	NE	C	CHWP	01
WA	370+	CHIWAUKUM,SCHIST				C	C	CHKM	01
WA	400	CHIWAUKUM,SCHIST						CHKM	02
AZ	420	CHLORIDE,GRANITE	U			NW	C	CLRD	37
NV	122	CHLOROPAGUS,FM		VSED	580	NW	A	CLPG	02
MI	430	CHOCOLAY,GP (MARQUETTE RANGE SUPERGROUP)	U	QTZ,DOL		NC	C	CCLY	01
WI	430	CHOCOLAY,GP (MARQUETTE RANGE SUPERGROUP)	U					CCLY	02
NH	227+	CHOCORUA,GRANITE (WHITE MOUNTAIN GP)				C	A	CHCR	01
NH	231	CHOCORUA,GRANITE (WHITE MOUNTAIN GP)						CHCR	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
FL 122	CHOCTAWHATCHEE, FM		MRL, CL		15	NW	A	CCTC 01
UT 360+	CHOKECHERRY, DOL	U			300		A	CKCR 01
UT 371	CHOKECHERRY, DOL	U						CKCR 03
AZ 217	CHOLLA, MBR (LOWELL FM)		SS, SH		21	SE	C	CHLL 01
NM 211	CHOLLA CANYON, TONGUE (CLIFF HOUSE SS)	U			18	NW	C	CLCN 03
VA 307	CHOPAWAMSI, FM	U	MVOL		3000	EC	E	CPMC 02
MD 122	CHOPTANK, FM (CHESAPEAKE GP)	U	CL		34	EC	A	CPNK 01
VA 122	CHOPTANK, FM (CHESAPEAKE GP)	U						CPNK 02
GA 364	CHOTA, FM							CHOT 02
TN 364	CHOTA, FM	U	LS		270	SE	C	CHOT 01
MO 339	CHOUTEAU, GP				15	C	A	CHUT 05
KS 337	CHOUTEAU, LS	U						CHUT 03
IL 339	CHOUTEAU, LS	U						CHUT 01
MO 339	CHOUTEAU, LS	U						CHUT 06
MO 339	CHOUTEAU, LS (SULPHUR SPRINGS GP)							CHUT 08
TX 318	CHOZA, FM (CLEAR FORK GP)	U	SH	RD	270	C	A	CHOZ 01
TX 124	CHRISTINE, MBR (YEGUA FM)		SED			SC	C	CRSN 05
CA 112	CHRISTMAS CANYON, FM	U	SS, CGL		150	SE	D	CRMC 01
NY 347+	CHRYSLER, LS	U			14	C	A	CRLR 01
NY 351	CHRYSLER, LS	U						CRLR 02
NY 347+	CHRYSLER, MBR (RONDOUT FM)							CRLR 03
NY 351	CHRYSLER, MBR (RONDOUT FM)							CRLR 04
AZ 420	CHUAR, GP (GRAND CANYON SUPERGROUP)	U	SH, SS		1600	NC	A	CHUR 02
CO 324	CHUBB, STS MBR (MAROON FM)				560	C	A	CHBB 01
CO 324	CHUBB, STS MBR (MINTURN FM)							CHBB 02
WA 125+	CHUCKANUT, FM	U	SS, CGL		150	NW	A	CCKN 01
WA 211	CHUCKANUT, FM	U						CCKN 02
CA 400	CHUCKWALLA, COMPLEX		MET			SC	C	CCKL 02
NY 367	CHUCTANUNDA CREEK, DOL (BEEKMANTOWN GP)				12	EC	C	CCCK 08
NY 364	CHUCTENUNDA, MBR (CANAJOHARIE SH)					EC	A	CCND 01
CO 231+	CHUGWATER, FM	U						CGTR 01
WY 231+	CHUGWATER, FM	U	SH, SS	RD	380	SE	A	CGTR 04
CO 237	CHUGWATER, FM	U						CGTR 06
MT 237	CHUGWATER, FM	U						CGTR 03
WY 237	CHUGWATER, FM	U						CGTR 09
CO 310	CHUGWATER, FM	U						CGTR 11
WY 231+	CHUGWATER, GP	U						CGTR 05
WY 237	CHUGWATER, GP	U						CGTR 10
AK 122	CHUITNA, MBR (TYONEK FM)	U	SS			C	E	CHTN 01
AL 304	CHULAFINNEE, SCHIST (TALLADEGA GP)			GN	150	NE	E	CLFN 07

AK	122	CHUNIKSAK,FM	U	SED	600	SW	E	CKSK	01	
MO	322	CHURCH,LS MBR (HOWARD FM)						CHRC	06	
IA	322	CHURCH,MBR (HOWARD LS)	U					CHRC	04	
KS	322	CHURCH,MBR (HOWARD LS)	U					CHRC	05	
NE	322	CHURCH,MBR (HOWARD LS)	U					CHRC	07	
CA	124	CHURCH CREEK,FM	U	MS,STS	460	WC	D	CCKC	06	
NM	123	CHURCH MOUNTAIN,LATITE (SIERRA BLANCA VOLCS)			230	C	E	CRCM	01	
AZ	231	CHURCH ROCK,MBR (CHINLE FM)	U	STS,SS	75	NE	C	CCRK	15	
CO	231	CHURCH ROCK,MBR (CHINLE FM)	U					CCRK	16	
UT	231	CHURCH ROCK,MBR (CHINLE FM)	U					CCRK	17	
OH	337	CHURN CREEK,MBR (CUYAHOGA FM)		SH,SS	30	SC	A	CRCK	29	
OH	337	CHURN CREEK,MBR (LOGAN FM)						CRCK	30	
TX	122	CHUSA,MBR (CATAHOULA TUFF)	U		49	SC	A	CHUS	01	
AZ	121	CHUSKA,SS	U					CHSK	01	
NM	121	CHUSKA,SS	U		275	NW	A	CHSK	02	
AK	330	CHUTE CREEK,MBR (TOTATLANIKA SCHIST)	U		450	EC	E	CCRK	18	
AZ	317+	CIBECUE,MBR (SUPAI FM)	U	SS,SH	100	EC	D	CBCU	01	
AZ	321	CIBECUE,MBR (SUPAI FM)	U					CBCU	02	
AZ	122	CIBOLA,BEDS		MRL,SS	300	SW	D	CBOL	01	
NM	430	CIBOLA,GNEISS					NC	E	CBOL	06
TX	318+	CIBOLO,FM	U	LS	440	WC	A	CBOL	04	
TX	319	CIBOLO,FM	U					CBOL	05	
TX	318+	CIBOLO,FM (CHINATI GP)						CBOL	02	
TX	319	CIBOLO,FM (CHINATI GP)						CBOL	03	
NC	370	CID,FM (ALBEMARLE GP)	U	MS,TF	4300	NC	E	CID	02	
AZ	217	CIENDA,LS [BED] (PACHETA MBR OF LOWELL FM)			1	SE	C	CIND	01	
NM	120+	CIENEGA PEAK,GRANITE				SW	C	CGPK	01	
NM	210	CIENEGA PEAK,GRANITE						CGPK	02	
NM	120	CIENEGUILLA,LIMBURGITE			180	NC	C	CNGL	01	
TX	321+	CIENEGUITA,FM	U	SH	300	WC	A	CNGT	01	
TX	324	CIENEGUITA,FM	U					CNGT	02	
TX	321+	CIENEGUITA,FM (CHINATI GP)						CNGT	03	
TX	324	CIENEGUITA,FM (CHINATI GP)						CNGT	04	
CA	122	CIERBO,SS (SAN PABLO GP)	U		270	WC	A	CRBO	01	
CA	211	CIERVO,SH (PANOCHÉ GP)			1100	C	C	CRVO	01	
CA	125	CIMA,SS LENTIL (DOS PALOS MBR OF MORENO FM)			18	C	C	CIMA	01	
CO	211	CIMARRON RIDGE,FM	U	TF	180	SW	E	CMRG	01	
NY	341	CINCINNATUS,SS (GENESEE GP)					C	A	CNCS	01
CA	111	CINDER CONE,BASALT					NW	C	CDRC	01
OR	231	CINNABAR,TUFF TONGUE (FIELDS CREEK FM)	U		1100	C	D	CNBR	01	

ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AZ	217	CINTURA,FM (BISBEE GP)	U	SH		550	SE	A	CNTR 01
AK	337	CIRCLE,VOLCS	U				NE	A	CRCL 01
NV	121	CIRCLE CREEK,RHYOLITE	U				NE	E	CCKC 05
TX	321	CISCO,GP	U	LS,SS		120	C	C	ESCO 01
NM	121	CISNEROS,BASALT MBR (HINSDALE FM)				91	NC	C	CSRS 01
TX	124	CISTERN,MBR (YEGUA FM)		CL			EC	C	CSRN 01
TN	410	CITICO,CGL MBR (SANDSUCK SH)	U			240	SE	A	CTCO 02
AL	121	CITRONELLE,FM	U	SD,CL		120	SW	A	CRNL 02
FL	121	CITRONELLE,FM							CRNL 03
GA	121	CITRONELLE,FM	U						CRNL 04
LA	121	CITRONELLE,FM	U						CRNL 05
MS	121	CITRONELLE,FM	U						CRNL 06
TX	121	CITRONELLE,FM	U						CRNL 09
UT	341	/CITY CREEK,LS				49	NC	C	CCRK 19
AZ	400	/CITY CREEK,SER		SH,QTZ		300	C	C	CCRK 26
AZ	400	[CITY CREEK,SH]							CCRK 35
OR	112	CLACKAMAS,GRAVEL				30	NW	C	CCKM 01
AZ	211	CLAFLIN RANCH,FM		CL		460	SE	C	CFRC 01
MT	211	CLAGGETT,FM (MONTANA GP)	U			120	C	A	CLGT 01
MT	211	CLAGGETT,MBR (CODY SH)	U						CLGT 03
WY	211	CLAGGETT,MBR (CODY SH)	U						CLGT 07
MT	211	CLAGGETT,SH (MONTANA GP)	U						CLGT 02
KY	124	CLAIBORNE,FM	U						CLBR 09
MO	124	CLAIBORNE,FM							CLBR 19
TN	124	CLAIBORNE,FM	U						CLBR 18
AL	124	CLAIBORNE,GP	U	SS,MRL			SW	A	CLBR 05
AR	124	CLAIBORNE,GP	U						CLBR 06
FL	124	CLAIBORNE,GP							CLBR 07
GA	124	CLAIBORNE,GP	U						CLBR 08
LA	124	CLAIBORNE,GP	U						CLBR 11
MS	124	CLAIBORNE,GP	U						CLBR 12
TN	124	CLAIBORNE,GP	U						CLBR 13
TX	124	CLAIBORNE,GP	U						CLBR 14
WA	122	CLALLAM,FM	U	CGL,SS		4600	NW	A	CLLM 01
NV	122	CLAN ALPINE,VOLCS				910	WC	C	CLAP 01
MT	211	CLANCY,GRANODIORITE	U				C	C	CLNC 01
AK	112	CLARA CREEK,DRIFT				32	C	D	CLCK 03
CA	122	CLAREMONT,SH (MONTEREY GP)	U			300	WC	A	CLRM 01
NY	344	CLARENCE,MBR (ONONDAGA LS)	U			14	WC	D	CLRC 03
VT	377	CLARENDON,[MBR] (RUTLAND DOL)				910	WC	C	CLRD 36

MA	371	CLARENDON SPRINGS,DOL (STOCKBRIDGE GP)	U							CSPG	27
VT	371	CLARENDON SPRINGS,DOL (STOCKBRIDGE GP)	U			61	WC	A		CSPG	31
PA	324	/CLARION,COAL BED (ALLEGHENY FM)				1	WC	C		CLRN	16
PA	324	/CLARION,FM (ALLEGHENY GP)	U			44	WC	C		CLRN	12
OH	324	CLARION,SH (ALLEGHENY GP)								CLRN	19
OH	324	CLARION,SH MBR (ALLEGHENY FM)								CLRN	18
MD	324	CLARION,SS MBR (ALLEGHENY FM)	U							CLRN	10
OH	324	CLARION,SS MBR (ALLEGHENY FM)								CLRN	11
PA	324	CLARION,SS MBR (ALLEGHENY FM)				8	WC	C		CLRN	13
WV	324	CLARION,SS MBR (ALLEGHENY FM)	U							CLRN	14
OK	357	CLARITA,FM				14	SE	C		CLRT	03
OK	357	CLARITA,MBR (CHIMNEYHILL LS)								CLRT	02
MT	101+	CLARK CANYON,LAVA						SW	C	CLKC	01
MT	112	CLARK CANYON,LAVA								CLKC	02
ME	300	CLARK ISLAND,GRANITE						SC	C	CKID	01
MO	400	CLARK MOUNTAIN,RHYOLITE (MIDDLEBROOK GP)				300	SE	D		CLKM	08
AK	230+	CLARK PEAK,SCHIST	U					SE	A	CKPK	02
AK	300	CLARK PEAK,SCHIST	U							CKPK	03
NY	347	CLARK RESERVATION,MBR (MANLIUS LS)	U		BL	1	C	A		CKRV	04
MD	321	CLARKSBURG,LS MBR (CONEMAUGH FM)								CKBG	06
OH	321	CLARKSBURG,LS MBR (CONEMAUGH FM)								CKBG	09
PA	321	CLARKSBURG,LS MBR (CONEMAUGH FM)	U							CKBG	11
WV	321	CLARKSBURG,LS MBR (CONEMAUGH FM)	U			9	C	A		CKBG	15
WV	321	/CLARKSBURG,RED SH MBR (CONEMAUGH FM)								CKBG	16
MI	430	/CLARKSBURG,VOLCS MBR (MICHIGAMME FM)	U					NW	A	CKBG	21
MI	430	/CLARKSBURG,VOLCS MBR (MICHIGAMME SLATE)	U							CKBG	18
PA	341	CLARKS FERRY,MBR (CATSKILL FM)		SS		76	SC	D		CLKF	01
NE	112	CLARKSON,TILL				17	EC	D		CLRK	03
NV	374	CLARKS SPRING,MBR (SECRET CANYON SH)	U	LS	BL	140	EC	C		CKSP	01
ID	112	CLARKSTON,GRAVEL								CLRK	01
WA	112	CLARKSTON,GRAVEL				130	SE	C		CLRK	04
OH	361	CLARKSVILLE,MBR (WAYNESVILLE FM)		SH		<2	SW	A		CLKV	02
CA	211	CLARK VALLEY,MUDSTONE				970	NW	D		CLKV	01
OR	123+	CLARNO,FM	U	VOL		120	EC	A		CLRN	01
OR	124	CLARNO,FM	U							CLRN	04
UT	123+	CLARON,FM	U			240	SW	A		CLRN	02
UT	124	CLARON,FM	U							CLRN	05
UT	123+	CLARON,LS	U							CLRN	03
UT	124	CLARON,LS	U							CLRN	06
KY	112	CLARYVILLE,CLAY				7	NE	E		CLVL	63

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	370	CLAVERACK,CGL [MBR] (SCHODACK FM)				<1	EC	C	CVCK 12
KY	338	CLAY CITY,STS MBR (NEW PROVIDENCE FM)				1	EC	C	CLCT 05
KS	322	CLAY CREEK,LS MBR (KANWAKA SH)	U			1	NE	A	CLCK 35
MO	322	CLAY CREEK,LS MBR (KANWAKA SH)	U						CLCK 37
NE	322	CLAY CREEK,LS MBR (KANWAKA SH)	U						CLCK 39
NM	211	CLAY MESA,TONGUE (MANCOS SH)	U			21	WC	E	CLMS 03
CA	125	CLAYMONT,CLAY BED (SILVERADO FM)	U			2	SC	C	CLMN 04
MA	307+	CLAYPIT HILL,FM	U	GN		610	NC	E	CLPH 01
MA	410	CLAYPIT HILL,FM	U						CLPH 02
OK	3+7	CLAYPOOL,FM	U	SH		91	SC	A	CLPL 04
KY	361+	CLAYS FERRY,FM	U	SH,LS		67	EC	D	CLFR 01
OH	361+	CLAYS FERRY,FM	U						CLFR 07
KY	364	CLAYS FERRY,FM	U						CLFR 02
OH	364	CLAYS FERRY,FM	U						CLFR 08
WY	217	CLAY SPUR,BENTONITE BED (BELLE FOURCHE SH)				1	NE	A	CLSP 04
MT	217	CLAY SPUR,BENTONITE BED (MOWRY SH)	U						CLSP 01
SD	217	CLAY SPUR,BENTONITE BED (MOWRY SH)	U						CLSP 02
WY	217	CLAY SPUR,BENTONITE BED (MOWRY SH)	U						CLSP 03
PA	317	CLAYSVILLE,LS MBR (GREENE FM)	U			1	SW	A	CLVL 21
NM	110	CLAYTON,BASALT					NE	C	CLTN 01
IL	125	CLAYTON,FM							CLTN 20
AL	125	CLAYTON,FM (MIDWAY GP)	U	SS		66	EC	A	CLTN 04
AR	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 05
GA	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 06
IL	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 07
KY	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 08
LA	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 09
MO	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 10
MS	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 11
TN	125	CLAYTON,FM (MIDWAY GP)	U						CLTN 13
MS	125	CLAYTON,LS (MIDWAY GP)							CLTN 12
NM	110	CLAYTON MESA,TONGUE (CLAYTON BASALT)					NE	C	CLMS 02
ID	364+	CLAYTON MINE,QTZ	U			600	C	E	CLNM 04
ID	367	CLAYTON MINE,QTZ	U						CLNM 05
TX	313	CLAYTONVILLE,DOL (WHITEHORSE GP)				1	C	A	CLVL 17
AL	347	CLEAR BRANCH,SS	U			2	NC	A	CLBC 01
IL	347	CLEAR CREEK,CHERT	U			110	SC	A	CLCK 45
IN	347	CLEAR CREEK,CHERT							CLCK 61
KY	347	CLEAR CREEK,CHERT	U						CLCK 48
AK	111	CLEAR CREEK,DRIFT					C	D	CLCK 01





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
NM 211	CLIFF HOUSE,SS (MESAVERDE GP)	U						CLFH 02
TN 364	CLIFFFIELD,FM							CLFD 02
VA 364	CLIFFFIELD,FM		LS		350	SW	C	CLFD 04
TN 364	CLIFFFIELD,GP							CLFD 03
VA 364	CLIFFFIELD,GP							CLFD 05
TN 354	CLIFTON,FM	U	LS		61	SW	A	CLFN 05
VA 347	CLIFTON FORGE,SS MBR (KEYSER LS)	U			20	C	A	CFFG 01
WV 347	CLIFTON FORGE,SS MBR (KEYSER LS)	U						CFFG 02
AR 344	CLIFTY,LS	U			1	NW	A	CLFT 01
CO 120	CLIMAX,PORPHYRY						C	CLMX 01
MT 123+	CLIMBING ARROW,FM (BOZEMAN GP)	U	CL,SD		300	SC	D	CBGA 01
MT 124	CLIMBING ARROW,FM (BOZEMAN GP)	U						CBGA 02
WV 357	CLINCH,QTZ	U						CLNC 14
TN 357	CLINCH,SS	U			150	NE	A	CLNC 11
VA 357	CLINCH,SS	U						CLNC 13
WV 357	CLINCH,SS	U						CLNC 15
GA 124	CLINCHFIELD,SAND	U			3	C	D	CCFD 01
CO 371	/CLINETOP,ALGAL LS MBR (DOTSERO FM)	U			1	NW	C	CLNP 01
CO 371	[CLINETOP,LS MBR (DOTSERO FM)]							CLNP 02
UT 317	CLINKER,FM		SS		610	NW	D	CLKR 01
MD 354	CLINTON,FM							CLNN 06
MI 354	CLINTON,FM	U						CLNN 08
OH 354	CLINTON,FM							CLNN 12
PA 354	CLINTON,FM	U						CLNN 13
VA 354	CLINTON,FM	U						CLNN 16
WV 354	CLINTON,FM	U						CLNN 18
MD 354	CLINTON,GP							CLNN 07
NY 354	CLINTON,GP	U	SH,SS		>26	C	A	CLNN 11
PA 354	CLINTON,GP							CLNN 20
WV 354	CLINTON,GP							CLNN 19
CT 300	/CLINTON,GRANITE GNEISS						C	CLNN 02
KY 354	CLINTON,SH	U						CLNN 05
TN 354	CLINTON,SH	U						CLNN 15
VA 354	CLINTON,SH	U						CLNN 17
NV 360	CLIPPER CANYON,GP		ARG,CH		1000	C	D	CLPC 01
CA 330	CLIPPER GAP,FM	U	SL,SS		>900	NC	A	CPGP 01
UT 321	CLIPPER RIDGE,MBR (BINGHAM MINE FM)		QTZ		900	NW	E	CPRG 02
TX 212	CLOICE,MBR (LAKE WACO FM)		SH		11	EC	C	CLOC 01
IL 332	CLORE,FM				10	SC	A	CLOR 06
IL 332	CLORE,LS	U						CLOR 01

IN	332	CLORE,LS		U													CLOR	03
KY	332	CLORE,LS		U													CLOR	04
KY	322	CLORE,LS MBR (LEITCHFIELD FM)															CLOR	07
AZ	211	CLOUDBURST,FM		U	CGL,TF	1500	SE	C								CLDB	01	
OR	111+	CLOUDCAP,DACITE . . . . .					91	SW	C							CDCP	01	
OR	112	CLOUDCAP,DACITE														CDCP	03	
OK	311	CLOUD CHIEF,FM		U			46	C	A							CDCF	03	
TX	313	CLOUD CHIEF,FM														CDCF	04	
TX	313	CLOUD CHIEF,GYPSUM														CDCF	14	
WA	120	CLOUDY PASS,QUARTZ DIORITE . . . . .						NC	C							CLDP	01	
MA	357	CLOUGH,FM		U												CLGH	03	
NH	357	CLOUGH,FM		U			61	C	A							CLGH	05	
VT	357	CLOUGH,FM		U												CLGH	07	
CT	357	CLOUGH,FM (BOLTON GP)		U												CLGH	01	
MA	357	CLOUGH,QTZ . . . . .		U												CLGH	04	
NH	357	CLOUGH,QTZ		U												CLGH	06	
VT	357	CLOUGH,QTZ		U												CLGH	08	
CT	357	CLOUGH,QTZ (BOLTON GP)		U												CLGH	02	
NJ	351	CLOVE BROOK,MBR (DECKER FM)		U	LS		15	NC	D							CVBK	01	
NY	351	/CLOVE BROOK,MBR (DECKER FM) . . . . .		U												CVBK	02	
CA	123	CLOVER,FM			VOL		170	NC	C							CLVR	07	
PA	364	CLOVER,MBR (LOYSBURG FM)			LS		24	SC	C							CLVR	10	
OR	231+	CLOVER CREEK,GP					1200	NE	A							CVCK	18	
OR	317	CLOVER CREEK,GP														CVCK	19	
CA	210+	/CLOVER CREEK,GRANODIORITE . . . . .							C							CVCK	03	
CA	220	/CLOVER CREEK,GRANODIORITE														CVCK	05	
OR	231+	CLOVER CREEK,GREENSTONE		U												CVCK	06	
OR	317	CLOVER CREEK,GREENSTONE		U												CVCK	09	
IN	112	CLOVERDALE,TILL MBR (JESSUP FM)					9	C	D							CLVD	01	
KY	324	CLOVER FORK,SS MBR (WISE FM) . . . . .														CVFK	01	
VA	324	CLOVER FORK,SS MBR (WISE FM)					24	SW	E							CVFK	02	
CO	217	CLOVERLY,FM		U												CLVL	07	
MT	217	CLOVERLY,FM		U												CLVL	09	
UT	217	CLOVERLY,FM		U												CLVL	11	
WY	217	CLOVERLY,FM . . . . .		U	CL		12	NC	A							CLVL	13	
MT	217	CLOVERLY,GP														CLVL	10	
WY	217	CLOVERLY,GP														CLVL	14	
NM	112	CLOVIS,FM			SD,CL		4	EC	C							CLVS	02	
VA	337	CLOYD,CGL MBR (PRICE FM)						SW	C							CLYD	03	
WA	370	CLUGSTON,LS . . . . .					370	NE	A							CLGS	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 318	CLYDE,FM (WICHITA GP)	U	LS		140	C	A	CLYD 01
TX 318	CLYDE,GP							CLYD 02
CA 122	COACHELLA,FANGLOMERATE	U			1400	SE	A	CCLL 01
WY 440	COAD MOUNTAIN,AUGEN GNEISS					SE	E	CDMN 02
MS 219	/COAHUILA,GP							CHUL 05
CO 330	COALBANK HILL,MBR (MOLAS FM)		MS,STS		17	SW	C	CBKH 02
AL 125	COAL BLUFF,MARL MBR (NAEOLA FM)	U			24	WC	A	CLBF 01
WV 324	COALBURG,SS [MBR] (KANAWHA FM)				24	SW	A	CLBG 03
IA 325	COAL CITY,MBR (PAWNEE LS)				1	SC	C	CLCT 02
MO 325	COAL CITY,MBR (PAWNEE LS)							CLCT 03
OK 325	COAL CITY,MBR (PAWNEE LS)							CLCT 04
MO 322	COAL CREEK,LS MBR (TOPEKA FM)							CLCK 38
IA 322	COAL CREEK,MBR (TOPEKA LS)	U						CLCK 34
KS 322	COAL CREEK,MBR (TOPEKA LS)	U						CLCK 36
NE 322	COAL CREEK,MBR (TOPEKA LS)	U		BL	2	SE	A	CLCK 40
TX 400	COAL CREEK,SERPENTINE						C	CLCK 60
OR 124	COALEDO,FM	U	SS		1200	SW	A	COLD 01
TN 324	COALFIELD,SS (CROOKED FORK GP)				18	EC	C	CLFD 01
CO 124+	COALMONT,FM	U	SS		1800	NC	A	CLMN 03
CO 125	COALMONT,FM	U						CLMN 05
NV 122	COAL VALLEY,FM	U	SS,TF		1000	WC	C	CLVL 62
NV 122	COAL VALLEY,FM (WASSUK GP)							CLVL 59
AK 211	COAL VALLEY,MBR (CHIGNIK FM)		SH,STS		380	SC	D	CLVL 04
UT 211	COALVILLE,MBR (FRONTIER FM)		SS		68	NC	C	CLVL 06
NM 321	COANE,FM (VEREDAS GP)		LS		18	C	C	CONE 02
MA 364	COBBLE MOUNTAIN,FM	U	SCH		2000	WC	E	CBLM 01
CA 110	COBB MOUNTAIN,RHYOLITE (CLEAR LAKE VOLCS)				460	NW	C	CBMN 01
MT 211	COBERLY,FM (COLORADO GP)		LS,SS		170	WC	D	CBRL 02
PA 337	COBHAM,CGL MBR (KNAPP FM)				30	NW	A	CBHM 01
NY 351	COBLESKILL,DOL	U			2	EC	A	CBLK 02
NY 351	COBLESKILL,LS	U						CBLK 03
NY 364	COBOURG,FM (TRENTON GP)				52	CAN	A	CBRG 07
NY 364	COBOURG,LS (TRENTON GP)							CBRG 03
PA 364	COBURN,FM (TRENTON GP)				120	C	A	CBRN 01
PA 364	COBURN,LS (TRENTON GP)							CBRN 02
VT 364	[COBURN HILL,MBR (MISSISQUOI FM)]					NC	D	CBHL 05
VT 364	[COBURN HILL,MBR (MORETOWN FM)]							CBHL 06
VT 364	/COBURN HILL,VOLC MBR (MISSISQUOI FM)							CBHL 03
VT 364	/COBURN HILL,VOLC MBR (MORETOWN FM)	U						CBHL 04
AZ 121	COBWEBB,BASALT	U			76	WC	C	CBWB 02

PA	361+	COCALICO,SH	U		300	SE	A	CCLC	02	
PA	364	COCALICO,SH	U					CCLC	03	
OK	322	COCHAHEE,SS MBR (VAMOOSA FM)	U		8	NE	A	CCHH	01	
CO	123	COCHETOPA PARK,MBR (NELSON MOUNTAIN TUFF)	U			SW	E	CPPK	03	
AZ	374	COCHISE,FM	U	LS,SH	95	SE	A	CCHS	01	
AZ	220+	COCHISE PEAK,QUARTZ MONZONITE	U			SE	C	CCPK	02	
AZ	230	COCHISE PEAK,QUARTZ MONZONITE	U					CCPK	03	
NM	121	COCHITI,FM	U	GVL			NC	E	CCHT	01
NC	377	COCHRAN,CGL (CHILHOWEE GP)	U					CCRN	02	
TN	377	COCHRAN,CGL (CHILHOWEE GP)	U		270	EC	A	CCRN	05	
NC	377	COCHRAN,FM (CHILHOWEE GP)	U					CCRN	03	
TN	377	COCHRAN,FM (CHILHOWEE GP)	U					CCRN	06	
NC	377	COCHRAN,QTZ (CHILHOWEE GP)	U					CCRN	04	
TN	377	COCHRAN,QTZ (CHILHOWEE GP)	U					CCRN	07	
OK	357	COCHRANE,MBR (CHIMNEYHILL LS)	U		5	SE	C	CCRN	01	
NV	344	COCKALORUM WASH,FM	U	LS	370	EC	E	CKMW	01	
MD	410	COCKEYSVILLE,FM (GLENARM GP)	U		120	NC	A	CKKV	03	
PA	410	COCKEYSVILLE,FM (GLENARM GP)	U					CKKV	06	
VA	410	COCKEYSVILLE,MARBLE	U					CKKV	09	
DE	410	COCKEYSVILLE,MARBLE (GLENARM GP)	U					CKKV	02	
MD	410	COCKEYSVILLE,MARBLE (GLENARM GP)	U					CKKV	04	
PA	410	COCKEYSVILLE,MARBLE (GLENARM GP)	U					CKKV	07	
AL	124	COCKFIELD,FM (CLAIBORNE GP)	U					CKKF	01	
AR	124	COCKFIELD,FM (CLAIBORNE GP)	U					CKKF	02	
LA	124	COCKFIELD,FM (CLAIBORNE GP)	U	SD,CL	180	NW	A	CKKF	03	
MS	124	COCKFIELD,FM (CLAIBORNE GP)	U					CKKF	04	
TN	124	COCKFIELD,FM (CLAIBORNE GP)	U					CKKF	05	
TX	124	COCKFIELD,FM (CLAIBORNE GP)	U					CKKF	06	
TX	124	COCKFIELD,FM (YEGUA GP)	U					CKKF	07	
AL	124	COCOA,SAND MBR (YAZOO CLAY)	U		21	WC	A	COCO	02	
MS	124	COCOA,SAND MBR (YAZOO CLAY)	U					COCO	04	
MS	124	COCOA,SAND MBR (YAZOO FM)	U					COCO	05	
NV	317	COCONINO,SS	U					CCNN	07	
AZ	317	COCONINO,SS (AUBREY GP)	U		190	NC	A	CCNN	03	
NV	317	COCONINO,SS (AUBREY GP)	U					CCNN	04	
UT	317	COCONINO,SS (AUBREY GP)	U					CCNN	05	
AZ	217	COCORAQUE,FM	U	SS,CGL	610	SC	D	CCRQ	01	
SD	211	CODELL,SS	U					CDLL	10	
CO	211	CODELL,SS MBR (BENTON SH)	U					CDLL	01	
CO	211	CODELL,SS MBR (CARLILE SH)	U					CDLL	02	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KS 211	CODELL,SS MBR (CARLILE SH)	U			8	NC	A	CDLL 03
NE 211	CODELL,SS MBR (CARLILE SH)	U						CDLL 04
NM 211	CODELL,SS MBR (CARLILE SH)							CDLL 11
SD 211	CODELL,SS MBR (CARLILE SH)	U						CDLL 05
MT 211	CODY,SH	U						CODY 01
WY 211	CODY,SH	U				NW	A	CODY 03
NJ 347	COEYMANS,FM (HELDERBERG GP)	U						CMNS 12
NY 347	COEYMANS,FM (HELDERBERG GP)				30	EC	A	CMNS 11
PA 347	COEYMANS,FM (HELDERBERG GP)	U						CMNS 09
NJ 347	COEYMANS,LS (HELDERBERG GP)	U						CMNS 02
NY 347	COEYMANS,LS (HELDERBERG GP)	U						CMNS 03
PA 347	COEYMANS,LS (HELDERBERG GP)	U						CMNS 04
VA 347	COEYMANS,LS (HELDERBERG GP)	U						CMNS 06
WV 347	COEYMANS,LS (HELDERBERG GP)	U						CMNS 10
PA 347	COEYMANS,LS MBR (HELDERBERG FM)	U						CMNS 13
PA 347	COEYMANS,MBR (HELDERBERG LS)	U						CMNS 05
VA 347	COEYMANS,MBR (HELDERBERG LS)							CMNS 07
TN 211	COFFEE,FM (SELMA GP)				61	SW	A	COFF 03
MS 212	COFFEE,FM (SELMA GP)							COFF 01
KY 211	COFFEE,SAND	U						COFF 07
TN 211	COFFEE,SAND (SELMA GP)	U						COFF 04
MS 212	COFFEE,SAND (SELMA GP)	U						COFF 02
OR 331	COFFEE CREEK,FM	U	LS,SS		300	C	C	CFCK 03
FL 112	COFFEE MILL HAMMOCK,MARL				1	EC	A	CMHK 01
FL 112	COFFEE MILL HAMMOCK,MARL MBR (FORT THOMPSON FM)	U						CMHK 02
IL 323	COFFEEN,LS MBR (BOND FM)				1	C	C	CFFN 03
CO 341	COFFEE POT,MBR (DYER FM)		DOL			WC	D	CFPT 01
PA 367	COFFEE RUN,MBR (BELLEFONTE DOL)				370	C	D	CFRN 02
KS 323	COFFEYVILLE,FM (KANSAS CITY GP)	U	LS		76	SE	A	CFVL 03
OK 323	COFFEYVILLE,FM (SKIATOOK GP)	U						CFVL 01
OR 124	COFFIN BUTTE,VOLCS				180	WC	C	CFNB 01
CO 324	COFFMAN,CGL MBR (MAROON FM)				190	C	A	CFMN 01
CO 324	COFFMAN,CGL MBR (MINTURN FM)							CFMN 02
CO 324	COFFMAN,FM							CFMN 03
IA 344	COGGON,MBR (WAPSIPINICON LS)				4	EC	A	CGGN 01
IL 344	COGGON,MBR (WAPSIPINICON LS)							CGGN 02
MD 121+	COHANSEY,SAND	U						CNSY 05
NJ 121+	COHANSEY,SAND	U			76	SW	A	CNSY 01
PA 121+	COHANSEY,SAND	U						CNSY 02
MD 122	COHANSEY,SAND	U						CNSY 06

NJ	122	COHANSEY,SAND	U							CNSY	03
PA	122	COHANSEY,SAND	U							CNSY	04
FL	112	COHARIE,FM	U							COHR	02
GA	112	COHARIE,FM	U							COHR	03
MD	112	COHARIE,FM (COLUMBIA GP)	U							COHR	04
NC	112	COHARIE,FM (COLUMBIA GP)	U	CL,SD		15	EC	A		COHR	05
SC	112	COHARIE,FM (COLUMBIA GP)	U							COHR	06
VA	112	COHARIE,FM (COLUMBIA GP)	U							COHR	07
IN	321	COHN,COAL MBR (MATTOON FM)								COHN	02
IL	323	COHN,COAL MBR (MATTOON FM)								COHN	01
NV	347	COILS CREEK,MBR (MCCOLLEY CANYON FM)		LS		<1	EC	C		CLCK	54
MT	211	COKEDALE,FM (LIVINGSTON GP)	U	STS,SS		480	SC	D		CKDL	01
AL	212	COKER,FM (TUSCALOOSA GP)	U	CL,SD		110	WC	C		COKR	01
MS	212	COKER,FM (TUSCALOOSA GP)	U							COKR	02
WY	217	COKEVILLE,FM		SS		500	SW	E		CKVL	01
OK	374	COLBERT,PORPHYRY (CARLTON GP)					SC	A		CLBR	17
OK	374	COLBERT,RHYOLITE								CLBR	20
IL	325	COLCHESTER,COAL MBR (CARBONDALE FM)					1	WC	C	CLCR	01
IN	324	COLCHESTER,COAL MBR (LINTON FM)								CLCR	02
OK	374	COLD SPRINGS,GRANITE						C	A	CSPG	32
MI	337	COLDWATER,FM					300	SC	A	CLDR	04
MI	337	COLDWATER,SH	U							CLDR	05
IN	338+	COLDWATER,SH								CLDR	06
IN	339	COLDWATER,SH								CLDR	07
CA	124	COLDWATER,SS	U			150	SC	A		CLDR	01
CA	124	COLDWATER,SS (TEJON GP)								CLDR	08
CA	124	COLDWATER,SS MBR (TEJON FM)								CLDR	02
OR	221	COLEBROOKE,SCHIST	U					SW	A	CLBK	01
UT	374	COLE CANYON,DOL	U				160	C	A	CLCN	04
MN	111+	COLEHARBOR,FM								CLRB	07
MT	111+	COLEHARBOR,FM								CLRB	08
ND	111+	COLEHARBOR,FM		TL		20	WC	E		CLRB	01
SD	111+	COLEHARBOR,FM								CLRB	10
MN	112	COLEHARBOR,FM								CLRB	03
MT	112	COLEHARBOR,FM								CLRB	09
ND	112	COLEHARBOR,FM								CLRB	05
SD	112	COLEHARBOR,FM								CLRB	11
ND	111+	COLEHARBOR,GP								CLRB	06
ND	112	COLEHARBOR,GP								CLRB	04
TX	319	COLEMAN JUNCTION,FM (PUTNAM GP)					12	C	A	CMJC	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 319	COLEMAN JUNCTION,LS MBR (PUTNAM FM)	U						CMJC 02
MN 211	COLERAINE,FM		SH		30	C	C	CLRN 07
MA 400	COLES BROOK,LS	U			100	NW	A	CLBK 04
CA 124	COLESTIN,FM	U						CLSN 01
OR 124	COLESTIN,FM	U	TF,CGL		610	SW	C	CLSN 02
PA 364	COLEVILLE,MBR (COBURN FM)		LS		53	C	D	CLVL 52
CA 221	COLFAX,FM		TF,SH			NW	A	CLFX 01
MT 211	COLGATE,MBR (FOX HILLS SS)	U			56	EC	A	CLGT 04
ND 211	COLGATE,MBR (FOX HILLS SS)	U						CLGT 05
SD 211	COLGATE,MBR (FOX HILLS SS)							CLGT 06
WY 211	COLGATE,MBR (FOX HILLS SS)	U						CLGT 08
AZ 317	COLINA,LS (NACO GP)	U			190	SE	C	COLN 01
NM 317	COLINA,LS (NACO GP)	U						COLN 02
OR 111	[COLLIER,BASALT]					C	C	CLLR 06
OR 111	/COLLIER,FLOWS							CLLR 01
OK 367	COLLIER,FM							CLLR 04
AR 367	COLLIER,SH	U			91	WC	A	CLLR 03
OK 367	COLLIER,SH	U						CLLR 05
OR 221	COLLIER BUTTE,DIORITE					SW	D	CLRB 02
VA 364	COLLIERSTOWN,LS				18	C	C	CLRS 04
WV 364	COLLIERSTOWN,LS							CLRS 03
OK 322	COLLINGS RANCH,CGL	U			610	SE	C	CGRC 03
OK 317	COLLINGSWORTH,GYPSUM MBR (BLAINE FM)	U						CLGR 01
TX 318	COLLINGSWORTH,GYPSUM MBR (BLAINE FM)	U			6	NC	A	CLGR 02
MI 361	COLLINGWOOD,FM	U	SH		8	CAN	A	CLGD 02
WI 361	COLLINGWOOD,FM	U						CLGD 04
MI 361	COLLINGWOOD,MBR (BILLS CREEK SH)							CLGD 05
CT 361+	COLLINS HILL,FM		SCH			C	C	CLHL 08
CT 364	COLLINS HILL,FM							CLHL 09
UT 121	COLLINSTON,CGL (SALT LAKE GP)				760	NC	C	CLNS 01
CT 307	COLLINSVILLE,FM					NC	A	CLVL 56
CT 307	COLLINSVILLE,GRANITE GNEISS							CLVL 15
CA 112	COLMA,FM	U	SD		15	WC	C	COLM 01
TX 123	COLMENA,FM (VIEJA GP)				140	WC	C	CLMN 01
TX 123	COLMENA,TUFF (VIEJA GP)							CLMN 02
TX 321	COLONY CREEK,SH (CANYON GP)				6	C	C	CLCK 32
TX 321	COLONY CREEK,SH MBR (CADDO CREEK FM)	U						CLCK 33
TX 324	COLONY SCHOOL,CGL (STRAWN GP)				1	C	C	CLSC 03
CO 211+	COLORADO,FM	U				C	A	CLRD 03
ID 211+	COLORADO,FM	U						CLRD 07

MT	211+	COLORADO,FM	U						CLRD	09
NM	211	COLORADO,FM	U						CLRD	14
TX	211	COLORADO,FM	U						CLRD	18
UT	211+	COLORADO,FM	U						CLRD	19
WY	211+	COLORADO,FM	U						CLRD	21
CO	217	COLORADO,FM	U						CLRD	24
ID	217	COLORADO,FM	U						CLRD	27
MT	217	COLORADO,FM	U						CLRD	28
UT	217	COLORADO,FM	U						CLRD	31
WY	217	COLORADO,FM	U						CLRD	33
CO	211+	COLORADO,GP	U						CLRD	04
IA	211	COLORADO,GP	U						CLRD	06
KS	211	COLORADO,GP	U						CLRD	08
MN	211	COLORADO,GP	U						CLRD	42
MT	211+	COLORADO,GP	U						CLRD	10
ND	211+	COLORADO,GP	U						CLRD	12
NE	211	COLORADO,GP	U						CLRD	13
NM	211	COLORADO,GP	U						CLRD	41
OK	211+	COLORADO,GP	U						CLRD	16
SD	211+	COLORADO,GP	U						CLRD	17
UT	211+	COLORADO,GP	U						CLRD	20
WY	211+	COLORADO,GP	U						CLRD	22
CO	217	COLORADO,GP	U						CLRD	25
MT	217	COLORADO,GP	U						CLRD	29
ND	217	COLORADO,GP	U						CLRD	40
OK	217	COLORADO,GP	U						CLRD	38
SD	217	COLORADO,GP	U						CLRD	39
UT	217	COLORADO,GP	U						CLRD	32
WY	217	COLORADO,GP	U						CLRD	34
CO	211+	COLORADO,SH	U						CLRD	05
MT	211+	COLORADO,SH	U						CLRD	11
NM	211	COLORADO,SH	U						CLRD	15
WY	211+	COLORADO,SH	U						CLRD	23
CO	217	COLORADO,SH	U						CLRD	26
MT	217	COLORADO,SH	U						CLRD	30
WY	217	COLORADO,SH	U						CLRD	35
TX	212	COLQUITT,FM			LS	370	WC	A	CLQT	01
WY	122	COLTER,FM	U		VOL	2100	NW	C	CLTR	01
UT	124	COLTON,FM	U		SS,SH	460	C	C	CLTN	03
DE	112	COLUMBIA,FM							CLMB	20



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
DC	112	COLUMBIA,GP	U	SD,CL		15	A		CLMB 01
DE	112	COLUMBIA,GP							CLMB 02
MD	112	COLUMBIA,GP	U						CLMB 05
NC	112	COLUMBIA,GP	U						CLMB 06
SC	112	COLUMBIA,GP	U						CLMB 09
VA	112	COLUMBIA,GP	U						CLMB 10
VT	367	/COLUMBIAN,MARBLE MBR (BOARDMAN FM)				180	WC	C	CLMB 18
VT	367	/COLUMBIAN,MARBLE MBR (SHELBURNE FM)							CLMB 19
AL	364	COLUMBIANA,FM		SH	BK	99	C	C	CLMB 16
OH	320	COLUMBIANA,SH [MBR] (ALLEGHENY FM)				1	NE	D	CLMB 12
ID	121+	COLUMBIA RIVER,BASALT	U						CBRV 01
OR	121+	COLUMBIA RIVER,BASALT	U						CBRV 03
WA	121+	COLUMBIA RIVER,BASALT	U			610	C	A	CBRV 05
ID	122	COLUMBIA RIVER,BASALT	U						CBRV 07
OR	122	COLUMBIA RIVER,BASALT	U						CBRV 09
WA	122	COLUMBIA RIVER,BASALT	U						CBRV 11
OR	121+	COLUMBIA RIVER,GP	U						CBRV 04
WA	121+	COLUMBIA RIVER,GP	U						CBRV 06
OR	122	COLUMBIA RIVER,GP	U						CBRV 10
WA	122	COLUMBIA RIVER,GP	U						CBRV 12
OH	344	COLUMBUS,LS	U			42	C	A	CLMB 14
AK	211	COLVILLE,GP	U	ST		180	NC	A	CLVL 05
WA	330	COLVILLE,QTZ				1500	NE	A	CLVL 40
PA	317+	COLVIN,LS MBR (WAYNESBURG FM)	U				SW	A	CLVN 01
WV	317+	COLVIN,LS MBR (WAYNESBURG FM)	U						CLVN 05
PA	321	COLVIN,LS MBR (WAYNESBURG FM)	U						CLVN 06
WV	321	COLVIN,LS MBR (WAYNESBURG FM)	U						CLVN 04
AL	364	COLVIN MOUNTAIN,SS				23	NE	E	CLVM 01
WA	112	COLVOS,SAND [MBR] (VASHON DRIFT)				91	NW	D	CLVS 03
TX	218	COMANCHE PEAK,LS (FREDERICKSBURG GP)	U			30	C	A	CMFK 01
CA	221	COMBE,SS				170	NW	A	COMB 01
NV	377	COMBINED METALS,MBR (PIOCHE SH)	U	LS		20	EC	A	CMBM 02
VA	400	COMERS,GRANITE GNEISS	U				SW	C	CMRS 02
NV	374	COMET,SH				110	EC	C	COMT 01
MI	440	COMPEAU CREEK,GNEISS					NC	E	CPCK 22
KS	337	COMPTON,LS	U						CMPN 02
MO	339	COMPTON,LS	U			8	SC	A	CMPN 06
MO	339	COMPTON,LS (CHOUTEAU GP)							CMPN 04
MO	339	COMPTON,LS (ST. JOE GP)							CMPN 05
KS	337	COMPTON,MBR (CHOUTEAU LS)							CMPN 03

MO	339	COMPTON, MBR (CHOUTEAU LS)										CMPN	07
OR	124	COMSTOCK, FM										CMCK	03
NV	364+	COMUS, FM	U	SS, TF		300	WC	C				CMUS	01
NV	367	COMUS, FM	U	CH, SL		610	NC	C				CMUS	02
KY	324	CONANT, LS										CNNT	08
IL	325	CONANT, LS MBR (CARBONDALE FM)										CNNT	01
AL	371+	CONASAUGA, FM	U									CNSG	02
GA	371+	CONASAUGA, FM	U			610	NW	A				CNSG	05
AL	374	CONASAUGA, FM	U									CNSG	15
GA	374	CONASAUGA, FM	U									CNSG	18
TN	371+	CONASAUGA, GP	U									CNSG	10
VA	371+	CONASAUGA, GP										CNSG	13
TN	374	CONASAUGA, GP	U									CNSG	23
VA	374	CONASAUGA, GP										CNSG	26
AL	371+	CONASAUGA, LS	U									CNSG	03
TN	371+	CONASAUGA, LS	U									CNSG	11
AL	374	CONASAUGA, LS	U									CNSG	16
TN	374	CONASAUGA, LS	U									CNSG	24
AL	371+	CONASAUGA, SH	U									CNSG	04
GA	371+	CONASAUGA, SH	U									CNSG	06
KY	371+	CONASAUGA, SH										CNSG	07
TN	371+	CONASAUGA, SH	U									CNSG	12
VA	371+	CONASAUGA, SH	U									CNSG	14
AL	374	CONASAUGA, SH	U									CNSG	17
GA	374	CONASAUGA, SH	U									CNSG	19
KY	374	CONASAUGA, SH										CNSG	20
TN	374	CONASAUGA, SH	U									CNSG	25
VA	374	CONASAUGA, SH	U									CNSG	27
AZ	210	CONCENTRATOR, VOLCS	U			910	SC	C				CCRR	01
AZ	317	CONCHA, LS (NACO GP)	U			40	SE	C				CNCH	02
NM	317	CONCHA, LS (NACO GP)	U									CNCH	04
AZ	317	CONCHA, LS (SNYDER HILL GP)										CNCH	03
CA	123	CONCORD, FM		SS		76	WC	A				CCRD	01
NH	341+	CONCORD, GRANITE (NEW HAMPSHIRE GP)	U				SC	A				CCRD	02
NH	344	CONCORD, GRANITE (NEW HAMPSHIRE GP)	U									CCRD	03
ME	347+	CONCORD POND, MBR (LITTLETON FM)		GN		760	SW	D				CCDP	02
ME	351	CONCORD POND, MBR (LITTLETON FM)										CCDP	03
NV	374	CONDOR, FM		LS, SS		41	EC	C				CNDR	02
UT	374	CONDOR, FM										CNDR	05
NV	374	CONDOR, MBR (HIGHLAND PEAK FM)	U									CNDR	03

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV	374	CONDOR,MBR (SWASEY FM)							CNDR 04
UT	374	CONDOR,MBR (SWASEY FM)							CNDR 07
NV	122+	CONDOR CANYON,FM (QUICHAPA GP)		IGNM		115	EC	D	CDRC 04
UT	122+	CONDOR CANYON,FM (QUICHAPA GP)	U						CDRC 07
NV	123	CONDOR CANYON,FM (QUICHAPA GP)							CDRC 09
UT	123	CONDOR CANYON,FM (QUICHAPA GP)	U						CDRC 08
MT	211	/CONE,CALCAREOUS MBR (MARIAS RIVER SH)	U			16	NC	C	CONE 01
MT	211	[CONE,MBR (MARIAS RIVER SH)]							CONE 03
CA	122	CONEJO,VOLCS				4500	SC	A	CONJ 01
CO	123	CONEJOS,FM	U	VOL		910	SC	A	CNJS 01
NM	123	CONEJOS,FM	U						CNJS 02
KY	321	CONEMAUGH,FM	U						CNMG 02
MD	321	CONEMAUGH,FM	U						CNMG 04
OH	321	CONEMAUGH,FM	U						CNMG 06
PA	321	CONEMAUGH,FM	U	SH,STS		200	SW	C	CNMG 08
WV	321	CONEMAUGH,FM	U						CNMG 11
PA	321	CONEMAUGH,GP	U						CNMG 09
WV	321	CONEMAUGH,GP	U						CNMG 12
PA	367	CONESTOGA,FM					SE	A	CNSG 28
PA	367	CONESTOGA,LS	U						CNSG 01
PA	231	CONEWAGO,CGL MBR (GETTYSBURG SH)	U		RD	2400	SC	A	CNNG 01
PA	337+	CONEWAGO,FM	U	SH		170	NW	A	CNNG 05
NY	341	CONEWANGO,FM	U						CNNG 07
PA	341	CONEWANGO,FM	U						CNNG 09
PA	337+	CONEWANGO,GP							CNNG 06
NY	341	CONEWANGO,GP							CNNG 08
PA	341	CONEWANGO,GP							CNNG 10
OK	323	CONFEDERATE,LS (HOXBAR GP)				18	SE	A	CFDR 01
OK	323	CONFEDERATE,LS MBR (HOXBAR FM)							CFDR 02
SC	124	CONGAREE,FM (ORANGEBURG GP)	U	SH,CL		6	C	A	CNGR 02
NY	341	CONNEAUT,FM							CNNT 02
OH	341	CONNEAUT,FM							CNNT 04
PA	341	CONNEAUT,FM		SS,SH			NW	A	CNNT 06
NY	341	CONNEAUT,GP							CNNT 03
PA	341	CONNEAUT,GP							CNNT 07
TX	364	CONNELL,SS MBR (OIL CREEK FM)				12	WC	C	CNLL 01
OH	321	/CONNELLSVILLE,RED-BED MBR (CONEMAUGH FM)							CLVL 27
PA	321	/CONNELLSVILLE,RED-BED MBR (CONEMAUGH FM)							CLVL 30
WV	321	/CONNELLSVILLE,RED-BED MBR (CONEMAUGH FM)							CLVL 34
MD	321	CONNELLSVILLE,SS MBR (CONEMAUGH FM)	U						CLVL 26

OH	321	CONNELLSVILLE,SS MBR (CONEMAUGH FM)								CLVL	28
PA	321	CONNELLSVILLE,SS MBR (CONEMAUGH FM)	U			20	SW	C		CLVL	32
WV	321	CONNELLSVILLE,SS MBR (CONEMAUGH FM)								CLVL	35
NY	347	CONNELLY,CGL (TRISTATES GP)				6	SE	A		CNNL	02
ID	307	CONNER CREEK,FM (DOVE CREEK GP)		SCH		1200	SC	D		CRCK	25
IN	112	CONNERSVILLE,SILT				<1	EC	D		CRVL	03
NY	324	CONNOQUENESSING,FM (POTTSVILLE GP)								CQSG	15
PA	324+	CONNOQUENESSING,FM (POTTSVILLE GP)	U			38	WC	A		CQSG	04
WV	324	CONNOQUENESSING,FM (POTTSVILLE GP)								CQSG	07
PA	327	CONNOQUENESSING,FM (POTTSVILLE GP)	U							CQSG	12
WV	324	CONNOQUENESSING,SS MBR (KANAWHA FM)								CQSG	16
MD	324	CONNOQUENESSING,SS MBR (POTTSVILLE FM)	U							CQSG	14
OH	324	CONNOQUENESSING,SS MBR (POTTSVILLE FM)	U							CQSG	03
PA	324+	CONNOQUENESSING,SS MBR (POTTSVILLE FM)	U							CQSG	06
PA	327	CONNOQUENESSING,SS MBR (POTTSVILLE FM)	U							CQSG	13
PA	371	CONOCOCHAEAGUE,FM				600	SC	C		CCCG	07
VA	371	CONOCOCHAEAGUE,FM (KNOX GP)								CCCG	06
PA	371	CONOCOCHAEAGUE,GP	U							CCCG	02
MD	371	CONOCOCHAEAGUE,LS	U							CCCG	01
WV	371	CONOCOCHAEAGUE,LS	U							CCCG	05
TN	371	CONOCOCHAEAGUE,LS (KNOX GP)	U							CCCG	03
VA	371	CONOCOCHAEAGUE,LS (KNOX GP)	U							CCCG	04
MD	307	CONOWINGO,BRECCIA						NE	C	CNNG	02
MD	122	CONOY,MBR (CHOPTANK FM)		SD		5	SE	E		CONY	02
VA	122	CONOY,MBR (CHOPTANK FM)								CONY	03
TX	124	CONQUISTA,CLAY MBR (WHITSETT FM)	U			21	SC	C		CNSQ	01
WA	217+	CONSTITUTION,FM		STS,GYK		>3000	NW	E		CNSN	02
WA	220	CONSTITUTION,FM								CNSN	01
NM	341	CONTADERO,FM		SH,LS		20	SC	C		CNDR	01
AZ	420	CONTINENTAL,GRANODIORITE	U					SE	E	CNNL	06
WY	124	CONTINENTAL PEAK,FM		SS		76	SW	C		CLPK	01
CA	122	/CONTRA COSTA,GP	U	SED				WC	C	CRCS	01
CA	121	CONTRA COSTA,LAKE BED						WC	A	CRCS	02
AZ	200	CONTRERAS,CGL MBR (PITOIKAM FM)	U			1300	SC	D		CRRS	05
AZ	123	CONTZEN PASS,FM		VOL				SC	D	CZPS	01
LA	125	CONVERSE,FM (WILCOX GP)		SD		47	NW	C		CVRS	01
CA	364	CONVICT LAKE,FM	U	HNF		460		C	D	CVLK	01
SC	112	CONWAY,FM		SD,CL		6	EC	E		CNWY	01
MA	347+	/CONWAY,FM		SCH		1500	NW	A		CNWY	12
VT	347+	/CONWAY,FM								CNWY	10

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MA	351	/CONWAY,FM							CNWX 04
VT	351	/CONWAY,FM							CNWX 06
MA	354	/CONWAY,FM							CNWX 07
VT	354	/CONWAY,FM							CNWX 09
NH	227+	CONWAY,GRANITE (WHITE MOUNTAIN GP)	U			180	EC	A	CNWX 02
NH	231	CONWAY,GRANITE (WHITE MOUNTAIN GP)	U						CNWX 03
KY	337	CONWAY CUT,BED (COWBELL MBR OF BORDEN FM)		STS		23	EC	C	CNCT 01
OK	326	COODY,SS MBR (ATOKA FM)	U			12	EC	A	CODY 05
MT	400	COOKE,GRANITE	U				SC	A	COOK 01
AR	124	COOK MOUNTAIN,FM (CLAIBORNE GP)	U						CKMN 01
LA	124	COOK MOUNTAIN,FM (CLAIBORNE GP)	U						CKMN 02
MS	124	COOK MOUNTAIN,FM (CLAIBORNE GP)	U						CKMN 03
TN	124	COOK MOUNTAIN,FM (CLAIBORNE GP)	U						CKMN 05
TX	124	COOK MOUNTAIN,FM (CLAIBORNE GP)	U	MRL,CL		120	EC	A	CKMN 06
MS	124	COOK MOUNTAIN,LS (CLAIBORNE GP)	U						CKMN 04
MT	123	COOK RANCH,FM		CL		38	SW	A	CKRC 01
NM	367	COOKS,FM (EL PASO GP)		LS		18	WC	D	COKS 01
TX	367	COOKS,FM (EL PASO GP)							COKS 02
NY	344	COOKSBURG,SS MBR (MOSCOW FM)				16	EC	E	CKBG 17
CA	224	COOKS CANYON,AGGLOMERATE				580	NW	A	CKSC 01
NM	107	COOKS PEAK,GRANODIORITE PORPHYRY					SW	C	CKPK 01
CT	361+	COOKS POND,SCHIST (HARTLAND GP)					SW	E	CKPD 01
CT	364	COOKS POND,SCHIST (HARTLAND GP)							CKPD 02
NM	364	COOKS RANGE,MBR (UPHAM DOL)		LS			SW	D	CKRG 01
OK	367	COOL CREEK,FM (ARBUCKLE GP)	U	LS		510	SE	A	CLCK 56
MA	340	COOLEYVILLE,GNEISS (PRESCOTT COMPLEX)					WC	D	CLVL 43
ME	360+	COOMBS,LS MBR (ISLESBORO FM)	U			30	SC	A	CMBS 02
ME	370	COOMBS,LS MBR (ISLESBORO FM)	U						CMBS 01
TN	211	COON CREEK,FM	U	SD		18	SW	A	CCRK 30
MS	212	COON CREEK,MBR (RIPLEY FM)							CCRK 27
MS	212	COON CREEK,TONGUE (RIPLEY FM)	U						CCRK 04
MS	212	COONEWAH,BED (ANNOA CHALK)				1	NE	C	CNWH 01
NM	123	COONEY,QUARTZ LATITE	U		RD	430	WC	A	CONY 07
NM	123	COONEY,QUARTZ LATITE (DATIL GP)							CONY 01
ID	221	COON HOLLOW,FM		MS		600	WC	D	CNHL 01
OR	221	COON HOLLOW,FM							CNHL 02
WA	221	COON HOLLOW,FM							CNHL 08
TX	319	COON MOUNTAIN,SS MBR (PUEBLO FM)	U			23	C	A	CNMN 04
TX	319	COON MOUNTAIN,SS MBR (STOCKWETHER FM)							CNMN 05
MO	344	COOPER,LS				18	C	A	COPR 03

GA	122+	COOPER,MARL	U							COPR	10
SC	122+	COOPER,MARL	U			30	C	A		COPR	05
GA	123	COOPER,MARL	U							COPR	01
SC	123	COOPER,MARL	U							COPR	02
GA	124	COOPER,MARL	U							COPR	11
SC	124	COOPER,MARL	U							COPR	11
IL	344	COOPER,MBR (GRAND TOWER LS)	U							COPR	06
NM	211	COOPER ARROYO,SS MBR (MANCOS SH)		SS		1	NC	E		CPRA	01
IA	325	COOPER CREEK,LS (MARMATON GP)				1	SC	C		CPCK	10
MO	325	COOPER CREEK,LS (MARMATON GP)								CPCK	12
NV	347	COOPER PEAK,DOL						NC		CPPK	01
MT	341	COOPERS LAKE,MBR (JEFFERSON LS)				100	NW	A		CPLK	01
ND	112	COOPERSTOWN,DRIFT				6	SE	D		CPRS	01
NY	344	COOPERSTOWN,SH MBR (MOSCOW FM)				140	C	D		CPRS	08
OR	121	COOS,CGL	U			3	SW	A		COOS	01
OR	121	COOS,CGL LENTIL (EMPIRE FM)								COOS	02
NH	300	[COOS,FM]		SCH		3000	NE	A		COOS	05
NH	300	/COOS,GP	U							COOS	03
NH	300	/COOS,QTZ (COOS GP)	U							COOS	04
NY	367	COPAKE,FM (WAPPINGER GP)				120	SE	A		COPK	02
NY	367	COPAKE,LS	U							COPK	01
CA	111	COPCO,BASALT				37	NW	C		COPC	01
ME	370	COPELAND,FM		SCH				C		CPLD	01
NV	364	COPENHAGEN,FM	U	SED		180	C	C		CPNG	01
CA	340	COPLÉY,GREENSTONE	U		GN	300	NW	A		CPLY	01
IL	325	COPPERAS CREEK,SS MBR (CARBONDALE FM)				8	C	A		CPCK	11
ID	331+	COPPER BASIN,FM	U	STS,QTZ		3000	SC	D		CPRB	01
ID	337	COPPER BASIN,FM	U							CPRB	02
ID	331+	COPPER BASIN,GP								CPRB	03
ID	337	COPPER BASIN,GP								CPRB	04
AZ	220+	COPPER BELLE,MONZONITE PORPHYRY	U					SE		CPBL	01
AZ	230	COPPER BELLE,MONZONITE PORPHYRY	U							CPBL	02
CA	121	COPPER CANYON,CGL		CST		3000	EC	D		CPRC	01
CA	121	COPPER CANYON,FM	U							CPRC	02
MI	420	[COPPER CITY,BASALT (PORTAGE LAKE VOLCS)]				150	NW	C		CPRC	05
MI	420	/COPPER CITY,FLOW (PORTAGE LAKE VOLCS)	U							CPRC	04
AZ	107+	COPPER CREEK,GRANODIORITE	U					SE		CPCK	01
AZ	211	COPPER CREEK,GRANODIORITE	U							CPCK	03
ID	337	COPPER CREEK,MBR (MULDOON FM)		CST		260	SC	C		CPCK	13
MI	420	COPPER HARBOR,CGL (KEWEENAWAN SUPERGROUP)	U			2300	NW	A		CPHB	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WI 420	COPPER HARBOR,CGL (KEWEENAWAN SUPERGROUP)	U						CPHB 02
GA 410	COPPERHILL,FM (GREAT SMOKY GP)							CPRL 02
NC 410	COPPERHILL,FM (GREAT SMOKY GP)							CPRL 03
TN 410	COPPERHILL,FM (GREAT SMOKY GP)		MSED		1500	SE	C	CPRL 04
CA 221	COPPER HILL,VOLCS	U			2100	C	D	CPHL 01
AZ 371	COPPER QUEEN,MBR (ABRIGO FM)	U			25	SE	A	CPRQ 02
AZ 371	COPPER QUEEN,MBR (ABRIGO LS)	U						CPRQ 01
AL 371	COPPER RIDGE,DOL (KNOX GP)	U						CPRG 11
GA 371	COPPER RIDGE,DOL (KNOX GP)	U						CPRG 06
KY 371	COPPER RIDGE,DOL (KNOX GP)	U						CPRG 09
TN 321	COPPER RIDGE,DOL (KNOX GP)	U			610	NE	A	CPRG 07
VA 371	COPPER RIDGE,DOL (KNOX GP)	U						CPRG 08
TN 371	COPPER RIDGE,DOL (LEE VALLEY GP)							CPRG 10
VA 371	COPPER RIDGE,FM (KNOX GP)							CPRG 04
MI 430	COPPS,FM							CPPS 03
WI 430	COPPS,FM		SL		700	NC	A	CPPS 05
OR 112	COQUILLE,FM	U	CGL		28	SW	C	CQLL 01
IL 332	CORA,MBR (CLORE FM)		SH,LS		10	SC	D	CORA 01
IN 338	CORAL RIDGE,MBR (NEW PROVIDENCE FM)							CRDG 03
KY 338	CORAL RIDGE,MBR (NEW PROVIDENCE FM)		SH		16	C	C	CRDG 04
IA 344	CORALVILLE,LS MBR (CEDAR VALLEY FM)				8	EC	A	CLVL 47
MN 344	CORALVILLE,MBR (CEDAR VALLEY FM)							CLVL 58
IL 344	CORALVILLE,MBR (CEDAR VALLEY LS)							CLVL 57
NM 217	CORBETT,SS (BISBEE GP)	U			1200	SW	C	CRBT 01
TN 324	CORBIN,CGL [MBR] (BRICEVILLE FM)	U						CRBN 09
KY 324	CORBIN,CGL MBR (LEE FM)	U			27	SE	A	CRBN 03
TN 324	CORBIN,CGL MBR (LEE FM)							CRBN 06
GA 400	CORBIN,GRANITE	U				NW	A	CRBN 08
KY 324	CORBIN,SS MBR (LEE FM)	U						CRBN 04
TN 324	CORBIN,SS MBR (LEE FM)							CRBN 07
KY 324	CORBIN,SS TONGUE (LEE FM)	U						CRBN 10
KS 323	CORBIN CITY,MBR (DRUM LS)				15	SC	A	CRBC 01
MO 323	CORBIN CITY,MBR (DRUM LS)							CRBC 02
OK 364	CORBIN RANCH,FM (SIMPSON GP)	U	LS		6	SE	C	CBRC 03
CA 112	CORCORAN,CLAY MBR (TULARE FM)	U			37	C	C	CRCR 01
CO 211	CORCORAN,MBR (PRICE RIVER FM)		SS		30	WC	C	CRCR 02
MI 354	CORDELL,DOL (MANISTIQUE GP)				23	NE	C	CRDL 05
WI 354	CORDELL,DOL (MANISTIQUE GP)							CRDL 11
MI 354	CORDELL,FM (MANISTIQUE GP)							CRDL 06
WI 354	CORDELL,FM (MANISTIQUE GP)							CRDL 12

MI	354	CORDELL,MBR (MANISTIQUE DOL)										CRDL	14	
WI	354	CORDELL,MBR (MANISTIQUE DOL)										CRDL	13	
NM	121	CORDITO,MBR (LOS PINOS FM)					CGL,TF		180	NC	C	CRDT	01	
AZ	317	CORDUROY,MBR (SUPAI FM)					SED		>100		C	C	CRDR	02
NJ	400	CORK HILL,GNEISS							270		NC	C	CKHL	01
VT	364	CORLISS,CGL				U			9	NW	A	CRLS	14	
VT	364	CORLISS,CGL MBR (MORSES LINE SLATE)										CRLS	15	
AZ	107	CORNELIA,QUARTZ MONZONITE				U					SC	C	CRNL	01
NY	341	CORNELL,FM					SH,SS		9		C	A	CRNL	16
OK	337	CORNELL RANCH,MBR (SYCAMORE LS)					LS,CST		24		SE	C	CLRC	01
CA	371	CORNFIELD SPRINGS,FM					DOL		230		SE	A	CSPG	26
AL	304	CORNHOUSE,SCHIST (WEDOWEE GP)									EC	E	CRNS	02
NY	341	CORNING,MBR (GARDEAU FM)					SH,STS		12		C	D	CRNG	01
PA	341	CORNING,MBR (GARDEAU FM)											CRNG	02
NY	341	CORNING,SH (WEST FALLS GP)											CRNG	03
KY	364	CORNISHVILLE,BED (PERRYVILLE MBR OF LEXINGTON LS)							2		C	A	CRVL	32
OR	217	CORNUCOPIA,TONALITE									NE	D	CRCP	01
NJ	344	CORNWALL,SH				U							CRNL	13
NY	344	CORNWALL,SH (HAMILTON GP)				U			61		SE	A	CRNL	14
AK	231	CORNWALLIS,LS (HYD GP)				U			61		SE	D	CRLS	06
CA	220	CORONA,HORNBLENDE GRANODIORITE PORPHYRY									SE	D	CORN	01
SC	310	CORONACA,GRANITE									NW	E	CRNC	01
AZ	371+	CORONADO,SS				U			76		SE	A	CRND	01
NM	371+	CORONADO,SS				U							CRND	02
AZ	374	CORONADO,SS				U							CRND	03
NM	374	CORONADO,SS				U							CRND	04
AK	344	CORONADOS,VOLCS				U			150		SE	E	CRDS	01
TX	122	COROUGH,SS MBR (CATAHOULA FM)							12		EC	C	CRGH	01
CA	220	CORRAL HOLLOW,SH MBR (FRANCISCAN FM)									WC	A	CLHL	03
NM	231	CORREO,SS BED (PETRIFIED FOREST MBR OF CHINLE FM)				U			37		WC	C	CORR	01
TX	122+	CORRIGAN,FM					SS,CS		140		EC	A	CRGN	01
TX	123	CORRIGAN,FM											CRGN	02
VA	347	CORRIGANVILLE,LS											CGVL	06
MD	347	CORRIGANVILLE,LS (HELDERBERG GP)							8		NW	E	CGVL	02
NY	347	CORRIGANVILLE,LS (HELDERBERG GP)											CGVL	07
PA	347	CORRIGANVILLE,LS (HELDERBERG GP)											CGVL	05
WV	347	CORRIGANVILLE,LS (HELDERBERG GP)											CGVL	04
PA	337	CORRY,FM (POCONO GP)							6		NW	A	CRRY	06
PA	337	CORRY,SS				U							CRRY	07
NY	337	CORRY,SS (POCONO GP)											CRRY	09



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OH 361	CORRYVILLE,SH MBR (MCMILLAN FM)	U			18	SW	A	CRVL 31
NV 371	CORSET SPRING,SH	U			20	EC	C	CSPG 29
UT 371	CORSET SPRING,SH	U						CSPG 30
UT 371	CORSET SPRING,SH MBR (ORR FM)	U						CSPG 35
TX 212	CORSICANA,FM (NAVARRO GP)	U			91	EC	A	CRSC 05
TX 212	CORSICANA,MARL (NAVARRO GP)	U						CRSC 02
AZ 217	CORTA,SS BED (JOSERITA MBR OF LOWELL FM)				11	SE	C	CORT 01
NY 357+	CORTLANDT,COMPLEX	U	IG			SE	A	CRLD 01
NY 361	CORTLANDT,COMPLEX	U						CRLD 02
AK 211+	CORWIN,FM (NANUSHUK GP)	U	SS		4700	NC	C	CRWN 01
AK 217	CORWIN,FM (NANUSHUK GP)	U						CRWN 03
MD 354	COSNER GAP,MBR (MIFFLINTOWN FM)							CRGP 04
PA 354	COSNER GAP,MBR (MIFFLINTOWN FM)							CRGP 07
VA 354	COSNER GAP,MBR (MIFFLINTOWN FM)							CRGP 02
WV 354	COSNER GAP,MBR (MIFFLINTOWN FM)		SH		9	EC	E	CRGP 03
CA 112+	COSO,FM	U	GVL,TF		91	C	C	COSO 01
CA 121	COSO,FM	U						COSO 02
CA 201	/COSO,GRANODIORITE					C	C	COSO 03
NY 377	COSSAYUNA,GP		GYK,QTZ		1500	EC	D	CSSN 04
NM 400	COSTILLA,GRANITE					NC	D	CSTL 11
OK 323	COTTAGE GROVE,SS MBR (CHANUTE FM)	U						CGGV 02
KS 323	COTTAGE GROVE,SS MBR (CHANUTE SH)	U			9	SE	A	CGGV 01
AR 367	COTTER,DOL	U			150	NC	A	CTTR 05
MO 367	COTTER,DOL	U						CTTR 08
KS 367	COTTER,DOL (ARBUCKLE GP)	U						CTTR 07
OK 367	COTTER,DOL (ARBUCKLE GP)	U						CTTR 09
NY 341	COTTON,FM (CONNEAUT GP)							CTTN 01
PA 341	COTTON,FM (CONNEAUT GP)		SED			NC	C	CTTN 02
AL 221	COTTON VALLEY,FM							CNVL 22
AR 221	COTTON VALLEY,FM	U						CNVL 02
LA 221	COTTON VALLEY,FM	U	SH,SS		990	NW	C	CNVL 04
MS 221	COTTON VALLEY,FM	U						CNVL 06
TX 221	COTTON VALLEY,FM	U						CNVL 08
AL 221	COTTON VALLEY,GP							CNVL 24
AR 221	COTTON VALLEY,GP	U						CNVL 03
LA 221	COTTON VALLEY,GP	U						CNVL 05
MS 221	COTTON VALLEY,GP							CNVL 07
TX 221	COTTON VALLEY,GP	U						CNVL 09
CA 210+	/COTTONWOOD,ADAMELLITE						D	CTND 03
CA 220	/COTTONWOOD,ADAMELLITE							CTND 05

CA	217	/COTTONWOOD,BEDS (HORSETOWN FM)		SS,CGL		2600	NW	C	CTND	04
NE	317	COTTONWOOD,LS (COUNCIL GROVE GP)							CTND	08
OK	317	COTTONWOOD,LS (COUNCIL GROVE GP)	U						CTND	10
OK	317	COTTONWOOD,LS (OSCAR GP)							CTND	12
KS	317	COTTONWOOD,MBR (BEATTIE LS)	U			2	EC	A	CTND	07
NE	317	COTTONWOOD,MBR (BEATTIE LS)							CTND	09
UT	400	/COTTONWOOD,QTZ				3000	NC	C	CTND	11
AZ	122	COTTONWOOD,RHYOLITE	U			180	NW	A	CTND	01
UT	121+	/COTTONWOOD CANYON,FM		VOL		300	SW	D	CNDC	01
UT	122	/COTTONWOOD CANYON,FM							CNDC	02
MT	337	COTTONWOOD CANYON,MBR (LODGEPOLE LS)	U						CNDC	03
WY	337+	COTTONWOOD CANYON,MBR (LODGEPOLE LS)	U			24	NC	D	CNDC	05
WY	341	COTTONWOOD CANYON,MBR (LODGEPOLE LS)	U						CNDC	09
MT	337	COTTONWOOD CANYON,MBR (MADISON LS)	U						CNDC	04
WY	337+	COTTONWOOD CANYON,MBR (MADISON LS)	U						CNDC	06
WY	341	COTTONWOOD CANYON,MBR (MADISON LS)	U						CNDC	10
TX	101+	COTTONWOOD SPRING,BASALT (BUCK HILL GP)				91	WC	C	CSPG	03
TX	123	COTTONWOOD SPRING,BASALT (BUCK HILL GP)							CSPG	08
TX	101+	COTTONWOOD SPRING,BASALT (GREEN VALLEY VOLCS)							CSPG	04
TX	123	COTTONWOOD SPRING,BASALT (GREEN VALLEY VOLCS)							CSPG	09
AZ	124+	COTTONWOOD WASH,FM		LS,TF		430	NW	E	CDWS	05
AZ	211	COTTONWOOD WASH,FM							CDWS	06
NV	123	/COTTONWOOD WASH,TUFF MBR (NEEDLES RANGE FM)							CDWS	03
UT	123	/COTTONWOOD WASH,TUFF MBR (NEEDLES RANGE FM)	U			88	SW	E	CDWS	04
TX	121	COUCH,FM (OGALLALA GP)		SD,GVL		38	NC	C	CUCH	01
PA	341	COUDERSPORT,MBR (CATTARAUGUS FM)		SS GN		6	NC	A	CDRP	06
WA	122	COUGAR MOUNTAIN,FM		VOL		1600	NC	D	CGRM	01
ID	122	COUGAR POINT,FM (IDAVADA VOLCS)							CGRP	01
NV	122	COUGAR POINT,FM (IDAVADA VOLCS)				380	NE	D	CGRP	03
ID	122	COUGAR POINT,WELDED TUFF	U						CGRP	02
NV	122	COUGAR POINT,WELDED TUFF	U						CGRP	04
CO	124	COUGHS CREEK,TONGUE (GREEN RIVER FM)	U	MRL		34	NW	E	CGCK	06
WY	211	COULSON,SH TONGUE (ROCK SPRINGS FM)				30	SW	D	CLSN	03
KS	317	COUNCIL GROVE,GP	U	LS,SH		100	EC	A	CCGV	01
NE	317	COUNCIL GROVE,GP	U						CCGV	02
OK	317	COUNCIL GROVE,GP	U						CCGV	03
ID	200+	COUNCIL MOUNTAIN,SCHIST					SW	D	CCLM	01
ID	300	COUNCIL MOUNTAIN,SCHIST							CCLM	02
NM	321	COUNCIL SPRING,LS (VEREDAS GP)				5	C	C	CSPG	22
NM	217	COURCHESNE,FM		LS		40	SC		CRCS	05

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX	218	COURCHESNE,FM							CRCS 03
MN	440	COUTCHICHING,FM						A	CCCC 09
WA	320	[COVADA,COMPLEX]		MET		2100	NE	A	COVD 05
WA	320	/COVADA,GP	U	SL,SH					COVD 02
VA	331	COVE CREEK,LS				300	SW	A	CVCK 10
UT	341	COVE FORT,QTZ				26	SW	C	CVFR 01
IL	325	COVEL,CGL MBR (CARBONDALE FM)		LS		<1	NE	C	COVL 02
NV	122	COVE MOUNTAIN,FM							CVMN-01
UT	122	COVE MOUNTAIN,FM							CVMN-01
PA	337	COVE MOUNTAIN,MBR (POCONO FM)		VOL		610	SW	C	CVMN 02
LA	125	COW BAYOU,FM (WILCOX GP)		SS		160	SC	C	CVMN 03
LA	125	COW BAYOU,MBR (LOGANSPORT FM)		SH		30	NW	C	CWBY 01
LA	125	COW BAYOU,MBR (LOGANSPORT FM)							CWBY 02
TX	125	COW BAYOU,MBR (LOGANSPORT FM)							CWBY 04
KY	337	COWBELL,MBR (BORDEN FM)	U	STS		53	EC	D	CBLL 01
NM	211+	COWBOY SPRING,FM	U	CGL		300	SW	D	CBSP 03
NM	217	COWBOY SPRING,FM	U						CBSP 04
NC	231	COW BRANCH,FM (DAN RIVER GP)							CBRC 04
VA	231	COW BRANCH,MBR (LEAKESVILLE FM)		CS,SH		100	SC	D	CBRC 02
TX	218	COW CREEK,BEDS (TRAVIS PEAK FM)				9	C	A	CCRK 09
TX	218	COW CREEK,FM							CCRK 10
CA	210+	COW CREEK,GRANODIORITE						C	CCRK 02
CA	220	COW CREEK,GRANODIORITE							CCRK 14
TX	218	COW CREEK,LS MBR (PEARSALL FM)	U						CCRK 11
TX	218	COW CREEK,LS MBR (TRAVIS PEAK FM)	U						CCRK 12
WY	211	COW CREEK,MBR (STEELE SH)				110	SC	D	CCRK 06
NM	312	COWDEN,ANHYDRITE MBR (SALADO FM)	U						CWDN 01
TX	312	COWDEN,ANHYDRITE MBR (SALADO FM)	U			5	WC	C	CWDN 02
RI	330	COWESETT,GRANITE (EAST GREENWICH GP)	U					C	CSTT 01
WA	112	COWICHE,GRAVEL						C	CWCH 01
NM	331	COWLES,MBR (TERERRO FM)	U	LS		15	NC	C	CWLS 01
KS	331	COWLEY,FM	U	DOL		91	SE	C	CWLY 01
UT	125	COWLEY CANYON,MBR (WASATCH FM)		LS		24	NC	B	CLCN 02
OR	124	COWLITZ,FM	U						CLTZ 01
WA	124	COWLITZ,FM	U	SH,LS		150	SW	A	CLTZ 02
OH	321	COW RUN,SS [MBR] (CONEMAUGH FM)				8	SE	A	CWRN 01
AZ	224	COW SPRINGS,SS	U			100	NE	C	CSPG 11
NM	224	COW SPRINGS,SS	U						CSPG 14
UT	224	COW SPRINGS,SS	U						CSPG 17
NM	217	COX,SS							COX 03
TX	218	COX,SS (TRINITY GP)	U			180	WC	A	COX 02

CA	221	COXCOMB,GRANODIORITE				SE	C	CXMB	01						
IN	324	COXVILLE,SS MBR (LINTON FM)				18	WC	A	CXVL	02					
CA	112	COYOTE,SILT				75	SC	D	COYT	01					
OR	317	COYOTE BUTTE,FM			U	LS		C	CTBT	01					
NM	123	COYOTE CANYON,FANGLOMERATE MBR (UVAS BASALT)				170	SC	E	CCNN	06					
MT	217	COYOTE CREEK,MBR (FALL RIVER FM)							CCRK	07					
SD	217	COYOTE CREEK,MBR (FALL RIVER FM)							CCRK	08					
WY	217	COYOTE CREEK,MBR (FALL RIVER FM)							CCRK	13					
CA	112	COYOTE HILLS,FM			U	MS,SS		SC	E	CHLS	01				
MA	340	COYS HILL,GRANITE (NEW HAMPSHIRE GP)			U			WC	A	CSHL	03				
NH	340	COYS HILL,GRANITE (NEW HAMPSHIRE GP)			U					CSHL	04				
CA	124	COZY DELL,FM (TEJON GP)						SC	A	CZDL	01				
CA	124	COZY DELL,SH			U					CZDL	02				
CA	124	COZY DELL,SH (TEJON GP)								CZDL	04				
CA	124	COZY DELL,SH MBR (TEJON FM)								CZDL	03				
CO	211	COZZETTE,MBR (PRICE RIVER FM)								CZZT	01				
VA	351	CRABBOTTOM,SS						SS	WC	C	CRBM	03			
KY	354+	CRAB ORCHARD,FM			U	SH			C	C	CRBM	03			
OH	354+	CRAB ORCHARD,FM						12	EC	A	CBOC	03			
KY	357	CRAB ORCHARD,FM			U						CBOC	06			
OH	357	CRAB ORCHARD,FM			U						CBOC	09			
GA	327	CRAB ORCHARD MOUNTAINS,FM			U						CBOC	12			
TN	327	CRAB ORCHARD MOUNTAINS,FM			U	CGL,SH		200	C	C	CBOM	01			
GA	327	CRAB ORCHARD MOUNTAINS,GP									CBOM	03			
GA	327	CRAB ORCHARD MOUNTAINS,GP									CBOM	02			
TN	327	CRAB ORCHARD MOUNTAINS,GP									CBOM	04			
CA	217	CRACK CANYON,FM						SH,SS			12000	NW	C	CCKC	01
VT	340	CRAFTSBURY,GRANITE (NEW HAMPSHIRE GP)							NC	A	CRFB	01			
AL	304	CRAGFORD,PHYLLITE (WEDOWEE GP)							EC	E	CGFD	01			
OR	210+	CRAGGY,GNEISS							SW	A	CRGG	03			
OR	220	CRAGGY,GNEISS									CRGG	04			
OR	230	CRAGGY,GNEISS									CRGG	05			
MA	304	CRAIG MOUNTAIN,FM			U	MET			NW	C	CRGM	01			
TN	374	CRAIG,LS MBR (ROGERSVILLE SH)			U			26	NE	C	CRIG	02			
AZ	101	CRAIGS RANCH,BASALT							NW	E	CGRC	01			
IL	323	CRAMER,LS MBR (MODESTO FM)						<1	NC	C	CRMR	01			
VT	364	CRAM HILL,FM			U	MET		790	C	C	CMHL	03			
VT	364	CRAM HILL,MBR (MISSISQUOI FM)									CMHL	04			
NC	420	CRANBERRY,GNEISS			U				NW	A	CRBR	09			
TN	420	CRANBERRY,GNEISS			U						CRBR	11			
NC	420	CRANBERRY,GRANITE GNEISS									CRBR	10			

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN	420	CRANBERRY,GRANITE GNEISS							CRBR 12
ME	347	CRANBERRY ISLAND,VOLCS				610	SE	A	CBID 01
IN	344	CRANBERRY MARSH,MBR (DETROIT RIVER FM)		LS		13	NW	E	CRBM 05
MT	124	CRANDALL,CGL	U						CRDL 01
WY	124	CRANDALL,CGL	U			110	NW	C	CRDL 02
IL	371	CRANE,MBR (MOUNT SIMON SS)				230	NE	C	CRNE 01
MT	112	CRANE CREEK,GRAVEL	U			9	NW	C	CRCK 04
ND	112	CRANE CREEK,GRAVEL	U						CRCK 05
NY	367	CRANESVILLE,DOL				21	EC	C	CRVL 35
NY	367	CRANESVILLE,FM							CRVL 36
NM	123	CRANKTOWN,SS	U		RD	150	WC	A	CRNK 01
AK	111+	CRATER CREEK,BASALT	U			150	SW	C	CRCK 01
AK	112	CRATER CREEK,BASALT	U						CRCK 03
OR	111	CRATER LAKE,PUMICE					SW	C	CRLK 04
WY	101	CRATER MOUNTAIN,DACITE					NW	D	CRRM 02
OK	347	CRAVATT,FM (KITE GP)		LS,SH		23	SE	C	CRVT 01
OK	347	CRAVATT,MBR (BOIS D'ARC LS)							CRVT 02
CO	430	CRAWFORD GULCH,FM		SCH		1500	NC	E	CFGC 01
AZ	400	CRAZY BASIN,QUARTZ MONZONITE	U					E	CRZB 01
TX	218	/CRAZY CAT,FM		MRL			WC	E	CRZC 01
NM	354	CRAZYCAT,MBR (FUSSELMAN DOL)							CRZC 02
TX	354	CRAZYCAT,MBR (FUSSELMAN DOL)							CRZC 03
UT	124	CRAZY HOLLOW,FM		SS,STS		180	C	C	CZHL 02
SD	123	CRAZY JOHNSON,MBR (CHADRON FM)		CL,SD		12	SW	C	CRZJ 01
MT	124	CRAZY MOUNTAIN,GRANITE						C	CRZM 01
IL	325	/CREAL SPRINGS,LS MBR (SPOON FM)				1	SC	C	CSPG 24
IL	325	CREAL SPRINGS,SS						SC	CSPG 23
CO	123	CREEDE,FM	U	TF,BRC		610	SW	A	CRED 01
OK	325	CREKOLA,SS MBR (BOGGY SH)	U			3	EC	A	CRKL 01
LA	124	CREOLA,MBR (COCKFIELD FM)		SED		10	WC	C	CROL 01
TX	124	CREOLA,MBR (YEGUA FM)							CROL 03
MD	354	CRESAPTOWN,SS MBR (CLINTON FM)			RD	9	NW	A	CRSP 03
MD	354	CRESAPTOWN,SS MBR (ROSE HILL FM)							CRSP 04
WA	124	CRESCENT,FM	U	BAS		370	NW	A	CRSC 01
CA	100	CRESCENT CLIFFS,DACITE					NW	C	CCCFC 01
CA	100	CRESCENT CRATER,DACITE					NW	A	CRCC 01
WY	124	CRESCENT HILL,BASALT (SUNLIGHT GP)	U			24	NW	C	CCHL 02
CO	430	CRESSMANS GULCH,FM		GN		240	NC	E	CMGC 01
KS	317	CRESSWELL,LS (CHASE GP)				5	SE	A	CRSL 03
KS	317	CRESSWELL,MBR (WINFIELD LS)	U						CRSL 04

ID	420	CRESTON,FM (BELT SUPERGROUP)				3000	NW	A	CRSN	17	
MT	420	CRESTON,FM (BELT SUPERGROUP)							CRSN	19	
ID	420	CRESTON,QTZ (BELT SUPERGROUP)							CRSN	18	
MT	420	CRESTON,QTZ (BELT SUPERGROUP)							CRSN	20	
OH	317	CRESTON,SH [MBR] (WASHINGTON FM)							CRSN	21	
WV	317	CRESTON,SH [MBR] (WASHINGTON FM)			RD	18	WC	A	CRSN	12	
CO	317+	CRESTONE,CGL MBR (MAROON FM)				1800	SC	A	CRSN	09	
CO	321	CRESTONE,CGL MBR (MAROON FM)							CRSN	13	
CO	317+	CRESTONE,CGL MBR (SANGRE DE CRISTO FM)							CRSN	10	
CO	321	CRESTONE,CGL MBR (SANGRE DE CRISTO FM)							CRSN	14	
OK	317	CRETA,DOL MBR (BLAINE FM)				8	SC	A	CRET	05	
KS	112	CRETE,FM			U				CRET	01	
NE	112	CRETE,FM			U	SD	3	SE	C	CRET	03
KS	112	CRETE,FM (SANBORN GP)							CRET	02	
NE	112	CRETE,MBR (LOVELAND FM)							CRET	06	
NE	112	CRETE,MBR (SHERIDAN FM)							CRET	07	
AZ	211	CREVASSE CANYON,FM (MESAVERDE GP)			U				CRVC	01	
NM	211	CREVASSE CANYON,FM (MESAVERDE GP)			U	SS	210	NW	C	CRVC	02
MT	440	CREVICE MOUNTAIN,GRANITE						SC	E	CVCM	01
WY	440	CREVICE MOUNTAIN,GRANITE							E	CVCM	02
CA	211	CREVISION,SS					300	C	D	CRVS	01
OK	323	CRINERVILLE,LS (HOXBAR GP)					3	SE	A	CRVL	15
OK	323	CRINERVILLE,LS MBR (HOXBAR FM)								CRVL	16
AK	112+	CRIPPLE,GRAVEL			U		25	EC	E	CRPL	03
AK	121	CRIPPLE,GRAVEL			U					CRPL	04
CO	420	CRIPPLE CREEK,GRANITE			U			C	A	CPCK	19
AL	331	CRIPPLE DEER,SS MBR (ALSOBROOK FM)					11	NW	A	CPLD	02
MS	331	CRIPPLE DEER,SS MBR (ALSOBROOK FM)								CPLD	03
KS	317	CRISFIELD,SS BED (SALT PLAINS FM)					9	SC	C	CFLD	09
KS	317	CRISFIELD,SS MBR (SALT PLAINS FM)								CFLD	02
OK	317	CRISFIELD,SS MBR (SALT PLAINS FM)								CFLD	08
KS	323	CRITZER,MBR (HERTHA LS)					5	EC	A	CRZR	01
MO	323	CRITZER,MBR (HERTHA LS)								CRZR	02
NC	121	CROATAN,FM (CHESAPEAKE GP)			U	SD	1	EC	A	CRTN	01
LA	124	CROCKETT,FM (CLAIBORNE GP)								CRCK	12
TX	124	CROCKETT,FM (CLAIBORNE GP)				CL	49	EC	A	CRCK	13
MN	420	CROFTVILLE,BASALT (NORTH SHORE GP)					180	NE	E	CFVL	02
MN	112	CROMWELL,FM				TL		NE	E	CRML	01
OK	328	CROMWELL,SS MBR (UNION VALLEY FM)					60	SE	E	CRML	14
AZ	341	CROOK,FM				LS		C	C	CROK	01

GEOLOGIC ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICKNESS	TYPE LOC.	REF.	IDENT.
OK 112	/CROOKED CREEK,FM	U						CKCK 02
KS 112	/CROOKED CREEK,FM (MEADE GP)	U	SD,GVL		18	SW	C	CKCK 01
PA 344	CROOKED CREEK,SH MBR (MAHANTANGO FM)				38	SC	D	CKCK 17
TN 324+	CROOKED FORK,GP		SS,SH		110	NE	C	CKFK 03
TN 327	CROOKED FORK,GP							CRFK 08
AZ 400	CROOKS CANYON,GRANODIORITE	U					C	CRKC 03
WY 124	CROOKS GAP,CGL	U			460	C	E	CKGP 01
NE 122	CROOKSTON BRIDGE,MBR (VALENTINE FM)		SD		53	NC	E	CKBG 03
SD 122	CROOKSTON BRIDGE,MBR (VALENTINE FM)							CKBG 04
WY 124	CROSBY,BRECCIA MBR (WIGGINS FM)				160	NW	D	CRSB 01
NV 304	CROSBY,FM		CH		2100	NE	D	CRSB 02
NY 341	CROSBY,LENTIL (STARKEY TONGUE OF SHERBURNE FM)					WC	A	CRSB 03
NY 341	CROSBY,SS (GENESEE GP)							CRSB 04
TX 124	CROSSEN,TRACHYTE (BUCK HILL GP)				46	WC	C	CRSN 06
TN 324	CROSS MOUNTAIN,FM		SH,SS		170	NE	C	CRSM 03
TN 324	CROSS MOUNTAIN,GP							CRSM 01
LA 124	CROSSROADS,LENTIL (COOK MOUNTAIN FM)		GLC		5	NC	D	CRRD 01
TN 324	CROSSVILLE,SS (CROOKED FORK GP)				12	C	C	CRVL 18
DE 211	CROSSWICKS,CLAY (MATAWAN GP)	U						CRCK 17
MD 211	CROSSWICKS,CLAY (MATAWAN GP)	U						CRCK 18
NJ 211	CROSSWICKS,CLAY (MATAWAN GP)	U			15	C	C	CRCK 20
NH 347	CROTCHED MOUNTAIN,MBR (LITTLETON FM)		SCH		1600	SC	E	CCDM 01
IA 333	CROTON,MBR (ST. LOUIS LS)				9	SE	A	CRTN 09
NY 361	CROTON FALLS,COMPLEX					SE	A	CRFL 03
NY 361	CROTON FALLS,DIORITE							CRFL 01
KS 317	CROUSE,LS (COUNCIL GROVE GP)	U						CRUS 01
NE 317	CROUSE,LS (COUNCIL GROVE GP)							CRUS 02
OK 317	CROUSE,LS (COUNCIL GROVE GP)				1	NE	A	CRUS 03
SD 400	CROW,FM	U	MET		46	SW	D	CROW 01
SD 211	CROW CREEK,MBR (PIERRE SH)	U	SD,MRL		5	C	C	CRCK 22
CA 121	CROWDER,FM	U	SS		550	SE	D	CRDR 01
MO 325	CROWEBURG,FM (CABANISS GP)							CRBG 04
OK 325	CROWEBURG,FM (CABANISS GP)							CRBG 06
KS 325	CROWEBURG,FM (CHEROKEE GP)		LS,SH		5	SE	C	CRBG 03
MO 325	CROWEBURG,FM (CHEROKEE GP)							CRBG 05
ND 211	CROWHOST,MBR (HELL CREEK FM)		SH		9	SC	E	CRGS 01
VT 347	CROW HILL,MBR (WAITS RIVER FM)		QTZ			NE	C	CRHL 02
WY 231	CROW MOUNTAIN,SS (CHUGWATER GP)	U			62	NW	C	CRMN 05
WY 231	CROW MOUNTAIN,SS MBR (CHUGWATER FM)							CRMN 11
OR 121	CROWN POINT,LAVA MBR (TROUTDALE FM)				9	NW	C	CRNP 01

NY	364	CROWN POINT,LS (CHAZY GP)	U			76	NE	A	CRNP	02
VT	364	CROWN POINT,LS (CHAZY GP)	U						CRNP	03
VT	364	CROWN POINT,MBR (CHAZY LS)							CRNP	04
ID	112	CROWNEST,GRAVEL (SNAKE RIVER GP)	U			15	SC	D	CRSS	01
NH	344	/CROYDON,GP		IG			SC	C	CRDN	02
NH	344	[CROYDON,QUARTZ DIORITE (OLIVERIAN GP)]							CRDN	03
UT	224	CRYSTAL CREEK,MBR (CARMEL FM)		SS	RD	68	SW	E	CLCK	18
MI	430	CRYSTAL FALLS,FM		FE			NW	A	CLFL	05
TX	321	CRYSTAL FALLS,LS (CISCO GP)				1	C	A	CLFL	07
TX	321	CRYSTAL FALLS,LS (THRIFTY GP)							CLFL	02
TX	321	CRYSTAL FALLS,LS MBR (HARPERSVILLE FM)							CLFL	06
TX	321	CRYSTAL FALLS,LS MBR (THRIFTY FM)	U						CLFL	03
CO	123	CRYSTAL LAKE,TUFF	U			50	SW	E	CLLK	05
AR	367	CRYSTAL MOUNTAIN,SS	U			210	WC	A	CRLM	01
OK	367	CRYSTAL MOUNTAIN,SS	U						CRLM	02
NV	341	CRYSTAL PASS,LS				79	SE	A	CRLP	05
CA	341	CRYSTAL PASS,MBR (SULTAN LS)							CRLP	01
NV	341	CRYSTAL PASS,MBR (SULTAN LS)	U						CRLP	02
NV	364	CRYSTAL PEAK,DOL							CLPK	02
UT	364	CRYSTAL PEAK,DOL	U			26	WC	C	CLPK	03
GA	124	CRYSTAL RIVER,FM							CLRV	03
FL	124	CRYSTAL RIVER,FM (OCALA GP)		LS		33	NE	C	CLRV	01
CO	324	CRYSTAL RIVER,STS MBR (GOTHIC FM)		STS	YL	42	WC	E	CLRV	02
CA	420	CRYSTAL SPRING,FM (PAHRUMP GP)	U	SED,IG		610	SE	C	CSPG	33
ID	374	CUB,SH MBR (UTE LS)	U				SE	E	CUB	01
UT	374	CUB,SH MBR (UTE LS)	U						CUB	03
ID	374	CUB,TONGUE (LEAD BELL SH)	U						CUB	02
UT	374	CUB,TONGUE (LEAD BELL SH)	U						CUB	04
NY	341	CUBA,FM (CANADAWAY GP)				5	WC	A	CUBA	01
NY	341	CUBA,MBR (CANADAWAY FM)							CUBA	02
NY	341	CUBA,SS (CONNEAUT GP)							CUBA	04
NY	341	CUBA,SS MBR (WELLSVILLE FM)							CUBA	03
NM	124	CUBA MESA,MBR (SAN JOSE FM)	U	SS		240	NC	D	CBMS	01
NM	211	CUBERO,TONGUE (DAKOTA SS)	U			15	WC	E	CUBR	01
CA	122	CUBIERTO,SH MBR (PUENTE FM)				260	SE	C	CBRT	01
NM	124	CUB MOUNTAIN,FM		SS		150	C	C	CBMN	02
CA	111	/CUCAMONGA,FAN DEPOSITS					SE	C	CCMG	01
CA	111	[CUCAMONGA,GRAVEL]							CCMG	02
CO	124	CUCHARA,FM	U	SS,SH		760	SC	C	CCHR	01
NM	124	CUCHARA,FM	U						CCHR	02



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM	217	CUCHILLO,FM		GYP		600	MEX	A	CCLL 08
TX	218	CUCHILLO,FM (TRINITY GP)							CCLL 03
NM	324	CUCHILLO NEGRO,FM (MUD SPRINGS GP)		LS		9	SW	C	CCNG 01
NM	112	CUERBIO,BASALT				12	NC	C	CURB 01
TX	122	CUERO,FM (FLEMING GP)		SS		110	SE	C	CURO 01
NM	231	CUERVO,SS MBR (CHINLE FM)				68	NE	E	CURV 01
CA	217	CUESTA,DIABASE	U				SC	A	CUST 01
NM	124	CUEVA,RHYOLITE				76	SC	A	CUEV 01
MO	339	CUIVRE,MBR (HANNIBAL SH)				4	NE	C	CUVR 02
MO	339	CUIVRE,SH							CUVR 01
UT	112	CULBERT,BRECCIA				45	SW	C	CLBR 01
NM	312	CULEBRA,DOL MBR (RUSTLER FM)	U			11	SW	C	CLBR 15
TX	312	CULEBRA,DOL MBR (RUSTLER FM)							CLBR 16
NM	101	CULEBRA LAKE,CLAY				32	NC	C	CLBK 01
WA	227+	CULTUS,FM		ARG	BK	900	CAN	A	CLTS 04
WA	231	CULTUS,FM							CLTS 03
KY	361	CUMBERLAND,FM	U	SS		30	SC	A	CMBD 01
TN	337+	CUMBERLAND GAP,MBR (CHATTANOOGA SH)			BK	39	NE	A	CBGP 05
VA	337+	CUMBERLAND GAP,MBR (CHATTANOOGA SH)							CBGP 06
TN	341	CUMBERLAND GAP,MBR (CHATTANOOGA SH)							CBGP 07
VA	341	CUMBERLAND GAP,MBR (CHATTANOOGA SH)							CBGP 08
NY	364	CUMBERLAND HEAD,ARGILLITE				46	NE	A	CMBH 06
NY	364	CUMBERLAND HEAD,FM							CMBH 02
VT	364	CUMBERLAND HEAD,FM (TRENTON GP)							CMBH 03
NY	364	CUMBERLAND HEAD,SH							CMBH 04
IA	364	CUMMINGSVILLE,MBR (GALENA DOL)							CMGV 01
MN	364	CUMMINGSVILLE,MBR (GALENA FM)		LS		19	SC	C	CMGV 02
KY	337	CUMMINS STATION,SH BED (MULDRAUGH MBR OF BORDEN FM)				5	EC	C	CMSS 01
NC	231	CUMNOCK,FM (NEWARK GP)	U	SH,SS		300	C	A	CMCK 06
GA	400	CUNNINGHAM,GRANITE	U				WC	C	CNGM 01
TN	364	CURDSVILLE,LS MBR (HERMITAGE FM)	U						CDVL 22
KY	364	CURDSVILLE,MBR (LEXINGTON LS)	U			9	C	A	CDVL 21
CO	420	CURECANTI,QUARTZ MONZONITE	U				WC	A	CRCN 06
IL	325	CURLEW,LS MBR (SPOON FM)	U						CRLW 02
KY	324	CURLEW,LS MBR (TRADEWATER FM)	U			1	WC	A	CRLW 05
NV	123	CURRANT,TUFF	U			120	EC	C	CRNT 01
UT	211	CURRANT CREEK,FM	U	CGL,SS		1400	C	C	CRCK 23
TX	321	CURRY,CLAY MBR (HARPERSVILLE FM)			RD	10	C	C	CRRY 10
UT	317	CURRY,FM		LS,SS		850	NC	D	CRRY 01
MI	430	/CURRY,IRON-BEARING MBR (VULCAN IRON-FORMATION)	U			69	C	A	CRRY 08



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 361	CUTTER,FM (MONTTOYA GP)							CTTR 02
TX 361	CUTTER,FM (MONTTOYA GP)							CTTR 11
NM 361	CUTTER,MBR (MONTTOYA DOL)	U						CTTR 03
TX 361	CUTTER,MBR (MONTTOYA DOL)	U						CTTR 04
VT 367	CUTTING,DOL (BEEKMANTOWN GP)	U			110	WC	C	CTNG 19
VT 367	CUTTING,DOL (STOCKBRIDGE GP)	U						CTNG 18
NY 367	CUTTING,FM (BEEKMANTOWN GP)							CTNG 20
OH 337	CUYAHOGA,FM	U	SH,SS		46	NE	A	CYHG 01
NY 337	CUYAHOGA,FM (POCONO GP)							CYHG 05
PA 337	CUYAHOGA,FM (POCONO GP)	U						CYHG 03
OH 337	CUYAHOGA,GP	U						CYHG 02
PA 337	CUYAHOGA,GP	U						CYHG 04
CA 121	CUYAMA,FM	U	CST		180	SC	A	CUYM 02
CA 211	CUYAMACA,GABBRO	U				SE	A	CYMC 01
NY 344	CUYLER,BED (TULLY LS)		STS		3	C	E	CYLR 01
CA 123	CYMRIC,SH MBR (TEMBLOR FM)	U			23	SC	E	CMRC 02
AK 224	CYNTHIA FALLS,SS (TUXEDNI GP)	U			240	C	C	CFLS 01
KY 332	CYPRESS,FM	U						CPRS 11
MO 332	CYPRESS,FM	U						CPRS 10
IN 332	CYPRESS,FM (WEST BADEN GP)							CPRS 09
IL 332	CYPRESS,SS	U			46	SC	A	CPRS 02
KY 332	CYPRESS,SS	U						CPRS 05
TN 332	CYPRESS,SS	U						CPRS 07
IN 332	CYPRESS,SS (WEST BADEN GP)							CPRS 04
IL 332	CYPRESS,SS (WEST BRANCH GP)							CPRS 12
MT 217	CYPRIAN,SS MBR (THERMOPOLIS SH)	U			8	NC	C	CPRN 05
IL 361	CYRENE,FM (EDGEWOOD GP)							CYRN 01
MO 361	CYRENE,FM (EDGEWOOD GP)				5	NE	A	CYRN 03
MO 361	CYRENE,MBR (EDGEWOOD LS)							CYRN 02
WY 211	DAD,SS MBR (LEWIS SH)				430	SC	D	DAD 01
AL 307	DADEVILLE,COMPLEX		MET			EC	E	DDVL 01
GA 307	DADEVILLE,COMPLEX							DDVL 02
AK 330	DADINA,SCHIST	U				EC	A	DDIN 01
TX 371	DAGGER FLAT,FM				91	WC	A	DGFL 01
TX 371	DAGGER FLAT,SS	U						DGFL 02
ME 350	DAGGETT RIDGE,FM	U	RTZ,SL		300	EC	D	DGRG 01
UT 374	DAGMAR,DOL	U			30	C	A	DGMR 02
UT 374	DAGMAR,MBR (UTE LS)							DGMR 03
ND 112	DAHLEN,FM		ST,SD		12	NE	E	DHLN 01
WI 420	DAKE,RTZ				65	SC	A	DAKE 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OR 124	DALLAS,LS MBR (YAMHILL FM)				23	NW	C	DLLS 03
OR 121	DALLES,FM	U	VSED		300	NC	A	DLLS 01
WA 121	DALLES,FM	U						DLLS 02
CT 377+	DALTON,FM	U						DLTN 13
MA 377+	DALTON,FM	U	CGL		210	NW	A	DLTN 05
NY 377+	DALTON,FM	U						DLTN 06
VT 377+	DALTON,FM	U						DLTN 07
CT 410	DALTON,FM	U						DLTN 14
MA 410	DALTON,FM	U						DLTN 09
NY 410	DALTON,FM	U						DLTN 10
VT 410	DALTON,FM	U						DLTN 11
NM 211	DALTON,SS MBR (CREVASSE CANYON FM)	U			55	NW	A	DLTN 02
MT 124	DALY CREEK,MBR (SEPULCHER FM)	U						DLCK 02
WY 124	DALY CREEK,MBR (SEPULCHER FM)	U	VOL		120	NW	E	DLCK 03
CT 307	DALY SWAMP,MBR (BRIMFIELD SCHIST)	U			210	EC	E	DSMP 03
NY 341	DAMASCUS,FM							DMSC 01
PA 341	DAMASCUS,MBR (CATSKILL FM)		SH		120	NE	A	DMSC 02
MT 374	DAMNATION,LS	U			45	NW	C	DMNN 01
MA 364	DANA,DIORITE	U		BK		C	A	DANA 03
NH 364	DANA,DIORITE	U						DANA 04
GA 300	DANBURG,GRANITE					NC	D	DBRG 01
CT 307	DANBURY,GRANITE GNEISS					WC	A	DNBR 01
VT 371	DANBY,FM (STOCKBRIDGE GP)		SS,QTZ		91	SW	A	DNBY 02
VT 371	DANBY,FM (WOOD CORNERS GP)	U						DNBY 01
IA 364	DANE,MBR (PECATONICA FM)							DANE 03
IL 364	DANE,MBR (PECATONICA FM)							DANE 01
MO 364	DANE,MBR (PECATONICA FM)							DANE 04
WI 364	DANE,MBR (PLATTEVILLE FM)							DANE 02
OR 122	DANFORTH,FM	U	DOL		4	NC	C	DNFR 01
NV 122	DANGER POINT,TUFF	U	VOL		240	EC	C	DGRP 01
AZ 104	DANIELS,CGL	U			76	NE	D	DGRL 01
NM 319	DANLEY RANCH,TONGUE (ABO SS)	U			61	SC	C	DNLS 01
VA 231	DAN RIVER,FM							DLRC 01
NC 231	DAN RIVER,GP							DRVR 02
AL 218	DANTZLER,FM	U				NC	A	DRVR 01
LA 218	DANTZLER,FM	U						DZLR 01
MS 218	DANTZLER,FM	U	SH		320	SE	C	DZLR 02
IL 325	DANVILLE,COAL MBR (CARBONDALE FM)				1	EC	C	DZLR 03
IN 324	DANVILLE,COAL MBR (DUGGER FM)							DNVL 01
LA 124	DANVILLE LANDING,FM (JACKSON GP)		SD,CL		12	SC	C	DNVL 02

WY	337+	DARBY,FM	U	SH,DOL	130	NW	A	DRBY	03	
ID	341+	DARBY,FM	U					DRBY	04	
WY	341	DARBY,FM	U					DRBY	05	
ID	344	DARBY,FM	U					DRBY	06	
WY	344	DARBY,FM	U					DRBY	11	
CA	122	DARDANELLES,FM (STANISLAUS GP)	U	VOL	61	C	D	DRDL	09	
NV	122	DARDANELLES,FM (STANISLAUS GP)	U					DRDL	08	
CA	122	DARDANELLES,LATITE						DRDL	05	
CA	122	DARDANELLES,MBR (STANISLAUS FM)						DRDL	03	
KY	327	DARK RIDGE,MBR (LEE FM)	U	SS,SH	19	SE	D	DKRG	01	
VA	327	DARK RIDGE,MBR (LEE FM)						DKRG	02	
WA	200	DARLING LAKE,GABBRO					NC	D	DGLK	01
WA	307+	DARRINGTON,PHYLLITE			3000	NW	D	DRNG	07	
WA	347	DARRINGTON,PHYLLITE						DRNG	08	
NV	104	DARROUGH,FELSITE	U				C	C	DRRG	01
CA	201	DARWIN,QUARTZ DIORITE					C	C	DRWN	01
MT	331	DARWIN,SS MBR (AMSDEN FM)	U					DRWN	03	
WY	331	DARWIN,SS MBR (AMSDEN FM)	U		18	WC	A	DRWN	02	
KS	322	DASHNER,MBR (TOPEKA LS)			2	NE	A	DSNR	01	
AZ	123	DATIL,FM	U					DTIL	01	
NM	123	DATIL,FM	U		610	WC	A	DTIL	03	
NM	123	DATIL,GP						DTIL	05	
AZ	123	DATIL,VOLCS						DTIL	02	
NM	123	DATIL,VOLCS						DTIL	04	
OK	323	DAUBE,LS (HOXBAR GP)				3	SE	A	DUBE	01
OK	323	DAUBE,MBR (HOXBAR FM)						DUBE	02	
NJ	364	DAUPHIN,SH						DPHN	01	
PA	364	DAUPHIN,SH (MARTINSBURG GP)			1100	SC	C	DPHN	02	
IA	344	DAVENPORT,MBR (WAPSIPINICON LS)			9	EC	A	DVPR	01	
IL	344	DAVENPORT,MBR (WAPSIPINICON LS)						DVPR	02	
KS	112	DAVID CITY,FM	U					DVDC	01	
NE	112	DAVID CITY,FM	U	GVL,SD	30	EC	A	DVDC	02	
NV	122	DAVIDSON,GRANODIORITE	U				WC	C	DVDS	01
OK	374	DAVIDSON,GRANOPHYRE					SC	A	DVDS	02
OK	374	DAVIDSON,RHYOLITE (CARLTON GP)						DVDS	03	
KS	371	DAVIS,FM	U					DVIS	06	
OK	371	DAVIS,FM	U					DVIS	09	
MO	371	DAVIS,FM (ELVINS GP)	U	SH,LS	30	SE	A	DVIS	07	
IL	371	DAVIS,MBR (FRANCONIA FM)						DVIS	11	
OK	326	DAVIS,SS MBR (LAKE MURRAY FM)					SE	D	DVIS	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 217	DAVIS CANYON,FM		SH		2000	NW	D	DVSC 01
MT 440	DAVIS CREEK,SCHIST (NORTH SNOWY GP)					SC	E	DVCK 07
PA 317	DAVISTOWN,SS [MBR] (WASHINGTON FM)				9	SW	C	DVSN 01
WV 317	DAVISTOWN,SS [MBR] (WASHINGTON FM)							DVSN 02
NE 122	DAWES,CLAY MBR (BOX BUTTE FM)				9	NW	E	DWES 02
NY 354	DAWES,DOL (CLINTON GP)				2	C	C	DWES 03
NY 354	DAWES,SS (CLINTON GP)							DWES 01
UT 337	DAWN,DOL MBR (REDWALL LS)							DAWN 04
NV 337	DAWN,LS (MONTE CRISTO GP)	U			120	SE	A	DAWN 02
CA 337	DAWN,MBR (MONTE CRISTO LS)	U						DAWN 01
NV 337	DAWN,MBR (MONTE CRISTO LS)	U						DAWN 03
CO 125+	DAWSON,ARKOSE	U		VAR	610	C	A	DWSN 01
CO 211	DAWSON,ARKOSE	U						DWSN 04
CO 125+	DAWSON,FM	U						DWSN 02
CO 211	DAWSON,FM	U						DWSN 05
MT 344	DAWSON BAY,FM	U	LS,SH		61	CAN	C	DSNB 02
ND 344	DAWSON BAY,FM	U						DSNB 03
SD 344	DAWSON BAY,FM	U						DSNB 04
ND 344	DAWSON BAY,FM (BEAVERHILL LAKE GP)							DSNB 06
ND 344	DAWSON BAY,FM (MANITOBA GP)							DSNB 05
AK 112	DAWSON CUT,FM	U	ST		1	EC	E	DSNC 01
CO 311	DAY CREEK,DOL	U						DCRK 03
KS 311	DAY CREEK,DOL	U			1	SW	A	DCRK 04
NE 311	DAY CREEK,DOL	U						DCRK 05
OK 311	DAY CREEK,DOL MBR (CLOUD CHIEF FM)	U						DCRK 06
ID 300	DAYLEY CREEK,QTZ (DOVE CREEK GP)				2100	SC	E	DLCK 06
NY 364	DAY POINT,LS (CHAZY GP)					NE	A	DPNT 01
VT 364	DAY POINT,LS (CHAZY GP)							DPNT 02
VT 364	DAY POINT,MBR (CHAZY LS)							DPNT 03
OR 217	DAYS CREEK,FM (MYRTLE GP)	U	SS,STS		250	SW	C	DCRK 02
IL 364	DAYSVILLE,MBR (GLENWOOD FM)		DOL		1	NC	C	DSVL 03
KY 354	DAYTON,LS							DYTN 02
OH 354	DAYTON,LS	U			2	WC	A	DYTN 01
OH 354	DAYTON,LS MBR (NOLAND FM)							DYTN 03
NY 347	DAYVILLE,LS (HELDERBERG GP)						C	DVLL 04
NY 347	DAYVILLE,MBR (COEYMANS LS)							DVLL 03
NM 211	D-CROSS,TONGUE (MANCOS SH)	U			58	WC	C	DCRS 01
CO 367	DEAD HORSE,CGL MBR (MANITOU FM)	U			33	WC	C	DDHR 02
NV 124	DEAD HORSE,TUFF	U			1500	NE	C	DDHR 01
WY 211	DEAD HORSE CREEK,MBR (PARKMAN SS)				32	NE	D	DHCK 01

ND	112	DEAD MAN,DRIFT				12	C	E	DDMN	02
ID	231	DEADMAN,LS	U			46	SE	A	DDMN	05
WY	231	DEADMAN,LS							DDMN	06
AZ	420	DEADMAN,QTZ				33	C	C	DDMN	07
ND	112	DEAD MAN,TILL							DDMN	03
CA	112	DEADMAN PASS,TILL					C	D	DDMP	01
CO	371	DEADMANS GULCH,FM		SS	RD	26	C	E	OMGC	01
UT	364	DEADMAN SPRING,DOL				51	WC	E	DSPG	02
ME	360+	DEAD RIVER,FM		MET		860	WC	E	DDRV	01
ME	370	DEAD RIVER,FM							DDRV	02
MT	367+	DEADWOOD,FM	U						DDWD	01
ND	367+	DEADWOOD,FM	U						DDWD	02
SD	367+	DEADWOOD,FM	U	QTZ,SS		120	WC	A	DDWD	08
WY	367+	DEADWOOD,FM	U						DDWD	03
MT	371	DEADWOOD,FM	U						DDWD	04
ND	371	DEADWOOD,FM	U						DDWD	05
SD	371	DEADWOOD,FM	U						DDWD	06
WY	371	DEADWOOD,FM	U						DDWD	07
AZ	122	DEADWOOD GULCH,RHYOLITE TUFF	U						DDGC	02
NM	122	DEADWOOD GULCH,RHYOLITE TUFF	U		WH	120	WC	A	DDGC	01
NJ	124	DEAL,MBR (MANASQUAN FM)		SD,ST		43	EC	E	DEAL	01
GA	410	DEAN,FM (GREAT SMOKY GP)		MET		1100	NW	C	DEAN	02
NC	410	DEAN,FM (GREAT SMOKY GP)							DEAN	05
TN	410	DEAN,FM (GREAT SMOKY GP)							DEAN	04
GA	410	DEAN,FM (WALDEN CREEK GP)							DEAN	03
TX	319	DEAN,SS				61	C	C	DEAN	01
MT	337	DEAN LAKE,CHERT MBR (MADISON LS)				23	NC	A	DNLK	01
NY	347	DEANSBORO,LS (HELDERBERG GP)				18	C	C	DSBR	02
NY	347	DEANSBORO,MBR (COEYMANS LS)							DSBR	01
SC	112	DEAN SWAMP,MBR (WICOMICO FM)		CL		6	C	D	DSMP	01
MT	374	DEARBORN,LS	U			140	WC	A	DRBR	01
MT	211	DEARBORN RIVER,VOLCS					C	D	DBRV	01
WY	374	DEATH CANYON,LS (GROS VENTRE GP)				87	NW	A	DCNN	02
ID	374	DEATH CANYON,MBR (GROS VENTRE FM)	U						DCNN	01
WY	374	DEATH CANYON,MBR (GROS VENTRE FM)	U						DCNN	03
CA	400	DEATH VALLEY,FM		LS,ARG			EC	A	DTVL	01
GA	364	DEATON,MBR (LENOIR LS)	U			61	NW	A	DTON	01
ME	347	DEBOULLIE,FM		IG			NC	E	DBLL	01
CA	211	DEBRIS DAM,SS				670	SC	C	DBDM	01
NV	350	DECATHON,DOL				110	EC	C	DCTN	01



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT	350	DECATHON,DOL							DCTN 02
TN	354	DECATUR,LS	U			21	WC A		DCTR 01
TN	354	DECATUR,LS (BROWNSPORT GP)							DCTR 03
TN	347	DECATURVILLE,CHERT	U			2	WC A		DCVL 01
TN	347	DECATURVILLE,CHERT (LINDEN GP)							DCVL 02
TN	347	DECATURVILLE,CHERT ZONE (ROSS FM)							DCVL 03
AZ	430	DECEPTION,RHYOLITE (ASH CREEK GP)	U			910	C A		DCPN 02
NY	354	DECEW,DOL (CLINTON GP)				3	CAN A		DECW 01
NY	354	DECEW,MBR (LOCKPORT DOL)							DECW 02
AZ	317	DE CHELLY,SS	U			180	NE A		DCLL 01
CO	317	DE CHELLY,SS	U						DCLL 03
UT	317	DE CHELLY,SS	U						DCLL 07
NM	318	DE CHELLY,SS	U						DCLL 05
AZ	317	DE CHELLY,SS MBR (CUTLER FM)	U						DCLL 02
CO	317	DE CHELLY,SS MBR (CUTLER FM)	U						DCLL 04
UT	317	DE CHELLY,SS MBR (CUTLER FM)	U						DCLL 08
NM	318	DE CHELLY,SS MBR (CUTLER FM)	U						DCLL 06
TX	101+	DECIE,MBR (DUFF FM)		RHY		72	WC C		DECI 01
TX	123	DECIE,MBR (DUFF FM)							DECI 02
TX	319	DECIE RANCH,MBR (SKINNER RANCH FM)	U	LS,CGL		30	WC D		DCRC 01
NJ	351	DECKER,FM	U			6	NC C		DCRK 03
NY	351	DECKER,FM	U						DCRK 05
PA	351	DECKER,FM	U						DCRK 07
NJ	351	DECKER,LS	U						DCRK 04
NY	351	DECKER,LS	U						DCRK 06
PA	351	DECKER,LS	U						DCRK 08
NJ	351	DECKER FERRY,FM				4	NC A		DCKF 02
NJ	351	DECKER FERRY,LS							DCKF 03
IA	364	DECORAH,FM	U			9	NE A		DCRH 01
IL	364	DECORAH,FM	U						DCRH 03
MO	364	DECORAH,FM	U						DCRH 07
WI	364	DECORAH,FM	U						DCRH 08
WI	364	DECORAH,FM (SINNIPEE GP)							DCRH 10
IL	364	DECORAH,LS	U						DCRH 04
IA	364	DECORAH,SH	U						DCRH 02
MN	364	DECORAH,SH	U						DCRH 06
WI	364	DECORAH,SH (SINNIPEE GP)							DCRH 11
WV	324	DECOTA,SS [MBR] (KANAWHA FM)				8	SW A		DCOT 01
MO	325	DEDERICK,MBR (CHEROKEE SH)				23	WC A		DDCK 11
MA	410	DEDHAM,GRANODIORITE	U				C A		DDHM 01

NH	410	DEDHAM,GRANODIORITE	U								DDHM	02
CA	122+	/DEEP CREEK,CGL								NC	D	DPCK 02
CA	123	/DEEP CREEK,CGL										DPCK 04
ID	331+	DEEP CREEK,FM	U	LS		690			SE	D		DPCK 07
ID	337	DEEP CREEK,FM	U									DPCK 08
WY	211	/DEEP CREEK,SS MBR (MESAVERDE FM)						15	SC	D		DPCK 06
OR	122	/DEEP CREEK,TUFF [MBR] (JOHN DAY FM)						8	C	D		DPCK 03
NY	364+	DEEPHILL,SH	U					91	EC	A		DPKL 02
VT	364+	DEEPKILL,SH										DPKL 03
NY	367	DEEPKILL,SH	U									DPKL 05
VT	367	DEEPKILL,SH										DPKL 06
WY	400	DEEP LAKE,FM						610	SE	A		DPLK 03
NY	344	DEEP RUN,SH (HAMILTON GP)						17	WC	A		DPRN 01
NY	344	DEEP RUN,SH MBR (LUDLOWVILLE FM)										DPRN 02
CA	410	DEEP SPRING,FM	U	SS,LS		490			EC	A		DPSP 05
NV	410	DEEP SPRING,FM	U									DPSP 06
CA	217+	DEER,DIORITE								SC	C	DEER 01
CA	220	DEER,DIORITE										DEER 02
OR	122	DEER BUTTE,FM			VSED			290	EC	D		DRBT 01
NM	112	DEER CANYON,MBR (VALLES RHYOLITE)						30	NC	E		DRCN 01
IA	322	DEER CREEK,LS (SHAWNEE GP)	U									DRCK 05
KS	322	DEER CREEK,LS (SHAWNEE GP)	U					8	EC	A		DRCK 06
MO	322	DEER CREEK,LS (SHAWNEE GP)	U									DRCK 07
NE	322	DEER CREEK,LS (SHAWNEE GP)	U									DRCK 08
OK	322	DEER CREEK,LS MBR (PAWHUSKA FM)	U									DRCK 09
MA	231	DEERFIELD,DIABASE (NEWARK GP)	U					30	NW	C		DFLD 01
AK	112	DEERING,FM			LOS			10	NC	E		DRNG 01
ME	347	DEER ISLE,GRANITE								SC	C	DRIL 01
MT	124+	DEERLODGE,CGL								WC	D	DLDG 01
MT	125	DEERLODGE,CGL										DLDG 02
ME	364+	DEER MOUNTAIN,MBR (ALBEE FM)	U	SL	GN			760	WC	E		DRMN 02
ME	367	DEER MOUNTAIN,MBR (ALBEE FM)	U									DRMN 03
NM	319	DEER MOUNTAIN,SH MBR (ALACRAN MOUNTAIN FM)										DRMN 04
TX	319	DEER MOUNTAIN,SH MBR (HUECO LS)	U							WC	A	DRMN 01
NV	110	DEER PARK,ANDESITE						150	EC	D		DRPK 01
CO	123	DEER PEAK,VOLCS	U					460	SC	E		DRPK 06
IL	112	DEER PLAIN,FM	U	GVL,SD				15	WC	C		DRPL 01
MO	112	DEER PLAIN,FM	U									DRPL 02
WA	217+	DEER POINT,FM			SS			910	NW	E		DRPN 01
WA	221	DEER POINT,FM										DRPN 02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY 364	DEER RIVER,SH			BK	21	NC	A	DRRV 04
WA 420	DEER TRAIL,ARGILLITE				1500	NE	A	DRTL 01
WA 420	DEER TRAIL,GP (BELT SUPERGROUP)	U						DRTL 02
CA 211	DEER VALLEY,FM		SS		150	NW	D	DRVL 01
MD 331	DEER VALLEY,LS MBR (MAUCH CHUNK FM)							DRVL 03
PA 331	DEER VALLEY,LS MBR (MAUCH CHUNK FM)				3	SW	D	DRVL 05
OK 325	DEESE,FM	U	SS,CGL		2100	SE	A	DEES 01
OK 325	/DEESE,GP							DEES 02
IL 364	DEFIANCE,MBR (JOACHIM DOL)							DFNC 02
MO 364	DEFIANCE,MBR (JOACHIM DOL)				6	EC	D	DFNC 03
IA 111+	DE FOREST,FM	U	ALV		10	WC	D	DFRS 01
IA 112	DE FOREST,FM	U						DFRS 02
IL 332	DEGONIA,SS	U			30	SC	A	DGON 01
IN 332	DEGONIA,SS	U						DGON 05
KY 332	DEGONIA,SS	U						DGON 03
IL 325	DE GRAFF,COAL MBR (MODESTO FM)				<1	SC	C	DGRF 01
ND 211	DEGREY,MBR (PIERRE SH)	U						DGRY 01
SD 211	DEGREY,MBR (PIERRE SH)	U						DGRY 02
CA 310	DEKKAS,ANDESITE	U			300	NW	A	DKKS 01
CA 310	DEKKAS,FM (BOLLIBOKKA GP)							DKKS 02
TX 122	DELAHO,FM		STS		140	SW	E	DLHO 01
TX 112	DELANEY,GRAVEL							DLNY 01
UT 122	DELANO PEAK,LATITE MBR (BULLION CANYON VOLCS)	U			240	SC	C	DLPK 01
IL 112	DELAVAN,TILL MBR (WEDRON FM)				3	C	E	DLVN 01
OH 344	DELAWARE,LS	U		BL	11	C	A	DLWR 01
OK 331	DELAWARE CREEK,MBR (CANEY SH)				50	SE	C	DLCK 07
OK 331	DELAWARE CREEK,SH							DLCK 09
NM 313	DELAWARE MOUNTAIN,GP	U						DLRM 03
TX 313	DELAWARE MOUNTAIN,GP	U	SS,LS		700	WC	A	DLRM 04
NY 341	DELAWARE RIVER,FLAGS MBR (CATSKILL FM)				460	NE	A	DLRV 01
PA 341	DELAWARE RIVER,FLAGS MBR (CATSKILLFM)	U						DLRV 02
PA 341	DELAWARE RIVER,FM							DLRV 03
NY 341	[DELAWARE RIVER,FM (GENESEE GP)]							DLRV 04
NY 341	/DELAWARE RIVER,SH AND SS (GENESEE GP)							DLRV 05
TX 218	DEL CARMEN,LS				110	SW	D	DLCM 01
NM 321	DEL CUERTO,FM (KELLER GP)		LS,SS		25	C	C	DLCR 01
TX 324	DE LEON,FM (BIG SALINE GP)		LS,SH		79	C	C	DLON 01
CA 330	DELHI,FM	U	CH			NC	A	DLHI 01
OH 344	DELHI,MBR (COLUMBUS LS)				9	C	A	DLHI 02
AR 218	DELIGHT,SAND (TRINITY GP)	U			61	SW	C	DLGT 01

CA	122	DELLEKER,FM		TF		110	NC	C	DLKR	01
AL	124	DELLET,SAND MBR (MOODYS BRANCH FM)	U			1	SW	C	DLT	01
AZ	400	DELLS,GRANITE	U				C	D	DLLS	07
KS	122	DELLVALE,ASH BED (ASH HOLLOW MBR OF OGALLALA FM)				3	NW	C	DLVL	01
CA	124	DELMAR,FM (LA JOLLA GP)	U			61	SE	A	DLMR	02
CA	124	DELMAR,SAND (LA JOLLA GP)							DLMR	03
CA	124	DELMAR,SAND MBR (LA JOLLA FM)							DLMR	04
KS	121	DELMORE,FM	U	ST,CL		23	C	C	DLMR	01
IL	325	DE LONG,COAL MBR (SPOON FM)				<1	NW	C	DLNG	01
NM	331+	DEL PADRE,SS				28	NC	D	DLPD	04
NM	337	DEL PADRE,SS							DLPD	01
NM	331+	DEL PADRE,SS MBR (ESPIRITU SANTO FM)	U						DLPD	03
NM	337	DEL PADRE,SS MBR (ESPIRITU SANTO FM)	U						DLPD	02
NY	344	DELPHI STATION,MBR (SKANEATELES FM)		SH		24	C	C	DLPS	01
CA	221	DEL PUERTO,FM				460	WC	D	DLPR	02
CA	221	DEL PUERTO,KERATOPHYRE MBR (FRANCISCAN FM)							DLPR	01
TX	213	DEL RIO,CLAY (WASHITA GP)	U			9	C	A	DLRO	01
NM	211	DEL RIO,FM							DLRO	05
TX	213	DEL RIO,FM (WASHITA GP)	U						DLRO	04
CA	211	DEL VALLE,FM		SS		2700	WC	C	DLVL	02
IL	326	DELWOOD,COAL MBR (ABBOTT FM)				1	SE	C	DLWD	01
IA	364	DEMENT,MBR (GRAND DETOUR FM)							DMNT	02
IL	364	DEMENT,MBR (GRAND DETOUR FM)		LS		2	NC	C	DMNT	01
MO	364	DEMENT,MBR (GRAND DETOUR FM)							DMNT	03
AZ	211	DEMETRIE,VOLCS	U			610	SC	D	DMTR	02
WA	112	DEMING,SAND				9	NW	D	DMNG	01
CO	410	DEMOCRAT GULCH,COMPLEX		SYN			C	D	DCGC	01
AL	212	DEMOPOLIS,CHALK (SELMA GP)	U			150	WC	A	DMPG	01
MS	212	DEMOPOLIS,CHALK (SELMA GP)	U						DMPG	02
TN	211	DEMOPOLIS,FM (SELMA GP)	U						DMPG	04
MS	212	DEMOPOLIS,FM (SELMA GP)	U						DMPG	06
AL	301	DEMPSEY,MARBLE (TALLADEGA GP)					EC	A	DMPS	01
NV	344	DENAY,LS (NEVADA GP)					NE	D	DENY	04
OK	323	DENAY,LS MBR (COFFEYVILLE FM)				<1	EC	A	DENY	01
OK	323	DENAY,LS MBR (FRANCIS FM)	U						DENY	02
AL	221	DENKMAN,SS MBR (NORPHLET FM)							DNKM	02
MS	221	DENKMAN,SS MBR (NORPHLET FM)				85	C	D	DNKM	01
NY	364	DENLEY,LS (TRENTON GP)				60	NC	E	DNLY	04
WV	331	DENMAR,FM (GREENBRIER GP)		LS		65	SC	C	DNMR	01
NY	364	DENMARK,FM (TRENTON GP)				52	NC	C	DNRK	01

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	364	DENMARK,LS (TRENTON GP)							DMRK 05
NY	364	DENMARK,MBR (SHERMAN FALL FM)							DMRK 02
IA	323	DENNIS,LS (KANSAS CITY GP)	U						DNNS 01
KS	323	DENNIS,LS (KANSAS CITY GP)	U			6	SE	A	DNNS 02
MO	323	DENNIS,LS (KANSAS CITY GP)							DNNS 03
NE	323	DENNIS,LS (KANSAS CITY GP)	U						DNNS 04
TX	324	DENNIS BRIDGE,LS BED (HILL CREEK MBR OF LAZY BEND FM)				3	C	A	DBDG 03
TX	324	DENNIS BRIDGE,LS MBR (LAZY BEND FM)							DBDG 04
TX	324	DENNIS BRIDGE,LS MBR (MILLSAP LAKE FM)							DBDG 05
TX	324	DENNIS BRIDGE,LS MBR (RAYVILLE FM)							DBDG 06
NC	307	DENNY,CGL MBR (EFLAND FM)					NC	D	DNNY 03
WA	310	DENNY,FM		MBL			NC	C	DNNY 02
CO	430	DENNY CREEK,GRANODIORITE	U				C	D	DCRK 08
ME	354	DENNYS,FM	U	RHY			EC	A	DNNS 05
MO	371	DENT BRANCH,PYROCLASTICS [LENTIL] (BONNETERRE DOL)				24	EC	E	DBRC 01
OK	218	DENTON,CLAY (WASHITA GP)	U						DNTN 01
TX	218	DENTON,CLAY (WASHITA GP)	U			12	NE	A	DNTN 03
OK	218	DENTON,FM (WASHITA GP)							DNTN 02
TX	218	DENTON,FM (WASHITA GP)							DNTN 04
TX	218	DENTON,SH MBR (GEORGETOWN LS)							DNTN 05
CO	125+	DENVER,FM	U	CGL		430	NC	A	DNVR 01
CO	211	DENVER,FM	U						DNVR 02
WI	430	/DENZER,DIORITE					SC	A	DNZR 01
WI	430	DENZER,TUFF					SC	A	DNZR 02
WY	374	DEPASS,FM		SS,SH		180	WC	A	DPSS 01
OR	122	DEPOE BAY,BASALT	U			30	NW	E	DPBY 01
WA	122	DEPOE BAY,BASALT							DPBY 02
PA	347	DEPUE,LS MBR (COEYMANS FM)	U			4	EC	D	DEPU 02
NJ	347	DEPUE,LS MBR (COEYMANS FM)	U						DEPU 01
AR	218	DE QUEEN,LS (TRINITY GP)	U			22	SW	A	DQUN 01
OK	218	DE QUEEN,LS (TRINITY GP)	U						DQUN 02
AR	371	DERBY,DOL	U						DRBY 07
KS	371	DERBY,DOL	U						DRBY 08
MO	371	DERBY,DOL (ELVINS GP)	U			12	SE	A	DRBY 10
IL	371	[DERBY,MBR (FRANCONIA FM)]							DRBY 12
MO	371	/DERBY-DOE RUN,DOL (ELVINS GP)							DBDR 02
IL	371	/DERBY-DOE RUN,MBR (FRANCONIA FM)							DBDR 01
CT	360	DERBY HILL,MBR (ORANGE FM)					C	D	DBHL 03
CT	360	DERBY HILL,SCHIST	U						DBHL 01
MN	420	DERONDA BAY,ANDESITE (NORTH SHORE GP)				79	NE	E	DRDB 01

NY	344	DERUYTER,BED (TULLY LS)						<1	C	E	DRTR	01	
CA	201	DESCANSO,GRANODIORITE							SE	A	DSCS	01	
AK	357+	DESCON,FM	U	VSED					SE	E	DSCN	01	
AK	361	DESCON,FM	U								DSCN	02	
AK	364	DESCON,FM	U								DSCN	03	
AK	367	DESCON,FM	U								DSCN	04	
UT	331+	DESERET,LS	U					200	NC	A	DSRT	02	
UT	337	DESERET,LS	U								DSRT	03	
UT	211	DESERT,MBR (BLACKHAWK FM)		SS				37	EC	C	DSRT	01	
OR	112+	[DESERT CONE,BASALT]							SW	C	DSRC	05	
OR	121	[DESERT CONE,BASALT]									DSRC	06	
OR	112+	/DESERT CONE,BASALT FLOW									DSRC	01	
OR	121	/DESERT CONE,BASALT FLOW									DSRC	02	
AZ	221	DESERT MUSEUM,ANDESITE PORPHYRY							SE	D	DRMM	01	
NV	122	DESERT PEAK,FM		SH,TF				930	WC	C	DRPK	03	
NV	371	DESERT VALLEY,FM		DOL				670	SE	D	DRVL	13	
CA	220+	DESOLATION VALLEY,GRANODIORITE								C	D	DLVL	03
CA	230	DESOLATION VALLEY,GRANODIORITE										DLVL	04
TX	212	DESSAU,FM (AUSTIN GP)		LS				27	EC	C	DSSU	02	
AR	124	DETONTI,SAND (WILCOX GP)	U					130		C	C	DTNT	01
OR	112	DETROIT,TILL								NW	C	DTRT	01
IN	344	DETROIT RIVER,FM (MUSCATATUCK GP)										DRRV	07
MI	344	DETROIT RIVER,GP	U	DOL				300	SE	A	DRRV	01	
OH	344	DETROIT RIVER,GP	U									DRRV	02
CA	231	DEVILS CANYON,MBR (MODIN FM)		LS				300	NW	C	DVLC	01	
CA	112	DEVILS GARDEN,BASALT								NC	C	DVGD	02
NV	341+	DEVILS GATE,FM						630	EC	C	DVLG	05	
NV	344	DEVILS GATE,FM										DVLG	06
NV	341+	DEVILS GATE,LS	U									DVLG	02
NV	344	DEVILS GATE,LS	U									DVLG	03
MT	371	DEVILS GLEN,DOL	U					200	WC	A	DVLG	04	
CO	211	DEVILS GRAVE,SS [MBR] (MANCOS SH)						15	NW	C	DVGV	01	
NE	122	DEVILS GULCH,MBR (VALENTINE FM)		SD	YL			18	NC	B	DVGC	01	
SD	122	DEVILS GULCH,MBR (VALENTINE FM)										DLGC	03
OR	111	[DEVILS HILL,OBSDIAN]								SW	C	DVLH	09
OR	111	/DEVILS HILL,OBSDIAN FLOW										DVLH	01
OR	111	DEVILS HILL,PUMICE										DVLH	02
NY	354	DEVILS HOLE,DOL						1	WC	C	DVLH	07	
CO	123	DEVILS HOLE,FM	U	TF				400	SE	C	DVLH	06	
KY	364	DEVILS HOLLOW,MBR (LEXINGTON LS)	U					8		C	C	DVLH	08

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	111	DEVILS HOMESTEAD,BASALT					NW	D	DVHM 01
MI	420	DEVILS ISLAND,SS (BAYFIELD GP)	U						DVID 03
WI	420	DEVILS ISLAND,SS (BAYFIELD GP)	U			91	NC	A	DVID 02
OK	325	DEVILS KITCHEN,MBR (DEESE FM)		SS,CGL		150	SE	A	DVKC 01
WI	371	DEVILS LAKE,SS	U			30	SC	A	DVLK 01
CA	122	DEVILS PEAK,MBR (SANTA CRUZ ISLAND VOLCS)				730	SC	E	DVPC 02
MT	324	DEVILS POCKET,FM (AMSDEN GP)	U	DOL,LS		43	C	C	DVPC 04
TX	218	DEVILS RIVER,LS	U			150	WC	A	DVRV 01
NH	227+	DEVILS SLIDE,SYENITE (WHITE MOUNTAIN GP)					NC	C	DVSD 01
NH	231	DEVILS SLIDE,SYENITE (WHITE MOUNTAIN GP)							DVSD 02
WY	124	DEVILS TOWER,PHONOLITE PORPHYRY					NE	D	DVLT 01
MN	420	DEVIL TRACK,FELSITE (NORTH SHORE GP)				310	NE	E	DVTK 01
CA	122	DEVILWATER,MBR (MONTEREY SH)	U			360	SC	C	DVLR 01
WA	210+	DEWDNEY CREEK,FM		SED		>3000	CAN	C	DDCK 03
WA	220	DEWDNEY CREEK,FM							DDCK 07
TX	124	DEWEESVILLE,SS MBR (WHITSETT FM)				3	SC	E	DSVL 01
OK	323	DEWEY,LS (OCHELATA GP)				5	NE	A	DEWY 02
OK	323	DEWEY,LS (SKIATOOK GP)	U						DEWY 03
KS	323	DEWEY,MBR (DRUM LS)							DEWY 01
NY	371	DEWEY BRIDGE,DOL				61	EC	C	DBDG 07
CO	224	DEWEY BRIDGE,MBR (ENTRADA SS)	U						DBDG 01
UT	224	DEWEY BRIDGE,MBR (ENTRADA SS)	U			46	EC	D	DBDG 02
NM	312	DEWEY LAKE,FM							DYLK 01
TX	312	DEWEY LAKE,FM		SS		77	C	C	DYLK 03
NM	312	DEWEY LAKE,RED BEDS	U						DYLK 02
TX	312	DEWEY LAKE,RED BEDS	U						DYLK 04
TX	111+	DEWEYVILLE,FM		SD,ST		15	E	D	DVLL 01
TX	112	DEWEYVILLE,FM							DVLL 02
TX	212	DEXTER,MBR (EULESS FM)				43	NE	A	DXTR 01
OK	212	DEXTER,MBR (WOODBINE FM)							DXTR 06
TX	212	DEXTER,MBR (WOODBINE FM)	U						DXTR 02
TX	212	DEXTER,MBR (WOODBINE SAND)							DXTR 03
NY	341	DEXTERVILLE,FM (CONNEAUT GP)				43	WC	A	DXVL 06
NY	341	DEXTERVILLE,MBR (CHADAKOIN FM)							DXVL 08
PA	341	DEXTERVILLE,SH							DXVL 03
AZ	121	DEZA,FM							DEZA 01
NM	121	DEZA,FM		SS		76	NW	C	DEZA 02
CA	121	DIABLO,FM		SS		300	WC	C	DBLO 01
NV	311+	/DIABLO,FM	U	DOL		91	WC	C	DBLO 02
NV	317	/DIABLO,FM	U						DBLO 03

NV	310+	DIAMOND A, FM		LS		460	NE	D	DMDA	02	
NV	320	DIAMOND A, FM							DMDA	01	
UT	317	DIAMOND CREEK, SS				300	C	C	DMCK	01	
HI	111	/DIAMOND HEAD, BLACK ASH					NC	C	DMDH	01	
HI	112	DIAMOND HEAD, TUFF (HONOLULU GP)	U			270	NC	A	DMDH	03	
OR	112	DIAMOND HILL, MBR (ROWLAND FM)		SD		2	WC	E	DMDH	04	
ME	304+	DIAMOND ISLAND, FM (CASCO BAY GP)	U	SL	BK	46	SW	A	DMDI	01	
ME	307	DIAMOND ISLAND, FM (CASCO BAY GP)	U						DMDI	02	
NV	122	DIAMOND KING, MBR (ESMERALDA FM)	U	RHY		240	C	A	DMKG	02	
CA	327+	DIAMOND PEAK, FM							DMPK	01	
NV	327+	DIAMOND PEAK, FM	U	QTZ		910	EC	A	DMPK	02	
CA	331	DIAMOND PEAK, FM							DMPK	03	
NV	331	DIAMOND PEAK, FM	U						DMPK	04	
CA	337	DIAMOND PEAK, FM							DMPK	05	
NV	337	DIAMOND PEAK, FM	U						DMPK	06	
NY	377	DIAMOND ROCK, QTZ				12	EC	A	DMRK	03	
NY	377	DIAMOND ROCK, QTZ MBR (SCHODACK FM)							DMRK	04	
VA	112	DIAMOND SPRINGS, FM		SD, GVL		5	SE	D	DSPG	01	
CA	200+	DIAMOND VALLEY, COMPLEX		MET		910	SE	C	DMDV	01	
CA	300	DIAMOND VALLEY, COMPLEX							DMDV	02	
NY	400	DIANA, COMPLEX	U	SYN		9100	WC	A	DIAN	03	
NV	354	/DIANA, LS		SED		12	C	C	DIAN	01	
AZ	420	DIANA, GRANITE						NW	C	DIAN	02
AZ	400	DICK, RHYOLITE	U					WC	C	DICK	01
TX	324	DICKERSON, FM (MILLSAP LAKE GP)		LS				C	A	DCKR	01
TX	324	DICKERSON, MBR (MILLSAP LAKE FM)								DCKR	02
MI	440	DICKINSON, GP	U	SCH				C	C	DCKS	05
ND	123	DICKINSON, MBR (BRULE FM)		CL		49	NW	D	DCKS	01	
IN	321	DICKSBURG HILLS, SS MBR (PATOKA FM)				15	SW	C	DKBH	01	
CA	220+	DICKS LAKE, GRANODIORITE						C	D	DKLK	02
CA	230	DICKS LAKE, GRANODIORITE								DKLK	03
OK	325	DICKSON, SS MBR (SAVANNA FM)				4	NE	D	DCKS	03	
AR	218	DIERKS, LS (TRINITY GP)	U			12	SW	A	DRKS	01	
WY	311	DIFFICULTY, SH MBR (GOOSE EGG FM)	U		RD	15	SC	D	DFCL	01	
CO	123	DIFFICULTY CREEK, LATITE	U				SW	A	DFCK	01	
MA	320	DIGHTON, CGL	U			610	EC	A	DGTN	01	
RI	320	DIGHTON, CGL	U							DGTN	02
NM	211	DILCO, COAL MBR (CREVASSE CANYON FM)		SS, SH		73	NW	A	DLCO	01	
NM	211	DILCO, COAL MBR (MESAVERDE FM)								DLCO	02
CA	122+	DILIGENCIA, FM		VSED		1500	SE	E	DLGC	01	



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	123	DILIGENCIA,FM							DLGC 02
OR	220	DILLARD,FM		SS,SH		3000	SW	A	DLRD 01
OH	317	DILLES BOTTOM,LS MBR (GREENE FM)	U			2	EC	D	DLLS 04
PA	317	DILLES BOTTOM,LS MBR (GREENE FM)	U						DLLS 05
WV	317	DILLES BOTTOM,LS MBR (GREENE FM)	U						DLLS 06
MT	430	DILLON,GRANITE GNEISS					SW	C	DLLN 01
CO	123	DILLON MESA,TUFF	U			55	SW	E	DLMS 01
IN	361	DILLSBORO,FM (MAQUOKETA GP)		LS,SH		100	SE	D	DLBR 01
TX	124	DILWORTH,SAND				6	EC	A	DLRT 01
TX	124	DILWORTH,SS MBR (WHITSETT FM)	U						DLRT 02
TX	124	DIME BOX,MBR (YEGUA FM)		SD	RD		EC	C	DMBX 01
TX	324	DIMPLE,LS	U			280	WC	A	DMPL 05
WV	324	DINGESS,LS [BED] (KANAWHA FM)				2	SW	A	DNGS 03
OR	122	DINNER CREEK,WELDED TUFF	U			27	EC	D	DRCK 03
AZ	231	DINOSAUR CANYON,SS MBR (MOENAVE FM)	U		RD	61	NE	C	DSRC 03
UT	231	DINOSAUR CANYON,SS MBR (MOENAVE FM)	U						DSRC 04
ID	237	DINWOODY,FM	U						DNDY 01
MT	237	DINWOODY,FM	U						DNDY 02
UT	237	DINWOODY,FM	U						DNDY 04
WY	237	DINWOODY,FM	U			61	WC	A	DNDY 05
CA	125	DIP CREEK,FM		CGL		400	EC	C	DPCK 05
UT	124	DIPPING VAT,FM		SS		63	C	C	DPGV 01
OK	326	DIRTY CREEK,SS MBR (ATOKA FM)	U			6	EC	A	DRCK 10
CA	121	DISASTER PEAK,FM		VOL,BRC		300	C	D	DRPK 02
VA	111	DISMAL SWAMP,PEAT				3	SE	D	DMSP 01
IN	321	DITNEY,COAL MBR (PATOKA FM)				<1	SW	DTNY 02	
IN	321	DITNEY,FM	U	SS,SH		6	WC	A	DTNY 01
NV	121	DIVIDE,ANDESITE	U				C	A	DIVD 01
CA	100	DIVIDE PEAK,ANDESITE					NW	A	DVPK 01
IL	323	DIX,LS MBR (MATTOON FM)				2	SC	E	DIX 01
ME	364	DIXIE BROOK,MBR (DIXVILLE FM)							DXBK 02
NH	364	DIXIE BROOK,MBR (DIXVILLE FM)		SL		610	NE	D	DXBK 01
NV	234+	DIXIE VALLEY,FM	U	CGL	RD	180	NC	C	DXVL 01
NV	237	DIXIE VALLEY,FM	U						DXVL 07
TN	354	DIXON,EARTHY LS MBR (WAYNE FM)	U		RD	12	WC	A	DXON 01
TN	354	DIXON,FM (WAYNE GP)							DXON 02
TN	354	DIXON,LS (WAYNE GP)							DXON 06
TN	354	[DIXON,LS MBR (WAYNE FM)]							DXON 07
NY	400	DIXON,SCHIST				9	NE	A	DXON 05
TN	410	DIXON MOUNTAIN,MBR (WILHITE FM)	U	STS		460	EC	C	DXNM 01

ME	364	DIXVILLE,FM	U							DXVL	04
NH	364	DIXVILLE,FM		MSED		1400	NE	D		DXVL	05
CA	211	DOBBINS,SH MBR (FORBES FM)					NW	D		DBNS	01
AZ	211	DOBBBS BUTTES,MBR (ROSKRUGE RHYOLITE)	U			380	SC	D		DBSB	01
TX	324	DOBBBS VALLEY,SS MBR (MILLSAP LAKE FM)				<1	NC	A		DBVL	01
TX	324	DOBBBS VALLEY,SS MBR (MINGUS FM)								DBVL	02
TX	324	DOBBBS VALLEY,SS MBR (STRAWN GP)								DBVL	03
ME	347	DOCKENDORFF,GP	U	VSED		6000	NE	D		DCKF	01
MI	344	DOCK STREET,CLAY MBR (FOUR MILE DAM FM)				2	EC	A		DCKS	04
NM	231	DOCKUM,FM	U							DCKM	03
OK	231	DOCKUM,FM	U							DCKM	05
TX	231	DOCKUM,FM	U	CGL,SS		46	NC	A		DCKM	06
CO	231	DOCKUM,GP	U							DCKM	01
KS	231	DOCKUM,GP	U							DCKM	02
NM	231	DOCKUM,GP	U							DCKM	04
TX	231	DOCKUM,GP	U							DCKM	07
KS	323	DODDS CREEK,SS MBR (COFFEYVILLE FM)				2	SE	A		DDCK	09
KS	323	DODDS CREEK,SS MBR (GALESBURG SH)								DDCK	10
LA	124	DODSON,MBR (COOK MOUNTAIN FM)		SD		8	NW	C		DDSN	01
OK	311	DOE CREEK,LENTIL (MARLOW FM)				11	NC	C		DCRC	11
OK	311	DOE CREEK,SS MBR (MARLOW FM)	U							DCRK	07
AR	371	DOE RUN,DOL	U							DRUN	03
KS	371	DOE RUN,DOL	U							DRUN	04
MO	371	DOE RUN,DOL (ELVINS GP)	U			27	SE	A		DRUN	06
IL	371	[DOE RUN,MBR (FRANCONIA FM)]								DRUN	08
TX	324	DOG BEND,LS (STRAWN GP)						C	A	DGBD	02
TX	324	DOG BEND,LS MBR (MINERAL WELLS FM)								DGBD	01
KS	317	DOG CREEK,FM (NIPPEWALLA GP)			RD	9	SC	A		DGCK	10
OK	317	DOG CREEK,SH (EL RENO GP)	U							DGCK	06
KS	317	DOG CREEK,SH (NIPPEWALLA GP)	U							DGCK	05
TX	318	DOG CREEK,SH (PEASE RIVER GP)	U							DGCK	07
NM	120	DOG GULCH,FM	U	CGL,SS		120	WC	A		DGGC	01
MN	361	DOG HEAD,MBR (RED RIVER FM)		LS	PR	30	CAN	A		DGHD	02
MT	361	DOG HEAD,MBR (RED RIVER FM)								DGHD	03
ND	361	DOG HEAD,MBR (RED RIVER FM)								DGHD	04
SD	361	DOG HEAD,MBR (RED RIVER FM)								DGHD	05
AZ	122	DOGIE SPRING,MBR (SUPERSTITION TUFF)			RD	180	C	E		DGSP	02
WA	110	DOGS HEAD,ANDESITE						SW	C	DGHD	01
IA	338	DOLBEE CREEK,MBR (BURLINGTON LS)				3	C	D		DBCK	02
LA	125	DOLET HILLS,FM (WILCOX GP)	U	SD		30	NW	C		DLHL	01

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
LA	125	DOLET HILLS, MBR (LOGANSPOUT FM)							DLHL 02
NY	364	[DOLGEVILLE, FM]					C	A	DLGV 03
NY	364	DOLGEVILLE, LS							DLGV 02
NY	364	DOLGEVILLE, SH							DLGV 01
FL	218	/DOLLAR BAY, FM (BIG CYPRESS GP)		LS		150	SE	E	DLRB 01
FL	218	[DOLLAR BAY, MBR (BIG CYPRESS FM)]							DLRB 02
WV	317	DOLLS RUN, SS [MBR] (WAYNESBURG FM)				5	NC	A	DLRS 01
WV	364	DOLLY RIDGE, FM (TRENTON GP)		LS		120	C	E	DRDG 01
OK	323	DOLMAN, MBR (HOXBAR FM)		LS		8	SE	D	DLMN 02
CO	231	DOLORES, FM	U	SS		610	SW	A	DLRS 01
IL	112	DOLTON, MBR (EQUALITY FM)		SD		2	NE	E	DLTN 01
AK	112	DOME, ASH BED (GOLD HILL LOESS)	U		WH	<1	EC	E	DOME 05
NV	374	DOME, FM							DOME 01
UT	374	DOME, FM				110	WC	A	DOME 03
NV	374	DOME, LS							DOME 02
UT	374	DOME, LS	U						DOME 04
OK	112	DOMEBO, FM		ALV		12	C	D	DOMB 01
CA	124	DOMENGINE, FM	U			370	C	A	DMNG 02
CA	124	DOMENGINE, SS	U						DMNG 03
CA	210	DOMENIGONI VALLEY, GRANODIORITE	U				SE	C	DMGV 01
NM	337	DONA ANA, MBR (LAKE VALLEY LS)	U			18	SC	C	DNAN 01
PA	344	DONATION, STS MBR (MAHANTANGO FM)				23	SC	D	DNTN 06
KS	317	DONEGAL, LS (SUMNER GP)				5	NE	A	DNGL 02
OK	325	DONELEY, LS MBR (SAVANNA FM)				1	NE	C	DNLY 03
MO	322	DONIPHAN, SH MBR (LECOMPTON FM)							DNPN 03
IA	322	DONIPHAN, SH MBR (LECOMPTON LS)							DNPN 01
KS	322	DONIPHAN, SH MBR (LECOMPTON LS)	U			3	NE	A	DNPN 02
NE	322	DONIPHAN, SH MBR (LECOMPTON LS)							DNPN 04
ID	121	DONKEY, FANGLOMERATE	U			300	SC	C	DNKY 01
UT	112	DONKEY CREEK, DRIFT	U				SC	C	DKCK 01
PA	317	DONLEY, LS MBR (GREENE FM)	U			2	SW	A	DNLY 02
CA	112	DONNER LAKE, TILL	U			56	NC	D	DRLK 01
OR	227	DONOVAN, FM		SS		760	C	C	DNVN 01
OR	122	DOOLEY, RHYOLITE BRECCIA	U			460	NE	A	DOLY 01
UT	350	DORA, MBR (BLUEBELL DOL)				65	C	C	DORA 01
NM	121	DORADO, BASALT MBR (HINSDALE FM)				30	NC	C	DORD 01
AR	221	DORCHEAT, MBR (SCHULER FM)	U	SH, SS		330	SW	C	DRCT 04
LA	221	DORCHEAT, MBR (SCHULER FM)	U						DRCT 05
MS	221	DORCHEAT, MBR (SCHULER FM)							DRCT 14
TX	221	DORCHEAT, MBR (SCHULER FM)	U						DRCT 06

MA	301+	DORCHESTER,SLATE MBR (ROXBURY CGL)	U			180	EC	A	DRCR	02
MA	304	DORCHESTER,SLATE MBR (ROXBURY CGL)	U						DRCR	03
OR	120	DORENA,WELDED TUFF					WC	C	DORN	01
OK	326+	DORNICK HILLS,FM	U	SH		1200	SE	A	DCKH	01
OK	328	DORNICK HILLS,FM	U						DCKH	03
OK	326+	DORNICK HILLS,GP	U						DCKH	02
OK	328	DORNICK HILLS,GP	U						DCKH	04
OH	324	DORR RUN,SH MBR (ALLEGHENY FM)				<1	SC	C	DRR	01
NV	337	DORSEY CREEK,MBR (SCHOONOVER FM)		VOL		200	NW	D	DRCK	11
TN	324+	DORTON,SH (CROOKED FORK GP)				11	C	C	DRTN	01
TN	327	DORTON,SH (CROOKED FORK GP)							DRTN	02
CA	211	DOSADOS,MBR (MORENO FM)				61	C	C	DSDS	02
CA	211	/DOSADOS,SS AND SH MBR (MORENO FM)							DSDS	01
CA	122	DOS PALMAS,RHYOLITE				120	SE	C	DPLM	01
CA	125	DOS PALOS,SH				320	C	C	DSPL	02
CA	125	DOS PALOS,SH MBR (MORENO FM)							DSPL	01
CA	111+	DOS PICACHOS,GRAVEL					WC	C	DPCC	01
CA	112	DOS PICACHOS,GRAVEL							DPCC	02
VA	364	DOT,DOL	U			59	SW	C	DOT	04
TN	364	DOT,FM	U						DOT	02
VA	364	DOT,FM	U						DOT	05
TN	364	DOT,FM (CHICKAMAUGA GP)							DOT	07
TN	364	DOT,LS	U						DOT	03
VA	364	DOT,LS	U						DOT	06
CA	217+	DOTHAN,FM	U						DTHN	05
OR	217+	DOTHAN,FM	U	SS		1800	SW	A	DTHN	06
CA	221	DOTHAN,FM	U						DTHN	01
OR	221	DOTHAN,FM	U						DTHN	02
CO	371	DOTSERO,DOL				32	WC	C	DTSR	01
CO	371	DOTSERO,FM	U						DTSR	02
CO	371	DOTSERO,FM (HORSESHOE MOUNTAIN GP)							DTSR	03
VA	324	DOTSON,SS							DTSN	01
WV	324	DOTSON,SS [MBR] (KANAWHA FM)				55	SW	A	DTSN	04
NM	120	DOUBLE ADOBE,LATITE				300	SW	D	DBAB	01
WA	112	DOUBLE BLUFF,DRIFT	U			27	NW	D	DBBF	01
WY	124	DOUBLE D,ANDESITE					NW	D	DBLD	01
TX	337	DOUBLEHORN,SH MBR (HOUY FM)	U		BK	5	C	C	DBLR	02
AK	110	DOUBLE POINT,DACITE	U			910	SW	C	DBLP	01
NV	217+	DOUBLE SPRING,FM		TF		3000	WC	D	DBSP	02
NV	221	DOUBLE SPRING,FM							DBSP	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 123	DOUBLE SPRINGS,ANDESITE					SW	E	DBSP 01
LA 122	DOUGH HILLS,MBR (FLEMING FM)		CL		41	WC	C	DGHL 01
UT 331	DOUGHNUT,FM	U	LS,SH		121	NC	C	DGNT 01
IA 322	DOUGLAS,FM							DGLS 01
KS 322	DOUGLAS,FM		SH,SS			EC	A	DGLS 03
NE 322	DOUGLAS,FM							DGLS 07
IA 322	DOUGLAS,GP	U						DGLS 02
KS 322	DOUGLAS,GP	U						DGLS 04
MO 322	DOUGLAS,GP	U						DGLS 06
NE 322	DOUGLAS,GP	U						DGLS 08
ME 360	DOUGLAS,QTZ MBR (ELLSWORTH FM)				76	SC	D	DGLS 10
WV 324	DOUGLAS,SH [MBR] (KANAWHA FM)				5	SW	A	DGLS 09
WA 122	DOUGLAS CANYON,FM		SH		11	C	A	DGLC 04
CO 124	DOUGLAS CREEK,MBR (GREEN RIVER FM)	U	MRL,SH		240	WC	A	DGCK 02
UT 124	DOUGLAS CREEK,MBR (GREEN RIVER FM)	U						DGCK 03
AK 217+	DOUGLAS ISLAND,VOLCS (STEPHENS PASSAGE GP)	U			4600	EC	A	DGID 01
AK 221	DOUGLAS ISLAND,VOLCS (STEPHENS PASSAGE GP)	U						DGID 02
TN 364	DOUGLAS LAKE,MBR (LENOIR LS)	U			9	EC	C	DGLK 02
WA 231	DOUGLAS MOUNTAIN,TONALITE PORPHYRY (TOATS COULEE GP)					NC	E	DGLM 02
CO 112	DOUGLASS MESA,GRAVEL	U			9	C	D	DGLM 01
ID 300	DOVE CREEK,FM							DVCK 03
UT 300	DOVE CREEK,FM		QTZ		7000	NW	D	DVCK 05
ID 300	DOVE CREEK,GP							DVCK 04
IA 322	DOVER,LS (WABAUNSEE GP)							DOVR 02
KS 322	DOVER,LS (WABAUNSEE GP)				1	EC	A	DOVR 03
NE 322	DOVER,LS (WABAUNSEE GP)							DOVR 08
MO 322	DOVER,LS MBR (STOTLER FM)							DOVR 09
KS 322	DOVER,MBR (STOTLER LS)	U						DOVR 04
CA 211	DOWDLE,MBR (OAK FLAT FM)		CGL,SS		910	C	D	DWDL 01
TN 341	DOWELLTOWN,FM		SH		9	C	C	DLTN 03
GA 341	DOWELLTOWN,MBR (CHATTANOOGA SH)	U						DLTN 12
TN 341	DOWELLTOWN,MBR (CHATTANOOGA SH)	U						DLTN 04
IL 332	DOWNEYS BLUFF,LS (CEDAR BLUFF GP)				12	SE	C	DBLF 01
IL 332	DOWNEYS BLUFF,LS (PAINT CREEK GP)							DBLF 02
KY 332	DOWNEYS BLUFF,MBR (RENAULT FM)							DBLF 03
AZ 420	DOX,SS (UNKAR GP)	U			910	NC	A	DOX 01
OK 311	DOXEY,MBR (QUARTERMASTER FM)	U	SH	RD	61	C	A	DOXY 01
TX 313	DOXEY,MBR (QUARTERMASTER FM)							DOXY 03
OK 311	DOXEY,SH							DOXY 02
KS 317	DOYLE,SH (CHASE GP)	U		VAR	18	EC	A	DOYL 01

NE	317	DOYLE,SH (CHASE GP)	U							DOYL	02	
OK	317	DOYLE,SH (CHASE GP)	U							DOYL	03	
ID	231	DOYLE CREEK,FM (SEVEN DEVILS GP)								DLCK	04	
OR	231	DOYLE CREEK,FM (SEVEN DEVILS GP)			VOL	500	NE	D		DLCK	05	
PA	364	DOYLESBURG,MBR (SHIPPENSBURG FM)			LS	12	SC	C		DLBG	01	
TX	313	DOZIER,SS MBR (RUSH SPRINGS FM)	U					NC	A	DOZR	01	
TX	313	DOZIER MOUNDS,DOL						RD				
MA	300	DRACUT,DIORITE	U					NC	C	DZMD	01	
MA	307+	/DRACUT,NORITE						NC	A	DRCT	07	
MA	400	/DRACUT,NORITE						NC	A	DRCT	11	
KY	361	DRAKES,FM	U							DRCT	15	
OH	361	DRAKES,FM	U		MS	46	EC	D		DRKS	02	
ID	217	DRANEY,LS (GANNETT GP)	U							DRKS	04	
WY	217	DRANEY,LS (GANNETT GP)	U					SE	A	DRNY	01	
UT	112	DRAPER,FM (LAKE BONNEVILLE GP)	U							DRNY	02	
VA	367	DRAPER,MBR (NITTANY DOL)						NC	D	DRPR	02	
NC	304+	DRAYTONVILLE,CGL MBR (KINGS MOUNTAIN QTZ)	U					SW	C	DRPR	03	
SC	304+	DRAYTONVILLE,CGL MBR (KINGS MOUNTAIN QTZ)	U							DRVL	04	
NC	360	DRAYTONVILLE,CGL MBR (KINGS MOUNTAIN QTZ)	U					15	NC	A	DRVL	08
SC	360	DRAYTONVILLE,CGL MBR (KINGS MOUNTAIN QTZ)	U							DRVL	11	
MN	371	DRESBACH,FM								DRVL	12	
IA	371	DRESBACH,GP	U					46	SE	A	DRBC	05
MI	371	DRESBACH,GP	U							DRBC	01	
WI	371	DRESBACH,GP	U							DRBC	04	
MN	371	DRESBACH,SS	U							DRBC	08	
MI	371	DRESBACH,SS MBR (MUNISING FM)	U							DRBC	06	
OR	121	DREWSEY,FM								DRBC	09	
NM	318	[DRINKARD,SAND MBR (YESO FM)]			TF	300	SE	D		DRSY	01	
NM	318	/DRINKARD,SANDY MBR (YESO FM)				34	SE	C		DRKD	02	
NM	318	DRINKARD,SS								DRKD	01	
PA	341	DRINKER CREEK,SS [LENTIL] (LANESBORO MBR,NEW MILFORD FM)						8	NE	C	DRKD	03
OR	121	DRINKWATER,BASALT	U					18	EC	D	DKCK	10
AZ	420	DRIPPING SPRING,FM (APACHE GP)	U					120	C	A	DRKR	01
AZ	420	DRIPPING SPRING,QTZ (APACHE GP)	U								DPSP	08
CA	112	DRIPPING SPRINGS,FM			CGL	9	SE	C		DPSP	04	
OR	122	DRIP SPRING,FM			VOL	79	EC	D		DPSP	02	
UT	211	DRIP TANK,MBR (STRAIGHT CLIFFS FM)			SS	160	SC	E		DPTK	01	
VA	331	DROOP,SS MBR (BLUEFIELD FM)								DROP	01	
WV	331	DROOP,SS MBR (BLUEFIELD FM)								DROP	02	
IA	323	DRUM,LS (KANSAS CITY GP)	U					18	SC	A	DROP	02
										DRUM	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KS 323	DRUM,LS (KANSAS CITY GP)	U			18	SE	A	DRUM 02
MO 323	DRUM,LS (KANSAS CITY GP)	U						DRUM 03
NE 323	DRUM,LS (KANSAS CITY GP)	U						DRUM 04
MD 122	DRUMCLIFF,MBR (CHOPTANK FM)		SD		9	SE	E	DMCF 01
VA 122	DRUMCLIFF,MBR (CHOPTANK FM)							DMCF 02
WA 111	DRUMHELLER,SILT				4	EC	C	DRML 01
MT 101	DRUMLUMMON,PORPHYRY	U				WC	A	DMLM 01
IL 357	DRUMMOND,MBR (KANKAKEE DOL)				2	NE	E	DRMD 01
ID 331	DRUMMOND MINE,LS (COPPER BASIN GP)				800	SC	E	DMDM 01
IL 328	DRURY,SH MBR (CASEYVILLE FM)				30	SC	A	DRRY 03
IA 322	DRY,SH (WABAUNSEE GP)							DRY 01
NE 322	DRY,SH (WABAUNSEE GP)							DRY 03
MO 322	DRY,SH MBR (STOTLER FM)							DRY 04
KS 322	DRY,SH MBR (STOTLER LS)	U			6	EC	A	DRY 02
AZ 122	DRY CAMP,BRECCIA				120	NW	C	DCMP 01
NM 110	/DRY CIMARRON,FLOW (CAPULIN BASALT)					NE	C	DRCM 01
NM 110	[DRY CIMARRON,MBR (CAPULIN BASALT)]							DRCM 02
WY 124	DRY COYOTE,CGL BED (PUDDLE SPRINGS MBR OF WIND RIVER FM)	U			6	WC	D	DRCT 01
CA 124	DRY CREEK,FM		SH		55	NW	A	DRCK 04
MT 371	DRY CREEK,SH	U		RD	12	C	A	DRCK 13
WY 371	DRY CREEK,SH MBR (OPEN DOOR LS)							DRCK 16
MT 371	DRY CREEK,SH MBR (RED LION FM)							DRCK 14
WY 371	DRY CREEK,SH MBR (SAGE LS)							DRCK 17
MT 371	DRY CREEK,SH MBR (SNOWY RANGE FM)	U						DRCK 15
WY 371	DRY CREEK,SH MBR (SNOWY RANGE FM)	U						DRCK 18
IN 338	DRY CREEK,SS MBR (EDWARDSVILLE FM)				2	SC	A	DRCK 12
CO 217	DRY CREEK CANYON,MBR (DAKOTA SS)	U			15	C	C	DKCK 01
TN 364	DRYDEN,FM							DRDN 01
VA 364	DRYDEN,FM		LS		150	SW	C	DRDN 03
VA 231	DRY FORK,FM (NEWARK GP)		GYK		2400	SC	D	DRFK 01
CO 124	DRY FORK,TONGUE (GREEN RIVER FM)	U	MRL		21	NW	E	DRFK 02
UT 123	DRY GULCH CREEK,MBR (DUCHESNE RIVER FM)		CLS		200	NE	E	DGCK 01
MA 304	DRY HILL,GRANITE GNEISS	U			760	NW	C	DRHL 03
UT 122+	DRY HOLLOW,FM	U	LAT		300	SC	C	DRHL 01
UT 123	DRY HOLLOW,FM	U						DRHL 05
UT 211	/DRY HOLLOW,MBR (FRONTIER FM)		CGL,SS	WH	370	NC	C	DRHL 02
NV 122	DRY LAKE,MBR (THIRSTY CANYON TUFF)	U			9	C	D	DRLK 04
TX 212	DRY TANK,MBR (BOQUILLAS FM)		MRL		47	SW	E	DRTK 02
CO 121+	DRY UNION,FM	U	ST		240	C	D	DRUN 01
CO 122	DRY UNION,FM	U						DRUN 02





ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IN	324	DUGGER, FM (CARBONDALE GP)							DGGR 01
TX	319	DUGOUT MOUNTAIN, MBR (SKINNER RANCH FM)	U	LS, SH		160	WC	D	DGMN 01
UT	371	DUGWAY RIDGE, DOL	U			270	WC	D	DGRG 02
AK	210+	[DUKE ISLAND, COMPLEX]				1500	SE	E	DKID 03
AK	220	[DUKE ISLAND, COMPLEX]							DKID 04
AK	210+	/DUKE ISLAND, ULTRAMAFIC COMPLEX							DKID 01
AK	220	/DUKE ISLAND, ULTRAMAFIC COMPLEX							DKID 02
MA	112	/DUKES, BOULDER BED	U				SE	A	DUKS 01
RI	112	/DUKES, BOULDER BED	U						DUKS 02
MA	112	[DUKES, GRAVEL]							DUKS 04
RI	112	[DUKES, GRAVEL]							DUKS 03
MN	420	DULUTH, COMPLEX (KEWEENAWAN SUPERGROUP)	U	GAB			C	A	DLTH 03
WI	430	DUNBAR, GNEISS					NE	D	DNBR 03
MT	123	DUNBAR CREEK, FM (BOZEMAN GP)	U	STS		110	SW	D	DBCK 01
TX	318	DUNCAN, MBR (SAN ANGELO FM)							DNCN 05
OK	317	DUNCAN, SS (EL RENO GP)	U			76	SC	A	DNCN 02
FL	123	DUNCAN CHURCH, BEDS (SUWANNEE LS)					NW	D	DCCC 01
IL	112	DUNCAN MILLS, MBR (GLASFORD FM)		SD		9	WC	E	DCML 01
PA	341	DUNCANNON, MBR (CATSKILL FM)		SS		180	SC	D	DNCN 04
NM	110	/DUNCHEE HILL, FLOW (CLAYTON BASALT)					NE	C	DCHL 01
NM	110	[DUNCHEE HILL, MBR (CLAYTON BASALT)]							DCHL 02
MI	344	DUNDEE, FM	U			49	SE	A	DUND 02
MI	344	DUNDEE, LS	U						DUND 03
OH	344	DUNDEE, LS	U						DUND 04
OH	324	/DUNDEE, SS MBR (POTTSVILLE FM)				23	EC	C	DUND 01
NV	371	DUNDERBERG, FM	U			110	EC	A	DDBG 02
NV	371	DUNDERBERG, SH	U						DDBG 04
CA	371	DUNDERBERG, SH MBR (NOPAH FM)	U						DDBG 01
NV	371	DUNDERBERG, SH MBR (NOPAH FM)	U						DDBG 03
NV	231	DUN GLEN, FM (AULD LANG SYNE GP)	U	DOL		350	NC	C	DNGL 01
VT	377	DUNHAM, DOL (STOCKBRIDGE GP)				37	CAN	C	DNHM 04
VT	377	DUNHAM, DOL MBR (BRIDGEMAN HILL FM)							DNHM 05
ND	224	DUNHAM, SALT BED (PIPER FM)			RD	46	SW	E	DNHM 02
ND	224	DUNHAM, SALT BED (POE MBR OF PIPER FM)							DNHM 01
MD	317+	DUNKARD, GP	U						DKRD 01
OH	317+	DUNKARD, GP	U						DKRD 02
PA	317+	DUNKARD, GP	U	SS, SH		50	SW	A	DKRD 03
WV	317+	DUNKARD, GP	U						DKRD 04
MD	321	DUNKARD, GP	U						DKRD 05
OH	321	DUNKARD, GP	U						DKRD 06

PA	321	DUNKARD,GP	U						DKRD	07
WV	321	DUNKARD,GP	U						DKRD	08
NY	341	DUNKIRK,FM (CANADAWAY GP)				17	WC	A	DKRK	01
NY	341	DUNKIRK,SH (CANADAWAY GP)							DKRK	02
NY	341	DUNKIRK,SH MBR (CANADAWAY FM)							DKRK	03
NY	341	DUNKIRK,SH MBR (PERRYSBURG FM)	U						DKRK	04
MT	217	DUNKLEBERG,FM (COLORADO GP)		MS,STS		520	WC	D	DKBG	01
MT	217	DUNKLEBERG,MBR (BLACKLEAF FM)							DKBG	02
NV	227	DUNLAP,FM	U	SS		1200	C	A	DNLP	02
PA	317	DUNLAP,SS [MBR] (GREENE FM)				11	SW	C	DNLP	03
TX	122	DUNLAP QUARRY,SS MBR (CATAHOULA FM)				8	EC	A	DLPQ	01
IA	364	DUNLEITH,FM (GALENA GP)							DNLT	03
IL	364	DUNLEITH,FM (GALENA GP)		DOL		38	NW	C	DNLT	01
MO	364	DUNLEITH,FM (GALENA GP)							DNLT	04
WI	364	DUNLEITH,MBR (GALENA DOL)							DNLT	02
ME	350+	DUNN BROOK,FM (HOVEY GP)	U	VOL		1500	NE	D	DBRK	01
ME	360	DUNN BROOK,FM (HOVEY GP)	U						DBRK	03
MI	430	DUNN CREEK,SLATE (PAINT RIVER GP)	U			240	NW	C	DCRK	09
WI	430	DUNN CREEK,SLATE (PAINT RIVER GP)	U						DCRK	10
NY	341	DUNN HILL,MBR (RHINESTREET FM)				7	C	D	DNHL	01
PA	341	DUNN HILL,MBR (RHINESTREET FM)							DNHL	03
NY	341	DUNN HILL,SH (WEST FALLS GP)							DNHL	02
CA	124	DUNNS PEAK,SS				110	WC	C	DSPK	01
WY	371	DU NOIR,LS (GALLATIN GP)				12	WC	A	DUNR	01
WY	371	DU NOIR,MBR (GALLATIN FM)							DUNR	03
WY	371	DU NOIR,MBR (GALLATIN LS)							DUNR	02
WY	120	DUNRUD PEAK,RHYOLITE				550	NW	D	DDPK	01
WY	341	DUPEROW,FM	U						DPRW	06
MT	341	DUPEROW,FM (JEFFERSON GP)	U						DPRW	02
ND	341	DUPEROW,FM (JEFFERSON GP)	U	LS		260	WC	C	DPRW	03
SD	341	DUPEROW,FM (JEFFERSON GP)	U						DPRW	04
SC	121	DUPLIN,FM	U						DPLN	05
FL	121	DUPLIN,MARL	U						DPLN	01
GA	121	DUPLIN,MARL	U						DPLN	02
NC	121	DUPLIN,MARL	U			30	EC	A	DPLN	03
SC	121	DUPLIN,MARL	U						DPLN	04
AZ	420	DUPPA,MBR (GALEROS FM)		SH		170	NC	E	DUPP	01
PA	321	DUQUESNE,LS BED (CONEMAUGH FM)				1	SW	A	DQSN	02
TX	212	DURANGO,SAND MBR (TAYLOR MARL)	U			20	EC	A	DRNG	09
CO	112	DURANGO,TILL	U						DRNG	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 112	DURANGO,TILL							DRNG 03
OH 354	DURBIN,FM		DOL			WC	A	DRBN 01
OH 354	DURBIN,GP							DRBN 02
NH 347	DURGIN BROOK,MBR (LITTLETON FM)		SCH			C	C	DGBK 01
NH 340	DURHAM,QUARTZ DIORITE					SE	A	DRHM 01
VT 301+	DURKEE HILL,GREENSTONE					C	C	DKHL 01
VT 341	DURKEE HILL,GREENSTONE							DKHL 02
UT 317+	DURST,GP		SED			NC	C	DRST 02
UT 321	DURST,GP							DRST 03
UT 324	DURST,GP							DRST 06
TX 112	DURST,SILT					C	C	DRST 01
AK 110	DUSHKIN,BASALT	U			910	SC	C	DSKN 01
MO 344	DUTCH CREEK,SS	U						DCCK 03
IL 344	DUTCH CREEK,SS MBR (GRAND TOWER LS)				9	SC	A	DCCK 01
IN 344	DUTCH CREEK,SS MBR (JEFFERSONVILLE LS)							DCCK 04
PA 341	DUTCHMANS,CGL LENS (AMITY SH)					NW	A	DCMS 01
SC 370+	DUTCHMANS CREEK,GABBRO					NC	E	DMCK 02
SC 400	DUTCHMANS CREEK,GABBRO							DMCK 04
UT 410	DUTCH PEAK,TILLITE (SHEEPROCK GP)				1200	WC	C	DCPK 01
IL 364	DUTCHTOWN,FM							DTCN 06
KY 364	DUTCHTOWN,FM							DTCN 03
MO 364	DUTCHTOWN,FM (ANCELL GP)		LS,SH		52	SE	C	DTCN 02
IL 364	DUTCHTOWN,LS (ANCELL GP)							DTCN 04
NJ 347	DUTTONVILLE,MBR (RONDOUT FM)	U	LS,DOL		7	NC	D	DNVL 04
NY 347	DUTTONVILLE,MBR (RONDOUT FM)	U						DNVL 05
PA 347	DUTTONVILLE,MBR (RONDOUT FM)	U						DNVL 06
WA 112	DUWAMISH,FM		CL,ST		61	WC	D	DMSH 01
CA 361	DUZEL,FM		GYK		380	NW	C	DUZL 01
KY 324	DWALE,SH				<1	EC	A	DWLE 01
PA 341	DYBERRY,CGL [BED (CATSKILL FM)]					NE	A	DBRR 01
AR 324	DYE,MBR (BLOYD SH)	U			34	NW	D	DYE 01
AR 324	DYE,SH MBR (BLOYD FM)	U						DYE 02
CO 337+	DYER,DOL (CHAFFEE GP)	U			23	C	A	DYER 01
CO 341	DYER,DOL (CHAFFEE GP)	U						DYER 02
CO 337+	DYER,FM (CHAFFEE GP)							DYER 03
CO 341	DYER,FM (CHAFFEE GP)							DYER 04
MI 357	DYER BAY,FM		DOL		5	CAN	A	DYRB 01
IL 325	DYKERSBURG,SH MBR (CARBONDALE FM)				5	SC	E	DKBG 03
MT 217	DYNNESON,SAND					EC	C	DNSN 01
MT 217	DYNNESON,SS MBR (MOWRY SH)							DNSN 03

NE	323	DYSON HOLLOW,[BED] (STONER MBR OF STANTON LS)							<1	EC	C	DSHL	02
NE	323	/DYSON HOLLOW,LS MBR (STONER MBR OF STANTON LS)										DSHL	01
WV	324	EAGLE,LS [BED] (KANAWHA FM)							1	SW	A	EGL	04
UT	361	/EAGLE,MBR (BLUEBELL DOL)							55	C	C	EGL	07
WV	324	/EAGLE,SH [MBR] (KANAWHA FM)							14	SW	A	EGL	05
WY	211	EAGLE,SS										EGL	11
MT	211	EAGLE,SS (MONTANA GP)							72	NC	A	EGL	01
NY	371	EAGLE BRIDGE,QTZ							9	EC	A	EGB	01
NY	371	EAGLE BRIDGE,QTZ MBR (HATCH HILL FM)										EGB	03
VT	371	EAGLE BRIDGE,QTZ MBR (HATCH HILL FM)										EGB	02
IA	339	EAGLE CITY,LS							23	NC	A	EGL	01
IA	339	EAGLE CITY,MBR (HAMPTON FM)										EGL	02
WA	230	EAGLE CLIFF,PORPHYRITE									NW	A	EGF
OR	122	EAGLE CREEK,FM							150	NC	A	EGC	02
WA	122	EAGLE CREEK,FM										EGC	03
AK	317	EAGLE CREEK,FM (MANKOMEN GP)							900	EC	E	EGC	06
ID	122	/EAGLE CREEK,MBR (COLUMBIA RIVER BASALT)							12	WC	D	EGC	01
LA	212	EAGLE FORD,CLAY										EGF	02
OK	212	EAGLE FORD,CLAY										EGF	04
TX	212	EAGLE FORD,CLAY							140	EC	A	EGF	06
TX	212	EAGLE FORD,FM										EGF	07
LA	212	EAGLE FORD,FM (WOODBINE GP)										EGF	03
TX	212	EAGLE FORD,GP										EGF	08
OK	212	EAGLE FORD,SH										EGF	05
TX	212	EAGLE FORD,SH										EGF	09
WA	124	EAGLE GORGE,ANDESITE (KEECHELUS VOLCS)							1300	C	D	EGG	01
UT	124	EAGLE HILL,RHYOLITE										C	A
AR	231	EAGLE MILLS,FM							1400	SC	C	EGL	04
LA	231	EAGLE MILLS,FM										EGL	05
MS	231	EAGLE MILLS,FM										EGL	06
TX	231	EAGLE MILLS,FM										EGL	07
TX	213	EAGLE MOUNTAINS,SS							21	WC	C	EGL	01
TX	213	EAGLE MOUNTAINS,SS MBR (GRAYSON FM)										EGL	02
NM	121	EAGLE NEST,FM							300	NC	C	EGL	01
TX	212	EAGLE PASS,FM							1700	SC	A	EGL	01
TX	120	EAGLE PEAK,SYENITE										WC	C
IA	364	EAGLE POINT,MBR (DUNLEITH FM)										EGL	03
IL	364	EAGLE POINT,MBR (DUNLEITH FM)							4	NW	C	EGL	02
MO	364	EAGLE POINT,MBR (DUNLEITH FM)										EGL	04
CO	125	EAGLE RIVER,PORPHYRY										C	A

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ID 121	EAGLE ROCK,BASALT					SE	C	EGRK 01
NV 121+	EAGLES HOUSE,RHYOLITE	U			91	WC	D	EGLH 01
NV 122	EAGLES HOUSE,RHYOLITE	U						EGLH 02
CO 324	EAGLE VALLEY,EVAPORITE	U				C	D	EGLV 04
CO 324	EAGLE VALLEY,FM	U						EGLV 01
AZ 317+	EARP,FM (NACO GP)	U	SH,LS		180	SE	C	EARP 01
NM 317	EARP,FM (NACO GP)							EARP 02
AZ 321	EARP,FM (NACO GP)							EARP 03
KS 317	EASLY CREEK,SH (COUNCIL GROVE GP)	U						ELCK 01
NE 317	EASLY CREEK,SH (COUNCIL GROVE GP)	U			8	SE	A	ELCK 02
CT 231	EAST BERLIN,FM (MERIDEN GP)		SH,MS		180	C	C	EBRL 03
CT 231	EAST BERLIN,FM (NEWARK GP)	U						EBRL 01
MA 231	EAST BERLIN,FM (NEWARK GP)	U						EBRL 02
IA 211	EAST BLUFF,MBR (WINDROW FM)							EBLF 01
WI 211	EAST BLUFF,MBR (WINDROW FM)		CST		6	SC	C	EBLF 03
MI 440	EAST BRANCH,ARKOSE (DICKINSON GP)	U			300	WC	C	EBRC 02
ME 347+	EAST BRANCH,GP		SED			NC	D	EBRC 03
ME 351	EAST BRANCH,GP							EBRC 01
MT 327	EAST BUFFALO CREEK,LS MBR (TYLER FM)					C	C	EBCK 01
WY 124	EAST CANYON,CGL BED (PUDDLE SPRINGS MBR OF WIND RIVER FM)	U			47	C	D	ESCN 01
AK 110	EAST CAPE,VOLCS	U				SW	C	ESCP 01
TX 124	EASTERWOOD,SH (YEGUA GP)					EC	C	ESRD 01
CT 347	EASTFORD,GNEISS	U				NE	A	EFRD 01
ID 400	EAST FORK,FM	U	LS,QTZ		500	SC	A	EFRK 02
RI 330	EAST GREENWICH,GP	U	GR			C	C	EGRC 01
CO 123	EAST GULCH,TUFF	U			21	C	E	EGLC 03
PA 337	EAST KANE,SH MBR (KNAPP FM)					NW	A	ESKN 02
OR 111	[EAST LAKE,OBSDIAN]					C	D	ESLK 02
OR 111	/EAST LAKE,OBSDIAN FLOW							ESLK 01
TX 321	EASTLAND,SS MBR (GRAHAM FM)					C	A	ESLD 01
TX 324	EASTLAND LAKE,FM (SMITHWICK GP)		SS,LS		81	C	C	EDLK 01
OH 344	EAST LIBERTY,BONE BED (COLUMBUS LS)				1	WC	C	ELBR 06
KY 324	EAST LYNN,SS							ESLN 01
WV 324	EAST LYNN,SS				30	SW	A	ESLN 03
WV 324	EAST LYNN,SS [MBR] (ALLEGHENY FM)							ESLN 04
HI 121	[EAST MOLOKAI,VOLCS]				3600	C	C	EMLK 03
HI 121	/EAST MOLOKAI,VOLC SER	U						EMLK 01
TX 324	EAST MOUNTAIN,FM (LONE CAMP GP)				91	C	A	ESMN 01
VT 400	EAST MOUNTAIN,SCHIST					WC	A	ESMN 03
TX 324	EAST MOUNTAIN,SH (STRAWN GP)							ESMN 04

TX	324	EAST MOUNTAIN,SH MBR (MINERAL WELLS FM)	U						ESMN	02	
WA	304+	EASTON,SCHIST	U					C	A	ESTN	04
WA	307	EASTON,SCHIST	U							ESTN	04
AK	110	EAST POINT,FM	U	AND		150	SW	C	A	ESPN	01
ME	347	EASTPORT,FM	U	VOL		2400	EC	A	A	ESPR	01
ND	124	EAST TIOGA,CLAY [BED] (GOLDEN VALLEY FM)	U			110	NW	C	A	ESTG	01
ME	360+	EAST UNION,NORITE						SC	D	ESUN	01
ME	370	EAST UNION,NORITE								ESUN	02
PA	361	EAST WATERFORD,MBR (JUNIATA FM)		SS				SC	C	EWFD	01
TX	124	EATON,GREENSAND LENTIL (STONE CITY FM)				15	EC	A	A	ETON	01
MI	324	EATON,SS (GRAND RIVER GP)				15	SE	C	C	ETON	02
MI	324	EATON,SS MBR (SAGINAW FM)	U							ETON	03
IL	371	EAU CLAIRE,FM								ECLR	02
IN	371	EAU CLAIRE,FM								ECLR	12
MN	371	EAU CLAIRE,FM								ECLR	06
MI	371	EAU CLAIRE,MBR (MUNISING FM)								ECLR	09
IN	371	EAU CLAIRE,SS	U							ECLR	03
OH	371	EAU CLAIRE,SS	U							ECLR	07
IA	371	EAU CLAIRE,SS (DRESBACH GP)								ECLR	01
MI	371	EAU CLAIRE,SS (DRESBACH GP)	U							ECLR	04
WI	371	EAU CLAIRE,SS (DRESBACH GP)	U			30	WC	A	A	ECLR	08
WI	371	EAU CLAIRE,SS (ELK MOUND GP)								ECLR	10
CA	210+	EBBETTS PASS,GRANODIORITE						C	C	EBSP	01
CA	220	EBBETTS PASS,GRANODIORITE								EBSP	02
CA	400	ECHO,GRANITE						SC	A	ECHO	01
UT	211	ECHO CANYON,CGL			RD	940	NC	C	C	ECCN	01
AK	311+	ECHOOKA,FM (SADLEROCHIT GP)	U	STS		180	NC	D	B	ECHK	01
AK	317	ECHOOKA,FM (SADLEROCHIT GP)	U							ECHK	02
CO	124	ECHO PARK,ALLUVIUM	U			270	C	E	B	ECPK	03
VT	340	[ECHO POND,COMPLEX]						NE	B	ECPD	02
VT	340	/ECHO POND,GRANITIC COMPLEX								ECPD	01
WV	327	ECKMAN,SS [MBR] (POCAHONTAS FM)				32	SW	A	A	ECKM	01
TX	212	ECTOR,TONGUE (AUSTIN CHALK)	U	BK		15	NE	A	A	ECTR	02
NY	377	EDDY HILL,GRIT								EDHL	01
VT	377	EDDY HILL,GRIT				12	WC	A	A	EDHL	03
NY	377	EDDY HILL,GRIT MBR (SCHODACK FM)								EDHL	02
VT	377	EDDY HILL,GRIT MBR (SCHODACK FM)								EDHL	04
NJ	347	EDDYVILLE,MBR (ESOPUS FM)								EDVL	01
NY	347	EDDYVILLE,MBR (ESOPUS FM)		STS,MS	BK	24	SE	E	E	EDVL	02
NY	344	EDGECLIFF,MBR (ONONDAGA LS)	U			8	C	C	C	EGCF	04

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AK 111+	EDGE CUMBE, VOLCS					SE	D	EGMB 01
AK 112	EDGE CUMBE, VOLCS							EGMB 02
NV 374+	EDGE MONT, FM		SL, PHL		210	NC	D	EDGM 01
NV 377	EDGE MONT, FM							EDGM 02
IA 357	EDGE WOOD, DOL	U						EDGD 01
IL 357	EDGE WOOD, DOL	U						EDGD 02
WI 357	EDGE WOOD, DOL	U						EDGD 05
IL 357+	EDGE WOOD, FM							EDGD 09
IL 361	EDGE WOOD, FM							EDGD 14
IL 357+	EDGE WOOD, GP							EDGD 10
MO 357+	EDGE WOOD, GP				4	NE	A	EDGD 07
IL 361	EDGE WOOD, GP							EDGD 11
MO 361	EDGE WOOD, GP							EDGD 08
IL 357+	EDGE WOOD, LS	U						EDGD 03
IN 357	EDGE WOOD, LS	U						EDGD 13
MO 357+	EDGE WOOD, LS	U						EDGD 04
IL 361	EDGE WOOD, LS	U						EDGD 12
MO 361	EDGE WOOD, LS	U						EDGD 06
ID 121	EDIE SCHOOL, RHYOLITE				76	EC	C	EDSC 01
MT 121	EDIE SCHOOL, RHYOLITE							EDSC 02
VA 364	EDINBURG, FM		LS		140	NC	C	EDBG 01
WV 364	EDINBURG, FM (TRENTON GP)							EDBG 02
NJ 400	EDISON, GNEISS					NC	A	EDSN 04
ME 351+	EDMUNDS, FM	U	SH, RHY		910	EC	A	EDMD 01
ME 354	EDMUNDS, FM	U						EDMD 02
ME 347	EDMUNDS HILL, ANDESITE (DOCKENDORFF GP)					NE	A	EDMH 01
WA 420	EDNA, DOL (DEER TRAIL GP)	U				NE	C	EDNA 01
CA 121+	EDNA, MBR (PISMO FM)	U	SS		440	SC	E	EDNA 02
CA 122	EDNA, MBR (PISMO FM)	U						EDNA 03
NV 317	EDNA MOUNTAIN, FM	U	SS, SH		120	NC	C	EDNM 01
VA 331	EDRAY, SS [LENTIL] (LILLYDALE MBR OF BLUEFIELD FM)							EDRY 01
WV 331	EDRAY, SS [LENTIL] (LILLYDALE MBR OF BLUEFIELD FM)				23	SC	A	EDRY 03
TX 218	EDWARDS, FM (ATASCOSA GP)				180	EC	A	EDRD 05
TX 218	EDWARDS, GP							EDRD 07
TX 218	EDWARDS, LS (FREDERICKSBURG GP)	U						EDRD 01
NV 123	EDWARDS CREEK, TUFF	U			150	C	E	EDCK 02
MI 420	[EDWARDS ISLAND, BASALT (PORTAGE LAKE VOLCS)]	U		BK	15	NW	E	EDDI 02
MI 420	/EDWARDS ISLAND, FLOW (PORTAGE LAKE VOLCS)	U						EDDI 01
WA 217	EDWARDS SLOUGH, DIORITE (HORSESHOE BASIN GP)					NC	E	EDSG 01
IN 338	EDWARDSVILLE, FM (BORDEN GP)	U	SH, SS		16	SE	A	EDDV 01

IN	338	EDWARDSVILLE, MBR (MULDRAUGH FM)								EDDV	02
CA	121	EEL RIVER, FM (WILDCAT GP)								ELRV	01
NV	112	EETZA, FM (LAHONTAN VALLEY GP)								EETZ	03
IL	322	EFFINGHAM, LS MBR (MATTOON FM)	U	STS, SS GVL, CL	610	NW	C			ELRV	01
VA	364	EFFNA, LS (CLIFFFIELD GP)			27	WC	D			EETZ	03
NC	307	EFLAND, FM			3	EC	C			EFMG	01
TN	364	EGGLESTON, FM	U		67	SW	C			EFFN	01
VA	364	EGGLESTON, FM	U		3000	NC	D			EFLD	01
WV	364	EGGLESTON, FM (TRENTON GP)	U	TF						EGLS	08
KY	364	EGGLESTON, LS	U		46	SW	A			EGLS	10
TN	364	EGGLESTON, LS	U							EGLS	12
VA	364	EGGLESTON, LS	U							EGLS	07
TN	364	EGGLESTON, LS	U							EGLS	09
VA	364	EGGLESTON, LS	U							EGLS	11
TN	364	EGGLESTON, LS (CHICKAMAUGA GP)								EGLS	13
CT	364	EGREMONT, PHYLLITE								EGRM	03
MA	364	EGREMONT, PHYLLITE						WC	A	EGRM	04
NY	364	EGREMONT, PHYLLITE								EGRM	02
AK	111+	EIDER POINT, BASALT	U					SC	D	EDRP	01
AK	112	EIDER POINT, BASALT	U							EDRP	02
TN	364	EIDSON, MBR (LINCOLNSHIRE LS)						NE	C	EDSN	03
UT	112	EIGHT MILE, DACITE						SW	C	EGML	01
WI	420	EILEEN, SS (ORONTO GP)	U			91				EILN	01
KS	317	EISS, LS (COUNCIL GROVE GP)				610	NW	A		EISS	01
NE	317	EISS, LS (COUNCIL GROVE GP)				3	SE	A		EISS	03
KS	317	EISS, MBR (BADER LS)	U							EISS	02
NE	317	EISS, MBR (BADER LS)								EISS	04
UT	410	EKKER, FM (SHEEPROCK GP)								EISS	04
ID	400	ELBA, QTZ								EISS	04
UT	400	ELBA, QTZ	U			1300	WC	C		EKKR	01
ID	400	ELBA, QTZ (DOVE CREEK GP)				300	SC	E		ELBA	05
AZ	341	ELBERT, FM								ELBA	04
CO	341	ELBERT, FM	U							ELBA	03
NM	341	ELBERT, FM	U							ELBA	04
UT	341	ELBERT, FM	U							ELBR	05
GA	360+	ELBERTON, GRANITE								ELBR	07
GA	370	ELBERTON, GRANITE								ELBR	08
MD	347	ELBOW RIDGE, SS								ELBR	09
PA	347	ELBOW RIDGE, SS								ELBR	03
WV	347	ELBOW RIDGE, SS (HELDERBERG GP)								ELBR	04
PA	347	ELBOW RIDGE, SS MBR (COEYMAN'S LS)								ELBR	05
MD	347	ELBOW RIDGE, SS MBR (HELDERBERG FM)								ELBR	07
										ELBR	08
										ELBR	09
										ELBR	01
										ELBR	02
										ELBR	04
										ELBR	03
										ELBR	05



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA 371+	ELBROOK,DOL	U			610	SC	A	ELBK 03
VA 371+	ELBROOK,DOL	U						ELBK 07
PA 374	ELBROOK,DOL	U						ELBK 13
VA 374	ELBROOK,DOL	U						ELBK 17
TN 371+	ELBROOK,DOL (CONASAUGA GP)	U						ELBK 06
TN 374	ELBROOK,DOL (CONASAUGA GP)	U						ELBK 16
PA 371+	ELBROOK,FM	U						ELBK 04
VA 371+	ELBROOK,FM	U						ELBK 08
PA 374	ELBROOK,FM	U						ELBK 14
VA 374	ELBROOK,FM	U						ELBK 18
MD 371+	ELBROOK,LS	U						ELBK 02
PA 371+	ELBROOK,LS	U						ELBK 05
VA 371+	ELBROOK,LS	U						ELBK 09
WV 371+	ELBROOK,LS	U						ELBK 10
MD 374	ELBROOK,LS	U						ELBK 12
PA 374	ELBROOK,LS	U						ELBK 15
VA 374	ELBROOK,LS	U						ELBK 19
WV 374	ELBROOK,LS	U						ELBK 20
NM 112	EL CAJETE,MBR (VALLES RHYOLITE)	U					NC	D ELCJ 01
CA 221	EL CAPITAN,GRANITE	U					C	A ELCPC 01
IL 364	ELDENA,MBR (NACHUSA FM)	U	DOL		2	NC	C	ELDN 01
MO 364	ELDENA,MBR (NACHUSA FM)	U						ELDN 02
NV 350	ELDER,SS	U			1500	NC	C	ELDR 02
CA 221	ELDER CREEK,FM	U	SH,CH		2000	NW	C	EDCK 03
NV 374	ELDORADO,DOL	U			610	EC	A	ELDD 02
WA 210	ELDORADO,GNEISS	U					NC	D ELDD 01
NV 374	ELDORADO,LS	U						ELDD 03
CA 210	EL DORADO RIDGE,QUARTZ DIORITE	U					SE	C EDRC 01
ND 112	ELDRIDGE,DRIFT	U				23	SE	D EDDG 01
MT 211	ELDRIDGE CREEK,MBR (CODY SH)	U				37	SC	D EGCK 04
NV 331+	ELEANA,FM	U	CGL,QTZ		860	SC	C	ELEN 01
NV 337	ELEANA,FM	U						ELEN 02
NV 341	ELEANA,FM	U						ELEN 03
CO 420	ELECTRA LAKE,GABBRO	U					SW	E ECLK 03
WA 111	ELECTRON,MUDFLOW	U			8	WC	D	ELCR 01
NM 324	ELEPHANT BUTTE,FM (ARMENDARIS GP)	U	LS		25	SW	C	ELPB 01
UT 317	ELEPHANT CANYON,FM	U	LS,SS		320	SE	D	ELPC 02
AZ 211	ELEPHANT HEAD,QUARTZ MONZONITE	U					SE	E EPHD 01
CA 122	ELEPHANT HILL,BRECCIA MBR (GLENDDORA VOLCS)	U					SC	C ELPH 01
WA 121+	ELEPHANT MOUNTAIN,MBR (YAKIMA BASALT)	U			11	SC	C	ELPM 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IN 361	ELKHORN,FM	U			14	EC	A	ELKR 02
OH 361	ELKHORN,FM							ELKR 05
OH 361	ELKHORN,SH							ELKR 04
MT 211	ELKHORN MOUNTAINS,VOLCS	U			3000	C	C	ELKM 02
OR 231+	ELKHORN RIDGE,ARGILLITE	U			1500	NE	A	EKRG 01
OR 234	ELKHORN RIDGE,ARGILLITE	U						EKRG 02
OR 237	ELKHORN RIDGE,ARGILLITE	U						EKRG 03
OR 311	ELKHORN RIDGE,ARGILLITE	U						EKRG 04
OR 317	ELKHORN RIDGE,ARGILLITE	U						EKRG 05
KY 354	ELKINS,LS				1	EC	D	ELKS 02
WV 341	/ELKINS,SS				150	C	A	ELKS 01
KY 324	ELKINS FORK,SH [BED] (B'REATHITT FM)			BL	3	EC	A	EKFK 01
PA 321	/ELK LICK,CLAY [BED] (CONEMAUGH FM)				1	SW	A	EKLK 04
WV 321	ELK LICK,LS MBR (CASSELMAN FM)							EKLK 09
OH 321	ELK LICK,LS MBR (CONEMAUGH FM)	U						EKLK 03
PA 321	ELK LICK,LS MBR (CONEMAUGH FM)	U			4	SW	A	EKLK 06
NC 410	ELKMONT,SS (GREAT SMOKY GP)	U						ELKM 04
TN 410	ELKMONT,SS (GREAT SMOKY GP)	U			1500	EC	C	ELKM 05
WI 371	ELK MOUND,GP		SS,SH			WC	D	EKMD 01
CO 125+	ELK MOUNTAIN,PORPHYRY	U				C	A	ELKM 01
CO 211	ELK MOUNTAIN,PORPHYRY	U						ELKM 06
PA 341	ELK MOUNTAIN,SS				61	NE	A	ELKM 07
PA 341	ELK MOUNTAIN,SS MBR (CATSKILL FM)							ELKM 03
NV 120	ELKO PRINCE,RHYOLITE					NC	A	EKPC 01
OR 217	/ELK PEAK,LEUCOCRATIC QUARTZ MONZONITE					NE	C	EKPK 01
OR 217	[ELK PEAK,QUARTZ MONZONITE]							EKPK 04
MT 344	ELK POINT,FM		SH,DOL		470	CAN	C	ELKP 05
ND 344	ELK POINT,FM							ELKP 07
SD 344	ELK POINT,FM							ELKP 09
MT 344	ELK POINT,GP	U						ELKP 06
ND 344	ELK POINT,GP	U						ELKP 08
SD 344	ELK POINT,GP	U						ELKP 10
CO 324	ELK RIDGE,LS MBR (MINTURN FM)	U			7	C	C	EKRG 07
OR 112+	ELK RIVER,BEDS	U	CST			SW	C	EKRV 01
OR 121	ELK RIVER,BEDS	U						EKRV 02
CA 360	ELK SPRING,DOL				91	EC	D	EKSP 01
OR 124	ELKTON,STS				610	WC	D	ELKN 02
OR 124	ELKTON,STS MBR (TYEE FM)	U						ELKN 01
ID 364	ELLA,DOL	U			210	C	E	ELLA 01
WA 210+	ELLEMEHAM,FM	U	GNS		900	NC	E	ELMM 01

WA	220	ELLEMEHAM,FM	U							ELMM	02
TX	367	ELLENBURGER,GP	U			300	C	A		ELBG	05
TX	367	ELLENBURGER,LS								ELBG	06
OR	121+	ELLENSBURG,FM	U							ELBG	01
WA	121+	ELLENSBURG,FM	U	SS		300	C	A		ELBG	02
OR	122	ELLENSBURG,FM	U							ELBG	03
WA	122	ELLENSBURG,FM	U							ELBG	04
SC	211	ELLENTON,FM		CL		18	C	E		ELNN	01
VA	364	ELLETT,FM		LS				SC	C	ELLT	01
NY	341	ELLICOTT,SH (CONNEAUT GP)						WC	A	ELCT	01
NY	341	ELLICOTT,SH MBR (CHADAKOIN FM)								ELCT	03
PA	341	ELLICOTT,SH MBR (CHADAKOIN FM)								ELCT	02
MD	307	ELLICOTT CITY,GRANITE						NC	A	ELCC	01
MD	307	ELLICOTT CITY,GRANODIORITE								ELCC	02
PA	324+	ELLIOTT PARK,FM (POTTSVILLE GP)		SS		23	WC	E		ELPK	01
PA	327	ELLIOTT PARK,FM (POTTSVILLE GP)								ELPK	02
MT	221+	ELLIS,FM	U	LS		120	SC	A		ELLS	01
WY	221+	ELLIS,FM	U							ELLS	07
MT	224	ELLIS,FM	U							ELLS	09
WY	224	ELLIS,FM	U							ELLS	15
MT	221+	ELLIS,GP	U							ELLS	02
ND	221+	ELLIS,GP	U							ELLS	04
WY	221+	ELLIS,GP	U							ELLS	08
MT	224	ELLIS,GP	U							ELLS	10
ND	224	ELLIS,GP	U							ELLS	12
WY	224	ELLIS,GP	U							ELLS	16
SD	430	ELLISON,FM		QTZ		91	WC	A		ELSN	01
ME	360+	ELLSWORTH,FM						C	A	ELSR	07
ME	370	ELLSWORTH,FM								ELSR	08
IN	339+	ELLSWORTH,MBR (NEW ALBANY SH)								ELSR	11
IN	341	ELLSWORTH,MBR (NEW ALBANY SH)								ELSR	12
ME	360+	ELLSWORTH,SCHIST	U							ELSR	06
ME	370	ELLSWORTH,SCHIST	U							ELSR	05
MI	337+	ELLSWORTH,SH	U			160	SC	A		ELSR	03
IN	339+	ELLSWORTH,SH	U							ELSR	09
IN	341	ELLSWORTH,SH	U							ELSR	10
MI	341	ELLSWORTH,SH	U							ELSR	04
IL	364	ELM,MBR (NACHUSA FM)		LS		1	NC	C		ELM	01
MO	364	ELM,MBR (NACHUSA FM)								ELM	02
TX	318	ELM CREEK,LS (BELLE PLAINS GP)				46	C	A		EMCK	02

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX	318	ELM CREEK,LS MBR (BELLE PLAINS FM)	U						EMCK 03
TX	112	ELM CREEK,SILT				11	C	C	EMCK 01
OH	321	ELM GROVE,LS MBR (WAYNESBURG FM)	U						EMGV 01
PA	321	ELM GROVE,LS MBR (WAYNESBURG FM)							EMGV 02
WV	321	ELM GROVE,LS MBR (WAYNESBURG FM)	U			3	NC	A	EMGV 03
IL	371	ELMHURST,SS MBR (EAU CLAIRE FM)				36	NE	D	ELMR 01
KS	317	ELMO,LS MBR (WELLINGTON FM)				2	C	A	ELMO 01
CA	122	EL MODENO,VOLCS	U			230	SE	C	ELMD 01
OK	322	ELMONT,LS (VANOSS GP)							ELMN 13
IA	322	ELMONT,LS (WABAUNSEE GP)							ELMN 01
OK	322	ELMONT,LS (WABAUNSEE GP)							ELMN 09
MO	322	ELMONT,LS MBR (EMPORIA FM)							ELMN 06
IA	322	ELMONT,MBR (EMPORIA LS)	U						ELMN 02
KS	322	ELMONT,MBR (EMPORIA LS)	U			2	NE	A	ELMN 04
NE	322	ELMONT,MBR (EMPORIA LS)	U						ELMN 08
OK	322	ELMONT,MBR (EMPORIA LS)	U						ELMN 10
NY	347	ELMWOOD,MBR (MANLIUS LS)	U			3	C	A	ELMD 02
NM	367	EL PASO,DOL	U						ELPS 03
AZ	367+	EL PASO,FM	U						ELPS 01
NM	367	EL PASO,FM	U						ELPS 04
TX	367	EL PASO,FM				370	WC	A	ELPS 08
AZ	371	EL PASO,FM	U						ELPS 10
NM	367	EL PASO,GP	U						ELPS 05
TX	367	EL PASO,GP	U						ELPS 19
AZ	367+	EL PASO,LS	U						ELPS 02
NM	367+	EL PASO,LS	U						ELPS 06
TX	367	EL PASO,LS	U						ELPS 09
AZ	371	EL PASO,LS	U						ELPS 11
NM	371	EL PASO,LS	U						ELPS 15
TX	212	EL PICACHO,FM		SS			WC	E	EPCC 02
TX	124	EL PICO,CLAY (CLAIBORNE GP)			VAR	350	SC	E	ELPC 01
NM	112	EL RECHUELOS,RHYOLITE (POLVADERA GP)	U				NC	E	ELRC 01
OK	317	EL RENO,FM		SS,SH	RD		C	A	ELRN 01
OK	317	EL RENO,GP	U						ELRN 02
NM	124	EL RITO,FM		SS,CGL	RD	61	NC	C	ELRT 01
MO	338	ELSEY,FM		LS		15	SW	D	ELSY 03
MT	341	ELSTOW,MBR (DUPEROW FM)		LS		14	CAN	E	ELST 01
VT	341+	ELTEY MOUNTAIN,GRANITE	U				NC	D	ELMN 11
VT	344	ELTEY MOUNTAIN,GRANITE	U						ELMN 12
NM	211	EL VADO,SS MBR (MANCOS SH)				30	NC	E	ELVD 01

AZ	374	ELVES CHASM,TONGUE (MUAV LS)				15	NC	C	EVCM	01
MO	371	ELVINS,GP	U	DOL		37	SE	A	ELVS	03
VA	364	ELWAY,LS	U			12	SW	C	ELWY	01
VA	364	ELWAY,LS MBR (LURICH FM)							ELWY	02
IL	357	ELWOOD,FM		DOL		8	NE	E	ELWD	01
IN	332	ELWREN,FM (WEST BADEN GP)		SS		15	C	A	ELRN	03
KY	332	ELWREN,SS							ELRN	07
KY	332	ELWREN,SS MBR (PAINT CREEK FM)							ELRN	06
NV	317+	ELY,GP				760	EC	A	ELY	01
NV	320	ELY,GP							ELY	05
NV	331	ELY,GP							ELY	09
MN	440	ELY,GREENSTONE	U				NE	A	ELY	13
MN	440	ELY,GREENSTONE (KEEWATIN GP)							ELY	16
NV	317+	ELY,LS	U			460	EC	A	ELY	02
UT	317+	ELY,LS	U						ELY	04
NV	320	ELY,LS	U						ELY	06
UT	324	ELY,LS	U						ELY	08
UT	327	ELY,LS	U						ELY	15
NV	331	ELY,LS	U						ELY	10
UT	331	ELY,LS	U						ELY	12
CA	361+	ELY SPRINGS,DOL	U						ESPG	01
NV	361+	ELY SPRINGS,DOL	U			210	EC	A	ESPG	02
UT	361	ELY SPRINGS,DOL	U						ESPG	04
CA	364	ELY SPRINGS,DOL	U						ESPG	05
NV	364	ELY SPRINGS,DOL	U						ESPG	03
OK	311	EMANUEL,DOL BED (MARLOW FM)				<1	C	D	EMNL	01
MN	400	EMBARRASS,GRANITE	U				NE	A	EMBR	01
ME	112	EMBDEN,FM		SD		18	WC	D	EMBD	01
NM	430	EMBUDO,GRANITE					NC	C	EMBD	02
UT	371	EMERALD,MBR (AJAX DOL)	U			12	C	A	EMLD	05
WA	370	EMERALD,MBR (LAIB FM OF CANADA)		ARG	BK		CAN	D	EMLD	04
MT	367+	EMERSON,FM	U	SH,LS		340	NC	C	EMRS	01
MT	371	EMERSON,FM	U						EMRS	02
MT	374	EMERSON,FM	U						EMRS	03
VT	367	EMERSON SCHOOL,MBR (CASSIN FM)		LS		31	NW	D	EMSC	01
UT	211	EMERY,SS MBR (MANCOS SH)	U			240	EC	A	EMRY	01
NM	110	EMERY PEAK,FLOW (CLAYTON BASALT)					NE	C	EMPK	01
NM	110	EMERY PEAK,MBR (CLAYTON BASALT)]							EMPK	04
CA	371+	EMIGRANT,FM	U						EMGR	02
NV	371+	EMIGRANT,FM	U	LS,SL			C	A	EMGR	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 374	EMIGRANT,FM	U						EMGR 04
NV 374	EMIGRANT,FM	U						EMGR 05
NV 371+	EMIGRANT SPRINGS,LS				690	EC D		EGSP 01
NV 374	EMIGRANT SPRINGS,LS							EGSP 02
UT 234	EMIGRATION,FM		SS		300	NC A		EMGR 01
MN 430	EMILY,MBR (RABBIT LAKE FM)		SL			C A		EMLY 02
AR 371	EMINENCE,DOL							EMNC 06
IL 371	EMINENCE,DOL	U						EMNC 05
MO 371	EMINENCE,DOL				61	SC A		EMNC 02
KS 371	EMINENCE,DOL (ARBUCKLE GP)	U						EMNC 01
OK 371	EMINENCE,DOL (ARBUCKLE GP)	U						EMNC 03
ID 112	EMMETT,FM		SD,CL		91	SW A		EMMT 01
UT 400	EMMONS PEAK,QTZ					NE A		EMPK 03
OR 121+	EMPIRE,FM	U	SS		320	SW A		EMPR 01
OR 122	EMPIRE,FM	U						EMPR 02
MT 420	EMPIRE,FM (RAVALLI GP)	U	SH		180	WC A		EMPR 09
MO 322	EMPORIA,FM (WABAUNSEE GP)							EMPR 06
IA 322	EMPORIA,LS (WABAUNSEE GP)	U						EMPR 04
KS 322	EMPORIA,LS (WABAUNSEE GP)	U			12	NE A		EMPR 05
NE 322	EMPORIA,LS (WABAUNSEE GP)	U						EMPR 07
OK 322	EMPORIA,LS (WABAUNSEE GP)							EMPR 08
AL 307	EMUCKFAW,FM		SCH,GN			EC E		EMKF 01
MI 430	ENCHANTMENT LAKE,FM (CHOCOLAY GP)	U	GYK		150	NC E		EMLK 02
NH 227+	ENDICOTT,DIORITE (WHITE MOUNTAIN GP)					EC C		ENDC 01
NH 231	ENDICOTT,DIORITE (WHITE MOUNTAIN GP)							ENDC 02
AK 331+	ENDICOTT,GP	U	SH,SS			NC D		ENDC 03
AK 337	ENDICOTT,GP	U						ENDC 04
AK 341	ENDICOTT,GP	U						ENDC 06
IL 325	ENERGY,SH MBR (CARBONDALE FM)				5	SC E		ENRG 01
NY 341	ENFIELD,FM (SONYEA GP)		SH		240	C A		EFLD 02
MI 354	ENGADINE,DOL	U		BL	29	NE A		ENGD 01
UT 341+	ENGELMANN,FM	U	DOL		670	WC D		EGLM 08
UT 344	ENGELMANN,FM	U						EGLM 09
AK 111	ENGINEER,LOESS	U			12	EC E		ENGR 01
KS 325	ENGLEVALE,SS MBR (LABETTE SH)	U			15	SE A		EGLV 02
MO 325	ENGLEVALE,SS MBR (LABETTE SH)							EGLV 03
MT 337+	ENGLEWOOD,FM	U						EGLD 01
ND 337+	ENGLEWOOD,FM	U						EGLD 02
SD 337+	ENGLEWOOD,FM	U	LS		18	WC A		EGLD 03
WY 337+	ENGLEWOOD,FM	U						EGLD 04

MT	341	ENGLEWOOD,FM	U							EGLD	05	
ND	341	ENGLEWOOD,FM	U							EGLD	06	
SD	341	ENGLEWOOD,FM	U							EGLD	07	
WY	341	ENGLEWOOD,FM	U							EGLD	08	
IA	339	ENGLISH RIVER,FM (HANNIBAL GP)	U					6	EC	A	EGRV 02	
IL	339	ENGLISH RIVER,FM (HANNIBAL GP)	U								EGRV 05	
IA	339	ENGLISH RIVER,FM (YELLOW SPRING GP)	U								EGRV 08	
IA	339	ENGLISH RIVER,SS MBR (HANNIBAL SH)	U								EGRV 03	
IA	339	ENGLISH RIVER,STS (HANNIBAL GP)	U								EGRV 04	
MD	211	ENGLISHTOWN,FM	U								EGLS 03	
DE	211	ENGLISHTOWN,FM (MATAWAN GP)	U								EGLS 01	
NJ	211	ENGLISHTOWN,FM (MATAWAN GP)	U	SD					EC	A	EGLS 05	
IL	112	ENION,FM	U	TL						E	ENON 01	
WY	224	ENTRADA,SS	U					1	WC	E	ENRD 05	
AZ	224	ENTRADA,SS (SAN RAFAEL GP)	U								ENRD 01	
CO	224	ENTRADA,SS (SAN RAFAEL GP)	U								ENRD 02	
NM	224	ENTRADA,SS (SAN RAFAEL GP)	U								ENRD 03	
UT	224	ENTRADA,SS (SAN RAFAEL GP)	U			RD		95	EC	A	ENRD 04	
WA	124	ENUMCLAW,FM (KEECHELUS GP)	U	VOL					C	A	EMCL 01	
AL	212	EOLINE,MBR (COKER FM)	U	SD,CL				46	C	C	EOLN 01	
MS	212	EOLINE,MBR (COKER FM)	U								EOLN 02	
CO	420	EOLUS,GRANITE	U							SW	A	ELUS 01
ID	217	EPHRAIM,CGL (GANNETT GP)	U					300	SE	A	EPRM 01	
WY	217	EPHRAIM,CGL (GANNETT GP)	U								EPRM 02	
AZ	317	EPITAPH,DOL (NACO GP)	U					240	SE	C	EPTP 01	
NM	317	EPITAPH,DOL (NACO GP)	U								EPTP 02	
NJ	367	EPLER,FM (BEEKMANTOWN GP)	U								EPLR 01	
PA	367	EPLER,FM (BEEKMANTOWN GP)	U	LS,DOL				240	SE	C	EPLR 02	
NJ	367	EPLER,MBR (KITTATINNY LS)	U								EPLR 03	
TX	120	EPPENAUER RANCH,BASALT	U			BK		30	WC	E	EPRC 02	
TX	120	EPPENAUER RANCH,FM	U								EPRC 03	
CA	112	EPWORTH,GRAVEL MBR (SAN PEDRO FM)	U					61	SC	C	EPRT 01	
IL	112	EQUALITY,FM	U	CL,ST				9	SE	E	EQLT 01	
CO	123	EQUITY,MBR (RAT CREEK TUFF)	U					300	SW	A	EQTY 01	
NY	354	ERAMOSIA,DOL (LOCKPORT GP)	U					5	CAN	C	ERMS 03	
NY	354	ERAMOSIA,MBR (LOCKPORT DOL)	U								ERMS 01	
LA	122+	ERATH,MBR (ANAHUAC FM)	U	SH				890	SC	C	ERTH 01	
LA	123	ERATH,MBR (ANAHUAC FM)	U								ERTH 02	
UT	324	ERDA,FM (OQUIRRH GP)	U	LS				1100	NW	E	ERDA 01	
UT	211	ERICSON,FM (MESAVERDE GP)	U								ERCS 01	



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY	211	ERICSON,FM (MESAVERDE GP)	U			340	SW	A	ERCS 03
UT	211	ERICSON,SS (MESAVERDE GP)	U						ERCS 02
WY	211	ERICSON,SS (MESAVERDE GP)	U						ERCS 04
NY	112	ERIE,CLAY					WC	A	ERIE 01
AL	304	ERIN,SH	U			610	EC	A	ERIN 01
AL	301	ERIN,SLATE (TALLADEGA GP)							ERIN 03
AL	301	ERIN,SLATE MBR (TALLEDEGA FM)							ERIN 02
MT	341	ERMONT,FM		LS		300	SW	A	ERMN 01
TX	371	ERNA,MBR (WILBERNS FM)		SD		8	C	C	ERNA 01
TX	212	ERNST,MBR (BOQUILLAS FM)		LS		140	SW	D	ERNS 02
WY	311	ERVAY,CARBONATE ROCK MBR (PARK CITY FM)	U			5	NW	A	ERVY 01
WY	311	ERVAY,MBR (GOOSE EGG FM)	U						ERVY 02
IA	322	ERVINE CREEK,MBR (DEER CREEK LS)	U						EVCK 03
KS	322	ERVINE CREEK,MBR (DEER CREEK LS)	U						EVCK 04
MO	322	ERVINE CREEK,MBR (DEER CREEK LS)	U						EVCK 05
NE	322	ERVINE CREEK,MBR (DEER CREEK LS)	U			9	SE	A	EVCK 06
MA	347	ERVING,FM	U	SCH			NW	A	ERVG 01
MA	347	ERVING,MBR (LITTETON FM)							ERVG 02
NC	377	ERWIN,FM (CHILHOWEE GP)	U						ERWN 01
TN	377	ERWIN,FM (CHILHOWEE GP)	U		WH	210	NE	A	ERWN 03
VA	377	ERWIN,FM (CHILHOWEE GP)	U						ERWN 05
NC	377	ERWIN,QTZ (CHILHOWEE GP)	U						ERWN 02
TN	377	ERWIN,QTZ (CHILHOWEE GP)	U						ERWN 04
VA	377	ERWIN,QTZ (CHILHOWEE GP)	U						ERWN 06
AZ	331+	ESCABROSA,GP	U			240	SE	A	ECBR 02
NM	331+	ESCABROSA,GP	U						ECBR 04
AZ	337	ESCABROSA,GP	U						ECBR 06
NM	337	ESCABROSA,GP	U						ECBR 08
AZ	331+	ESCABROSA,LS	U						ECBR 03
NM	331+	ESCABROSA,LS	U						ECBR 05
AZ	337	ESCABROSA,LS	U						ECBR 07
NM	337	ESCABROSA,LS	U						ECBR 09
UT	224	ESCALANTE,MBR (ENTRADA SS)				85	SC	E	ESCL 01
AL	122	ESCAMBIA,SAND MBR (PENSACOLA CLAY)	U			49	SW	D	ECMB 01
FL	122	ESCAMBIA,SAND MBR (PENSACOLA CLAY)	U						ECMB 02
MI	364	ESCANABA,LS					C	A	ESCB 01
CA	124	ESCOBAR,SS				370	WC	C	ECBR 01
TX	212	ESCONDIDO,FM (NAVARRO GP)	U	SS		1000	SC	A	ECDD 02
CA	210	ESCONDIDO CREEK,LEUCOGRANODIORITE	U				SE	C	ECCK 01
CA	122	ESCUDO,SS				46	C	C	ESCD 02



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 122	ESQUIBEL, MBR (LOS PINOS FM)							EQBL 02
IA 364	ESTABLISHMENT, MBR (MIFFLIN FM)							EBLM 02
IL 364	ESTABLISHMENT, MBR (MIFFLIN FM)							EBLM 01
MO 364	ESTABLISHMENT, MBR (MIFFLIN FM)		SH		2	WC	C	EBLM 03
OR 112	ESTACADA, FM	U	GVL		30	NW	D	ESCD 01
CA 210	ESTELLE, QUARTZ DIORITE					SE	A	ESTL 01
CA 210	ESTELLE, TONALITE	U						ESTL 02
AK 112	ESTER, ASH BED (FAIRBANKS LOESS)	U			<1	NE	C	ESTR 03
AK 112	ESTER, ASH BED (GOLD HILL LOESS)	U						ESTR 01
SD 430	ESTES, CGL	U				SW	A	ESTS 01
AK 300	ESTHER, GRANITE	U				EC	A	ESTR 02
KY 354	ESTILL, SH MBR (CRAB ORCHARD FM)				17	EC	A	ESTL 03
OH 354	ESTILL, SH MBR (CRAB ORCHARD FM)							ESTL 04
NV 317+	ETCHART, LS	U			610	NC	D	ETCR 01
NV 321	ETCHART, LS	U						ETCR 02
NV 324	ETCHART, LS	U						ETCR 03
CA 121	ETCHEGOIN, FM	U	SD		2400	C	C	ECGN 01
MT 331	ETHERINGTON, FM (RUNDLE GP)		SH, LS		90	CAN	B	ERNG 01
TX 218	ETHOLEN, CGL	U			150	WC	A	ETLN 03
TX 218	ETHOLEN, FM (WASHITA GP)							ETLN 04
PA 367	ETNA FURNACE, MBR (NITTANY DOL)					C	D	EFRG 01
OH 337	EUCLID, STS MBR (BEDFORD SH)	U			6	NE	A	ECLD 01
MO 323	EUDORA, SH MBR (STANTON FM)							EUDR 04
IA 323	EUDORA, SH MBR (STANTON LS)	U						EUDR 02
KS 323	EUDORA, SH MBR (STANTON LS)	U			3	EC	A	EUDR 03
NE 323	EUDORA, SH MBR (STANTON LS)	U						EUDR 05
OR 123	EUGENE, FM	U	SH, SS		2400	WC	A	EUGN 01
TX 212	EULESS, FM (WOODBINE GP)		SH, SS		15	EC	C	ELSS 03
TX 212	EULESS, MBR (WOODBINE FM)	U						ELSS 04
TN 337	[EULIE, BED (CHATTANOOGA SH)]				<1	NC	C	EULI 01
TN 337	/EULIE, SH (CHATTANOOGA SH)							EULI 02
LA 112	EUNICE, FM		SED			C	C	EUNC 01
OH 354	EUPHEMIA, DOL (DURBIN GP)				2	WC	A	EPHM 01
CA 361+	EUREKA, GP							EURK 02
CA 364	EUREKA, GP							EURK 08
CO 123	/EUREKA, MBR (SAPINERO MESA TUFF)	U			610	SW	A	EURK 01
CA 361+	EUREKA, QTZ	U						EURK 03
ID 361+	EUREKA, QTZ	U						EURK 15
NV 361+	EUREKA, QTZ	U			150	EC	A	EURK 05
UT 361+	EUREKA, QTZ	U						EURK 07

CA	364	EUREKA,QTZ	U																	EURK	09
ID	364	EUREKA,QTZ	U																	EURK	16
NV	364	EUREKA,QTZ	U																	EURK	11
UT	364	EUREKA,QTZ	U																	EURK	13
CA	364	EUREKA,QTZ (POGONIP GP)	U																	EURK	14
CA	122	EUREKA VALLEY,MBR (STANISLAUS FM)	U																	EURK	01
NV	122	EUREKA VALLEY,MBR (STANISLAUS FM)	U																	EKVL	02
CA	122	EUREKA VALLEY,TUFF (STANISLAUS GP)	U																	EKVL	04
NV	122	EUREKA VALLEY,TUFF (STANISLAUS GP)	U																	EKVL	03
TN	211	EUTAW,FM	U																	EUTW	05
AL	212	EUTAW,FM	U																	EUTW	01
GA	212	EUTAW,FM	U																	EUTW	07
MS	212	EUTAW,FM	U																	EUTW	04
AL	212	EUTAW,FM (SELMA GP)	U																	EUTW	02
SC	112	EUTAWVILLE,MBR (OKEFENOKEE FM)	U																	ETVL	01
AK	112	EVA,FM	U																	EVA	01
WA	112	EVANS CREEK,DRIFT	U																	EVCK	07
CO	125+	EVANS GULCH,PORPHYRY	U																	EVGC	01
CO	211	EVANS GULCH,PORPHYRY	U																	EVGC	02
ID	125+	EVANSTON,FM	U																	EVNS	01
UT	125+	EVANSTON,FM	U																	EVNS	02
WY	125+	EVANSTON,FM	U																	EVNS	03
ID	211	EVANSTON,FM	U																	EVNS	04
UT	211	EVANSTON,FM	U																	EVNS	05
WY	211	EVANSTON,FM	U																	EVNS	06
OK	317	EVANSVILLE,SS BED (WELLINGTON FM)	U																	EVVL	01
CT	377+	EVERETT,FM	U																	EVRT	02
MA	377+	EVERETT,FM	U																	EVRT	03
NY	377+	EVERETT,FM	U																	EVRT	04
CT	410	EVERETT,FM	U																	EVRT	05
MA	410	EVERETT,FM	U																	EVRT	06
NY	410	EVERETT,FM	U																	EVRT	07
IL	364	EVERETT,MBR (NACHUSA FM)	U																	EVRT	01
MO	364	EVERETT,MBR (NACHUSA FM)	U																	EVRT	08
NY	377+	EVERETT,SCHIST	U																	EVRT	09
NY	410	EVERETT,SCHIST	U																	EVRT	10
MI	420	EVERGREEN,AMYGDALOID (PORTAGE LAKE VOLCS)	U																	EVRG	01
VA	367	EVERONA,LS	U																	EVRN	05
OH	344	EVERSOLE,CHERT MBR (COLUMBUS LS)	U																	EVRL	01
WA	112	[EVERSON,DRIFT]	U																	EVRS	05

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WA	112	/EVERSON, GLACIOMARINE DRIFT							EVRS 01
AR	364	EVERTON, FM	U	LS		120	NW	A	EVNR 01
IL	364	EVERTON, FM							EVNR 07
KY	364	EVERTON, FM	U						EVNR 06
MO	364	EVERTON, FM							EVNR 04
IL	364	/EVERTON, GP							EVNR 08
MT	211	EVERTS, FM							EVRS 03
WY	211	EVERTS, FM							EVRS 04
VA	307	EVINGTON, GP	U	SS, MS MET		380	NW	E	EVRS 04
OH	321	EWING, LS MBR (CONEMAUGH FM)	U			2	C	A	EWNG 02
PA	321	EWING, LS MBR (CONEMAUGH FM)	U						EWNG 05
WV	321	EWING, LS MBR (CONEMAUGH FM)							EWNG 08
MO	325	EXCELLO, FM (CABANISS GP)			BK	1	NC	C	EXCL 03
KS	325	EXCELLO, FM (CHEROKEE GP)							EXCL 02
MO	325	EXCELLO, FM (CHEROKEE GP)							EXCL 06
IL	325	EXCELLO, SH MBR (CARBONDALE FM)							EXCL 05
KS	325	EXCELLO, SH MBR (SENORA FM)							EXCL 07
MO	325	EXCELLO, SH MBR (SENORA FM)							EXCL 08
OK	325	EXCELLO, SH MBR (SENORA FM)							EXCL 04
NH	341	EXETER, DIORITE	U				SE	A	EXTR 02
NH	341	EXETER, DIORITE (HILLSBORO GP)]							EXTR 04
NM	224	EXETER, SS	U		PK, WH	23	NE	A	EXTR 03
OK	224	EXETER, SS	U						EXTR 01
TX	124	EXHIBIT, SS MBR (HANNOLD HILL FM)				5	SW	D	EXBT 01
IA	323	EXLINE, LS				<1	SC	C	EXLN 01
IL	325	EXLINE, LS MBR (MODESTO FM)							EXLN 02
MO	323	EXLINE, LS [MBR] (PLEASANTON FM)							EXLN 03
MT	337+	EXSHAW, FM		SH	BK	21	CAN	B	EXSH 01
MT	341	EXSHAW, FM							EXSH 02
NV	120	EXTENSION, BRECCIA	U			300	C	A	EXNS 01
UT	374	EYE OF NEEDLE, LS				62	SW	E	ENDL 01
PA	364	EYER, FM (HATTER GP)				2	SC	C	EYER 01
PA	364	EYER, LS MBR (HATTER FM)							EYER 02
NY	344	FABIUS, BED (TULLY LS)				2	C	E	FBUS 11
SD	327	FAIRBANK, FM							FRBK 04
WY	327	FAIRBANK, FM		SS	RD	30	SW	C	FRBK 05
NE	328	FAIRBANK, FM							FRBK 08
WY	327	FAIRBANK, MBR (HARTVILLE FM)							FRBK 07
IN	321	FAIRBANKS, COAL MBR (BOND FM)				1	WC	E	FRBK 03
AK	111+	FAIRBANKS, LOESS	U			60	NE	C	FRBK 01

AK	112	FAIRBANKS, LOESS	U									FRBK	02
TX	123	FAIRBURY, TRACHYTE (GARREN GP)						190	WC	C		FRBR	02
CT	361+	FAIRFIELD, FM		SCH, GN				91	SW	E		FFLD	01
CT	364	FAIRFIELD, FM										FFLD	05
OH	337	FAIRFIELD, MBR (CUYAHOGA FM)		SS, SH				100	C	A		FFLD	02
VT	377	FAIRFIELD POND, PHYLLITE MBR (UNDERHILL FM)		SCH					NW	D		FFDP	01
MD	122	FAIRHAVEN, DIATOMACEOUS EARTH MBR (CALVERT FM)	U					8	C	A		FRVN	01
MD	122	FAIRHAVEN, MBR (CALVERT FM)										FRVN	02
VT	360	FAIRLEE, GRANITE GNEISS								C	A	FIRL	03
NH	360	FAIRLEE, GRANITE GNEISS (HIGHLANDCROFT GP)										FIRL	01
NH	360	FAIRLEE, QUARTZ MONZONITE	U									FIRL	02
VT	360	FAIRLEE, QUARTZ MONZONITE	U									FIRL	04
NH	360	FAIRLEE, QUARTZ MONZONITE (HIGHLANDCROFT GP)										FIRL	05
OK	317	FAIRMONT, MBR (HENNESSEY SH)				RD		76	NC	A		FRMN	07
OK	317	FAIRMONT, SH (HENNESSEY GP)	U									FRMN	19
IN	361	FAIRMOUNT, LS MBR (FAIRVIEW FM)	U									FRMN	12
OH	361	FAIRMOUNT, LS MBR (FAIRVIEW FM)	U					24	SW	A		FRMN	14
WI	364	FAIRPLAY, BED (DUNLEITH MBR OF GALENA DOL)										FRPL	05
IA	364	FAIRPLAY, MBR (DUNLEITH FM)										FRPL	06
IL	364	FAIRPLAY, MBR (DUNLEITH FM)		LS				6	NC	C		FRPL	02
SD	211	FAIRPOINT, MBR (FOX HILLS FM)		ST, SD				51	WC	D		FRPN	01
KS	211	FAIRPORT, CHALK MBR (CARLILE SH)	U					26	NC	A		FRPR	06
CO	211	/FAIRPORT, CHALKY SH MBR (CARLILE SH)	U									FRPR	05
NE	211	/FAIRPORT, CHALKY SH MBR (CARLILE SH)	U									FRPR	28
SD	211	/FAIRPORT, CHALKY SH MBR (CARLILE SH)	U									FRPR	26
CO	211	FAIRPORT, MBR (CARLILE SH)										FRPR	04
NE	211	FAIRPORT, MBR (CARLILE SH)										FRPR	25
NM	211	FAIRPORT, MBR (CARLILE SH)										FRPR	24
SD	211	[FAIRPORT, MBR (CARLILE SH)]										FRPR	27
IN	361	FAIRVIEW, FM	U									FRVW	02
KY	361	FAIRVIEW, FM	U									FRVW	03
OH	361	FAIRVIEW, FM	U	LS, SH				37	SW	A		FRVW	04
PA	361	FAIRVIEW, MBR (MARTINSBURG FM)										FRVW	06
CA	310	FAIRVIEW VALLEY, FM	U	LS				1900	SE	C		FVVL	01
CO	311	FALCON, LS MBR (LYKINS FM)						1	C	C		FLCN	02
WY	311	FALCON, LS MBR (LYKINS FM)										FLCN	03
TX	124	FALCON, SS MBR (COOK MOUNTAIN FM)						150	SC	C		FLCN	01
MN	112	FALCONER, FM										FLCR	01
ND	112	FALCONER, FM		ST, SD				31	NE	E		FLCR	02
MN	112	FALCONER, MBR (COLEHARBOR FM)										FLCR	06

ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MN	112	FALCON HEIGHTS,SAND					SC	D	FCHG 01
WY	211	FALES,SS MBR (MESAVERDE FM)	U			73	C	D	FLES 01
NY	351	FALKIRK,DOL (BERTIE GP)				9	WC	A	FLKK 01
NY	351	FALKIRK,MBR (BERTIE FM)							FLKK 02
PA	341	FALL CREEK,CGL LENTIL (JAVA FM)	U		YL	3	NE	A	FLCK 09
PA	341	FALL CREEK,CGL MBR (WISCOY FM)							FLCK 10
IN	339	FALLING RUN,BED (CLEGG CREEK MBR OF NEW ALBANY SH)		PHS		<1	SE	B	FLGR 01
OK	317	FALLIS,SS MBR (WELLINGTON FM)	U			73	EC	A	FLLS 01
NV	111	FALLON,FM	U	SED		11	WC	D	FLLN 01
MT	217	FALL RIVER,FM (CLOVERLY GP)							FLRV 13
ND	217	FALL RIVER,FM (DAKOTA GP)							FLRV 12
MT	217	FALL RIVER,FM (INYAN KARA GP)							FLRV 14
SD	217	FALL RIVER,FM (INYAN KARA GP)	U			48	SW	A	FLRV 08
WY	217	FALL RIVER,FM (INYAN KARA GP)	U						FLRV 16
NE	217	FALL RIVER,MBR (OMADI SS)							FLRV 17
MT	217	FALL RIVER,SS	U						FLRV 15
NE	217	FALL RIVER,SS (DAKOTA GP)							FLRV 18
SD	217	FALL RIVER,SS (INYAN KARA GP)	U						FLRV 11
MT	217	FALL RIVER,SS MBR (COLORADO SH)	U						FLRV 07
WY	217	FALL RIVER,SS MBR (COLORADO SH)	U						FLRV 09
TX	124	/FALLS CITY,FM				720	SC	D	FLSC 01
KS	317	FALLS CITY,LS (ADMIRE GP)	U						FLSC 03
NE	317	FALLS CITY,LS (ADMIRE GP)	U			2	SE	A	FLSC 05
KS	317	FALLS CITY,LS MBR (CHICAGO MOUND FM)							FLSC 04
NE	317	FALLS CITY,LS MBR (CHICAGO MOUND FM)							FLSC 06
MT	430	FALLS CREEK,GNEISS (NORTH SNOWY GP)					SC	E	FLCK 11
VA	331	FALLS MILLS,LS MBR (HINTON FM)			YL	2	SW	A	FLML 01
WV	331	FALLS MILLS,LS MBR (HINTON FM)							FLML 06
VA	331	[FALLS MILLS,MBR (HINTON FM)]							FLML 11
WV	331	[FALLS MILLS,MBR (HINTON FM)]							FLML 12
VA	331	/FALLS MILLS,SH MBR (HINTON FM)			RD	15	SW	A	FLML 02
WV	331	/FALLS MILLS,SH MBR (HINTON FM)							FLML 07
WV	331	/FALLS MILLS,SS (HINTON GP)							FLML 08
VA	331	/FALLS MILLS,SS MBR (HINTON FM)	U			15	SW	A	FLML 04
WV	331	/FALLS MILLS,SS MBR (HINTON FM)	U						FLML 09
ID	112	FALLS RIVER,BASALT	U						FLRV 01
WY	112	FALLS RIVER,BASALT					NW	E	FLRV 02
CA	121	FALOR,FM		SED		610	NW	C	FLOR 01
TX	321	FAMBRO,SS (STRAWN GP)				15	C	D	FMBR 02
TX	321	FAMBRO,SS MBR (POSIDEON FM)							FMBR 01

UT	374	FANDANGLE,LS	U		51	WC	D	FDGL	01
AK	101+	FANETO,FM	U	CGL,SS	450	SW	E	FNT0	02
AK	112	FANETO,FM	U					FNT0	01
WA	210	FAN LAKE,GRANODIORITE	U		910	NE	E	FNLK	01
MD	364	FANNETTSBURG,MBR (SHIPPENSBURG FM)	U					FBRG	01
PA	364	FANNETTSBURG,MBR (SHIPPENSBURG FM)	U	LS	12	SC	C	FBRG	02
NM	122	FANNEY,RHYOLITE	U		370	WC	A	FNNY	01
CA	227	FANT,ANDESITE	U		46	NC	A	FANT	02
TX	122	FANT,MBR (CATAHOULA TUFF)	U		78	SC	A	FANT	01
CA	227	/FANT,META-ANDESITE	U					FANT	03
CA	100	FANTASTIC,LAVA BEDS	U			NW	C	FNSC	01
CA	211	FARALLON,QUARTZ DIORITE	U			WC	C	FRLN	01
AZ	104	FARAWAY RANCH,FM	U	VOL	240	SE	C	FRRC	01
CA	400	FARGO,GRANITE	U			SE	D	FRGO	03
CA	221	FARGO CANYON,DIORITE	U			SE	C	FRGC	01
CO	124	FARISITA,CGL	U		370	SC	C	FRST	03
IA	323	FARLEY,LS MBR (LANE SH)	U					FRLY	01
MO	323	FARLEY,MBR (WYANDOTTE FM)	U		3	NW	A	FRLY	08
IA	323	FARLEY,MBR (WYANDOTTE LS)	U					FRLY	02
KS	323	FARLEY,MBR (WYANDOTTE LS)	U					FRLY	04
MO	323	FARLEY,MBR (WYANDOTTE LS)	U					FRLY	05
NE	323	FARLEY,MBR (WYANDOTTE LS)	U					FRLY	07
IL	112	FARMDALE,LOESS	U		2	C	C	FMDL	02
IN	112	FARMDALE,LOESS	U					FMDL	05
KY	112	FARMDALE,LOESS	U					FMDL	06
MO	112	FARMDALE,LOESS	U					FMDL	12
WI	112	FARMDALE,LOESS	U					FMDL	08
IN	112	FARMDALE,LOESS MBR (ATHERTON FM)	U					FMDL	11
IL	112	FARMDALE,SILT	U					FMDL	03
WI	112	FARMDALE,SILT	U					FMDL	09
KY	337	FARMERS,MBR (BORDEN FM)	U	STS	11	EC	C	FRMR	01
CO	123	FARMERS CREEK,TUFF	U		300	SW	D	FMCK	01
NJ	124	FARMINGDALE,MBR (MANASQUAN FM)	U	SD	13	EC	E	FMGD	01
IL	325	FARMINGTON,SH MBR (MODESTO FM)	U		15	NC	A	FRMG	03
CO	211	FARMINGTON,SS MBR (KIRTLAND SH)	U					FRMG	01
NM	211	FARMINGTON,SS MBR (KIRTLAND SH)	U		140	NW	A	FRMG	02
UT	430	FARMINGTON CANYON,COMPLEX	U	MET	3000	NC	C	FMGC	01
TN	364	FARRAGUT,LS	U		35	EC	C	FRGT	01
NV	310+	FARREL CANYON,FM	U	SED	1200	NC	D	FRLC	01
NV	320	FARREL CANYON,FM	U					FRLC	02



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO 211	FARRER,FM	U						FRRR 01
UT 211	FARRER,FM	U	SS,SH		330	EC	C	FRRR 02
CO 211	FARRER,MBR (PRICE RIVER FM)							FRRR 03
UT 211	FARRER,MBR (PRICE RIVER FM)							FRRR 04
NC 307	FARRINGTON,COMPLEX		IG			NC	D	FRNG 01
NJ 211	FARRINGTON,SAND MBR (RARITAN FM)	U			24	EC	C	FRNG 02
PA 211	FARRINGTON,SAND MBR (RARITAN FM)							FRNG 04
TX 124	FASHING,CLAY MBR (WHITSETT FM)	U		GN	34	SE	A	FSNG 02
KY 364	FAULCONER,BED (PERRYVILLE MBR OF LEXINGTON LS)	U			8	C	A	FLCR 05
VA 400	FAUQUIER,FM (LYNCHBURG GP)	U	MET			NE	C	FUAR 01
NV 234	FAVRET,FM	U	LS		240	NC	C	FVRT 01
NY 400	FAXON,LS				6	NE	A	FXON 01
IN 112	FAYETTE,DRIFT					EC	D	FYTT 01
IN 112	FAYETTE,TILL							FYTT 02
OK 331	FAYETTEVILLE,FM							FTVL 05
MO 332	FAYETTEVILLE,FM							FTVL 03
AR 331	FAYETTEVILLE,SH	U			53	NE	A	FTVL 02
OK 331	FAYETTEVILLE,SH	U						FTVL 06
MO 332	FAYETTEVILLE,SH							FTVL 04
NM 120	FAYWOOD,RHYOLITE					SW	C	FYWD 01
GA 125	FEARN SPRINGS,FM							FSPG 03
MS 125	FEARN SPRINGS,FM (WILCOX GP)		CL		15	EC	C	FSPG 05
GA 125	FEARN SPRINGS,MBR (NANAFALIA FM)	U						FSPG 04
MS 125	FEARN SPRINGS,MBR (NANAFALIA FM)	U						FSPG 06
MI 430	FELCH,FM (MENOMINEE GP)	U	SCH		61	C	A	FLCH 01
NE 121	FELDT RANCH,BEDS (ASH HOLLOW FM)		SD,GVL		5	WC	C	FDRC 01
CA 220+	FELIZ,GRANODIORITE					SC	C	FLIZ 01
CA 230	FELIZ,GRANODIORITE							FLIZ 02
CA 300	FELIZ,GRANODIORITE							FLIZ 03
KS 211	FENCEPOST,BED (PFEIFER MBR OF GREENHORN LS)		LS		<1	NC	A	FCPS 01
MI 430	FENCE RIVER,FM (BARAGA GP)	U	MET		76	NW	C	FCRV 01
CA 400	FENNER,GRANITE GNEISS					SE	C	FNNR 01
WY 112	FENTON PASS,FM	U	CGL		14	NC	D	FNPS 01
TN 327	FENTRESS,FM		SH		53	NC	A	FNRS 02
UT 371	FERA,LS	U			120	WC	D	FERA 01
MT 211	FERDIG,MBR (MARIAS RIVER SH)	U			69	NC	C	FRDG 03
IN 324	FERDINAND,BED (LEAD CREEK MBR OF MANSFIELD FM)				1	SC	C	FRDD 04
IN 324	FERDINAND,LS MBR (MANSFIELD FM)							FRDD 02
OK 317	FERGUSON,GYPSUM MBR (BLAINE FM)	U				WC	A	FRGS 02
WY 211	FERGUSON,MBR (PARKMAN SS)				170	NE	D	FRGS 01

NV	317+	FERGUSON MOUNTAIN,FM		LS		610	EC	C	FRGM	01
UT	317+	FERGUSON MOUNTAIN,FM							FRGM	07
NV	321	FERGUSON MOUNTAIN,FM							FRGM	02
UT	321	FERGUSON MOUNTAIN,FM							FRGM	08
CA	112+	FERNANOO,FM	U	CGL,SS		1800	SC	A	FRND	01
CA	121	FERNANDO,FM	U						FRND	02
MI	430	FERN CREEK,FM (CHOCOLAY GP)	U	CGL		>30	WC	C	FRCK	15
KS	337	FERN GLEN,LS	U						FRGL	03
IL	338	FERN GLEN,LS	U						FRGL	01
MO	338	FERN GLEN,LS	U			3	EC	A	FRGL	02
MT	220	FERNIE,FM		SH		240	CAN	A	FRNI	01
WA	370+	FERNOW,GNEISS					NC	C	FRNW	02
WA	400	FERNOW,GNEISS							FRNW	03
UT	123	FERNOW,QUARTZ LATITE	U					C	FRNW	01
OR	121	FERN RIDGE,TUFF (SARDINE GP)				460	NW	A	FRDG	01
OR	121	FERN RIDGE,TUFF MBR (SARDINE FM)							FRDG	02
AL	361	FERNVALE,FM	U						FRVL	07
MO	361	FERNVALE,FM	U						FRVL	13
TN	361	FERNVALE,FM	U			12	C	A	FRVL	18
OK	361	FERNVALE,FM (PATTERSON RANCH GP)							FRVL	16
AL	361	FERNVALE,LS	U						FRVL	08
AR	361	FERNVALE,LS	U						FRVL	10
MO	361	FERNVALE,LS	U						FRVL	14
OK	361	FERNVALE,LS	U						FRVL	17
TN	361	FERNVALE,LS	U						FRVL	19
KS	112	FERRELVIEW,FM							FRLV	01
MO	112	FERRELVIEW,FM		ST		18	NW	E	FRLV	02
WY	125+	FERRIS,FM	U	SH,SS		2000	SC	A	FRRS	02
WY	211	FERRIS,FM	U						FRRS	03
CO	211	FERRON,SS MBR (MANCOS SH)	U						FRRN	01
UT	211	FERRON,SS MBR (MANCOS SH)	U			30	EC	A	FRRN	02
MI	344	FERRON POINT,FM (TRAVERSE GP)	U	CL	GN,BL	11	EC	A	FRNP	01
AR	218	FERRY LAKE,ANHYDRITE (TRINITY GP)	U						FRLK	01
LA	218	FERRY LAKE,ANHYDRITE (TRINITY GP)	U			76	NW	C	FRLK	02
MS	218	FERRY LAKE,ANHYDRITE (TRINITY GP)	U						FRLK	03
TX	218	FERRY LAKE,ANHYDRITE (TRINITY GP)	U						FRLK	04
MS	218	FERRY LAKE,FM (TRINITY GP)							FRLK	06
TX	218	FERRY LAKE,MBR (GLEN ROSE FM)							FRLK	14
TN	364	FETZER,LS				2	SC	C	FTZR	04
VA	364	FETZER,LS							FTZR	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
GA 364	FETZER,TONGUE (ARLINE FM)							FTZR 01
TN 364	FETZER,TONGUE (ARLINE FM)							FTZR 02
VA 364	FETZER,TONGUE (ARLINE FM)							FTZR 03
WA 230	FIDALGO,FM		IG			NW	A	FDLG 01
ID 200+	FIDDLE CREEK,SCHIST (RIGGINS GP)	U			2700	WC	D	FDCK 01
ID 300	FIDDLE CREEK,SCHIST (RIGGINS GP)	U						FDCK 03
NY 351	FIDDLERS GREEN,DOL (BERTIE GP)				12	WC	A	FDLG 02
NY 351	FIDDLERS GREEN,DOL MBR (BERTIE FM)							FDLG 03
VA 331	FIDO,SS			RD	15	SW	A	FIDO 01
OR 231	FIELDS CREEK,FM (ALDRICH MOUNTAINS GP)	U	SH,MS		4600	C	D	FDCK 02
WA 122+	FIFES PEAK,FM	U	AND			SC	C	FFPK 01
WA 123	FIFES PEAK,FM	U						FFPK 02
MI 344	FILER,SS LENTIL (AMHERSTBURG FM)	U			15	C	C	FILR 01
NM 111	FILLMORE,ALLUVIUM					SC	D	FLMR 01
UT 367	FILLMORE,FM (POGONIP GP)	U			460	WC	C	FLMR 05
NV 367	FILLMORE,LS (POGONIP GP)							FLMR 02
UT 367	FILLMORE,LS (POGONIP GP)							FLMR 03
NY 344	FILLMORE GLEN,BED (TULLY LS)		LS,SH		3	C	E	FLMG 08
VA 364	FINCASTLE,CGL				17	SC	E	FCSL 01
VA 364	FINCASTLE,CGL MBR (LIBERTY HALL FM)							FCSL 02
AK 107	FINGER BAY,VOLCS	U			4600	SW	C	FGRB 01
TX 321	FINIS,FM (CADDO CREEK GP)				30	NC	A	FINS 01
TX 321	FINIS,SH (CISCO GP)							FINS 03
TX 321	FINIS,SH MBR (GRAHAM FM)							FINS 02
NM 217	FINLAY,LS							FNLV 05
TX 218	FINLAY,LS	U			46	WC	A	FNLV 01
TX 218	FINLAY,LS (SIXSHOOTER GP)							FNLV 02
WA 200+	FINNEY,GREENSCHIST					NC	C	FNNY 02
WA 300	FINNEY,GREENSCHIST							FNNY 03
IN 324	FINNIE,SS							FINN 02
IL 326	FINNIE,SS MBR (ABBOTT FM)							FINN 01
KY 324	FINNIE,SS MBR (TRADEWATER FM)				15	WC	A	FINN 03
UT 231	[FIRE CLAY HILL,BENTONITE MBR (CHINLE FM)]				4	SW	C	FCLH 02
UT 231	/FIRE CLAY HILL,BENTONITIC SH MBR (CHINLE FM)							FCLH 01
AK 237	FIRE CREEK,STS MBR (IVISHAK FM)	U			33	NE	E	FRCK 18
WY 124	FIREHOLE,BED (WILKINS PEAK MBR OF GREEN RIVER FM)	U	EVP		<1	SW	D	FRHL 04
MT 224	FIREMOON,LS MBR (PIPER FM)				21	NE	C	FRMN 05
ND 224	FIREMOON,LS MBR (PIPER FM)							FRMN 06
MA 307+	FISH BROOK,GNEISS	U				NE	D	FBRK 01
MA 350	FISH BROOK,GNEISS	U						FBRK 02

CO	123	FISH CANYON,TUFF				390	SW	E	FSCN	01	
CA	122	FISH CREEK,GYPSUM				30	SE	C	FCRK	01	
CA	122	FISH CREEK,GYPSUM MBR (SPLIT MOUNTAIN FM)							FCRK	13	
OH	317	FISH CREEK,SS MBR (GREENE FM)			U				FCRK	09	
PA	317	FISH CREEK,SS MBR (GREENE FM)			U	30	SW	A	FCRK	10	
WV	317	FISH CREEK,SS MBR (GREENE FM)							FCRK	12	
NV	122	FISH CREEK MOUNTAINS,TUFF			U	910	C	E	FCRM	01	
OR	123+	FISHER,FM			U	460	WC	A	FSHR	03	
OR	124	FISHER,FM			U				FSHR	04	
CO	123	FISHER,QUARTZ LATITE			U	300	SW	A	FSHR	02	
ID	361	FISH HAVEN,DOL			U	150	SE	A	FSHV	01	
NV	361	FISH HAVEN,DOL			U				FSHV	02	
UT	361	FISH HAVEN,DOL			U				FSHV	03	
NJ	112	FISH HOUSE,CLAY				2	WC	A	FSHS	01	
NY	367+	FISHKILL,LS (WAPPINGER GP)						SE	A	FSKL	01
NY	371	FISHKILL,LS (WAPPINGER GP)							FSKL	02	
OR	111	[FISH LAKE,BASALT]						C	D	FSLK	02
OR	111	/FISH LAKE,FLOW								FSLK	01
MD	321	/FISHPOT,LS MBR (MONONGAHELA FM)			U					FSPT	02
OH	321	/FISHPOT,LS MBR (MONONGAHELA FM)			U					FSPT	10
PA	321	/FISHPOT,LS MBR (MONONGAHELA FM)				9	SW	A		FSPT	06
WV	321	/FISHPOT,LS MBR (MONONGAHELA FM)								FSPT	14
MD	321	[FISHPOT,MBR (PITTSBURGH FM)]								FSPT	03
OH	321	[FISHPOT,MBR (PITTSBURGH FM)]								FSPT	07
PA	321	FISHPOT,MBR (PITTSBURGH FM)			U	4	SW	A		FSPT	12
WV	321	FISHPOT,MBR (PITTSBURGH FM)			U					FSPT	15
ME	347+	FISH RIVER LAKE,FM				910	NC	E	FRVL	05	
ME	351	FISH RIVER LAKE,FM								FRVL	06
UT	374	FISH SPRINGS,MBR (TRIPPE LS)				43	WC	E	FSPG	07	
TX	318	FISK,FM (ADMIRAL GP)				27	C	C	FISK	01	
CA	211	FISKE CREEK,FM				12000	NW	C	FKCK	01	
CA	122	FISS,FANGLOMERATE (TROPICO GP)			U	150	SC	C	FISS	01	
NH	354	FITCH,FM			U	210	C	A	FTCH	02	
VT	354	FITCH,FM								FTCH	03
CT	354	FITCH,FM (BOLTON GP)			U					FTCH	03
MA	340	FITCHBURG,GRANITE			U			NC	A	FCBG	01
NH	340	FITCHBURG,GRANITE			U					FCBG	04
UT	337	FITCHVILLE,FM			U	81	C	C	FCVL	03	
OK	361	FITE,LS			U	2	NE	A	FITE	01	
OK	347	FITTSTOWN,MBR (BOIS D'ARC LS)				23	SE	C	FTSN	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
AK 224	FITZ CREEK, STS (TUXEDNI GP)	U			330	C D		FZCK 01
OK 354	FITZHUGH, MBR (CLARITA FM)		LS			SE D		FZTG 01
MA 340	FITZWILLIAM, GRANITE (NEW HAMPSHIRE GP)	U						FZLM 03
NH 340	FITZWILLIAM, GRANITE (NEW HAMPSHIRE GP)	U				SW A		FZLM 04
VA 331	FIVEMILE, SH [MBR] (HINTON FM)							FVML 01
WV 331	FIVEMILE, SH MBR (HINTON FM)				19	SW A		FVML 02
TN 364	FIVE OAKS, LS (CLIFFIELD GP)							FVOK 01
VA 364	FIVE OAKS, LS (CLIFFIELD GP)				15	SW C		FVOK 03
TN 364	FIVE OAKS, LS MBR (CLIFFIELD FM)							FVOK 02
VA 364	FIVE OAKS, LS MBR (CLIFFIELD FM)							FVOK 05
VA 364	FIVE OAKS, LS MBR (LURICH FM)							FVOK 06
NE 317	FIVE POINT, LS (ADMIRE GP)				1	SE A		FVPN 03
KS 317	FIVE POINT, LS MBR (JANESVILLE SH)	U						FVPN 02
NE 317	FIVE POINT, LS MBR (JANESVILLE SH)	U						FVPN 04
TX 212	FIZZLE FLAT, LENTIL (TERLINGUA CLAY)		LS		15	SW C		FZLF 01
NM 357	FLAG HILL, MBR (FUSSELMAN DOL)							FLGH 01
TX 357	FLAG HILL, MBR (FUSSELMAN DOL)			WH	30	WC D		ELGH 02
SD 430	FLAG ROCK, GP		SCH		1500	WC C		FGRK 01
AZ 122	FLAG SPRING, TRACHYTE	U			76	NW A		FGSP 01
UT 124+	FLAGSTAFF, FM				300	EC A		FLGF 01
UT 125	FLAGSTAFF, FM							FLGF 03
UT 124+	FLAGSTAFF, LS	U						FLGF 05
UT 125	FLAGSTAFF, LS	U						FLGF 06
UT 124+	FLAGSTAFF, MBR (GREEN RIVER FM)	U						FLGF 02
UT 125	FLAGSTAFF, MBR (GREEN RIVER FM)	U						FLGF 04
WI 430	FLAMBEAU, QTZ				760	WC A		FLMB 01
NC 112	FLANNER BEACH, FM	U	CL, SD		11	EC D		FLBC 01
IL 323	FLANNIGAN, COAL MBR (BOND FM)				<1	SE C		FLNG 01
NJ 347	FLATBROOKVILLE, MBR (NEW SCOTLAND FM)	U	LS		6	NC D		FBKV 01
NY 347	FLATBROOKVILLE, MBR (NEW SCOTLAND FM)	U						FBKV 02
PA 347	FLATBROOKVILLE, MBR (NEW SCOTLAND FM)	U						FBKV 03
IL 323	FLAT CREEK, COAL MBR (BOND FM)				<1	C C		FLCK 05
TN 347	FLAT GAP, LS (LINDEN GP)				17	SW A		FLGP 01
TN 347	FLAT GAP, LS MBR (OLIVE HILL FM)	U						FLGP 02
ID 374	FLATHEAD, QTZ	U						FLTD 01
MT 374	FLATHEAD, QTZ	U			38	C A		FLTD 03
WY 374	FLATHEAD, QTZ	U						FLTD 05
ID 374	FLATHEAD, SS	U						FLTD 02
MT 374	FLATHEAD, SS	U						FLTD 04
WY 374	FLATHEAD, SS	U						FLTD 06

WY	374	FLATHEAD,SS MBR (DEPASS FM)										FLTD	07
CA	112	FLATIRON,ANDESITE				520	NW	A				FLRN	01
PA	341	FLATIRON,COQUINITE MBR (RICEVILLE FM)				<1	NW	C				FLRN	08
MI	344	FLAT ROCK,DOL MBR (LUCAS FM)				14	SE	A				FRCK	12
NC	370	FLAT SWAMP,MBR (CID FM)	U	VOL		1200		C				FSMP	01
AZ	123	FLATTOP,ANDESITE						SE				D	FLTP 04
NM	123	FLATTOP,ANDESITE											FLTP 05
NC	400	FLATTOP,SCHIST	U					NW				A	FLTP 03
VA	327	FLATTOP MOUNTAIN,SS						SW				A	FLPM 01
VA	327	FLATTOP MOUNTAIN,SS [MBR] (LEE FM)				15							FLPM 02
VA	327	FLATTOP MOUNTAIN,SS MBR (POCAHONTAS FM)	U										FLPM 03
WV	327	FLATTOP MOUNTAIN,SS MBR (POCAHONTAS FM)	U										FLPM 04
AK	112	FLAXMAN,FM	U	TL				NE				A	FLXM 01
MT	121+	FLAXVILLE,FM	U			30		NC				A	FLXV 02
ND	121+	FLAXVILLE,FM											FLXV 03
MT	122	FLAXVILLE,FM	U										FLXV 06
ND	122	FLAXVILLE,FM											FLXV 07
MT	121+	FLAXVILLE,GRAVEL	U										FLXV 09
MT	122	FLAXVILLE,GRAVEL	U										FLXV 10
TN	364	FLEANOR,FM		SH	RD	61		NE				C	FLNR 01
NM	324+	FLECHADO,FM	U	SS,SH		760		NC				D	FLCD 01
NM	327	FLECHADO,FM	U										FLCD 02
LA	122	FLEMING,FM											FLMG 02
TX	122	FLEMING,FM		CL,SD		80		EC				A	FLMG 09
MO	325	/FLEMING,FM (CABANISS GP)											FLMG 05
OK	325	/FLEMING,FM (CABANISS GP)											FLMG 07
KS	325	/FLEMING,FM (CHEROKEE GP)		SH		7		SE				B	FLMG 04
MO	325	/FLEMING,FM (CHEROKEE GP)											FLMG 06
TX	122	FLEMING,GP											FLMG 03
NM	312	FLETCHER,ANHYDRITE MBR (SALADO FM)	U			21		SE				C	FLCR 03
TX	312	FLETCHER,ANHYDRITE MBR (SALADO FM)	U										FLCR 04
NY	364	FLEURY,MBR (DAY POINT LS)											FLRY 01
VT	364	FLEURY,MBR (DAY POINT LS)				35		NW				C	FLRY 02
MO	325	FLINT HILL,SS [BED] (LITTLE OSAGE MBR OF FORT SCOTT LS)				3		C				C	FLHL 01
OH	324	/FLINT RIDGE,CLAY [BED] (POTTSVILLE FM)				2		SC				C	FRDG 05
KY	324	FLINT RIDGE,FLINT [BED] (BREATHITT FM)				1		EC				A	FRDG 04
OH	324	[FLINT RIDGE,MBR (ALLEGHENY FM)]											FRDG 11
OH	324	FLINT RIDGE,SH [MBR] (POTTSVILLE FM)				4		C				A	FRDG 08
AL	123	FLINT RIVER,FM	U		BK								FLRV 03
FL	123	FLINT RIVER,FM	U										FLRV 04

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
GA 123	FLINT RIVER,FM	U	CH		3	SW	A	FLRV 05
SC 123	FLINT RIVER,FM	U						FLRV 06
MT 217	FLOOD,MBR (BLACKLEAF FM)	U	SS		42	NC	B	FLOD 01
KS 317	FLORENA,SH MBR (BEATTIE LS)	U			4	NE	A	FLRN 06
NE 317	FLORENA,SH MBR (BEATTIE LS)	U						FLRN 07
VT 370	FLORENCE,DOL				300	WC	C	FLRC 07
KS 317	FLORENCE,MBR (BARNESTON LS)	U			14	EC	A	FLRC 04
NE 317	FLORENCE,MBR (BARNESTON LS)							FLRC 06
CO 112	FLORIDA,GRAVEL	U			15	SW	A	FLRD 01
NM 112	FLORIDA,GRAVEL							FLRD 02
NM 367	FLORIDA MOUNTAINS,FM (EL PASO GP)		LS		11	SW	E	FLDM 01
TX 367	FLORIDA MOUNTAINS,FM (EL PASO GP)							FLDM 02
UT 357+	FLORIDE,DOL	U			41	WC	C	FLRD 03
UT 361	FLORIDE,DOL	U						FLRD 04
CO 123	FLORISSANT,LAKE BEDS	U	VSED		15	C	A	FLRS 01
TN 124	FLOUR ISLAND,FM (WILCOX GP)	U	ST		60	WC	E	FLID 01
OR 124	FLOURNOY,FM		SS		920	SW	E	FLRN 09
AZ 374	FLOUR SACK,MBR (BRIGHT ANGEL SH)	U			30	NW	C	FASK 01
MT 211	FLOWEREE,MBR (MARIAS RIVER SH)	U			19	NC	C	FLWR 01
NE 317	FLOWERPOT,MBR (SALT FORK FM)							FLRP 05
TX 318	FLOWERPOT,MBR (SAN ANGELO FM)							FLRP 04
OK 317	FLOWERPOT,SH (EL RENO GP)	U						FLRP 02
KS 317	FLOWERPOT,SH (NIPPEWALLA GP)	U		VAR	46	SC	A	FLRP 01
TX 318	FLOWERPOT,SH (PEASE RIVER GP)	U						FLRP 03
WA 227+	FLOWERY TRAIL,GRANODIORITE	U				NE	E	FLTL 01
WA 231	FLOWERY TRAIL,GRANODIORITE	U						FLTL 02
AL 331	FLOYD,SH	U						FLYD 01
GA 331	FLOYD,SH	U			760	NW	A	FLYD 02
TN 331	FLOYD,SH	U						FLYD 03
NC 370	FLOYD CHURCH,MBR (MILLINGPORT FM)		ARG,STS		1800	C	E	FDCC 01
IN 338	FLOYDS KNOB,FM (BORDEN GP)	U	LS		5	SC	A	FDKB 01
IN 338	FLOYDS KNOB,MBR (EDWARDSVILLE FM)							FDKB 02
IN 338	FLOYDS KNOB,MBR (MULDRAUGH FM)							FDKB 04
OH 321	FLY,SS [MBR] (MONONGAHELA FM)					EC	C	FLY 03
AZ 430	FLYING W,FM				980	C	C	FLGW 01
CT 307	FLY POND,MBR (PUTNAM GNEISS)				180	EC	D	FLPD 05
CT 307	FLY POND,MBR (TATNIC HILL FM)	U						FLPD 06
TN 324	FODDERSTACK,SS (REDOAK MOUNTAIN GP)				7	EC	C	FDCK 04
TN 324	FODDERSTACK,SS MBR (REDOAK MOUNTAIN FM)							FDCK 08
LA 121	FOLEY,FM	U	SD,CL		760	WC	C	FOLY 01

TX	121	FOLEY,FM		U								FOLY	02
NM	101	FOLSOM VENT,BASALT										FLMV	01
NY	367	FONDA,MBR (TRIBES HILL LS)										FOND	01
MN	420	FOND DU LAC,FM (BAYFIELD GP)										FDLC	02
MN	420	FOND DU LAC,FM (KEWEENAWAN SUPERGROUP)				SS						FDLC	01
MO	323	FONTANA,MBR (CHERRYVALE FM)										FNTN	16
KS	323	FONTANA,MBR (CHERRYVALE SH)										FNTN	15
IA	323	FONTANA,SH MBR (CHERRYVALE FM)		U								FNTN	14
NE	323	FONTANA,SH MBR (CHERRYVALE FM)		U								FNTN	17
WY	124	FONTENELLE,TONGUE (GREEN RIVER FM)		U		SS,MS						FNNL	01
UT	121	FOOL CREEK,CGL										FLCK	02
KS	317	FORAKER,LS (COUNCIL GROVE GP)		U								FRKR	01
NE	317	FORAKER,LS (COUNCIL GROVE GP)		U								FRKR	02
OK	317	FORAKER,LS (COUNCIL GROVE GP)		U								FRKR	03
CA	211	FORBES,FM										FRBS	01
VT	364	FORBES HILL,CGL										FBHL	01
VT	364	FORBES HILL,CGL [MBR] (HORTONVILLE SLATE)										FBHL	02
CT	400	FORDHAM,GNEISS		U								FRDM	01
NY	400	FORDHAM,GNEISS		U								FRDM	04
CT	400	FORDHAM,GNEISS (NEW YORK CITY GP)										FRDM	02
NY	400	FORDHAM,GNEISS (NEW YORK CITY GP)										FRDM	05
AK	331+	FORD LAKE,SH		U								FDLK	01
AK	337	FORD LAKE,SH		U								FDLK	05
AK	341	FORD LAKE,SH		U								FDLK	03
MI	430	FORD RIVER,GRANITE										FDRV	01
IL	332	FORD STATION,LS MBR (CLORE FM)										FRDS	01
WV	341	FOREKNOBS,FM (CHEMUNG GP)										FRKB	05
MD	341	FOREKNOBS,FM (GREENLAND GAP GP)										FRKB	02
PA	341	FOREKNOBS,FM (GREENLAND GAP GP)										FRKB	13
VA	341	FOREKNOBS,FM (GREENLAND GAP GP)										FRKB	04
WV	341	FOREKNOBS,FM (GREENLAND GAP GP)										FRKB	06
CO	311	FORELLE,LS		U								FRLL	01
NE	311	FORELLE,LS		U								FRLL	04
WY	311	FORELLE,LS		U								FRLL	05
CO	311	FORELLE,LS MBR (GOOSE EGG FM)		U								FRLL	02
WY	311	FORELLE,LS MBR (GOOSE EGG FM)		U								FRLL	06
CO	311	FORELLE,LS MBR (LYKINS FM)										FRLL	03
CA	224	FOREMAN,FM		U		SL,SS						FRMN	04
MI	420	FOREST,AMYGDALOID (PORTAGE LAKE VOLCS)		U								FRST	05
AK	112	FOREST CREEK,FM										FRCK	01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VT 377	FORESTDALE, MARBLE	U			61	WC	A	FRDL 05
VT 377	FORESTDALE, MBR (MENDON FM)	U						FRDL 06
VT 377	FORESTDALE, MBR (UNDERHILL FM)							FRDL 04
MS 331	FOREST GROVE, FM		SS, SH		35	NE	A	FRGV 02
MS 123	FOREST HILL, FM				21	C	A	FRHL 02
AL 123	FOREST HILL, SAND (VICKSBURG GP)	U						FRHL 01
LA 123	FOREST HILL, SAND (VICKSBURG GP)							FRHL 06
MS 123	FOREST HILL, SAND (VICKSBURG GP)	U						FRHL 03
NV 123	FOREST HOME, IGNIMBRITE				120	EC	D	FRHM 01
NY 351	FORGE HOLLOW, DOL (BERTIE GP)				12	WC	C	FGHL 01
NY 351	FORGE HOLLOW, MBR (BERTIE FM)							FGHL 02
VA 400	FORK MOUNTAIN, FM		SCH			SC	E	FRKM 01
TN 324	FORK RIDGE, SS MBR (MINGO FM)	U			57	NE	A	FKRG 02
IA 364	FORRESTON, MBR (GRAND DETOUR FM)							FRSN 05
IL 364	FORRESTON, MBR (GRAND DETOUR FM)		LS, DOL		5	NC	C	FRSN 04
MO 364	FORRESTON, MBR (GRAND DETOUR FM)							FRSN 06
MS 122	FORT ADAMS, MBR (PASCAGOULA FM)	U	CL		72	SW	C	FADM 01
OH 361	FORT ANCIENT, MBR (WAYNESVILLE FM)		SED			SW	A	FRAC 01
NY 367	FORT ANN, FM (BEEKMANTOWN GP)					EC	C	FRAN 03
NY 367	FORT ANN, LS MBR (GREAT MEADOWS FM)							FRAN 01
NY 367	FORT ANN, MBR (TRIBES HILL LS)							FRAN 02
AZ 317	FORT APACHE, MBR (SUPAI FM)	U	LS		21	SE	A	FAPC 01
IL 361	FORT ATKINSON, LS (MAQUOKETA GP)	U						FRAK 04
IN 361	FORT ATKINSON, LS (MAQUOKETA GP)							FRAK 03
IA 361	FORT ATKINSON, LS MBR (MAQUOKETA SH)	U		YL	12	NE	A	FRAK 01
WI 361	FORT ATKINSON, LS MBR (MAQUOKETA SH)	U						FRAK 02
AZ 211	FORT BUCHANAN, FM (SONOITA GP)		SS, SH		580	SE	C	FRBC 01
NY 367	FORT CASSIN, FM (BEEKMANTOWN GP)							FRCS 03
VT 367	FORT CASSIN, FM (BEEKMANTOWN GP)		LS		46	WC	A	FRCS 04
CO 217	FORT COLLINS, MBR (MUDDY SS)				15	NC	D	FRCL 01
AZ 211	FORT CRITTENDEN, FM	U	SH, SS		680	SE	C	FRCD 02
AZ 211	FORT CRITTENDEN, FM (SONOITA GP)							FRCD 01
AZ 317	FORT DEFIANCE, MBR (DE CHELLY SS)				30	NE	D	DFDC 01
FL 121	FORT DENAUD, MBR (CALOOSAHATCHEE FM)				2	EC	C	FRDD 05
FL 121	FORT DENAUD, MBR (CALOOSAHATCHEE MARL)							FRDD 01
IA 220	FORT DODGE, GYPSUM				11	C	A	FDDG 01
ID 237	FORT HALL, FM (THAYNES GP)	U	LS		180	SE	A	FRHL 05
NM 112	FORT HANCOCK, FM (SANTA FE GP)							FHCK 03
TX 112	FORT HANCOCK, FM (SANTA FE GP)		CL, ST		110	WC	D	FHCK 02
CO 211	FORT HAYS, LS MBR (NIOBRARA FM)	U						FRHS 01

KS	211	FORT HAYS,LS MBR (NIOBRARA FM)	U		24	C	A	FRHS	02	
NE	211	FORT HAYS,LS MBR (NIOBRARA FM)	U					FRHS	03	
NM	211	FORT HAYS,LS MBR (NIOBRARA FM)	U					FRHS	04	
SD	211	FORT HAYS,LS MBR (NIOBRARA FM)	U					FRHS	05	
NY	351	FORT HILL,WATERLIME (BERTIE GP)			<1	WC	E	FRHL	07	
PA	344	FORT HUNTER,SS MBR (MAHANTANGO FM)			2	SC	C	FRHR	01	
AZ	122	FORTIFICATION,BASALT MBR (MUDDY CREEK FM)	U		150	NW	D	FRFC	01	
NV	122	FORTIFICATION,BASALT MBR (MUDDY CREEK FM)	U					FRFC	03	
NY	367	FORT JOHNSON,DOL			9	EC	C	FRJS	02	
NY	367	FORT JOHNSON,MBR (TRIBES HILL FM)						FRJS	01	
MT	125	FORT KIPP,LIGNITE BED (FORT UNION FM)			3	NE	E	FRKP	01	
TX	218	FORT LANCASTER,FM (WASHITA GP)			110	C	E	FRLC	03	
PA	341	FORT LITTLETON,FM (SUSQUEHANNA GP)		MS				FRLL	07	
MT	122	/FORT LOGAN,BEDS	U	SS,SH			SC	A	FRLL	07
MT	122	[FORT LOGAN,FM]	U	SED			C	A	FRLG	01
AZ	112	FORT LOWELL,FM	U	ST		90	SE	E	FRLG	02
GA	400	FORT MOUNTAIN,GNEISS					NW	C	FRLM	18
AL	337	FORT PAYNE,CHERT	U			49	NE	A	FRPN	02
GA	337	FORT PAYNE,CHERT	U						FRPN	04
KY	337	FORT PAYNE,CHERT	U						FRPN	06
TN	337	FORT PAYNE,CHERT	U						FRPN	09
VA	337	FORT PAYNE,CHERT	U						FRPN	11
IL	338	FORT PAYNE,CHERT							FRPN	14
IL	333+	FORT PAYNE,FM							FRPN	15
GA	337	FORT PAYNE,FM	U						FRPN	05
KY	337	FORT PAYNE,FM	U						FRPN	07
MS	337	FORT PAYNE,FM	U						FRPN	08
TN	337	FORT PAYNE,FM	U						FRPN	10
VA	337	FORT PAYNE,FM	U						FRPN	12
IL	338	FORT PAYNE,FM							FRPN	16
MT	125	FORT PECK,LIGNITE BED (FORT UNION FM)			3	NE	E	FPCK	01	
TX	364	FORT PENA,FM	U	LS		61	WC	A	FRPN	13
FL	217+	FORT PIERCE,FM	U	SED		680	EC	D	FRPC	01
FL	221	FORT PIERCE,FM	U						FRPC	02
FL	217+	FORT PIERCE,FM (MARQUESAS SUPERGROUP)							FRPC	03
FL	221	FORT PIERCE,FM (MARQUESAS SUPERGROUP)							FRPC	04
TN	124+	FORT PILLOW,SAND (WILCOX GP)	U		OR	50	WC	E	FRPL	01
TN	125	FORT PILLOW,SAND (WILCOX GP)	U						FRPL	07
NY	364	FORT PLAIN,MBR (CANAJOHARIE SH)				15	C	C	FRPL	03
FL	122	FORT PRESTON,FM		SD		6	NW	D	FRPR	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NE 122	FORT RANDALL,FM							FRDL 08
SD 122	FORT RANDALL,FM		STS,CL		37	SE	D	FRDL 02
AK 217	FORTRESS MOUNTAIN,FM	U	SH,SS		3000	NC	C	FRRM 04
MT 124	FORTRESS MOUNTAIN,MBR (SEPULCHER FM)	U	VOL		420	SC	E	FRRM 02
WY 124	FORTRESS MOUNTAIN,MBR (SEPULCHER FM)	U						FRRM 03
ND 211	FORT RICE,MBR (HELL CREEK FM)		SH		18	SC	E	FRRC 02
MN 440	FORT RIDGELY,GRANITE (MINNESOTA VALLEY GP)					SW	C	FRDG 09
KS 317	FORT RILEY,LS (CHASE GP)	U			3	NE	A	FRRL 02
NE 317	FORT RILEY,LS (CHASE GP)	U						FRRL 03
OK 317	FORT RILEY,LS (CHASE GP)	U						FRRL 05
OK 317	FORT RILEY,LS (OSCAR GP)	U						FRRL 08
KS 317	FORT RILEY,MBR (BARNESTON LS)							FRRL 07
NE 317	FORT RILEY,MBR (BARNESTON LS)	U						FRRL 04
OK 317	FORT RILEY,MBR (BARNESTON LS)	U						FRRL 06
OR 121	FORT ROCK,FM	U	VOL		21	SC	D	FRCK 03
CA 107	FORT SAGE,SS					NC	D	FRSG 01
IA 325	FORT SCOTT,LS (MARMATON GP)	U						FRSC 02
KS 325	FORT SCOTT,LS (MARMATON GP)	U			5	SE	A	FRSC 03
MO 325	FORT SCOTT,LS (MARMATON GP)	U						FRSC 04
OK 325	FORT SCOTT,LS (MARMATON GP)	U						FRSC 05
HI 112	FORT SHAFTER,GRAVEL				3	NC	A	FRSF 01
OK 371	FORT SILL,LS (ARBUCKLE GP)	U			110	SC	A	FRSL 06
TX 218	FORT TERRETT,FM (EDWARDS GP)		DOL		49	C	E	FRTR 03
FL 112	FORT THOMPSON,FM	U	MRL,LS		3	EC	A	FTMP 01
MO 344	FORTUNE,FM	U	SS,CH		3	SW	C	FRTN 01
MI 430	FORTUNE LAKES,SLATE (PAINT RIVER GP)	U			1200	WC	C	FRLK 05
WI 430	FORTUNE LAKES,SLATE (PAINT RIVER GP)							FRLK 10
CO 125	FORT UNION,FM	U						FRUN 01
MT 125+	FORT UNION,FM	U						FRUN 02
ND 125	FORT UNION,FM	U	SH		610	NW	A	FRUN 03
SD 125	FORT UNION,FM	U						FRUN 04
WY 125	FORT UNION,FM	U						FRUN 06
MT 211	FORT UNION,FM	U						FRUN 08
MT 125+	FORT UNION,GP							FRUN 13
ND 125	FORT UNION,GP							FRUN 09
MT 211	FORT UNION,GP							FRUN 14
KS 122	FORT WALLACE,ASH BED (ASH HOLLOW MBR OF OGALLALA FM)				1	WC	C	FWLC 01
TX 218	FORT WORTH,FM (WASHITA GP)				10	EC	A	FRWR 03
OK 218	FORT WORTH,LS (WASHITA GP)	U						FRWR 02
TX 218	FORT WORTH,LS (WASHITA GP)	U						FRWR 04



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ND	211	FOX HILLS,SS	U						FXHL 04
SD	211	FOX HILLS,SS	U						FXHL 03
WY	211	FOX HILLS,SS	U						FXHL 08
MT	211	FOX HILLS,SS (MONTANA GP)	U						FXHL 02
ME	351	FOXS CAMP,FM		SS		300	WC	D	FXCP 01
IL	371	FOX VALLEY,MBR (IRONTON SS)				8	NE	D	FXVL 01
NM	324	FRA CRISTOBAL,FM (MUD SPRINGS GP)		LS		26	WC	C	FCBL 01
NV	122	FRACTION,BRECCIA	U			230	C	A	FRCN 01
NV	122	FRACTION,TUFF	U						FRCN 02
IL	332	FRAILEYS,FM (GOLCONDA GP)				29	SE	C	FRLS 06
IL	332	FRAILEYS,FM (OKAW GP)							FRLS 05
IN	332	FRAILEYS,SH							FRLS 03
IL	332	FRAILEYS,SH (GOLCONDA GP)							FRLS 02
KY	332	FRAILEYS,SH MBR (GOLCONDA FM)							FRLS 04
PA	344	FRAME,SH MBR (MAHANTANGO FM)				100	SC	A	FRME 01
NH	347	FRANDESTOWN,MBR (LITTLETON FM)		GRNL		150	SC	E	FRCS 02
OK	323	FRANCIS,FM	U	SH		150	EC	A	FRCS 01
CA	124+	FRANCISCAN,FM	U	SED,VOL		910	WC	A	FRCC 01
CA	125	FRANCISCAN,FM	U						FRCC 03
CA	210	FRANCISCAN,FM	U						FRCC 05
CA	221	FRANCISCAN,FM	U						FRCC 07
IL	325	FRANCIS CREEK,SH MBR (CARBONDALE FM)				20	WC	A	FRCC 10
IL	371	FRANCONIA,FM							FRNC 08
MN	371	FRANCONIA,FM	U			30	SE	A	FRNC 10
IA	371	FRANCONIA,SS	U						FRNC 07
IL	371	FRANCONIA,SS	U						FRNC 18
MI	371	FRANCONIA,SS	U						FRNC 09
MN	371	FRANCONIA,SS	U						FRNC 17
WI	371	FRANCONIA,SS	U						FRNC 11
MI	371	FRANCONIA,SS MBR (MUNISING FM)							FRNC 14
NY	361	FRANKFORT,FM	U			150	C	A	FRKF 01
NY	361	FRANKFORT,SH	U						FRKF 02
NJ	400	FRANKLIN,FM			WH		NC	A	FRKL 06
PA	400	FRANKLIN,FM							FRKL 08
WA	124	FRANKLIN,FM (PUGET GP)		SS,SH		1100	NW	A	FRKL 01
NJ	400	FRANKLIN,LS	U						FRKL 07
PA	400	FRANKLIN,LS	U						FRKL 09
AK	122+	FRANKLIN BLUFFS,MBR (SAGAVANIRKTOK FM)	U	SED		900	NE	E	FKBF 01
AK	123	FRANKLIN BLUFFS,MBR (SAGAVANIRKTOK FM)	U						FKBF 02
CA	340	FRANKLIN CANYON,FM	U	MVOL			NC	E	FKLC 02

NM	400	FRANKLIN MOUNTAINS,RHYOLITE					SC	D	FKLM	01
OK	325	FRANKS,CGL				150	SE	A	FRKS	01
CO	311	FRANSON,MBR (PARK CITY FM)	U						FRNS	01
ID	311	FRANSON,MBR (PARK CITY FM)	U						FRNS	03
MT	311	FRANSON,MBR (PARK CITY FM)	U						FRNS	05
UT	311	FRANSON,MBR (PARK CITY FM)	U						FRNS	07
WY	311	FRANSON,MBR (PARK CITY FM)	U	LS		72	NC	C	FRNS	09
CO	311	FRANSON,TONGUE (PARK CITY FM)	U						FRNS	02
ID	311	FRANSON,TONGUE (PARK CITY FM)	U						FRNS	04
MT	311	FRANSON,TONGUE (PARK CITY FM)	U						FRNS	06
UT	311	FRANSON,TONGUE (PARK CITY FM)	U						FRNS	08
WY	311	FRANSON,TONGUE (PARK CITY FM)	U						FRNS	10
CA	112	FRAZIER MOUNTAIN,FM		CGL		140	SC	D	FRZM	01
AZ	104	FRAZIER WELL,GRAVEL				61	NW	C	FZWL	01
MI	420	FREDA,FM (ORONTO GP)	U			270	NW	A	FRED	03
WI	420	FREDA,FM (ORONTO GP)	U						FRED	04
MI	420	FREDA,SS (ORONTO GP)	U						FRED	01
WI	420	FREDA,SS (ORONTO GP)	U						FRED	02
MD	371	FREDERICK,LS	U			61	NC	A	FDCK	05
PA	371	FREDERICK,LS	U						FDCK	06
AR	218	FREDERICKSBURG,GP	U						FKBG	01
LA	218	FREDERICKSBURG,GP	U						FKBG	02
OK	218	FREDERICKSBURG,GP	U						FKBG	03
TX	218	FREDERICKSBURG,GP	U	LS				C	FKBG	04
VA	400	FREDERICKSBURG,GRANITE	U					EC	FKBG	06
AK	122	FREDERIKA,FM	U	SED		450	EC	E	FRDK	01
IL	333	FREDONIA,MBR (STE. GENEVIEVE LS)	U						FRDN	01
IN	333	FREDONIA,MBR (STE. GENEVIEVE LS)	U						FRDN	03
KY	333	FREDONIA,MBR (STE. GENEVIEVE LS)	U			46	SW	A	FRDN	05
MO	333	FREDONIA,MBR (STE. GENEVIEVE LS)	U						FRDN	07
TN	333	FREDONIA,MBR (STE. GENEVIEVE LS)	U						FRDN	09
MO	333	FREDONIA,OOLITE MBR (STE. GENEVIEVE LS)	U						FRDN	08
MN	430	FREEDHEM,TONALITE						C	FRDM	03
WI	430	FREEDOM,DOL	U			300	SC	A	FRDM	06
CA	122	FREEMAN,SILT	U			100	SC	C	FRMN	01
PA	324	/FREEPORT,FM (ALLEGHENY GP)	U			75	WC	A	FRPR	17
PA	324	FREEPORT,SS (ALLEGHENY GP)	U			28	WC	A	FRPR	18
MD	324	FREEPORT,SS MBR (ALLEGHENY FM)	U						FRPR	11
OH	324	FREEPORT,SS MBR (ALLEGHENY FM)	U						FRPR	15
PA	324	FREEPORT,SS MBR (ALLEGHENY FM)	U						FRPR	19

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WV 324	FREEPORT,SS MBR (ALLEGHENY FM)	U						FRPR 23
WY 237	FREEZEOUT,SH MBR (DINWOODY FM)			RD	34	SE	A	FRZT 02
WY 237	FREEZEOUT,SH MBR (GOOSE EGG FM)	U						FRZT 01
CO 361	FREMONT,DOL	U		VAR	91	C	A	FRMN 08
CO 361	FREMONT,FM							FRMN 09
CO 361	FREMONT,LS	U						FRMN 10
WY 400	FRENCH,SLATE (LIBBY CREEK GP)				600	SE	A	FRNC 15
PA 337	FRENCH CREEK,LS MBR (MEADVILLE SH)				1	NW	A	FCCK 11
IA 322	FRENCH CREEK,MBR (ROOT SH)							FCCK 04
KS 322	FRENCH CREEK,MBR (ROOT SH)	U			9	NE	A	FCCK 06
NE 322	FRENCH CREEK,MBR (ROOT SH)	U						FCCK 08
IA 322	FRENCH CREEK,SH (WABAUNSEE GP)							FCCK 03
KS 322	FRENCH CREEK,SH (WABAUNSEE GP)							FCCK 05
NE 322	FRENCH CREEK,SH (WABAUNSEE GP)							FCCK 07
NV 221	FRENCHIE CREEK,RHYOLITE (PONY TRAIL GP)	U			760	NC	D	FCCK 02
NV 123	FRENCHIE CREEK QUADRANGLE,VOLCS					NC	D	FCCK 01
IN 327	FRENCH LICK,COAL MBR (MANSFIELD FM)				<1	SC	C	FLCK 03
WA 122	FRENCHMAN SPRINGS,MBR (YAKIMA BASALT)	U			91	C	C	FSPG 02
MO 420	FRENCH MILLS,FELSITE (VAN EAST GP)					SE	D	FCML 01
NH 341+	FRENCH POND,GRANITE (NEW HAMPSHIRE GP)	U				C	A	FCPD 01
NH 344	FRENCH POND,GRANITE (NEW HAMPSHIRE GP)	U						FCPD 02
CA 220	FRENCH VALLEY,FM		QTZ		900	SE	D	FCVL 01
ME 350	FRENCHVILLE,FM	U	SS		340	NE	D	FCVL 04
OK 326	FRENSLEY,LS (DORNICK HILLS GP)			WH	3	SE	C	FRSL 04
OK 326	FRENSLEY,LS MBR (LAKE MURRAY FM)							FRSL 05
AK 341	FRESHWATER BAY,FM	U	VSED		1800	SE	D	FRRB 01
AZ 122	/FRESNAL,CGL				610	SC	D	FRSL 02
NM 322	[FRESNAL,FM]		LS,SS		160	SC	C	FRSL 07
NM 322	/FRESNAL,GP							FRSL 03
TX 101+	FRESNO,FM (BOFECILLOS GP)		VSED		210	WC	D	FRSN 01
TX 123	FRESNO,FM (BOFECILLOS GP)							FRSN 02
CA 217	FRESNO SPRINGS CANYON,SH				900	C	E	FSPC 01
CA 112	FRIANT,FM		SED		97	C	C	FRNT 01
CA 124	FRIARS,FM (LA JOLLA GP)	U	SS		35	SE	E	FRRS 01
MN 112	FRIDLEY,FM		SD,CL		110	SE	D	FRDL 01
IA 322	FRIEDRICH,MBR (ROOT SH)							FRDC 06
KS 322	FRIEDRICH,MBR (ROOT SH)	U			5	EC	A	FRDC 02
NE 322	FRIEDRICH,MBR (ROOT SH)	U						FRDC 05
IA 322	FRIEDRICH,SH (WABAUNSEE GP)							FRDC 01
KS 322	FRIEDRICH,SH (WABAUNSEE GP)							FRDC 03

NE	322	FRIEDRICH,SH (WABAUNSEE GP)								FRDC	04
IL	323	FRIENDSVILLE,COAL MBR (MATTOON FM)				1	SE	C		FDVL	03
MD	321	FRIENDSVILLE,SH [MBR] (CONEMAUGH FM)					NW	A		FDVL	02
TX	123	FRIO,CLAY	U			200	SC	A		FRIO	03
LA	123	FRIO,FM								FRIO	02
TX	123	FRIO,FM								FRIO	04
MO	323	FRISBIE,LS MBR (WYANDOTTE FM)								FRSB	03
IA	323	FRISBIE,MBR (WYANDOTTE LS)	U							FRSB	01
KS	323	FRISBIE,MBR (WYANDOTTE LS)	U			1	EC	A		FRSB	02
NE	323	FRISBIE,MBR (WYANDOTTE LS)	U							FRSB	04
OK	347	FRISCO,LS (HUNTON GP)	U			6	SC	A		FRSC	06
CA	112	FROG LAKE,TILL				12	NC	D		FGLK	01
AL	344+	FROG MOUNTAIN,SS	U			110	NE	A		FRGM	03
GA	344+	FROG MOUNTAIN,SS	U							FRGM	04
AL	347	FROG MOUNTAIN,SS	U							FRGM	05
GA	347	FROG MOUNTAIN,SS	U							FRGM	06
ME	347	FRONTENAC,FM	U	SL		910	CAN	D		FRNC	05
CO	211	FRONTIER,FM								FRNR	01
ID	211	FRONTIER,FM	U							FRNR	04
UT	211	FRONTIER,FM	U							FRNR	06
WY	211	FRONTIER,FM	U			610	SW	A		FRNR	11
MT	211	FRONTIER,FM (COLORADO GP)	U							FRNR	05
WY	211	FRONTIER,FM (COLORADO GP)								FRNR	08
WY	211	FRONTIER,SS	U							FRNR	09
CO	211	FRONTIER,SS MBR (MANCOS SH)	U							FRNR	03
UT	211	FRONTIER,SS MBR (MANCOS SH)	U							FRNR	07
NV	327	FROST CREEK,MBR (SCHOONOVER FM)		CL		200	NC	D		FRCK	10
NV	124	FROST CREEK,VOLCS								FRCK	04
AK	112	FROSTY PEAK,VOLCS	U							FRPK	01
KY	324	FROZEN,SS MBR (BREATHITT FM)	U			17	EC	D		FRZN	01
TN	324	FROZEN HEAD,SS (VOWELL MOUNTAIN GP)				11	NC	A		FZHD	02
TN	324	FROZEN HEAD,SS MBR (VOWELL MOUNTAIN FM)								FZHD	03
CO	211	FRUITLAND,FM	U							FRLD	01
NM	211	FRUITLAND,FM	U	SS,SH		89	NW	A		FRLD	02
NV	337	FRY CREEK,MBR (SCHOONOVER FM)		CH		140	NE	D		FRCK	11
AZ	112	FRYE MESA,MBR (GILA CGL)				210	SE	C		FRMS	01
IN	327	FULDA,BED (LEAD CREEK MBR OF MANSFIELD FM)				1	SW	C		FULD	03
IN	327	FULDA,LS MBR (MANSFIELD FM)								FULD	02
KS	112	FULLERTON,FM	U							FLRN	02
NE	112	FULLERTON,FM	U	ST,CL		18	EC	A		FLRN	05



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KS	112	FULLERTON, MBR (BLANCO FM)							FLRN 03
KS	112	FULLERTON, MBR (CHASE CHANNEL FM)							FLRN 04
KY	361	FULTON, SH	U						FLTN 05
OH	361	FULTON, SH	U			2	SW	A	FLTN 06
OH	321	/FULTON, SH MBR (MONONGAHELA FM)	U						FLTN 01
PA	321	/FULTON, SH MBR (MONONGAHELA FM)	U						FLTN 02
WV	321	/FULTON, SH MBR (MONONGAHELA FM)	U						FLTN 03
IL	333	FULTS, MBR (SALEM LS)				10	SW	C	FLTS 01
UT	121	FUMAROLE BUTTE, BASALT					WC	D	FMLB 01
CA	112+	FUNERAL, FM	U	CGL		910	EC	C	FNRL 01
NV	112+	FUNERAL, FM	U						FNRL 02
CA	121	FUNERAL, FM	U						FNRL 04
NV	121	FUNERAL, FM	U						FNRL 05
CA	211	FUNKS, FM		SH, STS		760	NW	C	FNKS 01
UT	211	FUNK VALLEY, FM (INDIANOLA GP)	U	SS, SH		690	C	C	FKVL 01
AK	377	FUNNEL CREEK, LS	U			400	NE	D	FLCK 08
KS	317	FUNSTON, LS (COUNCIL GROVE GP)	U			1	NE	A	FNSN 01
NE	317	FUNSTON, LS (COUNCIL GROVE GP)	U						FNSN 02
OK	317	FUNSTON, LS (COUNCIL GROVE GP)	U						FNSN 03
CA	300	FURNACE, FM				1800	SE	A	FRNC 01
CA	300	FURNACE, LS	U						FRNC 02
CA	121	FURNACE CREEK, FM	U	VSED		760	EC	C	FCCK 01
PA	400	FURNACE CREEK, QUARTZ DIORITE GNEISS					SE	C	FCCK 13
MO	371	FURNACE CREEK, VOLCS					EC	D	FCCK 12
PA	230	FURNACE RIDGE, CGL				910	SE	C	FCRG 01
NY	354	FURNACEVILLE, HEMATITE (CLINTON GP)				1	WC	A	FCVL 07
NY	354	FURNACEVILLE, HEMATITE MBR (REYNALES LS)							FCVL 08
MT	217	FUSON, FM	U						FUSN 10
MT	217	FUSON, FM (CLOVERLY GP)							FUSN 01
ND	217	FUSON, FM (DAKOTA GP)							FUSN 08
MT	217	FUSON, FM (INYAN KARA GP)							FUSN 09
SD	217	FUSON, FM (INYAN KARA GP)	U	SS, SH	VAR	30	SW	A	FUSN 03
WY	217	FUSON, FM (INYAN KARA GP)							FUSN 06
SD	217	FUSON, MBR (LAKOTA FM)	U						FUSN 04
NE	217	FUSON, SH	U						FUSN 07
NE	217	FUSON, SH (DAKOTA GP)							FUSN 02
SD	217	FUSON, SH (INYAN KARA GP)	U						FUSN 05
WY	217	FUSON, SH (INYAN KARA GP)							FUSN 11
NM	354+	FUSSELMAN, DOL	U						FSLM 02
TX	354+	FUSSELMAN, DOL	U			300	WC	A	FSLM 03

NM	357	FUSSELMAN,DOL		U						FSLM	04	
TX	357	FUSSELMAN,DOL		U						FSLM	05	
NY	351	FUYK,SS MBR (RONDOUT FM)					6	EC	C	FUYK	01	
NV	231	GABBS,FM		U	SH		130	WC	C	GBBS	01	
CA	300	GABILAN,LS		U					WC	C	GBLN	01
CA	210	GABILAN MESA,QUARTZ DIORITE							WC	C	GBLM	01
OR	210	GABLE CREEK,FM							C	E	GBCK	08
WA	300	GABRIEL PEAK,ORTHOgneiss							NC	D	GBPK	01
AZ	430	GADDES,BASALT (ASH CREEK GP)		U			740		C	C	GDDS	02
FL	124	GADSDEN,LS (OCALA GP)					59		NW	C	GDSO	01
FL	124	GADSDEN,MBR (CRYSTAL RIVER FM)									GDSO	02
NC	330	GAFFNEY,MARBLE		U							GFFN	02
SC	330	GAFFNEY,MARBLE		U					NC	C	GFFN	04
KS	317	GAGE,MBR (DOYLE SH)		U							GAGE	02
NE	317	GAGE,MBR (DOYLE SH)		U							GAGE	04
OH	112	GAHANNA,DRIFT						14	SE	C	GAGE	04
AK	224	GAIKEMA,SS (TUXEDNI GP)		U			240		C	C	GIKM	01
AK	224	GAIKEMA,SS MBR (KIALAGVIK FM)									GIKM	02
NY	367	GAILOR,DOL					46	EC	C	GGLR	01	
MO	367	GAINESVILLE,SS BED (BLACKJACK KNOB MBR OF THEODOSIA FM)					2	SC	C	GSVL	05	
AK	200	GAKONA,DIORITE							EC	D	GKON	02
AK	123	GAKONA,FM		U	SH,CGL		610	SE	C	GKON	01	
MT	111	GALATA,ASH					<1	NW	C	GALT	02	
WA	112	GALE,SAND							WC	A	GALE	01
NV	120+	GALE HILLS,FM		U	CST		65	SW	D	GLHL	01	
NV	210	GALE HILLS,FM		U							GLHL	02
IA	364	GALENA,DOL		U							GLEN	01
IL	364	GALENA,DOL		U			69	NW	C	GLEN	02	
WI	364	GALENA,DOL		U							GLEN	05
WI	364	GALENA,DOL (SINNIPEE GP)									GLEN	08
MN	364	GALENA,FM									GLEN	04
IA	364	GALENA,GP									GLEN	06
IL	364	GALENA,GP									GLEN	03
MO	364	GALENA,GP									GLEN	07
ID	210	GALENA POINT,GRANODIORITE									GLNP	02
WA	210	GALENA POINT,GRANODIORITE		U			910	NE	E	GLNP	01	
AZ	420	GALEROS,FM (CHUAR GP)					1300	NC	E	GLRS	04	
IA	323	GALESBURG,SH (KANSAS CITY GP)		U	SH						GLBG	01
KS	323	GALESBURG,SH (KANSAS CITY GP)		U			23	NE	C	GLBG	02	
MO	323	GALESBURG,SH (KANSAS CITY GP)		U							GLBG	03

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NE	323	GALESBURG,SH (KANSAS CITY GP)	U						GLBG 04
IA	371	GALESVILLE,MBR (DRESBACH SS)							GLVL 03
WI	371	GALESVILLE,MBR (WONEWOC FM)				26	SW	C	GLVL 09
IL	371	GALESVILLE,SS							GLVL 08
IN	371	GALESVILLE,SS							GLVL 07
MN	371	GALESVILLE,SS	U						GLVL 05
IA	371	GALESVILLE,SS (DRESBACH GP)	U						GLVL 10
MI	371	GALESVILLE,SS (DRESBACH GP)	U						GLVL 04
WI	371	GALESVILLE,SS (DRESBACH GP)	U						GLVL 06
CA	221	GALICE,FM	U						GLIC 01
OR	221	GALICE,FM	U	VSED		7500	SW	C	GLIC 02
NM	123+	GALISTEO,FM	U	SS		1200	NC	C	GLST 01
NM	124	GALISTEO,FM	U						GLST 02
AZ	324	GALIURO,LS				290	SE	A	GLUR 03
AZ	122	GALIURO,RHYOLITE					SE	A	GLUR 01
AZ	122	GALIURO,VOLCS	U						GLUR 02
ID	371	GALLATIN,FM	U						GLTN 01
WY	371	GALLATIN,FM	U						GLTN 04
MT	371	GALLATIN,GP	U			250	SE	A	GLTN 03
WY	371	GALLATIN,GP	U						GLTN 05
WY	367+	GALLATIN,LS	U						GLTN 07
ID	371	GALLATIN,LS	U						GLTN 02
WY	371	GALLATIN,LS	U						GLTN 06
CA	122	GALLAWAY,FM		SH		630	NW	C	GLLY 01
NM	211	GALLEGO,MBR (GALLUP SS)	U			28	WC	C	GLLG 01
AZ	211	GALLUP,SS (MESAVERDE GP)	U						GLLP 01
NM	211	GALLUP,SS (MESAVERDE GP)	U			76	NW	C	GLLP 02
IL	325	GALUM,LS MBR (CARBONDALE FM)				1	SC	C	GLUM 02
NC	111	GALVESTON,SAND				3	SE	C	GLVS 01
NY	371	GALWAY,FM		SS		38	EC	C	GLWY 01
AK	344	GAMBIER BAY,FM	U	SCH		1000	SE	D	GMBB 01
OR	111	[GAME HUT,OBSDIAN]						C	GMHT 02
OR	111	/GAME HUT,OBSDIAN FLOWS							GMHT 01
SD	400	GAME LODGE,GRANITE					SW	C	GMLG 01
NM	111	GAMERCO,FM	U	SS		2	NW	C	GMRC 01
OK	328	GAME REFUGE,FM (JACKFORK GP)		SH,SS		120	SE	C	GRFG 01
OK	328	GAME REFUGE,SS (JACKFORK GP)							GRFG 02
MT	211	/GAMMON,FERRUGINOUS MBR (CODY SH)	U						GMMN 01
WY	211	/GAMMON,FERRUGINOUS MBR (CODY SH)	U	MS		240	NE	A	GMMN 05
MT	211	/GAMMON,FERRUGINOUS MBR (PIERRE SH)	U						GMMN 08

WY	211	/GAMMON,FERRUGINOUS MBR (PIERRE SH)	U								GMMN	04
MT	211	[GAMMON,MBR (CODY SH)]									GMMN	09
WY	211	[GAMMON,MBR (CODY SH)]									GMMN	10
MT	211	[GAMMON,MBR (PIERRE SH)]									GMMN	10
NE	211	GAMMON,MBR (PIERRE SH)	U								GMMN	06
SD	211	GAMMON,MBR (PIERRE SH)	U								GMMN	03
WY	211	[GAMMON,MBR (PIERRE SH)]									GMMN	12
MT	211	GAMMON,SH (MONTANA GP)	U								GMMN	02
PA	344	GANDER RUN,SH MBR (MAHANTANGO FM)					260	SC	A		GDRR	01
ID	217	GANNETT,GP	U	CGL,LS			1000	SE	A		GNNT	01
WY	217	GANNETT,GP	U								GNNT	02
OK	322	GANO,SH (WABAUNSEE GP)						19	NE	C	GANO	01
NY	364	GANSEVOORT,MBR (CANAJOHARIE SH)							EC	C	GSVR	01
OK	323	GAP,SS MBR (TALLANT FM)	U					3	NE	A	GAP	01
AR	331	GAP RIDGE,SS MBR (MOYERS FM)						180	SW	C	GPRG	03
AR	331	GAP RIDGE,SS MBR (STANLEY SH)	U								GPRG	02
NM	110	/GAPS,FLOW (CLAYTON BASALT)							NE	C	GAPS	01
NM	110	[GAPS,MBR (CLAYTON BASALT)]									GAPS	04
TX	319+	GAPTANK,FM	U	LS,SH			550	WC	A		GPNK	01
TX	321	GAPTANK,FM	U								GPNK	02
TX	324	GAPTANK,FM	U								GPNK	03
CA	112	GARANON,MBR (SANTA ROSA ISLAND FM)		CL			8	SC	C		GRNN	01
OK	317	GARBER,SS	U		RD		180	NC	A		GRBR	01
TX	124	GARCENO,SS MBR (COOK MOUNTAIN FM)					150	SC	C		GRCN	01
NM	324	GARCIA,FM (ARMENDARIS GP)		LS			65	SW	C		GRCI	01
WA	111	GARDA,DRIFT	U						-C	D	GARD	01
ND	112	GARDAR,FM		ST,SD			24	NE	E		GRDR	12
NY	341	GARDEAU,FM (WEST FALLS GP)					76	WC	A		GRDU	01
PA	341	GARDEAU,FM (WEST FALLS GP)									GRDU	04
NY	341	GARDEAU,SH									GRDU	02
NY	341	GARDEAU,SH MBR (WEST FALLS FM)	U								GRDU	03
CA	112	GARDENA,SAND					140	SC	D		GRDN	01
ID	364+	GARDEN CITY,FM	U								GRDC	02
UT	364+	GARDEN CITY,FM	U				580	NC	A		GRDC	03
ID	367	GARDEN CITY,FM	U								GRDC	05
UT	367	GARDEN CITY,FM	U								GRDC	06
UT	364+	GARDEN CITY,LS									GRDC	04
UT	367	GARDEN CITY,LS									GRDC	07
ID	370	GARDEN CREEK,PHYLLITE	U						C	A	GDCK	09
CO	124	GARDEN GULCH,MBR (GREEN RIVER FM)	U	MRL			210	WC	A		GDGC	01

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT	124	GARDEN GULCH, MBR (GREEN RIVER FM)	U						GDGC 02
MI	347	GARDEN ISLAND, FM	U	DOL		5	C	C	GDID 07
NV	310	GARDEN VALLEY, FM	U	CGL		910	C	C	GDVL 03
MA	112	GARDINERS, CLAY							GRDR 01
NY	112	GARDINERS, CLAY	U			9	SE	A	GRDR 02
RI	112	GARDINERS, CLAY	U						GRDR 03
UT	337	GARDISON, LS	U			91	C	C	GRDS 03
AZ	231	GARDNER CANYON, FM	U	SS	RD	300	SE	E	GRDC 01
NV	227	GARDNERVILLE, FM		LS		1820	WC	D	GDVL 01
SD	430	GARFIELD, FM		QTZ		18	WC	A	GFLD 08
ID	331	GARFIELD, MBR (MULDOON FM)		LS			EC	C	GFLD 02
NH	227+	GARLAND PEAK, SYENITE (WHITE MOUNTAIN GP)					EC	C	GDPK 01
NH	231	GARLAND PEAK, SYENITE (WHITE MOUNTAIN GP)					EC	C	GDPK 02
UT	211	GARLEY CANYON, SS MBR (MANCOS SH)	U			43	EC	A	GRLC 03
CA	310	GARLOCK, FM	U	MET		6700	SC	C	GLCK 04
IA	364	GARNAVILLO, MBR (GUTTENBERG FM)							GRVL 20
IL	364	GARNAVILLO, MBR (GUTTENBERG FM)		LS		<1	NC	C	GRVL 11
MO	364	GARNAVILLO, MBR (GUTTENBERG FM)							GRVL 18
TX	324	GARNER, FM (LONE CAMP GP)		SH, SS		150	C	A	GRNR 21
TX	324	GARNER, FM (STRAWN GP)	U						GRNR 19
CA	121	GARNER MOUNTAIN, ANDESITE					NW	C	GRRM 01
AZ	374	GARNET CANYON, TONGUE (SANUP PLATEAU MBR OF MUAV LS)		DOL		4	NW	C	GRNC 08
MT	420	GARNET RANGE, FM (MISSOULA GP)	U			2300	WC	A	GRRG 01
MT	420	GARNET RANGE, QTZ (MISSOULA GP)	U						GRRG 02
CO	221	GARD, SS				120	C	C	GARO 01
KY	361	GARRARD, STS	U			40	C	A	GRRD 06
TX	123+	GARREN, GP		VOL		760	WC	C	GRRN 01
TX	124	GARREN, GP							GRRN 02
KY	333	GARRETT MILL, SS MBR (WARSAW FM)	U						GRML 05
TN	333	GARRETT MILL, SS MBR (WARSAW LS)	U			3	NC	A	GRML 06
NV	123	[GARRETT RANCH, IGNIMBRITE]					EC	C	GRRC 05
NV	123	/GARRETT RANCH, VOLC GP							GRRC 01
WA	347+	GARRISON, FM		SCH		120	NW	E	GRSN 23
WA	350	GARRISON, FM							GRSN 24
UT	231	GARTRA, GRIT MBR (ANKAREH FM)	U			27	NE	C	GRTR 02
CO	231	GARTRA, MBR (CHINLE FM)	U						GRTR 01
UT	231	GARTRA, MBR (CHINLE FM)							GRTR 03
CA	211	GARZAS, FM (ORESTIMBA GP)				910	C	C	GRZS 01
CA	211	GARZAS, SS (ORESTIMBA GP)							GRZS 02
OR	111	[GAS-LINE, BASALT]					C	E	GSLN 02

OR	111	/GAS-LINE, FLOWS									GSLN	01
MO	367	GASCONADE, DOL	U				99	C	A		GSCD	02
KS	367	GASCONADE, DOL (ARBUCKLE GP)	U								GSCD	01
OK	367	GASCONADE, DOL (ARBUCKLE GP)	U								GSCD	03
CA	211	GAS POINT, MBR (BUDDEN CANYON FM)			MS, SS		110	NW	D		GSPN	01
OH	354	GASPORT, FM (LOCKPORT GP)									GSPR	10
NY	354	GASPORT, LS (LOCKPORT GP)					6	WC	A		GSPR	05
NY	354	GASPORT, LS MBR (LOCKPORT DOL)	U								GSPR	06
AL	341	GASSAWAY, MBR (CHATTANOOGA SH)									GSSY	01
GA	341	GASSAWAY, MBR (CHATTANOOGA SH)									GSSY	04
KY	341	GASSAWAY, MBR (CHATTANOOGA SH)	U								GSSY	02
TN	341	GASSAWAY, MBR (CHATTANOOGA SH)	U			BK	4	C	C		GSSY	03
VT	377	GASSETTS, MBR (CAVENDISH FM)				WH			SE	A	GSTS	02
VT	377	GASSETTS, SCHIST									GSTS	01
AK	231	/GASTINEAU, VOLC GP	U				1520	SE	A		GSTN	01
AK	231	[GASTINEAU, VOLCS]									GSTN	02
AK	111+	GASTINEAU CHANNEL, FM	U	SED			26	EC	E		GSCD	01
AK	112	GASTINEAU CHANNEL, FM	U								GSCD	02
NV	357	GATECLIFF, FM		DOL			42	C	C		GCLF	01
NY	354	GATES, DOL (CLINTON GP)					6	WC	A		GTES	01
PA	371	GATESBURG, FM	U	DOL			550	C	A		GBRG	12
TX	218	GATESVILLE, FM (FREDERICKSBURG GP)		LS, CL			220	EC	A		GSVL	01
MT	420	GATEWAY, FM (MISSOULA GP)		ARG			600	NW	A		GTWY	05
CA	210	GATEWAY, GRANODIORITE							C	C	GTWY	01
AZ	374	GATEWAY CANYON, MBR (MUAV LS)		LS, ST			42	NC	C		GCNN	02
NM	112	GATUNA, FM	U	SS	RD		91	SE	C		GTUN	01
TX	112	GATUNA, FM	U								GTUN	02
CA	220	GAVILAN PEAK, GABBRO						SE	C		GVPK	01
CA	123+	GAVIOTA, FM		SS, ST			480	SC	A		GVOT	01
CA	124	GAVIOTA, FM									GVOT	02
AR	337	GAYLOR, SS	U				<1	NC	D		GYLR	01
NM	110	/GAYLORD MOUNTAIN, FLOW (CLAYTON BASALT)							NE	C	GLDM	02
NM	110	[GAYLORD MOUNTAIN, MBR (CLAYTON BASALT)]									GLDM	07
OH	321	[GAYSPORT, LS BED (CONEMAUGH FM)]					<1	EC	A		GSPR	11
OH	321	GAYSPORT, LS MBR (CONEMAUGH FM)									GSPR	03
CA	351+	GAZELLE, FM	U	CST			730	NW	C		GZLL	01
CA	354	GAZELLE, FM	U								GZLL	02
NV	374	GEDDES, LS	U				<1	EC	C		GDDS	01
NY	400	GEERS CORNERS, GABBRO							NC	C	GRCR	01
UT	377	GEERTSEN CANYON, QTZ (BRIGHAM GP)	U				1300	NC	E		GRSC	04

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ID 123+	GEERTSON,FM (CHALLIS GP)		SH,CGL		240	C C		GRSN 02
ID 124	GEERTSON,FM (CHALLIS GP)							GRSN 01
MO 364	GEISER QUARRY,MBR (DUTCHTOWN FM)		LS,SH		3	SE C		GRQR 02
CA 122+	GEM HILL,FM (TROPICO GP)	U	VOL		380	SC C		GMHL 01
CA 123	GEM HILL,FM (TROPICO GP)	U						GMHL 02
CO 370	GEM PARK,COMPLEX	U	IG			SC D		GMPK 01
AK 204±	GEMUK,FM	U	ST		7600	SW A		GMUK 01
AK 207	GEMUK,FM	U						GMUK 02
AK 301	GEMUK,FM	U						GMUK 03
ID 112	GEM VALLEY,VOLCS (GENTILE VALLEY GP)		BAS		24	SE D		GMVL 01
OK 328	GENE AUTRY,MBR (GOLF COURSE FM)				210	SC A		GNAR 02
OK 328	GENE AUTRY,SH							GNAR 01
NY 341+	GENESEEE,FM	U	SH	BK	38	WC A		GENS 02
PA 341+	GENESEEE,FM	U						GENS 04
NY 344	GENESEEE,FM	U						GENS 08
PA 344	GENESEEE,FM	U						GENS 10
NY 341+	GENESEEE,GP							GENS 03
NY 344	GENESEEE,GP							GENS 09
VA 341+	GENESEEE,SH							GENS 13
VA 344	GENESEEE,SH							GENS 14
NY 341+	GENESEEO,SH (GENESEEE GP)			BK	13	WC A		GNSO 01
NY 344	GENESEEO,SH (GENESEEE GP)							GNSO 03
NY 341+	GENESEEO,SH MBR (GENESEEE FM)	U						GNSO 02
NY 344	GENESEEO,SH MBR (GENESEEE FM)	U						GNSO 04
IN 344	GENEVA,DOL	U			12	EC A		GENV 05
IN 344	GENEVA,DOL (MUSCATATUCK GP)							GENV 01
IL 344	GENEVA,DOL MBR (GRAND TOWER LS)							GENV 03
IN 344	GENEVA,DOL MBR (JEFFERSONVILLE LS)							GENV 04
IN 344	GENEVA,LS	U						GENV 02
WI 367	GENOA,MBR (ONEOTA DOL)				14	SW A		GENO 01
MI 344	GENSHAW,FM (TRAVERSE GP)	U	LS		16	EC A		GNSH 01
ID 112	GENTILE VALLEY,GP		CGL			SW C		GLVL 02
IL 328	GENTRY,COAL MBR (CASEYVILLE FM)				<1	SE A		GNTR 01
NY 341	GENUNDEWA,LS (GENESEEE GP)				4	WC A		GNND 04
NY 341	GENUNDEWA,LS LENTIL (GENESEEO SH)							GNND 01
NY 341	GENUNDEWA,LS MBR (GENESEEE FM)	U						GNND 02
NY 341	GENUNDEWA,LS MBR (GENESEEO SH)	U						GNND 03
WY 121+	GEODE CREEK,BASALT				18	NW A		GDCK 02
WY 122	GEODE CREEK,BASALT							GDCK 03
MT 440	GEORGE LAKE,MARBLE (NORTH SNOWY GP)				6	SC E		GGLK 01

OK	326	GEORGES FORK,SS MBR (ATOKA FM)	U			11	EC	A	GGFK	01	
DC	307	GEORGETOWN,COMPLEX							GRGN	12	
MD	307	GEORGETOWN,COMPLEX		GAB,DRT.				C	D	GRGN	04
TX	218	GEORGETOWN,FM (ATASCOSA GP)				15	EC	A	GRGN	09	
TX	218	GEORGETOWN,FM (WASHITA GP)							GRGN	11	
AR	218	GEORGETOWN,LS (WASHITA GP)	U						GRGN	01	
TX	218	GEORGETOWN,LS (WASHITA GP)	U						GRGN	03	
VT	367	GEORGIA,SLATE	U			610	NW	C	GORG	01	
NE	122	GERING,FM (ARIKAREE GP)	U			61	WC	A	GRNG	02	
WY	122	GERING,FM (ARIKAREE GP)							GRNG	04	
NE	122	GERING,SS (ARIKAREE GP)	U						GRNG	03	
WY	122	GERING,SS (ARIKAREE GP)							GRNG	05	
NY	341	GERMANIA,FM (CHADAKOIN GP)							GRMN	01	
NY	341	GERMANIA,FM (CONNEAUT GP)							GRMN	02	
PA	341	GERMANIA,FM (CONNEAUT GP)							GRMN	05	
NY	341	GERMANIA,MBR (CHADAKOIN FM)				21	NC	A	GRMN	03	
CA	124+	GERMAN RANCHO,FM		ARK				NW	D	GMRC	02
CA	125	GERMAN RANCHO,FM								GMRC	03
NY	370	GERMANTOWN,FM		LS,SH		210	SE	D	GRMN	09	
ID	124	/GERMER,TUFFACEOUS MBR (CHALLIS VOLCS)	U			610	SC	A	GRMR	01	
ID	124	[GERMER,TUFF MBR (CHALLIS VOLCS)]							GRMR	03	
WA	123	GEROME,VOLCS	U			210	NE	A	GROM	01	
AZ	122	GERONIMO HEAD,FM		RHY		430	C	E	GMHD	01	
NV	311	GERSTER,FM (PARK CITY GP)	U						GRSR	01	
UT	311	GERSTER,FM (PARK CITY GP)	U			180	WC	A	GRSR	03	
UT	311	GERSTER,LS (PARK CITY GP)	U						GRSR	04	
OK	112	GERTY,SAND	U			11	EC	A	GRTY	02	
MN	112	GERVAIS,FM		CL,SD		12	NW	E	GRVS	03	
ND	112	GERVAIS,FM (COLEHARBOR GP)							GRVS	02	
MN	112	GERVAIS,MBR (COLEHARBOR FM)							GRVS	01	
TX	313	GETAWAY,LS MBR (CHERRY CANYON FM)	U			61	WC	A	GTWY	03	
AK	107	[GETMUNA,RHYOLITE]				460	C	A	GTMN	02	
AK	107	/GETMUNA,RHYOLITE GP	U						GTMN	01	
MD	231	GETTYSBURG,SH (NEWARK GP)	U						GBRG	03	
PA	231	GETTYSBURG,SH (NEWARK GP)	U			5500	SC	A	GBRG	04	
KS	317	GEUDA SPRINGS,SH MBR (WELLINGTON FM)				70	SE	A	GSPG	02	
MT	211	GEYSER,BENTONITE BED (COLORADO FM)				14	SW	A	GYSR	01	
UT	121	GEYSER CREEK,FANGLOMERATE	U			36	EC	D	GRCK	02	
AK	124+	GHOST ROCKS,FM	U	VSED		5000	SC	E	GRCK	03	
AK	125	GHOST ROCKS,FM	U						GRCK	04	



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MN	440	GIANTS RANGE, GRANITE	U				NE	A	GSRG 01
TX	324	GIBBONS, CGL LENTIL (MARBLE FALLS LS)				<1	C	C	GBNS 01
TX	324	GIBBONS, CGL MBR (BIG SALINE FM)							GBNS 02
NM	211	GIBSON, COAL MBR (CREVASSE CANYON FM)	U			53	NW	C	GBSN 01
NM	211	GIBSON, COAL MBR (MESAVARDE FM)							GBSN 02
TX	324	GIBSON, LS MBR (GRINDSTONE CREEK FM)					C	C	GBSN 03
ID	377	GIBSON JACK, FM	U	STS		300	SE	E	GBJK 01
VA	364	GIESLER, LS				53	SW	D	GSLR 01
AZ	112+	GILA, CGL	U			460	SE	C	GILA 01
AZ	121	GILA, CGL	U						GILA 04
AZ	112+	GILA, FM	U						GILA 02
NM	112+	GILA, FM							GILA 03
AZ	121	GILA, FM	U						GILA 05
NM	121	GILA, FM							GILA 06
IL	322	GILA, LS MBR (MATTOON FM)				<1	EC	C	GILA 08
NV	121	GILBERT, ANDESITE	U			300	C	C	GLBR 07
KY	361	GILBERT, [CLS] MBR (ASHLOCK FM)	U			6	C	C	GLBR 22
WV	324	GILBERT, SH [MBR] (KANAWHA FM)				40	SW	A	GLBR 10
WV	324	GILBERT, SS [MBR] (KANAWHA FM)				24	SW	A	GLBR 12
NY	341	GILBOA, FM	U	SS		76	EC	A	GLBO 01
NY	341	GILBOA, FM (GENESEE GP)							GLBO 02
OH	321	GILBOY, SS MBR (MONONGAHELA FM)	U						GLBY 01
PA	321	GILBOY, SS MBR (MONONGAHELA FM)							GLBY 02
WV	321	GILBOY, SS MBR (UNIONTOWN FM)	U			6	NC	C	GLBY 05
IL	324	GILCHRIST, SH [MBR] (CARBONDALE FM)				30	NW	A	GLCR 02
MA	347	GILE MOUNTAIN, FM	U						GLMN 12
NH	347	GILE MOUNTAIN, FM	U						GLMN 05
VT	347	GILE MOUNTAIN, FM	U			2000	C	C	GLMN 07
NH	347	GILE MOUNTAIN, SCHIST							GLMN 06
VT	347	GILE MOUNTAIN, SCHIST							GLMN 08
NH	227+	GILFORD, GABBRO (WHITE MOUNTAIN GP)					C	C	GLFD 05
NH	231	GILFORD, GABBRO (WHITE MOUNTAIN GP)							GLFD 06
TX	123+	GILL, BRECCIA (VIEJA GP)				91	WC	C	GILL 01
TX	124	GILL, BRECCIA (VIEJA GP)							GILL 02
NM	120	GILLESPIE, TUFF			PK	460	SW	D	GLSP 02
TX	313	GILLIAM, LS	U			790	WC	A	GLLM 01
NV	234	GILLIS, FM		VOL		1000	WC	E	GLLS 02
TX	110	GILLS, GRAVEL	U			8	WC	D	GLLS 01
VT	377	GILMAN, QTZ				910	CAN	C	GLMN 10
CO	337+	GILMAN, SS (CHAFFEE GP)	U			15	C	C	GLMN 03

CO	341	GILMAN,SS (CHAFFEE GP)	U									GLMN	11
NE	112	GILMAN CANYON,FM										GLMC	01
KS	112	GILMAN CANYON,FM (SANBORN GP)										GLMC	07
NE	112	GILMAN CANYON,LOESS										GLMC	02
NH	227+	GILMANTON,MONZODIORITE (WHITE MOUNTAIN GP)										GLMN	01
NH	231	GILMANTON,MONZODIORITE (WHITE MOUNTAIN GP)										GLMN	02
WV	317	GILMORE,LS (GREENE FM)										GLMR	04
OH	317	GILMORE,SS MBR (GREENE FM)										GLMR	02
PA	317	GILMORE,SS MBR (GREENE FM)	U									GLMR	03
WV	317	GILMORE,SS MBR (GREENE FM)	U									GLMR	05
KS	337	GILMORE CITY,LS	U									GLMC	06
IA	339	GILMORE CITY,LS	U									GLMC	04
NV	123	GILMORE GULCH,FM	U									GLMC	04
MD	307	GILPINS FALLS,MBR (JAMES RUN FM)	U									GLPF	01
UT	341	GILSON,DOL	U									GLSN	03
IL	325	GIMLET,SS MBR (MODESTO FM)	U									GMLT	01
SD	430	GINGRASS DRAW,SLATE	U									GGRD	01
ID	224	GIRAFFE CREEK,MBR (TWIN CREEK LS)	U									GFCK	02
UT	224	GIRAFFE CREEK,MBR (TWIN CREEK LS)	U									GFCK	03
WY	224	GIRAFFE CREEK,MBR (TWIN CREEK LS)	U									GFCK	04
PA	341	GIRARD,FM (CONNEAUT GP)										GRRD	02
NY	341	GIRARD,SH	U									GRRD	01
PA	341	GIRARD,SH	U									GRRD	03
IL	361	GIRARDEAU,LS	U									GRRD	04
MO	361	GIRARDEAU,LS	U									GRRD	05
AL	331	GIRKIN,FM	U									GRKN	01
GA	331	GIRKIN,FM										GRKN	05
KY	332	GIRKIN,FM	U									GRKN	03
AL	331	GIRKIN,LS										GRKN	02
KY	332	GIRKIN,LS										GRKN	04
AL	327	GIZZARD,FM										GZRD	07
GA	327	GIZZARD,FM	U									GZRD	01
TN	327	GIZZARD,FM (LEE GP)	U									GZRD	03
TN	327	GIZZARD,GP										GZRD	04
TN	327	GIZZARD,MBR (LEE FM)										GZRD	05
AK	111	GLACIER BAY,FM										GLCB	01
AK	111	GLACIER BAY,TILL										GLCB	02
WA	110	GLACIER PEAK,VOLCS										GCPK	01
FL	217	[GLADES,FM (MARQUESAS SUPERGROUP)]										GLDS	02
FL	217	/GLADES,GP (MARQUESAS SUPERGROUP)										GLDS	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
GA 400	GLADEVILLE,NORITE				7000	C	E	GLDV 08
KY 324	GLADEVILLE,SS	U						GLDV 09
VA 324	GLADEVILLE,SS	U		WH	30	SW	A	GLDV 06
KY 324	GLADEVILLE,SS [MBR] (BREATHITT FM)							GLDV 05
VA 331	GLADY FORK,SS MBR (BLUESTONE FM)	U						GDFK 03
WV 331	GLADY FORK,SS MBR (BLUESTONE FM)	U			12	SW	C	GDFK 05
AZ 217	GLANCE,CGL (BISBEE GP)	U			23	SE	A	GLNC 02
AZ 217	GLANCE,CGL MBR (BISBEE FM)							GLNC 20
NY 351	GLASCO,LS				3	SE	C	GLSC 01
NY 351	GLASCO,MBR (RONDOUT LS)	U						GLSC 02
IL 112	GLASFORD,FM		TL					GLFD 01
WI 112	GLASFORD,FM					NC	E	GLFD 02
OR 122	/GLASS BUTTES,SER				120	C	A	GLSB 01
OR 122	[GLASS BUTTES,VOLCS]							GLSB 02
CA 111	GLASS MOUNTAIN,RHYOLITE					NC	C	GLSM 01
CT 340	GLASTONBURY,FM					NC	C	GLBR 17
MA 340	GLASTONBURY,FM							GLBR 19
CT 340	GLASTONBURY,GNEISS	U						GLBR 18
MA 340	GLASTONBURY,GNEISS							GLBR 20
AZ 220	GLEESON,QUARTZ MONZONITE	U				SE	C	GLSN 01
CA 220+	GLEN ALPINE,GRANODIORITE					C	D	GLAP 01
CA 230	GLEN ALPINE,GRANODIORITE							GLAP 02
DE 307+	[GLENARM,GP]							GLRM 06
MD 307+	[GLENARM,GP]		MSED		>1000	NE	C	GLRM 07
PA 307+	[GLENARM,GP]							GLRM 09
DE 410	[GLENARM,GP]							GLRM 11
MD 410	[GLENARM,GP]							GLRM 12
PA 410	[GLENARM,GP]							GLRM 14
DE 307+	/GLENARM,SER	U						GLRM 01
MD 307+	/GLENARM,SER	U						GLRM 02
PA 307+	/GLENARM,SER	U						GLRM 04
DE 410	/GLENARM,SER	U						GLRM 16
MD 410	/GLENARM,SER	U						GLRM 17
PA 410	/GLENARM,SER	U						GLRM 19
NY 341	GLEN AUBREY,FM (SONYEA GP)		STS,SH		46	C	E	GLAB 01
IL 112	GLENBURN,TILL MBR (WEDRON FM)				6	EC	E	GLBR 02
IN 112	GLENBURN,TILL MBR (WEDRON FM)							GLBR 24
CO 217	GLENCAIRN,SH MBR (PURGATOIRE FM)	U			44	C	A	GLCR 01
AZ 220+	GLEN CANYON,GP	U						GLNC 03
CO 220+	GLEN CANYON,GP	U						GLNC 04

NM	220+	GLEN CANYON,GP	U							GLNC	06	
UT	220+	GLEN CANYON,GP	U	SS				SC	C	GLNC	07	
AZ	231	GLEN CANYON,GP	U							GLNC	09	
CO	231	GLEN CANYON,GP	U							GLNC	10	
NM	231	GLEN CANYON,GP	U							GLNC	12	
UT	231	GLEN CANYON,GP	U							GLNC	13	
CO	220+	GLEN CANYON,SS	U							GLNC	05	
UT	220+	GLEN CANYON,SS	U							GLNC	08	
CO	231	GLEN CANYON,SS	U							GLNC	11	
UT	231	GLEN CANYON,SS	U							GLNC	14	
IA	364	GLENCOE,MBR (SPECHTS FERRY FM)								GLNC	15	
IL	364	GLENCOE,MBR (SPECHTS FERRY FM)								GLNC	16	
MO	364	GLENCOE,MBR (SPECHTS FERRY FM)		LS,BNT			2	EC	D	GLNC	17	
WI	364	GLENCOE,MBR (SPECHTS FERRY FM)								GLNC	18	
CA	220	[GLEN CREEK,COMPLEX]						NW	E	GLCK	11	
CA	220	/GLEN CREEK,GABBRO-ULTRAMAFIC COMPLEX	U							GLCK	10	
NY	364	GLENDALE,MBR (DENLEY LS)		LS,SH			11	NC	C	GLDL	04	
NY	364	GLENDALE,MBR (DENMARK FM)								GLDL	02	
IL	332	GLEN DEAN,FM	U							GLND	48	
IN	332	GLEN DEAN,FM	U							GLND	46	
KY	332	GLEN DEAN,FM	U				52	C	C	GLND	22	
TN	332	GLEN DEAN,FM	U							GLND	26	
IL	332	GLEN DEAN,FM (OKAW GP)								GLND	15	
IN	332	GLEN DEAN,FM (STEPHENSPORT GP)								GLND	19	
IL	332	GLEN DEAN,LS	U							GLND	17	
KY	332	GLEN DEAN,LS	U							GLND	23	
MO	332	GLEN DEAN,LS								GLND	43	
TN	332	GLEN DEAN,LS	U							GLND	27	
IL	332	GLEN DEAN,LS (OKAW GP)								GLND	16	
IN	332	GLEN DEAN,LS (STEPHENSPORT GP)								GLND	21	
CO	311	GLENDON,SH MBR (GOOSE EGG FM)								GLND	10	
SD	311	GLENDON,SH MBR (GOOSE EGG FM)								GLND	12	
WY	311	GLENDON,SH MBR (GOOSE EGG FM)				RD	17	EC	C	GLND	13	
MS	123	GLENDON,FM (VICKSBURG GP)								GLND	47	
AL	123	GLENDON,LS (VICKSBURG GP)						6	SW	C	GLND	02
MS	123	GLENDON,LS (VICKSBURG GP)								GLND	06	
AL	123	GLENDON,LS MBR (BYRAM FM)	U							GLND	03	
FL	123	GLENDON,LS MBR (BYRAM FM)	U							GLND	05	
MS	123	GLENDON,LS MBR (BYRAM FM)	U							GLND	07	
MS	123	GLENDON,MBR (MARIANNA LS)								GLND	44	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	122	GLENDORA,VOLCS	U			910	SC	C	GLDR 03
CA	112+	GLEN ELLEN,FM	U	GVL,CGL		91	WC	C	GLEL 01
CA	121	GLEN ELLEN,FM	U						GLEL 02
NY	347	GENERIE,LS				9	SE	C	GLNR 06
NY	347	GENERIE,FM (TRISTATES GP)							GLNR 07
CO	324	GLEN EYRIE,FM		SS,SH		27	C	A	GLER 01
CO	324	GLEN EYRIE,SH MBR (FOUNTAIN FM)	U						GLER 02
IL	364	GLENHAVEN,MBR (GUTTENBERG FM)		DOL		<1	NC	C	GLNV 01
MO	364	GLENHAVEN,MBR (GUTTENBERG FM)							GLNV 03
IA	364	GLENHAVEN,MBR (GUTTENBERG LS)							GLNV 02
AL	307+	GLENLOCH,FM (HEARD GP)							GLLC 01
GA	307+	GLENLOCH,FM (HEARD GP)		SCH			WC	E	GLLC 02
AL	400	GLENLOCH,FM (HEARD GP)							GLLC 03
GA	400	GLENLOCH,FM (HEARD GP)							GLLC 04
TN	324	GLENMARY,SH (CROOKED FORK GP)				15	NC	C	GLMR 06
AK	217+	GLENN,SH	U			1500	NE	E	GLNN 01
AK	220	GLENN,SH	U						GLNN 02
AK	231	GLENN,SH	U						GLNN 03
AK	234	GLENN,SH	U						GLNN 04
MT	341	GLENN CREEK,SH MBR (JEFFERSON LS)				20	NW	A	GLCK 07
CO	311	GLENNON,LS MBR (LYKINS FM)				4	C	C	GLNN 05
ID	112+	GLENNS FERRY,FM (IDAHO GP)	U	SED		610	SW	D	GLFR 01
ID	121	GLENNS FERRY,FM (IDAHO GP)	U						GLFR 02
MO	341	GLEN PARK,LS (SULPHUR SPRINGS GP)				<1	EC	C	GLPK 05
MO	341	GLEN PARK,LS MBR (SULPHUR SPRINGS FM)	U						GLPK 06
VA	331	GLENRAY,LS MBR (BLUEFIELD FM)							GLNR 02
WV	331	GLENRAY,LS MBR (BLUEFIELD FM)				38	SC	A	GLNR 04
PA	324	GLEN RICHEY,FM (ALLEGHENY GP)		SS		13	WC	E	GLRC 01
KS	317	GLENROCK,MBR (RED EAGLE LS)	U						GLCK 05
NE	317	GLENROCK,MBR (RED EAGLE LS)	U			<1	SE	A	GLCK 06
TX	218	GLEN ROSE,FM (ATASCOSA GP)				160	EC	C	GLRS 07
TX	218	GLEN ROSE,FM (TRINITY GP)	U						GLRS 01
TX	218	GLEN ROSE,LS (TRINITY GP)	U						GLRS 02
TX	218	GLEN ROSE,LS MBR (SHINGLE HILLS FM)							GLRS 03
VT	364	GLENS FALLS,LS (CHAZY GP)							GLFL 03
NY	364	GLENS FALLS,LS (TRENTON GP)	U			5	EC	A	GLFL 01
VT	364	GLENS FALLS,LS (TRENTON GP)	U						GLFL 02
PA	321	GLENSHAW,FM (CONEMAUGH GP)	U			110	SW	D	GLNS 02
WV	321	GLENSHAW,FM (CONEMAUGH GP)							GLNS 03
IA	364	GLENWOOD,FM	U			5	NE	A	GLND 28

MI	364	GLENWOOD,FM	U						GLND	34
MN	364	GLENWOOD,FM	U						GLND	36
WI	364	GLENWOOD,FM	U						GLND	39
IL	364	GLENWOOD,FM (ANCELL GP)							GLND	31
IA	364	GLENWOOD,SH	U						GLND	29
MI	364	GLENWOOD,SH	U						GLND	35
WI	364	GLENWOOD,SH	U						GLND	40
IA	364	GLENWOOD,SH MBR (PLATTEVILLE FM)	U						GLND	30
WI	364	GLENWOOD,SH MBR (PLATTEVILLE FM)	U						GLND	41
MI	364	GLENWOOD,SH MBR (ST. PETER SS)	U						GLND	45
WI	364	GLENWOOD,SH MBR (ST. PETER SS)	U						GLND	42
HI	112	GLENWOOD,TUFF						RD		
CO	371	GLENWOOD CANYON,MBR (DOTSERO FM)	U	DOL,SH			3	SE	C	GLND 01
OK	317	GLORIETA,SS					28	WC	C	GLDC 01
NM	318	GLORIETA,SS	U				91	NC	C	GLRT 02
TX	318	GLORIETA,SS								GLRT 05
NM	318	GLORIETA,SS (SAN ANDRES GP)								GLRT 04
NM	318	GLORIETA,SS MBR (SAN ANDRES FM)								GLRT 03
AZ	211	GLORY HOLE,VOLCS	U				460	SE	D	GLHL 03
WA	217	GOAT,GABBRO (HORSESHOE BASIN GP)						NC	E	GOAT 01
TX	123	GOAT CANYON,FM		TRC			160	WC	E	GCNN 01
WA	217	GOAT CREEK,FM		ARK			1600	NC	E	GCRK 01
MT	420	GOATHAUNT,MBR (HELENA DOL)					980	NW	C	GTNT 01
MT	420	GOATHAUNT,MBR (HELENA FM)								GTNT 02
MA	340	GOAT HILL,DIORITE							C	E
CA	224	GOAT HILL,MBR (LOGTOWN RIDGE FM)	U	GNS					C	E
NY	354	GOAT ISLAND,DOL (LOCKPORT GP)					24	WC	C	GILD 03
OH	354	GOAT ISLAND,FM (LOCKPORT GP)								GILD 04
NY	354	GOAT ISLAND,MBR (LOCKPORT FM)								GILD 01
WA	200+	GOAT MOUNTAIN,PHYLLITE							C	D
WA	300	GOAT MOUNTAIN,PHYLLITE								GMNN 10
NM	313	GOAT SEEP,DOL	U							GTSP 01
TX	313	GOAT SEEP,DOL	U				370	WC	C	GTSP 03
NM	313	GOAT SEEP,LS	U							GTSP 02
TX	313	GOAT SEEP,LS	U							GTSP 04
NM	321+	GOBBLER,FM (MAGDALENA GP)		LS,SS			490	SC	C	GBLR 01
NM	324	GOBBLER,FM (MAGDALENA GP)								GBLR 02
NM	327	GOBBLER,FM (MAGDALENA GP)								GBLR 03
TX	212	GOBER,TONGUE (AUSTIN CHALK)	U				120	NE	A	GOBR 02
WA	124	GOBLE,MBR (COWLITZ FM)								GOBL 04

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OR	124	GOBLE,VOLCS	U			1500	NW	C	GOBL 01
WA	124	GOBLE,VOLCS	U						GOBL 03
OR	124	GOBLE,VOLCS MBR (COWLITZ FM)							GOBL 02
OK	331	GODDARD,FM (NOBLE RANCH GP)				610	SE	C	GDRD 10
OK	331	GODDARD,FM (SPRINGER GP)							GDRD 06
OK	331	GODDARD,SH (SPRINGER GP)	U						GDRD 07
OK	331	GODDARD,SH MBR (SPRINGER FM)							GDRD 08
CA	211	GODFREY,SH (ASUNCION GP)					SC	C	GDFR 01
NM	123	GODFREY HILLS,TRACHYTE (SIERRA BLANCA VOLCS)				550	C	E	GDFH 01
NV	122	GODS POCKET,DACITE	U			210	NE	C	GPCK 01
TX	324	GOEN,LS (STRAWN GP)				<1	C	A	GOEN 03
TX	324	GOEN,LS MBR (GRINDSTONE CREEK FM)							GOEN 01
TX	324	GOEN,LS MBR (MILLSAP LAKE FM)							GOEN 02
GA	331	GOLCONDA,FM	U						GLCD 01
IL	332	GOLCONDA,FM	U	SH,LS		91	SE	C	GLCD 13
KY	332	GOLCONDA,FM	U						GLCD 08
MO	332	GOLCONDA,FM	U						GLCD 11
TN	332	GOLCONDA,FM	U						GLCD 02
IN	332	GOLCONDA,FM (STEPHENSPORT GP)							GLCD 06
IL	332	GOLCONDA,GP							GLCD 03
KY	332	GOLCONDA,LS							GLCD 10
IN	332	GOLCONDA,LS (STEPHENSPORT GP)							GLCD 07
UT	111	GOLD BASIN,FM	U	TL			SE	C	GLDB 02
NV	221+	GOLD BUG,FM		VOL		370	WC	D	GDBG 01
NV	224	GOLD BUG,FM							GDBG 02
AZ	400	GOLD BUTTE,GRANITE							GLDB 06
NV	400	GOLD BUTTE,GRANITE					SE	C	GLDB 07
ID	374	GOLD CREEK,QTZ	U			120	NW	A	GDCK 10
CO	211	GOLDEN,MBR (DENVER FM)		ST,CL		18	NC	C	GLDN 02
CO	430	GOLDEN GATE CANYON,FM		GN		1400	NC	E	GDGC 03
CT	361+	GOLDEN HILL,SCHIST MBR (PROSPECT FM)					SW	E	GLDH 07
CT	364	GOLDEN HILL,SCHIST MBR (PROSPECT FM)							GLDH 09
WA	120	GOLDEN HORN,GRANODIORITE					NW	C	GLDH 01
AK	317	GOLDEN HORN,LS LENTIL (HASEN CREEK FM)	U			240	EC	E	GLDH 06
OK	325	GOLDENROD,SS MBR (SENORA FM)				11	NE	D	GLDD 01
MT	211	GOLDEN SPIKE,FM		CGL,VOL		1200	WC	D	GSPK 01
UT	124	GOLDENS RANCH,FM		VOL		>250	C	C	GDRC 01
MT	124+	GOLDEN VALLEY,FM	U						GLDV 01
ND	124+	GOLDEN VALLEY,FM	U	SD,SH			WC	C	GLDV 02
MT	125	GOLDEN VALLEY,FM	U						GLDV 03

ND	125	GOLDEN VALLEY,FM		U					GLDV	04	
NV	122	GOLD FLAT,MBR.(THIRSTY CANYON TUFF)		U			52	SC	D	GLDF 01	
ID	200	GOLD FORK,GRANODIORITE						SW	D	GDFK 01	
NV	370	GOLD HILL,FM		U	MET		1500	C	A	GLDH 11	
AK	112	GOLD HILL,LOESS		U			55	EC	E	GLDH 12	
MN	440	GOLD ISLAND,GRANITE						NE	E	GDI D 08	
WY	400	GOLDMAN MEADOWS,FM		U	QTZ,FE		58	WC	D	GDMM 01	
WA	200+	GOLD MOUNTAIN,PHYLLITE						NC	C	GLDM 04	
WA	300	GOLD MOUNTAIN,PHYLLITE							C	GLDM 05	
CA	200	[GOLD PARK,GABBRO]							SE	C	GDPK 05
CA	200	/GOLD PARK,GABBRO-DIORITE								C	GDPK 03
NV	231	GOLD RANGE,FM					300	WC	E	GDRG 01	
AZ	122	GOLD ROAD,LATITE		U			1200	WC	A	GDRD 04	
CA	107	GOLD RUN,SS						NC	D	GLDR 01	
AK	112	GOLDSTREAM,FM		U	LOS		15	EC	E	GLDM 06	
CA	124+	GOLER,FM		U	CGL,SS		2000	SC	C	GOLR 01	
CA	125	GOLER,FM		U						GOLR 02	
OK	328	GOLF COURSE,FM (DORNICK HILLS GP)					460	SE	C	GLFC 01	
TX	121	GOLIAD,FM					76	SE	A	GOLD 01	
TX	121	GOLIAD,SAND		U						GOLD 02	
MT	124	GOLMEYER CREEK,VOLCS (WASHBURN GP)		U			610	SW	E	GMCK 01	
ME	347	GONIC,FM		U						GONC 01	
NH	347	GONIC,FM		U	SCH,PHL			SE	A	GONC 02	
ME	347	GONIC,FM (SHAPLEIGH GP)								GONC 03	
TX	321	GONZALES,FM (GRAHAM GP)					5	C	C	GZLS 01	
TX	321	GONZALES,LS (CISCO GP)								GZLS 04	
TX	321	GONZALES,LS MBR (GRAHAM FM)		U						GZLS 02	
TX	321	GONZALES,SH (CADDO CREEK GP)								GZLS 03	
TX	321	GONZALES CREEK,SH (CISCO GP)					70	C	A	GZCK 07	
TX	321	GONZALES CREEK,SH MBR (GRAHAM FM)								GZCK 05	
TX	321	GONZALES CREEK,SH MBR (NORTH LEON LS)								GZCK 06	
TX	124	GOODBREAD,SS MBR (MANNING FM)					9	EC	C	GDBD 01	
TX	112	GOOD CREEK,FM					10	NC	D	GDCK 01	
MN	420	GOOD HARBOR BAY,ANDESITE (NORTH SHORE GP)					94	NE	E	GHHB 01	
CA	330	GOODHUE,FM					460	NC	D	GDHU 02	
LA	218	GOODLAND,FM (FREDERICKSBURG GP)								GDLD 03	
OK	218	GOODLAND,FM (FREDERICKSBURG GP)					6	SE	A	GDLD 05	
TX	218	GOODLAND,FM (FREDERICKSBURG GP)								GDLD 07	
AR	218	GOODLAND,LS (FREDERICKSBURG GP)		U						GDLD 02	
LA	218	GOODLAND,LS (FREDERICKSBURG GP)		U						GDLD 04	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 218	GOODLAND,LS (FREDERICKSBURG GP)	U						GDLD 06
TX 218	GOODLAND,LS (FREDERICKSBURG GP)	U						GDLD 08
MI 430	GOODRICH,QTZ (BARAGA GP)	U						GDRC 02
CA 344+	GOODSPRINGS,DOL	U			470	NW	A	GDPG 01
NV 344+	GOODSPRINGS,DOL	U			750	SE	A	GDPG 02
CA 350	GOODSPRINGS,DOL	U						GDPG 05
NV 350	GOODSPRINGS,DOL	U						GDPG 06
CA 360	GOODSPRINGS,DOL	U						GDPG 07
NV 360	GOODSPRINGS,DOL	U						GDPG 08
CA 371	GOODSPRINGS,DOL	U						GDPG 09
NV 371	GOODSPRINGS,DOL	U						GDPG 10
NV 367	GOODWIN,FM (MOUNT HAMILTON GP)	U			340	EC	C	GDWN 02
NV 367	GOODWIN,LS (POGONIP GP)	U						GDWN 03
AZ 120	GOODWIN CANYON,QUARTZ MONZONITE	U				SE	D	GDNC 01
AK 230	GOON DIP,GREENSTONE (KELP BAY GP)	U			>60	SE	D	GNDP 01
WY 121+	GOOSEBERRY,MBR (FOWKES FM)	U	CGL		61	SW	E	GSBR 02
WY 124	GOOSEBERRY,MBR (FOWKES FM)	U						GSBR 01
MN 420	GOOSEBERRY RIVER,BASALT (NORTH SHORE GP)	U			980	EC	E	GBRV 02
MT 400	GOOSE CREEK,GRANITE	U				SC	A	GCRK 03
CO 237+	GOOSE EGG,FM	U						GSEG 01
MT 237+	GOOSE EGG,FM	U						GSEG 07
WY 237+	GOOSE EGG,FM	U	SH,ST		120	C	C	GSEG 02
CO 311	GOOSE EGG,FM	U						GSEG 03
MT 311	GOOSE EGG,FM	U						GSEG 08
WY 311	GOOSE EGG,FM	U						GSEG 04
CO 317	GOOSE EGG,FM	U						GSEG 05
WY 317	GOOSE EGG,FM	U						GSEG 06
MI 430	GOOSE LAKE,MBR (SIAMO SLATE)	U	FE			NC	E	GSLK 01
UT 321	GOOSENECKS,MBR (HONAKER TRAIL FM)	U			160	SE	D	GSCK 02
CA 111	[GOOSENEST,BASALT]	U				NW	C	GSNS 02
CA 111	/GOOSENEST, FLOWS	U						GSNS 01
CA 221+	GOPHER RIDGE,VOLCS	U	TF,BRC		4600	C	D	GPRG 01
CA 224	GOPHER RIDGE,VOLCS	U						GPRG 04
MI 344	GORBUT,MBR (GRAVEL POINT FM)	U	LS,SH		3	EC	C	GRBT 01
AL 212	GORDO,FM (TUSCALOOSA GP)	U	SD,CL		28	WC	C	GORD 01
MS 212	GORDO,FM (TUSCALOOSA GP)	U						GORD 02
MT 374	GORDON,SH	U			84	WC	C	GRDN 03
MS 124	GORDON CREEK,SH MBR (COOK MOUNTAIN FM)	U			8	EC	C	GDCK 04
KY 364	GORDONVILLE,MBR (DUTCHTOWN FM)	U						GDVL 05
MO 364	GORDONVILLE,MBR (DUTCHTOWN FM)	U	DOL		15	SE	D	GDVL 06



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	341	GOWANDA,SH MBR (CANADAWAY FM)							GWND 02
NY	341	GOWANDA,SH MBR (PERRYSBURG FM)	U						GWND 03
IA	354	GOWER,DOL				37	EC	A	GOWR 01
TX	110	GOZAR,GRAVEL					NC	D	GOZR 01
ND	112	GRACE CITY,DRIFT				90	EC	D	GRCC 01
MI	420	[GRACE ISLAND,BASALT (PORTAGE LAKE VOLCS)]				15	NW	E	GCID 02
MI	420	/GRACE ISLAND,FLOW (PORTAGE LAKE VOLCS)	U						GCID 01
OK	311	GRACEMONT,SH [BED] (MARLOW MBR OF WHITEHORSE FM)			PK	<1	C	D	GRCM 02
CA	121	/GRACIOSA,COARSE-GRAINED MBR (CAREAGA SAND)	U	SS,CGL		130	SC	C	GRCS 03
CA	121	/GRACIOSA,COARSE-GRAINED MBR (CAREAGA SS)	U						GRCS 04
CA	121	LGRACIOSA,MBR (CAREAGA SAND)]							GRCS 01
CA	121	[GRACIOSA,MBR (CAREAGA SS)]							GRCS 02
TX	321	GRAFORD,FM (CANYON GP)	U	LS,SH		140	C	A	GRFD 01
TX	321	GRAFORD,GP							GRFD 02
NE	112	GRAFTON,FM				21	SE	D	GRFN 01
PA	321	/GRAFTON,FM							GRFN 05
NE	112	GRAFTON,LOESS							GRFN 02
PA	321	GRAFTON,MBR (CONEMAUGH FM)							GRFN 08
OH	321	GRAFTON,SS [MBR] (CONEMAUGH FM)							GRFN 07
PA	321	GRAFTON,SS [MBR] (CONEMAUGH FM)							GRFN 12
WV	321	GRAFTON,SS [MBR] (CONEMAUGH FM)				8	C	A	GRFN 09
CA	121	GRAGG,MBR (PISMO FM)	U	SS		150	SC	E	GRGG 01
TX	321	GRAHAM,FM (CISCO GP)	U	SH,LS		120	NC	A	GRHM 01
TX	321	GRAHAM,GP							GRHM 02
MS	121	GRAHAM FERRY,FM	U	CST		34	SE	C	GRMF 01
VT	377	GRAHAMVILLE,FM		SS,DOL		340	WC	C	GMVL 03
KY	337	GRAINGER,FM	U						GRGR 06
TN	337	GRAINGER,FM	U			200	NE	C	GRGR 10
VA	337	GRAINGER,FM	U						GRGR 12
AL	125	GRAMPAN HILLS,MBR (NANAFALIA FM)	U	CL,SD		34	WC	C	GMPH 01
CT	231	GRANBY,TUFF (NEWARK GP)	U						GRNB 01
MA	231	GRANBY,TUFF (NEWARK GP)	U		BK	150	WC	A	GRNB 02
KY	361	GRAND AVENUE,MBR (KOPE FM)							GDAV 02
OH	361	GRAND AVENUE,MBR (KOPE FM)		LS		3	SW	D	GDAV 01
LA	125	GRAND BAYOU,MBR (HALL SUMMIT FM)		SH		24	NW	C	GRDB 01
TX	125	GRAND BAYOU,MBR (HALL SUMMIT FM)							GRDB 02
AZ	420	GRAND CANYON,SUPERGROUP	U	MSED		3700	NC	C	GRDC 10
IA	364	GRAND DETOUR,FM (PLATTEVILLE GP)							GRDD 04
IL	364	GRAND DETOUR,FM (PLATTEVILLE GP)		DOL,LS		150	NC	C	GRDD 03
MO	364	GRAND DETOUR,FM (PLATTEVILLE GP)							GRDD 05



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MO	344	GRAND TOWER,LS	U						GRDT 02
ID	341	GRAND VIEW,DOL	U			380	C	A	GRDV 08
AZ	110	GRAND WASH,BASALT					NW	E	GRDW 01
UT	110	GRAND WASH,BASALT							GRDW 02
CO	211+	GRANEROS,MBR (MANCOS SH)	U			64	SC	C	GRRS 01
NM	211	GRANEROS,MBR (MANCOS SH)	U						GRRS 08
CO	217	GRANEROS,MBR (MANCOS SH)	U						GRRS 13
NM	211+	GRANEROS,SH	U						GRRS 39
NM	217	GRANEROS,SH	U						GRRS 40
SD	211+	GRANEROS,SH (BENTON GP)							GRRS 36
SD	217	GRANEROS,SH (BENTON GP)							GRRS 37
CO	211+	GRANEROS,SH (COLORADO GP)	U						GRRS 02
IA	211	GRANEROS,SH (COLORADO GP)							GRRS 03
KS	211	GRANEROS,SH (COLORADO GP)	U						GRRS 04
MN	211	GRANEROS,SH (COLORADO GP)							GRRS 43
MT	211+	GRANEROS,SH (COLORADO GP)							GRRS 05
ND	211+	GRANEROS,SH (COLORADO GP)	U						GRRS 06
NE	211	GRANEROS,SH (COLORADO GP)	U						GRRS 07
NM	211+	GRANEROS,SH (COLORADO GP)							GRRS 41
OK	211	GRANEROS,SH (COLORADO GP)	U						GRRS 09
SD	211+	GRANEROS,SH (COLORADO GP)	U						GRRS 10
WY	211+	GRANEROS,SH (COLORADO GP)	U						GRRS 12
CO	217	GRANEROS,SH (COLORADO GP)	U						GRRS 14
MT	217	GRANEROS,SH (COLORADO GP)							GRRS 17
ND	217	GRANEROS,SH (COLORADO GP)	U						GRRS 18
NM	217	GRANEROS,SH (COLORADO GP)							GRRS 42
SD	217	GRANEROS,SH (COLORADO GP)	U						GRRS 22
WY	217	GRANEROS,SH (COLORADO GP)	U						GRRS 24
KY	324	/GRANGER,SS				21	WC	C	GRGR 14
IL	325	/GRANGER,SS MBR (SPOON FM)							GRGR 15
OH	351	GRANGER ISLAND,MBR (TYMOCHTEE FM)		DOL		2	NW	E	GGID 01
KY	324	[GRANGERTOWN,SS]							GRGR 16
IL	325	[GRANGERTOWN,SS MBR (SPOON FM)]							GRGR 17
AK	112	GRANITE CANYON,FM				2	EC	E	GRNC 01
AK	112	GRANITE CANYON,TILL							GRNC 02
ID	210	GRANITE CREEK,GRANODIORITE	U				NW	A	GRCK 05
MN	440	/GRANITE FALLS,GARNETIFEROUS QUARTZ DIORITE GNEISS					SW	C	GRFL 05
WA	310+	GRANITE FALLS,LS					NW	C	GRFL 02
WA	321	GRANITE FALLS,LS							GRFL 03
MN	440	[GRANITE FALLS,QUARTZ DIORITE GNEISS]							GRFL 09

MN	112	/GRANITE FALLS,TILL				6	SW	E	GRFL	01	
SD	112	/GRANITE FALLS,TILL							GRFL	07	
NM	400	GRANITE GAP,GRANITE						SW	C	GRGP	01
AZ	125	GRANITE MOUNTAIN,PORPHYRY			U			SC	A	GRNM	03
MT	420	GRANITE PARK,MBR (HELENA DOL)				56	NW	A	GRPK	01	
MT	420	GRANITE PARK,MBR (HELENA FM)							GRPK	02	
MO	420	GRANITEVILLE,GRANITE (BEVOS GP)						SE	C	GRVL	15
KS	317	GRANT,SH (CHASE GP)				2		C	C	GRNT	02
KS	317	GRANT,SH MBR (WINFIELD LS)			U					GRNT	03
NE	317	GRANT,SH MBR (WINFIELD LS)			U					GRNT	05
KY	361	GRANT LAKE,LS			U	34	NE	D	GRLK	03	
OH	361	GRANT LAKE,LS			U					GRLK	05
KY	361	GRANT LAKE,MBR (ASHLOCK FM)			U					GRLK	04
RI	307+	GRANT MILLS,GRANODIORITE			U			NC	C	GRML	03
RI	361	GRANT MILLS,GRANODIORITE			U					GRML	01
NV	234	GRANTSVILLE,FM			U			C	C	GRVL	07
VT	377	GRANVILLE,FM						WC	C	GRVL	14
TX	318	GRAPE CREEK,FM (CLYDE GP)				46		C	A	GPCK	04
TX	318	GRAPE CREEK,LS MBR (CLYDE FM)			U					GPCK	05
WV	324	GRAPEVINE,SS [MBR] (KANAWHA FM)				12	SW	A	GRPV	02	
AZ	430	GRAPEVINE GULCH,FM (ASH CREEK GP)			U	3000		C	C	GPVG	01
UT	211	GRASS CREEK,MBR (FRONTIER FM)				310		NE	C	GRCK	07
TN	367	GRASSELLI,DOL [BED] (KINGSPORT FM)				2		NE	C	GRSL	02
UT	120	/GRASS VALLEY,FM				300		SW	C	GRVL	02
NV	231	GRASS VALLEY,FM (AULD LANG SYNE GP)			U	610		NC	C	GRVL	06
UT	211	/GRASS VALLEY,SH MBR (FRONTIER FM)						NE	D	GRVL	05
UT	211	GRASSY,MBR (BLACKHAWK FM)				34		EC	C	GRSS	01
NC	410	GRASSY BRANCH,FM (GREAT SMOKY GP)				300		WC	E	GRBC	01
IA	341	GRASSY CREEK,SH								GRCK	21
MO	341	GRASSY CREEK,SH (CHAMP CLARK GP)				9	NE	A	GRCK	28	
IL	341	GRASSY CREEK,SH (NEW ALBANY GP)								GRCK	23
MO	341	GRASSY CREEK,SH (SULPHUR SPRINGS GP)								GRCK	26
UT	347	GRASSY FLAT,MBR (WATER CANYON FM)				150		NE	D	GRFL	04
IL	347	GRASSY KNOB,CHERT				69		SC	C	GRKB	01
IN	347	GRASSY KNOB,CHERT								GRKB	03
OR	121+	GRASSY MOUNTAIN,BASALT			U	120		SE	A	GRSM	03
OR	122	GRASSY MOUNTAIN,BASALT			U					GRSM	05
OR	121+	GRASSY MOUNTAIN,FM (IDAHO GP)								GRSM	10
OR	122	GRASSY MOUNTAIN,FM (IDAHO GP)								GRSM	11
CA	100	GRASSY SWALE,LAVA						NW	C	GRSL	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NJ 231	GRATERS, MBR (BRUNSWICK FM)	U						GRRS 25
PA 231	GRATERS, MBR (BRUNSWICK FM)	U			76	SE	A	GRRS 27
MI 420	[GRATIOT, BASALT (PORTAGE LAKE VOLCS)]				260	NW	C	GRTT 02
MI 420	/GRATIOT, FLOW (PORTAGE LAKE VOLCS)	U						GRTT 01
TN 364	GRATTON, LS							GRTN 02
VA 364	GRATTON, LS				18	SW	C	GRTN 03
ID 122	/GRAVE CREEK, FLOW (COLUMBIA RIVER BASALT)				75	WC	D	GVCK 02
OR 122	/GRAVE CREEK, FLOW (COLUMBIA RIVER BASALT)							GVCK 03
ID 122	[GRAVE CREEK, MBR (COLUMBIA RIVER BASALT)]							GVCK 12
OR 122	[GRAVE CREEK, MBR (COLUMBIA RIVER BASALT)]							GVCK 13
AL 125	GRAVEL CREEK, SAND MBR (NANAFALIA FM)	U			14	WC	C	GVCK 04
CA 217+	GRAVELLY FLAT, FM	U	MS, SS		730	C	D	GVLF 01
CA 221	GRAVELLY FLAT, FM	U						GVLF 02
MI 344	GRAVEL POINT, FM				12	C	C	GVLP 01
MI 344	GRAVEL POINT, LS							GVLP 02
KY 112	GRAVES CREEK, FM		CL, SD		53	WC	A	GVCK 01
TN 324	GRAVES GAP, FM		SS		110	NE	C	GVGP 02
TN 324	GRAVES GAP, GP							GVGP 01
AK 221+	GRAVINA ISLAND, FM	U	VSED		1100	SE	E	GVID 02
AK 224	GRAVINA ISLAND, FM	U						GVID 03
OR 111+	/GRAYBACK, FLOWS				300	SW	C	GBCK 02
OR 112	/GRAYBACK, FLOWS							GBCK 04
CA 340	GRAYBACK, FM		ARG, CH			NW	A	GBCK 11
AZ 107+	GRAYBACK MOUNTAIN, RHYOLITE TUFF	U			150	WC	C	GBKM 01
AZ 211	GRAYBACK MOUNTAIN, RHYOLITE TUFF	U						GBKM 02
NM 313	GRAYBURG, FM (ARTESIA GP)	U	SS, DOL		140	SE	C	GRBG 01
TX 313	GRAYBURG, FM (ARTESIA GP)	U						GRBG 02
TX 313	GRAYBURG, FM (WHITEHORSE GP)	U						GRBG 03
UT 123	GRAY GULCH, FM		VSED			C	C	GGLC 01
OK 322	GRAYHORSE, LS (VANOSS GP)				<1	NE	C	GRRS 35
OK 322	GRAYHORSE, LS MBR (VANOSS FM)	U						GRRS 33
KS 322	GRAYHORSE, LS MBR (WOOD SIDING FM)	U						GRRS 29
NE 322	GRAYHORSE, LS MBR (WOOD SIDING FM)							GRRS 38
KS 322	GRAYHORSE, MBR (CANEVILLE LS)							GRRS 30
OR 227	GRAYLOCK, FM		STS	BK	150	EC	C	GLCK 03
NM 324	GRAY MESA, MBR (MADERA LS)	U			270	WC	C	GRMS 02
NV 344+	GRAYS CANYON, LS MBR (NEVADA FM)	U			91	EC	E	GRSC 06
NV 347	GRAYS CANYON, LS MBR (NEVADA FM)	U						GRSC 07
IL 110	GRAYSLAKE, PEAT				9	NE	E	GRLK 01
TX 213	GRAYSON, FM (WASHITA GP)	U			18	NE	C	GRSN 07

VA	400	GRAYSON,GRANODIORITE GNEISS	U			SW	C	GRSN	12
OK	213	GRAYSON,MARL (WASHITA GP)						GRSN	19
TX	213	GRAYSON,MARL (WASHITA GP)	U					GRSN	08
LA	213	GRAYSON,SH						GRSN	04
AR	213	GRAYSON,SH (WASHITA GP)						GRSN	03
TX	213	GRAYSON,SH (WASHITA GP)						GRSN	09
KY	327	GRAYSON,SS BED (LEE FM)				1	NE	E	GRSN 14
KY	327	GRAYSON,SS MBR (BREATHITT FM)							GRSN 10
PA	364	GRAZIER,FM (HATTER GP)		LS		10	SC	C	GRZR 01
PA	364	GRAZIER,MBR (HATTER FM)							GRZR 02
TN	331	GREASY COVE,FM	U	LS,SS		120	EC	C	GRCV 04
UT	331	GREAT BLUE,FM	U			1100	NC	A	GRBL 04
ID	331	GREAT BLUE,LS	U						GRBL 03
UT	331	GREAT BLUE,LS	U						GRBL 05
VA	112	GREAT BRIDGE,FM		SD,CL		17	SE	D	GBDG 01
MT	112	GREAT FALLS LAKE,SAND				76	NW	C	GFLK 01
CT	357	GREAT HILL,FM		MET				C	GRHL 09
NY	367	GREAT MEADOWS,FM		DOL		34	EC	C	GRMD 01
MA	350	GREAT MOOSE,MBR (GOSHEN FM)		SCH		30	WC	E	GRMS 05
AK	110+	GREAT SITKIN,VOLCS	U				SW	C	GRSK 01
AK	120	GREAT SITKIN,VOLCS	U						GRSK 02
GA	410	GREAT SMOKY,CGL (OCOEE SUPERGROUP)							GSMK 12
GA	410	GREAT SMOKY,FM (OCOEE SUPERGROUP)							GSMK 01
GA	410	GREAT SMOKY,GP (OCOEE SUPERGROUP)	U						GSMK 02
NC	410	GREAT SMOKY,GP (OCOEE SUPERGROUP)	U						GSMK 06
TN	410	GREAT SMOKY,GP (OCOEE SUPERGROUP)	U	MSED		1800	EC	C	GSMK 10
GA	410	GREAT SMOKY,QTZ (OCOEE SUPERGROUP)							GSMK 03
TN	410	GREAT SMOKY,QTZ (OCOEE SUPERGROUP)							GSMK 11
CA	124	GREDAL,MBR (LODO FM)			GN,RD	300	SC	C	GRDL 02
CA	124	GREDAL,SH MBR (KREYENHAGEN FM)	U						GRDL 01
OR	112	GREENBACK,MBR (WILLAMETTE SILT)					WC	E	GBCK 06
MD	331	GREENBRIER,FM	U						GRBR 03
PA	331	GREENBRIER,FM	U						GRBR 06
VA	331	GREENBRIER,FM	U						GRBR 09
WV	331	GREENBRIER,FM	U			220	SC	C	GRBR 11
WV	331	GREENBRIER,GP							GRBR 13
KY	331	GREENBRIER,LS	U						GRBR 02
MD	331	GREENBRIER,LS	U						GRBR 04
PA	331	GREENBRIER,LS							GRBR 07
VA	331	GREENBRIER,LS	U						GRBR 10



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WV	331	GREENBRIER,LS	U						GRBR 12
PA	331	GREENBRIER,LS MBR (MAUCH CHUNK FM)	U						GRBR 08
IL	325	GREENBUSH,COAL MBR (SPOON FM)				<1	NW C		GRBS 01
WA	121+	GREEN CANYON,BEDS (ELLENSBURG FM)		SED			C D		GRNC 03
WA	122	GREEN CANYON,BEDS (ELLENSBURG FM)							GRNC 04
NM	324+	GREEN CANYON,GP		LS			SW C		GRNC 06
NM	327	GREEN CANYON,GP							GRNC 07
ID	440	GREEN CREEK,COMPLEX		GN,SCH			SC D		GRCK 30
KY	364	GREENDALE,LENTIL (TANGLEWOOD MBR OF LEXINGTON LS)					EC A		GRDL 03
MD	317	GREENE,FM (DUNKARD GP)	U						GREN 01
OH	317	GREENE,FM (DUNKARD GP)	U						GREN 02
PA	317	GREENE,FM (DUNKARD GP)	U	SS,SH		240	SW C		GREN 03
WV	317	GREENE,FM (DUNKARD GP)	U						GREN 04
OH	351	GREENFIELD,DOL (BASS ISLANDS GP)	U			69	SW A		GFLD 04
MI	351	GREENFIELD,DOL (SALINA GP)							GFLD 09
OH	351	GREENFIELD,FM (BASS ISLANDS GP)							GFLD 05
OH	351	GREENFIELD,MBR (BASS ISLANDS DOL)							GFLD 06
AZ	430	GREEN GULCH,VOLCS (BIG BUG GP)	U				C C		GGLC 02
AL	331	GREEN HILL,MBR (PRIDE MOUNTAIN FM)	U	LS,SH		6	NW C		GRHL 07
MS	331	GREEN HILL,MBR (PRIDE MOUNTAIN FM)	U						GRHL 08
MT	211	/GREENHORN,BENTONITE BED (COLORADO FM)				1	SW C		GRNR 02
MT	211	/GREENHORN,CALCAREOUS MBR (CODY SH)	U						GRNR 05
SD	211	GREENHORN,FM (BENTON GP)							GRNR 21
MT	211	GREENHORN,FM (COLORADO GP)							GRNR 24
ND	211	GREENHORN,FM (COLORADO GP)	U						GRNR 09
SD	211	GREENHORN,FM (COLORADO GP)	U						GRNR 14
WY	211	GREENHORN,FM (COLORADO GP)	U						GRNR 28
NM	211	GREENHORN,LS	U						GRNR 26
SD	211	GREENHORN,LS (BENTON SH)							GRNR 22
CO	211	GREENHORN,LS (COLORADO GP)	U			110	SC A		GRNR 03
IA	211	GREENHORN,LS (COLORADO GP)							GRNR 29
KS	211	GREENHORN,LS (COLORADO GP)	U						GRNR 04
MT	211	GREENHORN,LS (COLORADO GP)	U						GRNR 06
ND	211	GREENHORN,LS (COLORADO GP)	U						GRNR 10
NE	211	GREENHORN,LS (COLORADO GP)	U						GRNR 11
NM	211	GREENHORN,LS (COLORADO GP)							GRNR 25
OK	211	GREENHORN,LS (COLORADO GP)	U						GRNR 20
SD	211	GREENHORN,LS (COLORADO GP)	U						GRNR 23
WY	211	GREENHORN,LS (COLORADO GP)	U						GRNR 16
NM	211	GREENHORN,LS MBR (BENTON SH)							GRNR 12



GEOL ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ND	211	GREGORY,MBR (PIERRE SH)	U						GRGR 02
NE	211	GREGORY,MBR (PIERRE SH)	U						GRGR 03
SD	211	GREGORY,MBR (PIERRE SH)	U			10	SC	C	GRGR 04
NJ	122	GRENLOCH,SAND MBR (KIRKWOOD FM)				15	WC	E	GRLC 01
OK	317	GRENOLA,FM (COUNCIL GROVE GP)							GRNL 05
KS	317	GRENOLA,LS (COUNCIL GROVE GP)	U			15	SE	A	GRNL 02
NE	317	GRENOLA,LS (COUNCIL GROVE GP)	U						GRNL 04
OK	317	GRENOLA,LS (COUNCIL GROVE GP)	U						GRNL 06
NY	400	GRENVILLE,COMPLEX	U	MSED			CAN	C	GRVL 24
NY	400	/GRENVILLE,SER							GRVL 16
OR	112	GRESHAM,FM	U	GVL,MD		11	NW	D	GRSM 01
MT	217	GREYBULL,SS MBR (CLOVERLY FM)	U						GRBL 01
WY	217	GREYBULL,SS MBR (CLOVERLY FM)	U			30	NC	A	GRBL 02
MA	364	GREYLOCK,SCHIST			GN	600	NW	C	GLCK 08
VT	364	GREYLOCK,SCHIST							GLCK 09
MT	420	GREYSON,SH (RAVALLI GP)	U			910	C	A	GRSN 13
CO	123	GRIBBLES PARK,TUFF	U	TF		91	C	E	GBPK 02
KY	364	GRIER,MBR (LEXINGTON LS)	U			41	C	D	GRIR 01
OR	123	GRIES RANCH,FM	U						GRRC 02
WA	123	GRIES RANCH,FM	U	SS,SH		32	SW	C	GRRC 03
OK	326	GRIFFIN,MBR (LAKE MURRAY FM)					SC	C	GRFN 16
OK	326	GRIFFIN,SS MBR (LAKE MURRAY FM)							GRFN 10
CA	210	/GRIFFITH,BEDS		SS,CGL		760	SC	C	GRFT 01
CA	210	[GRIFFITH,FM]							GRFT 02
CA	122	GRIFFITH CANYON,MBR (SANTA CRUZ ISLAND VOLCS)				370	SC	E	GRFC 01
NY	341	GRIMES,STS (WEST FALLS GP)				15	WC	C	GRMS 04
NY	341	GRIMES,STS MBR (WEST FALLS FM)	U						GRMS 03
CA	112	[GRIMES CANYON,MBR (SANTA BARBARA FM)]				300	SC	C	GRMC 02
CA	112	/GRIMES CANYON,SAND AND GRAVEL (SANTA BARBARA FM)							GRMC 01
NY	357	GRIMSBY,FM (MEDINA GP)				17	CAN	A	GRMB 03
NY	357	GRIMSBY,SS (ALBION GP)							GRMB 01
IL	326	GRINDSTAFF,SS MBR (ABBOTT FM)	U			18	SE	A	GRDF 03
KY	324	GRINDSTAFF,SS MBR (TRADEWATER FM)	U						GRDF 02
CA	221	GRINDSTONE,FM		CGL,SS		1600	NW	C	GRDS 02
TX	324	GRINDSTONE CREEK,FM (MILLSAP LAKE GP)		SH,SS		140	C	C	GDCK 07
TX	324	GRINDSTONE CREEK,FM (STRAWN GP)							GDCK 13
TX	324	GRINDSTONE CREEK,MBR (MILLSAP LAKE FM)							GDCK 08
AZ	125	GRINGO GULCH,VOLCS	U			610	SE	E	GGGC 01
PA	337	GRISWOLD GAP,MBR (POCONO FM)	U	CGL	WH	11	NE	A	GDGP 01
CA	350+	GRIZZLY,FM	U	SL,QTZ		300	NC	A	GRZL 01



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY	371	GROVE CREEK, MBR (BOYSEN FM)							GVCK 10
IL	112+	GROVER, GRAVEL	U						GRVR 01
MO	112+	GROVER, GRAVEL	U			9	EC	C	GRVR 16
IL	121	GROVER, GRAVEL	U						GRVR 14
MO	121	GROVER, GRAVEL	U						GRVR 02
IN	344	GROVER DITCH, MBR (DETROIT RIVER FM)		DOL		2	NE	E	GVDC 01
AK	122	GRUBSTAKE, FM	U	CL, SS		460	EC	E	GRBK 01
CA	221	GUADALUPE, COMPLEX		GAB, GR			C	D	GDLP 02
CA	221	GUADALUPE MOUNTAIN, QUARTZ DIORITE					C	C	GDPM 01
NM	112	GUAJE, PUMICE BED (OTOWI MBR OF BANDELIER TUFF)	U		WH	8	NC	D	GUJE 01
CA	211	GUALALA, FM		SS, SH		6100	NW	C	GULL 01
AK	112	GUBIK, FM	U	CST		46	NC	C	GUBK 01
NY	354	GUELPH, DOL (LOCKPORT GP)				49	CAN	A	GLPH 01
OH	354	GUELPH, DOL (LOCKPORT GP)							GLPH 02
MI	354	GUELPH, DOL (NIAGARA GP)							GLPH 04
PA	354	GUELPH, FM							GLPH 05
NE	330	GUERNSEY, FM							GRNS 04
WY	330+	GUERNSEY, FM	U	LS, QTZ		61	SE	A	GRNS 01
WY	340	GUERNSEY, FM	U						GRNS 02
TX	122+	GUEYDAN, ASH MBR (CATAHOULA FM)						SC	A
TX	123	GUEYDAN, ASH MBR (CATAHOULA FM)							GYDN 01
TX	122+	GUEYDAN, FM							GYDN 03
TX	123	GUEYDAN, FM							GYDN 02
TX	123	GUEYDAN, FM							GYDN 04
MD	350	GUILFORD, GRANITE						NC	C
MD	350	GUILFORD, QUARTZ MONZONITE							GLFD 03
NV	341+	GUILMETTE, FM	U						GLFD 09
UT	341+	GUILMETTE, FM	U	DOL, LS		370	WC	A	GLMT 01
NV	344	GUILMETTE, FM	U						GLMT 02
UT	344	GUILMETTE, FM	U						GLMT 03
UT	344	GUILMETTE, FM	U						GLMT 04
NV	341+	GUILMETTE, LS	U						GLMT 05
NV	344	GUILMETTE, LS	U						GLMT 06
CA	211	GUINDA, FM		SS		910	NC	C	GUND 01
MS	112	GULFPORT, FM		SD		9	SE	E	GLFP 01
AL	125	GULLETTE BLUFF, BEDS (NANAFALIA FM)		SD, MRL		51	WC	A	GLBF 01
KY	337	GUM SULPHUR, BED (NANCY MBR OF BORDEN FM)		STS		12	EC	C	GMSP 01
MN	430	GUNFLINT, IRON-FORMATION (ANIMIKIE GP)	U			300	NE	A	GNFL 01
UT	110	GUNLOCK, BASALT				9	SW	E	GLCK 01
IL	371	GUNN, MBR (MOUNT SIMON SS)				79	NE	C	GUNN 01
AK	123+	GUNNERS COVE, FM	U	VSED			SW	C	GRCV 01
AK	124	GUNNERS COVE, FM	U						GRCV 02

WA	310	GUNN PEAK,FM		MVOL	3000	NC	A	GNPK	01
MO	370	GUNPOWDER,GRANITE	U			NC	A	GPDR	01
ID	420	GUNSIGHT,FM (LEMHI GP)	U	QTZ	1800	EC	E	GNSG	04
TX	321	GUNSIGHT,LS (CISCO GP)			8	C	C	GNSG	03
TX	321	GUNSIGHT,LS (GRAHAM GP)						GNSG	01
TX	321	GUNSIGHT,LS MBR (GRAHAM FM)	U					GNSG	02
UT	224	GUNSIGHT BUTTE,MBR (ENTRADA SS)			150	SC	E	GSGB	01
CO	211	GUNSIGHT PASS,MBR (PIERRE SH)		SS,SH	54	NC	E	GS GP	01
AR	367	GUNTER,MBR (GASCONADE FM)						GNTR	02
IL	367	GUNTER,SS (PRAIRIE DU CHIEN GP)						GNTR	04
KS	367	GUNTER,SS MBR (GASCONADE DOL)						GNTR	10
MO	367	GUNTER,SS MBR (GASCONADE DOL)			9	C	C	GNTR	06
AR	367	GUNTER,SS MBR (VAN BUREN FM)	U					GNTR	03
KS	367	GUNTER,SS MBR (VAN BUREN FM)	U					GNTR	05
MO	367	GUNTER,SS MBR (VAN BUREN FM)	U					GNTR	07
OK	367	GUNTER,SS MBR (VAN BUREN FM)	U					GNTR	08
ND	361	GUNTON,MBR (STONY MOUNTAIN FM)		DOL	6	CAN	D	GNTN	02
PA	324	GURNEE,FM (POTTSVILLE GP)		SS,SH	60	NC	A	GURN	01
TX	318	GUTHRIE,DOL MBR (BLAINE FM)			5	NC	A	GRHR	02
TX	318	GUTHRIE,DOL MBR (DOG CREEK SH)		WH				GTHR	01
IN	333+	GUTHRIE CREEK,MBR (HARRODSBURG LS)			3	SC	A	GRCK	18
IN	338	GUTHRIE CREEK,MBR (HARRODSBURG LS)						GRCK	31
IA	364	GUTTENBERG,FM (GALENA GP)			5	NE	A	GBRG	05
IL	364	GUTTENBERG,FM (GALENA GP)						GBRG	07
MO	364	GUTTENBERG,FM (GALENA GP)						GBRG	13
IA	364	GUTTENBERG,LS MBR (DECORAH FM)	U					GBRG	06
IL	364	GUTTENBERG,LS MBR (DECORAH FM)	U					GBRG	08
WI	364	GUTTENBERG,LS MBR (DECORAH FM)	U					GBRG	11
MO	364	GUTTENBERG,MBR (DECORAH FM)						GBRG	14
WV	327	GUYANDOT,SS LENTIL (NEW RIVER FM)			30	SW	A	GNDT	01
WA	124	GUYE,FM	U	SH,SS	1500	C	C	GUYE	01
NY	351	GUYMARD,QTZ				SE	C	GMRD	01
AK	120+	GYP SUM CREEK,QUARTZ MONZONITE	U			SE	D	GPCK	02
AK	200	GYP SUM CREEK,QUARTZ MONZONITE	U					GPCK	03
AK	301	GYP SUM CREEK,QUARTZ MONZONITE	U					GPCK	07
MT	224	GYP SUM SPRING,FM	U					GPSP	01
SD	224	GYP SUM SPRING,FM	U					GPSP	02
WY	224	GYP SUM SPRING,FM	U	LS,SH	55	C	C	GPSP	03
ID	224	GYP SUM SPRING,MBR (TWIN CREEK LS)	U					GPSP	09
UT	224	GYP SUM SPRING,MBR (TWIN CREEK LS)	U					GPSP	07

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY 224	GYPSPUM SPRING, MBR (TWIN CREEK LS)	U						GPSP 06
WA 377	GYPSPY, QTZ	U			2600	NE	C	GYPS 01
AZ 331+	HACHITA, FM (ESCABROSA GP)	U	LS		120	SE	D	HCHT 01
NM 331+	HACHITA, FM (ESCABROSA GP)	U						HCHT 02
AZ 337	HACHITA, FM (ESCABROSA GP)	U						HCHT 03
NM 337	HACHITA, FM (ESCABROSA GP)	U						HCHT 04
LA 123	HACKBERRY, FM							HCKB 15
LA 123	HACKBERRY, [MBR] (FRIO FM)		SH, SS		1300	SW	E	HCKB 05
WV 331	[HACKETT, MBR (HINTON FM)]				88	SC	A	HCKT 04
WV 331	HACKETT, SH MBR (HINTON FM)							HCKT 02
WV 331	/HACKETT, SS MBR (HINTON FM)	U			23	SC	A	HCKT 03
AL 304	HACKNEYVILLE, SCHIST (WEDOWEE GP)						EC	E HCKV 02
CT 300	HADDAM, GRANITE GNEISS	U					C	C HDDM 01
CT 300	HADDAM, TONALITE							HDDM 02
IL 211	HADLEY, GRAVEL MBR (BAYLIS FM)				2	WC	D	HDLY 01
IL 112	HAEGER, TILL MBR (WEDRON FM)				4	NE	E	HEGR 01
TN 357	HAGAN, SH MBR (CLINCH SS)	U						HAGN 01
VA 357	HAGAN, SH MBR (CLINCH SS)	U			24	SW	C	HAGN 02
IL 112	HAGARSTOWN, MBR (GLASFORD FM)		TL		30		E	HGRS 02
MO 364	HAGER, FM (PLATTIN GP)		LS		20	SE	C	HGER 01
WI 420	HAGER, RHYOLITE PORPHYRY					NE	D	HGER 02
IA 367	HAGER CITY, MBR (ONEOTA DOL)							HGRC 03
MN 367	HAGER CITY, MBR (ONEOTA DOL)							HGRC 04
WI 367	HAGER CITY, MBR (ONEOTA DOL)							HGRC 01
KY 361	HAGGARD, LS [MBR] (CUMBERLAND FM)						WC	E HGRD 01
NY 400	HAGUE, GNEISS				11	SC	C	HGRD 01
IA 338	HAIGHT CREEK, MBR (BURLINGTON LS)		DOL		12	NE	C	HGUE 01
AZ 400	HAIGLER, FM		VOL		1600	SE	D	HGCK 10
HI 112	HAIKU, VOLCS (HONOLULU GP)	U			15	EC	C	HGLR 04
ID 324	HAILEY, CGL MBR (WOOD RIVER FM)	U			580	NC	C	HIKU 01
AZ 420	HAKATAI, SH (UNKAR GP)	U		RD	180	NC	A	HILI 02
NY 367	HALCYON LAKE, DOL (WAPPINGER GP)		SS, DOL		110	SE	C	HKTI 01
NY 367	HALCYON LAKE, FM	U						HCLK 02
AR 328+	HALE, FM	U	SS		80	NE	C	HCLK 01
MO 328	HALE, FM	U						HALE 01
OK 328	HALE, FM	U						HALE 02
AR 331	HALE, FM	U						HALE 03
NV 367+	HALES, LS	U			910	C	A	HALE 04
NV 371	HALES, LS	U						HLES 02
CA 211	HALF DOME, QUARTZ MONZONITE (TUOLUMNE GP)	U					C	HLES 01
							A	HFDM 01

PA	367	HALF-MOON HILL,MBR (AXEMANN LS)		LS,DOL	46	C	D	HFMH	01
NV	371	HALFPINT,MBR (NOPAH FM)	U	LS	220	SE	D	HLFP	01
UT	123	HALFWAY,MBR (DUCHESNE RIVER FM)		SS	170	EC	A	HLFY	01
WY	124	HALFWAY DRAW,TUFF MBR (WIND RIVER FM)	U		6	C	E	HLFD	01
AZ	317	HALGAITO,FM (CUTLER GP)							HLGT 02
UT	317	HALGAITO,FM (CUTLER GP)		SS,SH	RD	130	SE	A	HLGT 05
AZ	317	HALGAITO,MBR (CUTLER FM)	U						HLGT 03
UT	317	HALGAITO,MBR (CUTLER FM)	U						HLGT 06
AZ	317	HALGAITO,TONGUE (CUTLER FM)	U						HLGT 04
UT	317	HALGAITO,TONGUE (CUTLER FM)	U						HLGT 07
VT	371	HALIFAX,CHLORITE SCHIST				910	SC	A	HLFX 01
IL	323	HALL,LS MBR (MODESTO FM)				1	NC	C	HALL 02
CA	121	HALL,SH					WC	E	HALL 03
CA	112	HALL CANYON,FM		SD		760	SC	A	HLCN 01
UT	327	HALL CANYON,MBR (OQUIRRH FM)		LS		280	C	C	HLCN 02
AK	210+	HALL COVE,PERIDOTITE (DUKE ISLAND COMPLEX)				1500	SE	E	HLCV 01
AK	220	HALL COVE,PERIDOTITE (DUKE ISLAND COMPLEX)							HLCV 02
AK	317	HALLECK,FM	U	VSED		210	SE	D	HLCK 12
OK	322	HALLETT,FM (WABAUNSEE GP)				32	NE	C	HLLT 01
OK	322	HALLETT,SH (WABAUNSEE GP)							HLLT 02
NM	120+	HALL LAKE,MBR (MCRAE FM)		SH		510	SW	C	HLLK 01
NM	211	HALL LAKE,MBR (MCRAE FM)							HLLK 02
CA	400	HALLORAN,COMPLEX		MET			SE	C	HLRN 01
ME	200+	HALLOWELL,GRANITE					SW	D	HLLL 01
ME	300	HALLOWELL,GRANITE							HLLL 02
NY	364	HALLOWELL,LS MBR (COBOURG FM)				30	CAN	C	HLLL 03
ME	354	HALL QUARRY,GRANITE					SE	E	HLQR 01
OR	122	HALLS,DIORITE PORPHYRY					WC	C	HLLS 01
KY	337	HALLS GAP,MBR (BORDEN FM)	U	STS		30	C	D	HLGP 01
VT	347	HALL STREAM,MBR (GILE MOUNTAIN FM)		SS			NE	D	HLSM 05
TX	125	HALL SUMMIT,FM							HLSM 03
LA	125	HALL SUMMIT,FM (WILCOX GP)		SD,SH		91	NW	C	HLSM 02
HI	112	[HAMAKUA,BASALT]				200	SE	C	HMKU 03
HI	112	/HAMAKUA,VOLC SER	U						HMKU 01
CA	122	HAMBRE,SS (MONTEREY GP)	U			370	NC	A	HMBR 01
NV	371+	HAMBURG,DOL	U			370	EC	A	HMBG 05
NV	374	HAMBURG,DOL	U						HMBG 07
NV	371+	HAMBURG,LS	U						HMBG 06
NV	374	HAMBURG,LS	U						HMBG 08
WI	430	HAMBURG,SLATE				300	C	A	HMBG 09



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OH 324	HAMDEN,LS [BED] (ALLEGHENY FM)				2	SC	A	HMDN 02
CT 112	HAMDEN,TILL				6	C	D	HMDN 01
CA 122	HAMES,MBR (MONTEREY FM)	U	MS		2100	WC	E	HMES 01
NJ 344	HAMILTON,FM							HMLN 10
PA 344	HAMILTON,FM							HMLN 13
VA 344	HAMILTON,FM	U						HMLN 19
WV 344	HAMILTON,FM	U						HMLN 17
MD 344	HAMILTON,GP	U						HMLN 08
NY 344	HAMILTON,GP	U			210	WC	A	HMLN 11
PA 344	HAMILTON,GP	U						HMLN 14
NY 344	HAMILTON,SH							HMLN 12
PA 344	HAMILTON,SH	U						HMLN 15
NV 331	HAMILTON CANYON,FM							HMLC 01
AK 231	HAMILTON ISLAND,LS (HYD GP)	U	SH		510	EC	D	HMLC 01
CT 304+	HAMILTON RESERVOIR,FM (BRIMFIELD GP)	U			91	SE	D	HMLD 01
MA 304+	HAMILTON RESERVOIR,FM (BRIMFIELD GP)	U						HMRV 03
CT 307	HAMILTON RESERVOIR,FM (BRIMFIELD GP)	U	SCH,GN		9200	C	E	HMRV 01
MA 307	HAMILTON RESERVOIR,FM (BRIMFIELD GP)	U						HMRV 04
KS 317	HAMLIN,MBR (JANESVILLE SH)	U						HMRV 02
NE 317	HAMLIN,MBR (JANESVILLE SH)	U						HMLN 04
NE 317	HAMLIN,SH (ADMIRE GP)	U			14	SE	A	HMLN 20
KS 317	HAMLIN,SH (ADMIRE GP)							HMLN 05
NE 317	HAMLIN,SH (ADMIRE GP)							HMLN 06
WA 122	HAMMER BLUFF,FM	U	SD,CL		30	C	A	HMBF 01
NJ 231	HAMMER CREEK,FM (NEWARK GP)							HMCK 16
NY 231	HAMMER CREEK,FM (NEWARK GP)							HMCK 07
PA 231	HAMMER CREEK,FM (NEWARK GP)							HMCK 06
TX 218	HAMMETT,SH				2900	SE	D	HMCK 06
TX 218	HAMMETT,SH MBR (PEARSALL FM)				20	EC	C	HMMT 04
NV 310	HAMMOND CANYON,FM		LS		760	NE	D	HMDC 01
CT 231	HAMPDEN,BASALT (MERIDEN GP)							HMPD 08
CT 231	HAMPDEN,BASALT (NEWARK GP)	U						HMPD 04
MA 231	HAMPDEN,BASALT (NEWARK GP)	U				WC	A	HMPD 06
CT 231	HAMPDEN,LAVA MBR (MERIDEN FM)							HMPD 05
MA 231	HAMPDEN,LAVA MBR (MERIDEN FM)							HMPD 07
MD 341	HAMPSHIRE,FM	U						HMPR 04
PA 341	HAMPSHIRE,FM	U						HMPR 05
VA 341	HAMPSHIRE,FM	U						HMPR 06
WV 341	HAMPSHIRE,FM	U	SS		430	EC	A	HMPR 07
NE 337	HAMPTON,FM							HMPN 09
IA 339	HAMPTON,FM		LS			NC	A	HMPN 01

NC	377	HAMPTON,FM (CHILHOWEE GP)	U						HMPN	03	
TN	377	HAMPTON,FM (CHILHOWEE GP)	U			180	NE	A	HMPN	05	
VA	377	HAMPTON,FM (CHILHOWEE GP)	U						HMPN	07	
NC	377	HAMPTON,SH (CHILHOWEE GP)	U						HMPN	04	
TN	377	HAMPTON,SH (CHILHOWEE GP)	U						HMPN	06	
VA	377	HAMPTON,SH (CHILHOWEE GP)	U						HMPN	08	
WY	211	HAMS FORK,CGL MBR (EVANSTON FM)	U			140	SW	E	HMFK	01	
HI	111+	[HANA,GP]						EC	C	HANA	03
HI	112	[HANA,GP]								HANA	04
HI	111+	/HANA,VOLC SER	U							HANA	01
HI	112	/HANA,VOLC SER	U							HANA	02
NV	341	HANAUER,FM								HNUR	02
UT	341	HANAUER,FM	U	DOL		150	NW	D	HNUR	01	
CA	400	HANAUPAH,FM (TELESCOPE GP)		SL		460	EC	A	HNPH	01	
HI	112	[HANAWI,ANDESITE (HANA GP)]	U			30	EC	C	HNWI	02	
HI	112	/HANAWI,BASALTIC ANDESITE (HANA GP)	U							HNWI	01
KY	324+	HANCE,FM (BREATHITT GP)	U	SH		180	SE	A	HNCE	10	
TN	324+	HANCE,FM (BREATHITT GP)	U							HNCE	07
VA	324+	HANCE,FM (BREATHITT GP)	U							HNCE	06
KY	327	HANCE,FM (BREATHITT GP)	U							HNCE	01
TN	327	HANCE,FM (BREATHITT GP)	U							HNCE	08
VA	327	HANCE,FM (BREATHITT GP)	U							HNCE	05
PA	324+	HANCE,FM (POTTSVILLE GP)								HNCE	03
PA	327	HANCE,FM (POTTSVILLE GP)								HNCE	12
KY	324+	HANCE,MBR (BREATHITT FM)								HNCE	11
TN	324+	HANCE,MBR (BREATHITT FM)	U							HNCE	09
KY	327	HANCE,MBR (BREATHITT FM)								HNCE	02
TN	327	HANCE,MBR (BREATHITT FM)	U							HNCE	04
MI	420	HANCOCK,CGL [BED] (PORTAGE LAKE VOLCS)	U					NW	A	HCCK	13
KY	351	HANCOCK,DOL	U							HCCK	08
TN	351	HANCOCK,DOL	U			140	NE	A	HCCK	15	
VA	351	HANCOCK,DOL	U							HCCK	10
VA	351	/HANCOCK,DOL (CAYUGA GP)								HCCK	18
TN	351	HANCOCK,LS	U							HCCK	09
VA	351	HANCOCK,LS	U							HCCK	11
VT	377	HANCOCK,MBR (PINNEY HOLLOW FM)		SCH		150	WC	C	HCCK	12	
IL	332	HANEY,FM (OKAW GP)				4	SE	C	HNEY	05	
KY	332	HANEY,LS								HNEY	03
IL	332	HANEY,LS (GOLCONDA GP)								HNEY	01
IL	332	HANEY,LS MBR (GOLCONDA FM)	U							HNEY	06

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IN	332	HANEY,LS MBR (GOLCONDA FM)							HNEY 02
KY	332	HANEY,LS MBR (GOLCONDA FM)	U						HNEY 04
PA	341	HANLEY,SS [MBR] (CATTARAUGUS FM)				4	NW	C	HNLY 03
WY	125	HANNA,FM	U	SH,SS		2100	SC	A	HANN 01
NY	347	HANNACROIX,MBR (KALKBERG FM)		LS		10	EC	D	HCRX 01
CA	122	HANNAH,FM		SH		660	SC	C	HNNH 01
WA	123	HANNEGAN,VOLCS					NC	C	HNGN 01
IA	339	HANNIBAL,GP							HNBL 01
IL	339	HANNIBAL,GP							HNBL 04
IN	339	HANNIBAL,MBR (NEW ALBANY SH)							HNBL 10
IA	339	HANNIBAL,SH	U						HNBL 02
IL	339	HANNIBAL,SH	U						HNBL 11
MO	339	HANNIBAL,SH	U			30	NC	A	HNBL 08
IL	339	HANNIBAL,SH (NEW ALBANY GP)							HNBL 05
TX	124	HANNOLD HILL,FM (TORNILLO GP)		CL		250	SW	D	HLDH 01
NM	107+	HANOVER,GRANODIORITE PORPHYRY					SW	C	HNVR 02
NM	211	HANOVER,GRANODIORITE PORPHYRY							HNVR 04
IL	325	HANOVER,LS MBR (CARBONDALE FM)				1	WC	C	HNVR 06
AL	304+	HANOVER,SCHIST (HATCHET CREEK GP)					EC	E	HNVR 12
AL	307	HANOVER,SCHIST (HATCHET CREEK GP)							HNVR 13
NY	341	HANOVER,SH (JAVA GP)					WC	A	HNVR 09
NY	341	HANOVER,SH (WEST FALLS GP)							HNVR 14
NY	341	HANOVER,SH MBR (CHEMUNG FM)							HNVR 10
NY	341	HANOVER,SH MBR (JAVA FM)	U						HNVR 11
CA	112+	HANS GRIEVE,FM		SED		610	WC	D	HGRV 01
CA	121	HANS GRIEVE,FM							HGRV 02
NM	321	HANSONBURG,GP		LS		35	C	C	HBRG 06
NV	357+	HANSON CREEK,FM	U	LS		170	C	C	HCRK 04
NV	361	HANSON CREEK,FM	U						HCRK 05
NV	364	HANSON CREEK,FM	U						HCRK 06
NV	350	HAPPY CAMP,FM		LS,CH		44	NC	D	HPCP 01
NV	310	[HAPPY CREEK,VOLCS]				6100	NW	D	HPCK 10
NV	310	/HAPPY CREEK,VOLC SER	U						HPCK 02
IA	322	HAPPY HOLLOW,LS (WABAUNSEE GP)							HPHL 01
NE	322	HAPPY HOLLOW,LS (WABAUNSEE GP)				2	SE	A	HPHL 05
OK	322	HAPPY HOLLOW,LS (WABAUNSEE GP)							HPHL 07
IA	322	HAPPY HOLLOW,LS MBR (SCRANTON SH)	U						HPHL 02
KS	322	HAPPY HOLLOW,LS MBR (SCRANTON SH)	U						HPHL 04
MO	322	HAPPY HOLLOW,LS MBR (SCRANTON SH)							HPHL 11
NE	322	HAPPY HOLLOW,LS MBR (SCRANTON SH)	U						HPHL 06

OK	347	HARAGAN,FM (KITE GP)				50	SE	A	HRGN	01	
OK	347	HARAGAN,LS (HUNTON GP)							HRGN	02	
OK	347	HARAGAN,SH (HUNTON GP)	U						HRGN	03	
SC	400	HARBISON,METAGRANODIORITE						C	C	HRBS	02
CA	201	HARBISON,QUARTZ DIORITE						SE	A	HRBS	01
NY	112	HARBOR HILL,DRIFT	U			9	SE	A	HBHL	01	
CA	227	HARDGRAVE,SS	U		RD	140	NC	A	HDBG	02	
AL	341	HARDIN,SS MBR (CHATTANOOGA SH)	U						HRDN	01	
TN	341	HARDIN,SS MBR (CHATTANOOGA SH)	U			5	SW	A	HRDN	02	
TN	341	HARDIN,SS MBR (DOWELLTOWN FM)							HRDN	03	
CO	364	HARDING,FM				26	C	A	HRDG	04	
CO	364	HARDING,QTZ	U						HRDG	05	
CO	364	HARDING,SS	U						HRDG	06	
MO	332	HARDINSBURG,FM							HDBG	32	
IN	332	HARDINSBURG,FM (STEPHENSPORT GP)							HDBG	09	
KY	332	HARDINSBURG,SS	U			30	C	A	HDBG	11	
IL	332	HARDINSBURG,SS (OKAW GP)							HDBG	07	
TX	319	HARDIN SCHOOL,LS BED (SANTA ANNA BRANCH MBR OF PUTNAM FM)				<1	C	A	HDSC	01	
MA	341	HARDWICK,GRANITE	U					C	A	HDCK	06
NH	341	HARDWICK,GRANITE	U						HDCK	07	
MI	400	HARDWOOD,GNEISS	U					C	C	HRDD	01
ME	351	HARDWOOD MOUNTAIN,FM	U		CL	910	WC	D	HDDM	03	
TN	364	HARDY CREEK,LS	U						HDCK	13	
VA	364	HARDY CREEK,LS	U			47	SW	C	HDCK	14	
TN	364	HARDY CREEK,LS (CHICKAMAUGA GP)							HDCK	15	
NH	364	HARDY HILL,QTZ MBR (ORFORDVILLE FM)	U			76	WC	C	HDHL	02	
VT	364	HARDY HILL,QTZ MBR (ORFORDVILLE FM)	U						HDHL	03	
NJ	377	HARDYSTON,FM				9	NC	A	HRDS	04	
PA	377	HARDYSTON,FM							HRDS	06	
NJ	377	HARDYSTON,QTZ	U						HRDS	05	
PA	377	HARDYSTON,QTZ	U						HRDS	07	
WY	211	HAREBELL,FM	U		SS	1500	NW	C	HRBL	01	
PA	344	HARES VALLEY,LS AND SH MBR (NEWTON HAMILTON FM)				6	SC	C	HRVL	08	
PA	344	[HARES VALLEY,MBR (NEWTON HAMILTON FM)]							HRVL	09	
MS	331	HARGETT,SS MBR (ALSOBROOK FM)				<1	NE	A	HRGT	01	
UT	112	HARKERS,FANGLOMERATE (SALT LAKE GP)				91	NC	C	HRKR	01	
CA	377	HARKLESS,FM	U		SH	610	C	D	HRKL	01	
NV	377	HARKLESS,FM	U						HRKL	02	
CA	100	HARKNESS,BASALT						NW	C	HRKS	01
CA	100	HARKNESS,LAVA							HRKS	03	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IL 112	HARKNESS,SILT MBR (BANNER FM)				2	WC	E	HRKS 04
KY 324	HARLAN,FM	U			270	SE	A	HRLN 01
VA 324	HARLAN,FM	U						HRLN 03
KY 324	HARLAN,SS	U						HRLN 02
VA 324	HARLAN,SS	U						HRLN 04
OH 321	HARLEM,CLAY [BED] (CONEMAUGH FM)				1	SE	A	HRLM 01
OH 321	[HARLEM,MBR (CONEMAUGH FM)]							HRLM 06
VT 364	HARLOW BRIDGE,QTZ MBR (CRAM HILL FM)	U			240	C	C	HBDG 02
VT 364	HARLOW BRIDGE,QTZ MBR (MISSISQUOI FM)							HBDG 03
IL 112	HARMATTAN,TILL MBR (BANNER FM)				5	EC	E	HRMN 01
VT 400	HARMON HILL,GNEISS					SW	A	HMHL 04
NV 371	HARMONY,FM	U	SS		910	NC	C	HRMN 05
IL 364	HARMONY HILL,MBR (GLENWOOD FM)			GN	2	NC	C	HMHL 03
WI 364	HARMONY HILL,MBR (GLENWOOD FM)							HMHL 05
IA 364	HARMONY HILL,SH MBR (GLENWOOD FM)							HMHL 06
NV 122	HARMONY HILLS,TUFF (QUICHAPA GP)	U						HMHL 01
UT 122	HARMONY HILLS,TUFF (QUICHAPA GP)	U			110	SW	C	HMHL 02
UT 122	HARMONY HILLS,TUFF MBR (QUICHAPA FM)							HMHL 07
OR 121	HARNEY,FM	U	VOL		140	SE	A	HRNY 01
SD 430	HARNEY PEAK,GRANITE							HRPK 01
WA 231	HARO,FM			CGL	380	NW	A	HARO 01
CA 112	HAROLD,FM	U	SED		30	SC	C	HRLD 01
NE 317	HARPER,MBR (SALT FORK FM)							HRPR 16
KS 317	HARPER,SS (NIPPEWALLA GP)	U			91	SC	A	HRPR 15
OK 317	HARPER,STS	U						HRPR 14
KS 317	HARPER,STS (NIPPEWALLA GP)	U						HRPR 01
MD 410	HARPERS,FM (CHILHOWEE GP)							HRPR 12
PA 410	HARPERS,FM (CHILHOWEE GP)	U						HRPR 03
VA 410	HARPERS,FM (CHILHOWEE GP)	U						HRPR 07
WV 410	HARPERS,FM (CHILHOWEE GP)	U			370	EC	A	HRPR 11
MD 410	HARPERS,PHYLLITE (CHILHOWEE GP)	U						HRPR 02
PA 410	HARPERS,PHYLLITE (CHILHOWEE GP)	U						HRPR 04
PA 410	HARPERS,SCHIST (CHILHOWEE GP)	U						HRPR 05
VA 410	HARPERS,SH (CHILHOWEE GP)	U						HRPR 09
WV 410	HARPERS,SH (CHILHOWEE GP)	U						HRPR 10
TX 321	HARPERVILLE,FM		SH		84	C	A	HPVL 10
UT 112	HARPOLE MESA,FM	U	TL		33	SE	C	HPLM 01
PA 341	HARRELL,FM	U			76	SC	A	HRRL 01
MD 341	HARRELL,SH	U						HRRL 05
WV 341	HARRELL,SH	U						HRRL 04



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KS 322	HARTFORD, MBR (TOPEKA LS)	U			12	EC	A	HRFD 04
NV 122	HARTFORD HILL, RHYOLITE TUFF	U			120	WC	C	HFDH 01
TX 318	HARTGROVE, LS MBR (TALPA FM)				1	C	A	HRGV 01
NE 112	HARTINGTON, TILL				6	NE	D	HRNG 03
CT 361+	HARTLAND, FM	U	SCH			NC	A	HRLD 04
NY 361+	HARTLAND, FM							HRLD 08
CT 364 -	HARTLAND, FM	U						HRLD 10
NY 364	HARTLAND, FM							HRLD 09
CT 361+	HARTLAND, GP							HRLD 11
CT 364	HARTLAND, GP							HRLD 12
NM 211	HARTLAND, MBR (GREENHORN FM)							HRLD 13
CO 211	HARTLAND, SH MBR (GREENHORN LS)	U						HRLD 02
KS 211	HARTLAND, SH MBR (GREENHORN LS)	U			12	SW	A	HRLD 03
MD 400	HARTLEY, AUGEN GNEISS	U				NC	A	HRTL 04
PA 400	HARTLEY, AUGEN GNEISS	U						HRTL 05
MD 400	HARTLEY, MBR (BALTIMORE GNEISS)							HRTL 06
UT 231	HARTLEY, SH AND SS (CHINLE FM)			RD	85	SW	C	HRTL 07
UT 231	[HARTLEY, SH MBR (CHINLE FM)]							HRTL 01
UT 374	HARTMANN, GP				200	NC	A	HRMN 06
UT 374	HARTMANN, LS	U						HRMN 07
WV 327	HARTRIDGE, SH [MBR] (NEW RIVER FM)				2	C	A	HRDG 02
KY 331	HARTSELLE, FM	U						HRSL 08
TN 331	HARTSELLE, FM							HRSL 10
AL 331	HARTSELLE, SS	U			43	NC	C	HRSL 03
GA 331	HARTSELLE, SS	U						HRSL 06
KY 331	HARTSELLE, SS	U						HRSL 07
GA 331	HARTSELLE, SS MBR (FLOYD SH)							HRSL 09
MO 325	HARTSHORNE, FM (CHEROKEE GP)							HRSR 05
OK 325	HARTSHORNE, FM (KREBS GP)				61	EC	A	HRSR 03
AR 325	HARTSHORNE, SS (KREBS GP)	U						HRSR 02
OK 325	HARTSHORNE, SS (KREBS GP)	U						HRSR 04
WA 210	HARTS PASS, FM		ARK		2400	NC	E	HRSP 02
WY 124	HARTT CABIN, BED (LANEY MBR OF GREEN RIVER FM)	U	MS, SS		210	SW	E	HRCB 01
NE 317+	HARTVILLE, FM							HRVL 23
WY 317+	HARTVILLE, FM		LS		200	SE	A	HRVL 04
NE 320	HARTVILLE, FM							HRVL 24
WY 320	HARTVILLE, FM							HRVL 05
WY 331	HARTVILLE, FM							HRVL 06
MA 320	HARVARD, CGL LENTIL (WORCESTER FM)	U			120	NC	A	HRVD 01
PA 337	HARVEST HOME, SH MBR (CUYAHOGA FM)				15	NW	A	HVHM 01

WV	327	HARVEY,CGL LENTIL (NEW RIVER FM)				15	SW	A	HRVY	03	
WV	327	HARVEY,SS [EMBR] (NEW RIVER FM)							HRVY	02	
IA	322	HARVEYVILLE,SH (WABAUNSEE GP)							HVVL	03	
MO	322	HARVEYVILLE,SH MBR (EMPORIA FM)							HVVL	07	
KS	322	HARVEYVILLE,SH MBR (EMPORIA LS)	U			2	EC	A	HVVL	04	
NE	322	HARVEYVILLE,SH MBR (EMPORIA LS)	U						HVVL	05	
OK	322	HARVEYVILLE,SH MBR (EMPORIA LS)	U						HVVL	06	
NY	361	HASENCLEVER,SS MBR (FRANKFORT FM)				12	C	C	HCLV	01	
AK	317	HASEN CREEK,FM (SKOLAI GP)	U	CH,SH		520	EC	E	HCRK	03	
KS	322	HASKELL,LS MBR (LAWRENCE FM)				1	EC	A	HSKL	01	
KS	322	HASKELL,LS MBR (STRANGER FM)	U						HSKL	02	
MO	322	HASKELL,LS MBR (STRANGER FM)	U						HSKL	04	
NE	322	HASKELL,MBR (CASS LS)							HSKL	05	
OK	317	HASKEW,GYPSUM BED (DOG CREEK SH)				1	NC	A	HSKW	03	
KS	317	HASKEW,GYPSUM MBR (BLAINE FM)							HSKW	01	
OK	317	HASKEW,GYPSUM MBR (BLAINE FM)							HSKW	02	
MT	371+	HASMARK,DOL	U			320	WC	A	HMRK	01	
MT	374	HASMARK,DOL	U						HMRK	03	
MT	371+	HASMARK,FM	U						HMRK	02	
MT	374	HASMARK,FM	U						HMRK	04	
VT	367	HASTINGS CREEK,FM				79	NW	A	HGCK	13	
VT	367	HASTINGS CREEK,LS (BEEKMANTOWN GP)							HGCK	14	
NY	341	HATCH,SH MBR (WEST FALLS FM)	U			95	WC	A	HTCH	03	
VA	307	HATCHER,COMPLEX		GN				C	E	HTCR	02
IA	111	HATCHER,MBR (DE FOREST FM)	U	ST		9	WC	D	HTCR	01	
AL	304+	HATCHET CREEK,GP		SCH			EC	E	HCCK	16	
AL	307	HATCHET CREEK,GP							HCCK	17	
FL	124	HATCHETIGBEE,FM	U						HCGB	04	
AL	124	HATCHETIGBEE,FM (WILCOX GP)	U	CL,SD		53	SW	A	HCGB	01	
GA	124	HATCHETIGBEE,FM (WILCOX GP)	U						HCGB	02	
MS	124	HATCHETIGBEE,FM (WILCOX GP)	U						HCGB	03	
WA	124	HATCHET MOUNTAIN,FM	U	VOL		840	SW	C	HCMN	01	
NY	371	HATCH HILL,FM	U	SH	BK		EC	C	HCHL	01	
VT	371+	HATCH HILL,FM	U						HCHL	02	
VT	374	HATCH HILL,FM	U						HCHL	04	
CA	111	HAT CREEK,BASALT	U				NW	C	HCRK	01	
WY	211	HATFIELD,SS MBR (HAYSTACK MOUNTAINS FM)	U			52	SC	D	HFLD	19	
WY	211	HATFIELD,SS MBR (MESAVERDE FM)							HFLD	01	
CA	121	HATHAWAY,FM		SS		790	SE	A	HTHY	01	
VT	364	HATHAWAY,FM (TRENTON GP)		AGL		30	NW	C	HTHY	02	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA 364	HATTER,FM				29	SC	C	HTRR 01
PA 364	HATTER,GP							HTRR 02
PA 364	HATTER,LS							HTRR 03
AL 122	HATTIESBURG,CLAY	U						HBRG 01
LA 122	HATTIESBURG,CLAY	U						HBRG 02
MS 122	HATTIESBURG,CLAY	U			140	SC	A	HBRG 03
TX 122	HATTIESBURG,CLAY	U						HBRG 05
MS 122	HATTIESBURG,FM							HBRG 04
AR 331	HATTON,TUFF LENTIL (STANLEY SH)	U			80	WC	A	HTTN 01
OK 331	HATTON,TUFF LENTIL (STANLEY SH)							HTTN 02
HI 121	HAUPU,FM (WAIMEA CANYON GP)	U	BAS		560	NW	C	HUPU 01
ID 400	HAUSER LAKE,GNEISS	U				NW	E	HRLK 03
WA 400	HAUSER LAKE,GNEISS							HRLK 04
NV 317+	HAVALLAH,FM	U	CH		3000	NC	C	HVLL 01
NV 324	HAVALLAH,FM	U						HVLL 02
AZ 374	HAVASU,MBR (MUAV LS)				30	NC	C	HVSU 01
KS 317	HAVENSVILLE,SH MBR (WREFORD LS)	U			5	NE	A	HVVL 01
NE 317	HAVENSVILLE,SH MBR (WREFORD LS)	U						HVVL 02
NH 341	HAVERHILL,GRANODIORITE (NEW HAMPSHIRE GP)					WC	C	HVRL 01
HI 112	HAWAIILOA,VOLCS (HONOLULU GP)	U				NC	A	HWLO 01
HI 112	[HAWI,BASALT]				150	EC	C	HAWI 02
HI 112	/HAWI,VOLC SER	U						HAWI 01
CA 217+	HAWK,SH				91	WC	D	HAWK 01
CA 221	HAWK,SH							HAWK 02
MN 112	HAWK CREEK,TILL				2	SW	E	HKCK 01
SD 112	HAWK CREEK,TILL							HKCK 12
NY 400	HAWKEYE,GRANITE GNEISS	U				NE	C	HWKY 02
CA 124	HAWKHILL,FM	U	STS		360	NW	C	HKLL 01
WA 230+	HAWKINS,FM	U	VOL			C	A	HKNS 01
WA 300	HAWKINS,FM	U						HKNS 02
CA 231	HAWKINS CREEK,MBR (MODIN FM)		VOL		270	NW	C	HKCK 02
NY 340	HAWKS NEST,FM		SS		240	SE	D	HKSN 01
MA 364	HAWLEY,FM	U	SCH		610	NW	A	HWLY 01
VT 364	HAWLEY,FM	U						HWLY 02
SC 122	HAWTHORN,FM	U						HTRN 03
FL 122	HAWTHORN,FM (ALUM BLUFF GP)	U	DOL		38	NE	A	HTRN 01
GA 122	HAWTHORN,FM (ALUM BLUFF GP)	U						HTRN 02
KS 317	HAWXBY,MBR (ONAGA SH)	U						HXBY 01
KS 317	HAWXBY,SH (ADMIRE GP)							HXBY 02
NE 317	HAWXBY,SH (ADMIRE GP)				3	SE	A	HXBY 04



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
SC	112	HAZELHURST, FM		SED			SC	C	HZLR 02
AK	220	[HAZELTON, FM]		VSED			SE	A	HZLN 03
AK	220	/HAZELTON, GP	U						HZLN 01
IA	364	HAZELWOOD, MBR (MIFFLIN FM)							HZLD 02
IL	364	HAZELWOOD, MBR (MIFFLIN FM)		LS		2	NC	C	HZLD 01
MO	364	HAZELWOOD, MBR (MIFFLIN FM)							HZLD 03
VT	377	HAZENS NOTCH, FM (CAMELS HUMP GP)	U	SCH		4600	NC	D	HZNC 02
IN	321	HAZLETON BRIDGE, COAL MBR (PATOKA FM)		SH		1	SW	C	HZBG 01
NY	364	HEAD, MBR (DAY POINT LS)							HEAD 01
VT	364	HEAD, MBR (DAY POINT LS)		SS		5	NW	C	HEAD 02
OK	374	HEADQUARTERS, GRANITE					C	A	HDQR 01
WY	400	HEADQUARTERS, SCHIST (LIBBY CREEK GP)					SE	C	HDQR 03
ME	347	HEALD MOUNTAIN, RHYOLITE (MOOSE RIVER GP)				610	WC	E	HLDM 01
VA	347	HEALING SPRINGS, SS				6	C	A	HGSP 01
WV	347	HEALING SPRINGS, SS	U						HGSP 02
VA	347	HEALING SPRINGS, SS MBR (NEW SCOTLAND LS)	U						HGSP 07
AK	122+	HEALY CREEK, FM	U	SS, CGL		610	EC	E	HLCK 02
AK	123	HEALY CREEK, FM	U						HLCK 03
AL	307+	HEARD, GP							HERD 01
GA	307+	HEARD, GP		MSED			WC	E	HERD 02
AL	400	HEARD, GP							HERD 03
GA	400	HEARD, GP							HERD 04
WY	400	HEART, FM (LIBBY CREEK GP)		MGYK		460	SE	A	HERT 03
WY	112+	HEART LAKE, CGL	U			100	WC	E	HRLK 01
WY	121	HEART LAKE, CGL	U						HRLK 02
VT	377	HEARTWELLVILLE, SCHIST				370	SW	A	HLVL 01
MT	331	HEATH, FM (BIG SNOWY GP)	U		BK	150	C	A	HETH 01
ND	331	HEATH, FM (BIG SNOWY GP)	U						HETH 03
MT	331	HEATH, SH (BIG SNOWY GP)	U						HETH 02
CT	350+	HEBRON, FM	U				EC	A	HBRN 03
CT	360	HEBRON, FM	U						HBRN 05
CT	350+	HEBRON, QUARTZ SCHIST							HBRN 04
CT	360	HEBRON, QUARTZ SCHIST							HBRN 06
AK	351+	HECETA, LS	U			3000	SE	E	HECT 01
AK	354	HECETA, LS	U						HECT 02
AK	357	HECETA, LS	U						HECT 03
CA	122	HECTOR, FM		TUFF		490	SE	E	HCTR 01
ME	347	HEDGEHOG, FM (DOCKENDORFF GP)	U	TRC			NE	A	HDGG 01
ME	347	HEDGEHOG, VOLCS (DOCKENDORFF GP)							HDGG 02
WV	337	HEDGES, SH (POCONO GP)	U			52	NE	A	HDGS 04

NV	122	HEDWIG,BRECCIA MBR (ESMERALDA FM)	U			30	C	A	HDWG	01	
IA	322	HEEBNER,SH MBR (OREAD LS)	U						HBNR	01	
KS	322	HEEBNER,SH MBR (OREAD LS)	U						HBNR	02	
MO	322	HEEBNER,SH MBR (OREAD LS)	U						HBNR	03	
NE	322	HEEBNER,SH MBR (OREAD LS)	U						HBNR	04	
AL	304	HEFLIN,PHYLLITE (TALLADEGA GP)	U		BK	2	SE	A	HBNR	01	
IL	112	HEGELER,TILL MBR (BANNER FM)	U		GN	1800	NE	E	HFLN	01	
ID	324	HEGLAR CANYON,MBR (WELLS FM)	U			2	EC	E	HGLR	01	
NM	313	HEGLER,LS MBR (BELL CANYON FM)	U		LS	310	SC	C	HGLC	01	
TX	313	HEGLER,LS MBR (BELL CANYON FM)	U			5	WC	C	HGLR	03	
PA	231	HEIDLERSBURG,MBR (GETTYSBURG SH)	U			1500	SC	A	HDBG	01	
PA	231	HEIDLERSBURG,SS MBR (GETTYSBURG SH)	U						HDBG	02	
CA	110	HEIGHTS,FANGLOMERATE	U			150	SE	A	HGTS	01	
ND	112	HEIMDAL,DRIFT	U					C	D	HMDL	01
MD	347	HELDERBERG,FM	U						HDBG	27	
PA	347	HELDERBERG,FM	U						HDBG	20	
MD	347	HELDERBERG,GP	U						HDBG	28	
NJ	347	HELDERBERG,GP	U						HDBG	17	
NY	347	HELDERBERG,GP	U		LS		EC	A	HDBG	18	
PA	347	HELDERBERG,GP	U						HDBG	21	
VA	347	HELDERBERG,GP	U						HDBG	23	
WV	347	HELDERBERG,GP	U						HDBG	25	
MD	347	HELDERBERG,LS	U						HDBG	16	
OH	347	HELDERBERG,LS	U						HDBG	19	
PA	347	HELDERBERG,LS	U						HDBG	22	
VA	347	HELDERBERG,LS	U						HDBG	26	
WV	347	HELDERBERG,LS	U						HDBG	24	
MT	420	HELENA,DOL (BELT SUPERGROUP)	U			730	C	A	HELN	01	
MT	420	HELENA,FM (BELT SUPERGROUP)	U						HELN	02	
CO	367	HELENA CANYON,MBR (MANITOU FM)	U		DOL	RD	3	C	D	HLNC	01
NC	377	HELENMODE,FM (CHILHOWEE GP)	U						HLMD	01	
TN	377	HELENMODE,FM (CHILHOWEE GP)	U		CL	30	NE	C	HLMD	02	
TN	377	HELENMODE,MBR (ERWIN FM)	U						HLMD	03	
VA	377	HELENMODE,MBR (ERWIN FM)	U						HLMD	05	
TN	377	HELENMODE,MBR (HESSE SS)	U						HLMD	04	
PA	410	HELLAM,MBR (CHICKIES FM)	U		CGL	180	SE	A	HLLM	02	
PA	410	HELLAM,MBR (CHICKIES QTZ)	U						HLLM	03	
ND	211	HELL CREEK,FM	U						HLCK	06	
SD	211	HELL CREEK,FM	U						HLCK	07	
UT	211	HELL CREEK,FM	U						HLCK	08	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY	211	HELL CREEK,FM	U						HLCK 09
MT	211	HELL CREEK,FM (MONTANA GP)	U	SS		170	NE	A	HLCK 05
MT	420	HELLGATE,FM				670	WC	A	HLGT 09
MT	420	HELLGATE,QTZ (MISSOULA GP)							HLGT 10
MT	420	HELLGATE,QTZ MBR (MILLER PEAK FM)	U						HLGT 11
AZ	101+	HELL HOLE,CGL	U				SE	D	HLHL 01
AZ	104	HELL HOLE,CGL	U						HLHL 02
MT	420	HELL ROARING,MBR (ALTYN LS)		DOL		370	CAN	C	HLRG 06
NV	122+	HELLS BELLS CANYON,FM		VOL		910	SE	D	HLBC 02
NV	123	HELLS BELLS CANYON,FM							HLBC 01
UT	324	HELLS CANYON,FM (DURST GP)							HLSC 02
CO	324	HELLS CANYON,MBR (MORGAN FM)		LS,SH		90	NW	C	HLSC 01
UT	324	HELLS CANYON,MBR (MORGAN FM)							HLSC 03
AZ	400	HELLS GATE,RHYOLITE				3000	C	C	HLSG 01
AZ	122	HELLS HALF ACRE,TUFF MBR (GALIURO VOLCS)	U			150	SE	E	HHFA 01
NM	123	HELLS MESA,MBR (DATIL FM)		TF		610	C	C	HLSM 01
NM	217	HELL-TO-FINISH,FM	U	SH,SS		390	SW	C	HLFS 01
NM	217	HELL-TO-FINISH,FM (BISBEE GP)							HLFS 02
CO	217	HELMER,CLAYSTONE BED (VAN BIBBER MBR OF SOUTH PLATTE FM)				3	C	D	HLMR 01
AZ	123	HELMET,FANGLOMERATE	U			3000	SC	C	HLMT 01
OR	124	HELMICK,FM	U	SS		12	NW	C	HMCK 05
NM	331	HELMS,FM	U						HLMS 01
TX	331	HELMS,FM	U	LS		180	WC	A	HLMS 02
NE	122	HELVAS CANYON,MBR (GERING FM)		STS		62	WC	E	HLVC 01
OR	121	HELVETIA,FM		ST		23	NW	D	HLVT 01
IL	364	HELY,MBR (GRAND DETOUR FM)		LS			NC	C	HELY 01
MO	364	HELY,MBR (GRAND DETOUR FM)							HELY 02
NE	122	HEMINGFORD,GP		SS,CL		110	NW	C	HMGF 01
WY	122	HEMINGFORD,GP							HMGF 02
AK	122	HEMLOCK,CGL	U			170	C	E	HMCK 15
AK	122	HEMLOCK,CGL (KENAI GP)							HMCK 03
MI	430	HEMLOCK,FM (BARAGA GP)	U	GNS		3000	NW	A	HMCK 11
AK	122	HEMLOCK,FM (KENAI GP)							HMCK 04
MA	112	HEMPSTEAD,GRAVEL MBR (MANHASSET FM)	U						HMPD 01
NY	112	HEMPSTEAD,GRAVEL MBR (MANHASSET FM)	U			23	SE	A	HMPD 02
RI	112	HEMPSTEAD,GRAVEL MBR (MANHASSET FM)	U						HMPD 03
GA	300	HENDERSON,GNEISS	U						HDRS 01
NC	300	HENDERSON,GNEISS	U				WC	A	HDRS 02
SC	300	HENDERSON,GNEISS	U						HDRS 04
NC	300	HENDERSON,GRANITE GNEISS	U						HDRS 03

MI	354	HENDRICKS,DOL (BURNT BLUFF GP)				44	NC	A	HDCK	09	
WI	354	HENDRICKS,DOL (BURNT BLUFF GP)							HDCK	11	
MI	354	HENDRICKS,MBR (BURNT BLUFF FM)							HDCK	10	
WI	354	HENDRICKS,MBR (BURNT BLUFF FM)							HDCK	12	
WV	341	HENDRICKS,SS				3	C	A	HDCK	08	
WY	124	HENDRY RANCH,MBR (TEPEE TRAIL FM)	U	CLS		170	C	C	HDRC	01	
UT	211	HENEFER,FM	U	SH,SS	VAR	3000	NC	C	HNFR	01	
KY	337	HENLEY,BED (FARMERS MBR OF BORDEN FM)	U						HNLV	01	
OH	337	HENLEY,SH MBR (CUYAHOGA FM)				69	SC	A	HNLV	02	
WI	364	HENNEPIN,MBR (GLENWOOD FM)							HNPV	03	
IA	364	HENNEPIN,MBR (PECATONICA FM)							HNPV	05	
IL	364	HENNEPIN,MBR (PECATONICA FM)		DOL		<1	NC	C	HNPV	02	
OK	317	HENNESSEY,GP	U			120	NC	A	HNNS	02	
OK	317	HENNESSEY,SH	U						HNNS	01	
UT	224	HENRIEVILLE,SS (SAN RAFAEL GP)				70	SC	E	HRVL	02	
IL	112	HENRY,FM		SD,GVL		30	NC	E	HNRY	01	
OK	354	HENRYHOUSE,FM (HUNTON GP)	U			55	SC	A	HNRS	01	
OK	354	HENRYHOUSE,LS (HUNTON GP)	U						HNRS	02	
OK	354	HENRYHOUSE,SH (HUNTON GP)	U						HNRS	03	
TX	124	/HENRYS CHAPEL,BALL CLAY LENTIL (WILCOX GP)				6	EC	C	HCPL	01	
TX	124	[HENRYS CHAPEL,CLAY LENTIL (SABINETOWN FM)]							HCPL	02	
IN	339	HENRYVILLE,BED (CLEGG CREEK MBR OF NEW ALBANY SH)			BK	1	SE	C	HRVL	17	
IN	339	HENRYVILLE,MBR (NEW ALBANY SH)							HRVL	07	
TX	218	HENSELL,SAND MBR (GLEN ROSE FM)			YL	44	C	A	HNSL	01	
TX	218	HENSELL,SAND MBR (SHINGLE HILLS FM)							HNSL	02	
TX	218	HENSELL,SAND MBR (TRAVIS PEAK FM)	U						HNSL	03	
TX	218	HENSELL,SH MBR (PEARSALL FM)	U						HNSL	04	
KY	327	HENSLEY,MBR (LEE FM)	U	SS,SH		120	SE	D	HNSL	05	
TN	327	HENSLEY,MBR (LEE FM)							HNSL	07	
VA	327	HENSLEY,MBR (LEE FM)	U						HNSL	06	
CO	123	HENSON,FM	U	TF		180	SW	A	HNSV	01	
MT	112	HEPBURNS MESA,BASALT				24	SW	D	HPBM	01	
KS	323	HEPLER,SS (PLEASANTON GP)				6	SE	C	HPLR	02	
MO	323	HEPLER,SS [MBR] (PLEASANTON FM)							HPLR	04	
KS	323	HEPLER,SS MBR (SEMINOLE FM)							HPLR	05	
OR	122	HEPPSIE,ANDESITE	U					SW	C	HPPS	01
UT	331	HERAT,SH MBR (OCHRE MOUNTAIN LS)	U		BK	15	WC	A	HERT	01	
CA	122	HERCULES,SH MBR (BRIONES SS)	U			150	WC	A	HRCL	01	
AR	367	HERCULES TOWER,SS [BED] (LUTIE MBR OF THEODOSIA FM)							HCLT	01	
MO	367	HERCULES TOWER,SS [BED] (LUTIE MBR OF THEODOSIA FM)			RD	3	SC	C	HCLT	02	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AK 217	HERENDEEN,LS	U			240	SC	A	HRND 01
KS 317	HERINGTON,LS (CHASE GP)	U			5	EC	A	HRNG 05
OK 317	HERINGTON,LS (CHASE GP)	U						HRNG 08
OK 317	HERINGTON,LS (OSCAR GP)							HRNG 10
KS 317	HERINGTON,MBR (NOLANS LS)	U						HRNG 06
NE 317	HERINGTON,MBR (NOLANS LS)							HRNG 07
UT 374	HERKIMER,LS	U			72	C	A	HRKM 02
UT 374	HERKIMER,LS (HARTMANN GP)							HRKM 03
NY 354	HERKIMER,SS (CLINTON GP)				24	C	A	HRKM 01
AZ 317	HERMIT,FM			RD	97	NW	A	HRMT 01
UT 317	HERMIT,FM							HRMT 03
AZ 317	HERMIT,SH (AUBREY GP)	U						HRMT 02
NV 317	HERMIT,SH (AUBREY GP)							HRMT 05
UT 317	HERMIT,SH (AUBREY GP)	U						HRMT 04
AL 364	HERMITAGE,FM							HRMG 08
TN 364	HERMITAGE,FM	U			21	NC	A	HRMG 05
TN 364	HERMITAGE,FM (NASHVILLE GP)							HRMG 03
TN 364	HERMITAGE,LS	U						HRMG 06
GA 364	HERMITAGE,LS (NASHVILLE GP)							HRMG 07
TN 364	HERMITAGE,LS (NASHVILLE GP)							HRMG 04
IL 325	HERMON,COAL MBR (SPOON FM)				<1	NW	C	HRMN 03
NY 420	HERMON,GRANITE GNEISS	U				NC	A	HRMN 08
NM 321+	HERMOSA,FM							HRMS 06
UT 321+	HERMOSA,FM	U						HRMS 08
AZ 324	HERMOSA,FM	U						HRMS 10
CO 324	HERMOSA,FM	U	SED		650	SW	A	HRMS 12
NM 324	HERMOSA,FM	U						HRMS 14
UT 324	HERMOSA,FM	U						HRMS 16
CO 321+	HERMOSA,GP							HRMS 05
NM 321+	HERMOSA,GP							HRMS 07
UT 321+	HERMOSA,GP							HRMS 09
AZ 324	HERMOSA,GP							HRMS 11
CO 324	HERMOSA,GP							HRMS 13
NM 324	HERMOSA,GP							HRMS 15
UT 324	HERMOSA,GP							HRMS 17
SD 217	HERMOSA,LENS (NEWCASTLE SS)		SS,SH		16	SW	C	HRMS 01
NY 364	HERO,MBR (VALCOUR FM)							HERO 01
VT 364	HERO,MBR (VALCOUR FM)		LS		31	NW	C	HERO 02
MA 112	HEROD,GRAVEL MBR (MANHASSET FM)	U						HR0D 01
NY 112	HEROD,GRAVEL MBR (MANHASSET FM)	U			30	SE	A	HR0D 02





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
NY 354	HICKORY CORNERS, MBR (REYNALES LS)							HCKC 01
KS 323	HICKORY CREEK, SH MBR (PLATTSBURG LS)	U			<1	EC	A	HCKC 09
MO 323	HICKORY CREEK, SH MBR (PLATTSBURG LS)							HCKC 10
NE 323	HICKORY CREEK, SH MBR (PLATTSBURG LS)	U						HCKC 11
WI 367	HICKORY RIDGE, MBR (ONEOTA DOL)				7	SW	C	HKRG 01
UT 371	HICKS, FM	U	DOL		370	WC	A	HCKS 01
LA 221	HICO, SH (COTTON VALLEY GP)				370	NW	D	HICO 01
NM 211	HIDALGO, VOLCS	U			1500	SW	C	HDLG 01
MN 364	HIDDEN FALLS, BED (MCGREGOR MBR OF PLATTEVILLE FM)		LS		2	SC	C	HDFL 02
MN 364	HIDDEN FALLS, MBR (PLATTEVILLE FM)							HDFL 01
CA 347+	HIDDEN VALLEY, DOL	U			410	EC	C	HDVL 08
CA 350	HIDDEN VALLEY, DOL	U						HDVL 09
AL 304	HIGGINS FERRY, FM (WEDOWEE GP)			SCH			C	HGFR 01
MO 325	HIGGINSVILLE, LS (MARMATON GP)						WC	HGVL 06
IA 325	HIGGINSVILLE, MBR (FORT SCOTT LS)							HGVL 02
KS 325	HIGGINSVILLE, MBR (FORT SCOTT LS)							HGVL 03
MO 325	HIGGINSVILLE, MBR (FORT SCOTT LS)							HGVL 04
OK 325	HIGGINSVILLE, MBR (FORT SCOTT LS)							HGVL 05
ID 231	HIGHAM, GRIT	U			150	SE	A	HGHM 01
UT 231	HIGHAM, GRIT	U						HGHM 02
WY 231	HIGHAM, GRIT	U						HGHM 03
LA 125	HIGH BLUFF, MBR (PENDLETON FM)		SD		40	NW	C	HGBF 01
TX 125	HIGH BLUFF, MBR (PENDLETON FM)							HGBF 02
KY 364	HIGH BRIDGE, GP	U	LS		61	C	A	HGBG 01
CA 111+	HIGH CASCADE, VOLCS							HGCC 01
OR 111+	HIGH CASCADE, VOLCS					SW	C	HGCC 02
CA 112	HIGH CASCADE, VOLCS							HGCC 03
OR 112	HIGH CASCADE, VOLCS							HGCC 04
CA 121	HIGH CASCADE, VOLCS							HGCC 05
OR 121	HIGH CASCADE, VOLCS							HGCC 06
ID 374	HIGH CREEK, LS	U						HGCK 15
UT 374	HIGH CREEK, LS	U					NC	E
NJ 351	HIGH FALLS, FM	U						HGFL 01
PA 351	HIGH FALLS, FM	U						HGFL 03
WI 420	HIGH FALLS, GRANITE						NE	D
NY 351	HIGH FALLS, SH	U		RD	30	SE	A	HGFL 02
VT 367	HIGHGATE, FM	U	SL		91	NW	A	HGGT 01
VT 367	HIGHGATE, FM (BEEKMANTOWN GP)							HGGT 02
KS 317	HIGHLAND, SH MBR (WELLINGTON FM)				14	C	C	HGLD 01
MS 331	HIGHLAND CHURCH, SS MBR (FOREST GROVE FM)				8	NE	A	HGCC 08

NH	361+	[HIGHLANDCROFT,GP]							NW	A	HGCF	11
NH	364	[HIGHLANDCROFT,GP]									HGCF	12
ME	361+	HIGHLANDCROFT,GRANODIORITE									HGCF	13
NH	361+	HIGHLANDCROFT,GRANODIORITE									HGCF	01
VT	361+	HIGHLANDCROFT,GRANODIORITE									HGCF	09
ME	364	HIGHLANDCROFT,GRANODIORITE									HGCF	14
NH	364	HIGHLANDCROFT,GRANODIORITE									HGCF	04
VT	364	HIGHLANDCROFT,GRANODIORITE									HGCF	10
ME	361+	/HIGHLANDCROFT,PLUTONIC SER									HGCF	07
NH	361+	/HIGHLANDCROFT,PLUTONIC SER									HGCF	02
VT	361+	/HIGHLANDCROFT,PLUTONIC SER									HGCF	03
ME	364	/HIGHLANDCROFT,PLUTONIC SER									HGCF	08
NH	364	/HIGHLANDCROFT,PLUTONIC SER									HGCF	05
VT	364	/HIGHLANDCROFT,PLUTONIC SER									HGCF	06
NJ	347	HIGHLAND MILLS,MBR (ESOPUS FM)									HGDM	02
NY	347	HIGHLAND MILLS,MBR (ESOPUS FM)									HGDM	01
NV	371+	HIGHLAND PEAK,FM									HGPK	03
NV	374	HIGHLAND PEAK,FM									HGPK	04
CT	400	HIGHLANDS,COMPLEX									HGLD	04
NY	400	HIGHLANDS,COMPLEX									HGLD	06
CT	400	HIGHLANDS,GNEISS									HGLD	07
NY	400	HIGHLANDS,GNEISS									HGLD	05
GA	370	HIGH TOWER,GRANITE									HGTR	01
NV	324	HIGHWAY,LS									HGTR	04
KY	324	HIGNITE,FM (BREATHITT GP)									HGNT	01
TN	324	HIGNITE,FM (BREATHITT GP)									HGNT	03
TN	324	HIGNITE,MBR (BREATHITT FM)									HGNT	04
NV	122	HIKO,TUFF									HIKO	01
UT	122	HIKO,TUFF									HIKO	03
NV	122	HIKO,TUFF MBR (PAGE RANCH FM)									HIKO	02
UT	122	HIKO,TUFF MBR (PAGE RANCH FM)									HIKO	04
ME	340	HILDRETHS,FM									HLDR	02
CA	112	HILGARD,TILL									HLGD	02
HI	112	[HILINA,BASALT]									HILN	03
HI	112	/HILINA,VOLC SER									HILN	01
AL	304	HILLABEE,CHLORITE SCHIST									HLLB	03
GA	304	HILLABEE,CHLORITE SCHIST									HLLB	04
AL	304	HILLABEE,CHLORITE SCHIST (TALLADEGA GP)									HLLB	05
AK	367+	HILLARD,LS									HLRD	05
AK	371	HILLARD,LS									HLRD	06

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AK 374	HILLARD,LS	U						HLRD 07
AK 377	HILLARD,LS	U						HLRD 08
TX 324	HILL CREEK,SH MBR (LAZY BEND FM)		SED		84	C A		HLCK 15
TX 324	HILL CREEK,SH MBR (MILLSAP LAKE FM)							HLCK 16
IL 112	HILLERY,TILL MBR (BANNER FM)				4	EC E		HLLR 01
WY 211	HILLIARD,FM	U			2100	SW A		HLRD 03
UT 211	HILLIARD,SH	U						HLRD 02
WY 211	HILLIARD,SH	U						HLRD 04
NY 364	HILLIER,LS				21	CAN C		HLLR 05
NY 364	HILLIER,MBR (COBOURG FM)							HLLR 03
MN 430	HILLMAN,TONALITE					C C		HLMN 02
MI 420	[HILL POINT,BASALT (PORTAGE LAKE VOLCS)]				48	NW E		HLPN 02
MI 420	/HILL POINT,FLOW (PORTAGE LAKE VOLCS)	U						HLPN 01
NH 340	[HILLSBORO,GP]					SE C		HLBR 04
NH 340	/HILLSBORO,PLUTONIC SER	U						HLBR 01
OH 347	HILLSBORO,SS				9	SW A		HLBR 02
VA 331	HILLSDALE,LS							HLDL 03
WV 331	HILLSDALE,LS (GREENBRIER GP)				46	SC A		HLDL 05
KY 331	HILLSDALE,MBR (GREENBRIER LS)	U						HLDL 02
VA 331	HILLSDALE,MBR (GREENBRIER LS)	U						HLDL 04
WV 331	HILLSDALE,MBR (GREENBRIER LS)	U						HLDL 06
AZ 430	HILLSIDE,MICA SCHIST	U			1200	WC C		HLSD 02
MN 112	HILLSIDE,SAND				46	SC D		HLSD 01
KS 210	HILLS POND,PERIDOTITE	U				SE C		HLPD 01
OK 323	HILLTOP,FM	U	SH		61	EC C		HLTP 01
CA 360	HILTON CREEK,MARBLE	U			460	C D		HLCK 17
MT 217	HIMES,MBR (CLOVERLY FM)							HIMS 02
WY 217	HIMES,MBR (CLOVERLY FM)		CLS		28	NC C		HIMS 01
CA 224	HINCHMAN,FM				150	NC A		HNCM 01
CA 224	HINCHMAN,SS	U						HNCM 02
MN 420	HINCKLEY,SS	U			31	C A		HCKL 03
MN 420	HINCKLEY,SS (BAYFIELD GP)							HCKL 01
MN 420	HINCKLEY,SS (KEWEENAWAN SUPERGROUP)							HCKL 02
OK 331	HINDSVILLE,LS	U						HDVL 06
MO 332	HINDSVILLE,LS							HDVL 04
OK 331	HINDSVILLE,LS (MAYES GP)							HDVL 11
AR 331	HINDSVILLE,LS MBR (BATESVILLE SS)	U			15	NW A		HDVL 03
OK 331	HINDSVILLE,LS MBR (BATESVILLE SS)	U						HDVL 07
MO 332	HINDSVILLE,LS MBR (BATESVILLE SS)							HDVL 05
AZ 120	HINDU CANYON,FM		CGL		76	NW D		HNDL 01

CA	410	HINES,TONGUE (REED DOL)	U		240	C	D	HINS	03
NV	410	HINES,TONGUE (REED DOL)	U					HINS	05
NV	410	HINES,TONGUE (REED FM)						HINS	06
CA	300+	HINKLEY VALLEY,COMPLEX		MSED		SE	C	HKLV	01
CA	400	HINKLEY VALLEY,COMPLEX						HKLV	02
CO	121+	HINSDALE,FM	U	VOL	370	C	A	HSDL	01
NM	121+	HINSDALE,FM	U					HSDL	03
CO	122	HINSDALE,FM	U					HSDL	06
NM	122	HINSDALE,FM	U					HSDL	09
MA	400	HINSDALE,GNEISS	U			WC	A	HSDL	20
NY	341	/HINSDALE,SS (CHADAKOIN GP)				20	WC	A	HSDL 13
PA	341	/HINSDALE,SS (CHADAKOIN GP)						HSDL	17
NY	341	/HINSDALE,SS (CONNEAUT GP)						HSDL	14
PA	341	/HINSDALE,SS (CONNEAUT GP)						HSDL	18
KY	331	HINTON,FM	U					HNTN	01
WV	331	HINTON,FM	U	SH,SS	340	SC	A	HNTN	22
WV	331	HINTON,FM (MAUCH CHUNK GP)						HNTN	21
VA	331	HINTON,FM (PENNINGTON GP)	U					HNTN	03
WV	331	HINTON,GP						HNTN	06
OH	112	HIRAM,TILL	U		9	NE	C	HIRM	01
PA	112	HIRAM,TILL						HIRM	02
CA	317+	HIRZ MOUNTAIN,LS MBR (BAIRD FM)			21	NW	E	HRZM	01
CA	321	HIRZ MOUNTAIN,LS MBR (BAIRD FM)						HRZM	02
MA	231	HITCHCOCK,VOLCS (NEWARK GP)				NW	D	HCKC	01
CT	400	HITCHCOCK LAKE,MBR (WATERBURY GNEISS)	U		610	C	D	HKLK	02
AZ	231	HITE,BED (CHURCH ROCK MBR OF CHINLE FM)	U					HITE	01
UT	231	HITE,BED (CHURCH ROCK MBR OF CHINLE FM)		SS	15	SE	C	HITE	02
CA	320+	HITE COVE,FM		CH		C	D	HTCV	01
CA	330	HITE COVE,FM						HTCV	02
NM	367	HITT CANYON,FM (EL PASO GP)	U					HCNN	02
TX	367	HITT CANYON,FM (EL PASO GP)	U	LS	160	WC	E	HCNN	01
IN	361	HITZ,LS MBR (SALUDA FM)	U		2	SE	A	HITZ	01
KY	361	HITZ,MBR (SALUDA LS)	U					HITZ	03
WY	124+	HOBACK,FM		SS,SH	4600	WC	C	HBCK	01
WY	125	HOBACK,FM						HBCK	02
CA	112	HOBART,TILL	U			NC	D	HBRT	01
UT	320	HOBBLE,FM		LS,SS	530	C	C	HBBL	01
ME	347+	HOBBSTOWN,FM	U	CGL	460	WC	D	HBSN	01
ME	351	HOBBSTOWN,FM	U					HBSN	02
NJ	400	HOBOKEN,SERPENTINE				SE	A	HBKN	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
NY 400	HOBOKEN, SERPENTINE							HBKN 02
OH 321	HOCKINGPORT, SS LENTIL (WAYNESBURG FM)					SE	C	HKGP 01
LA 112	HOCKLEY MOUND, MBR (WILLIS SAND)							HCKM 01
TX 112	HOCKLEY MOUND, MBR (WILLIS SAND)				8	EC	A	HCKM 02
CA 301	HODAPP, MBR (CALAVERAS FM)		MET	GN	820	NW	D	HDPP 01
CA 207+	/HODGE, VOLC FM	U			3000	SE	C	HODG 02
CA 310	/HODGE, VOLC FM	U						HODG 05
CA 207+	[HODGE, VOLCS]							HODG 07
CA 310	[HODGE, VOLCS]							HODG 08
CT 304	[HODGES, COMPLEX]					NW	D	HDGS 07
CT 304	/HODGES, MAFIC COMPLEX							HDGS 01
ID 374	HODGES, SH MBR (BLOOMINGTON FM)	U						HDGS 05
UT 374	HODGES, SH MBR (BLOOMINGTON FM)	U			110	NC	A	HDGS 06
CA 111	[HOFFMAN, DACITE]				23	NC	C	HFMN 06
CA 111	/HOFFMAN, FLOW							HFMN 01
CA 210	HOFFMANN, QUARTZ MONZONITE					C	C	HFMN 02
IL 333	HOFFNER, MBR (STE. GENEVIEVE LS)				24	SC	C	HFNR 02
MT 211	HOGAN, FM		VSED		750	WC	C	HOGN 01
UT 324	HOGAN, FM							HOGN 03
NV 324	HOGAN, FM (ELY GP)		LS		230	NE	D	HOGN 02
MO 420	HOGAN MOUNTAIN, RHYOLITE (VAN EAST GP)					SE	D	HGMN 01
ME 304+	HOGBACK, SCHIST					SC	A	HGBK 01
ME 307	HOGBACK, SCHIST							HGID 02
NY 400	HOGBACK MOUNTAIN, CHARNOCKITE				910	EC	E	HBKM 02
WA 110	HOGBACK MOUNTAIN, OLIVINE BASALT					SC	E	HBKM 01
ID 121	HOG CREEK, MBR (POISON CREEK FM)		SH, VOL			SW	E	HGCK 01
TX 321	HOG CREEK, SH (CANYON GP)				12	C	C	HGCK 17
TX 123+	HOG EYE, TUFF (GARREN GP)				59	WC	C	HOGY 01
TX 124	HOG EYE, TUFF (GARREN GP)							HOGY 02
MT 101+	HOG HEAVEN, VOLCS				120	NW	D	HGHV 01
MT 112	HOG HEAVEN, VOLCS							HGHV 02
ME 344+	HOG ISLAND, GRANODIORITE	U				WC	D	HGID 01
ME 347	HOG ISLAND, GRANODIORITE	U						HGID 02
TX 324	HOG MOUNTAIN, SS (STRAWN GP)				1	C	A	HGMN 06
TX 324	HOG MOUNTAIN, SS BED (EAST MOUNTAIN FM)							HGMN 03
TX 324	HOG MOUNTAIN, SS MBR (EAST MOUNTAIN FM)							HGMN 04
TX 324	HOG MOUNTAIN, SS [MBR] (MINERAL WELLS FM)							HGMN 05
OK 323	HOGSHOOTER, LS (SKIATOOK GP)	U			6	NE	A	HGSR 01
TN 364	HOGSKIN, MBR (LINCOLNSHIRE LS)		SH			NE	C	HGSK 01
WA 122	HOG, FM		SH		3000	NW	A	HOG 01

IA	350	/HOING,SS					15	EC	A	HONG	01	
IL	344	HOING,SS MBR (CEDAR VALLEY LS)					9	WC	A	HONG	02	
AZ	234+	HOLBROOK,SS MBR (MOENKOPI FM)										
AZ	237	HOLBROOK,SS MBR (MOENKOPI FM)	U		RD		34	EC	A	HLBK	01	
CA	211	HOLCOMB,QUARTZ MONZONITE	U									
KS	325	HOLDENVILLE,SH (MARMATON GP)	U									
MO	325	HOLDENVILLE,SH (MARMATON GP)	U									
OK	325	HOLDENVILLE,SH (MARMATON GP)	U				79	EC	A	HLDV	03	
NM	321	HOLDER,FM (MAGDALENA GP)			LS,SH		260	SC	C	HLDR	01	
OR	122	HOLDOUT,MBR (DEER BUTTE FM)			VSED				EC	D	HLDT	02
KS	112	HOLDREGE,FM	U									
NE	112	HOLDREGE,FM			SD,GVL		30	SC	A	HLDG	04	
KS	112	HOLDREGE,MBR (BLANCO FM)										
KS	112	HOLDREGE,MBR (CHASE CHANNEL FM)										
NE	112	HOLDREGE,MBR (FULLERTON FM)										
ID	121	/HOLE-IN-THE-WALL,DIATOMITE							SC	D	HLWL	01
UT	123	HOLE-IN-THE-WALL,TUFF MBR (ISOM FM)	U				13	SW	C	HLWL	03	
AK	340+	[HOLITNA,FM]			LS		3000		C	C	HLTN	06
AK	350	[HOLITNA,FM]										
AK	360	[HOLITNA,FM]										
AK	340+	/HOLITNA,GP	U									
AK	350	/HOLITNA,GP	U									
AK	360	/HOLITNA,GP	U									
IN	324	HOLLAND,LS MBR (STAUNTON FM)					1	SW	C	HLND	01	
NY	361	HOLLAND PATENT,MBR (UTICA SH)					61		C	C	HLDP	02
NY	361	HOLLAND PATENT,SH										
OH	340	HOLLAND QUARRY,SH							NW	C	HLDQ	01
KS	317	HOLLENBERG,LS MBR (WELLINGTON FM)					1	NE	A	HLBG	02	
AL	307	HOLLIS,QTZ	U						EC	A	HLLS	03
GA	307	HOLLIS,QTZ	U									
AL	307	HOLLIS,QTZ (PINE MOUNTAIN GP)										
GA	307	HOLLIS,QTZ (PINE MOUNTAIN GP)										
LA	111	HOLLOWAY PRAIRIE,FM			SED				C	C	HLPR	01
AR	218	HOLLY CREEK,FM (TRINITY GP)	U		CL	RD	90	SW	A	HLCK	10	
OK	218	HOLLY CREEK,FM (TRINITY GP)	U									
CA	122	HOLLYCREST,FM			SH		520	SC	C	HLCR	01	
SC	112	HOLLY HILL,MBR (OKEFENOKEE FM)			SD,CGL		9	C	D	HLHL	03	
MS	124	HOLLY SPRINGS,SAND MBR (TALLAHATTA FM)	U			VAR	110	NC	A	HSPG	09	
KS	317	HOLMESVILLE,MBR (DOYLE SH)	U									
NE	317	HOLMESVILLE,MBR (DOYLE SH)	U				6	SE	A	HLNV	04	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AK 122+	HOLOKUK,BASALT	U			300	C	C	HLKK 01
AK 123	HOLOKUK,BASALT	U						HLKK 02
AK 124	HOLOKUK,BASALT	U						HLKK 03
TN 364	HOLSTON,FM (CHICKAMAUGA GP)	U			120	EC	A	HLSN 01
GA 364	HOLSTON,LS	U						HLSN 02
VA 364	HOLSTON,LS	U						HLSN 04
TN 364	HOLSTON,MARBLE (CHICKAMAUGA GP)	U						HLSN 03
MO 322	HOLT,SH MBR (TOPEKA FM)	U			1	NW	A	HOLT 03
IA 322	HOLT,SH MBR (TOPEKA LS)	U						HOLT 01
KS 322	HOLT,SH MBR (TOPEKA LS)	U						HOLT 02
NE 322	HOLT,SH MBR (TOPEKA LS)	U						HOLT 04
MT 211	HOLTER,SS (COLORADO GP)					C	D	HLTR 01
MT 211	HOLTER,SS MBR (MARIAS RIVER SH)							HLTR 02
KY 337	HOLTSCLAW,STS MBR (BORDEN FM)	U			40	NC	A	HLCL 04
NH 360	HOLTS LEDGE,GNEISS					WC	E	HLDG 07
MO 341	HOLTS SUMMIT,FM		SS,SH		3	C	C	HLSM 04
AZ 122	HOLY JOE,MBR (GALIURO VOLCS)	U	TF		90	SE	E	HLYJ 01
CT 231	HOLYOKE,BASALT (MERIDEN GP)							HLYK 06
CT 231	HOLYOKE,BASALT (NEWARK GP)	U						HLYK 01
MA 231	HOLYOKE,BASALT (NEWARK GP)	U			120	WC	A	HLYK 03
CT 231	HOLYOKE,LAVA MBR (MERIDEN FM)							HLYK 02
MA 231	HOLYOKE,LAVA MBR (MERIDEN FM)							HLYK 07
CA 211	HOLZ,SH MBR (LADD FM)	U			460	SE	C	HOLZ 01
TX 321	HOME CREEK,LS (CADDO CREEK GP)				15	C	A	HMCK 08
TX 321	HOME CREEK,LS (CANYON GP)							HMCK 14
TX 321	HOME CREEK,LS MBR (CADDO CREEK FM)	U						HMCK 09
CA 210	HOME GARDENS,QUARTZ MONZONITE PORPHYRY					SE	D	HMGD 01
OK 325	HOMER,LS MBR (HOLDENVILLE SH)				1	EC	A	HOMR 03
ID 217	HOMER,LS MBR (WAYAN FM)	U			150	SE	A	HOMR 01
CA 230	HOMER,QTZ (KAWEAH GP)				3100	C	C	HOMR 02
SD 430	HOMESTAKE,FM		SCH		21	SW	A	HMSK 03
UT 224	HOMESTAKE,LS				150	SW	A	HMSK 01
UT 224	HOMESTAKE,LS MBR (CARMEL FM)	U						HMSK 02
PA 324	HOMEWOOD,FM (POTTSVILLE GP)	U			47	WC	A	HMWD 06
PA 324	/HOMEWOOD,SS AND SH [MBR] (MERCER FM)							HMWD 08
WV 324	HOMEWOOD,SS [MBR] (KANAWHA FM)							HMWD 09
MD 324	HOMEWOOD,SS MBR (POTTSVILLE FM)	U						HMWD 02
OH 324	HOMEWOOD,SS MBR (POTTSVILLE FM)	U						HMWD 05
PA 324	HOMEWOOD,SS MBR (POTTSVILLE FM)	U						HMWD 11
WV 324	HOMEWOOD,SS MBR (POTTSVILLE FM)	U						HMWD 10

MS	122	HOMOCHITTO, MBR (PASCAGOULA FM)	U	SD, CL	77	SW	C	HMCT	01
VA	374	HONAKER, DOL	U		300	SW	A	HNKR	04
TN	374	HONAKER, DOL (CONASAUGA GP)	U					HNKR	02
VA	374	HONAKER, DOL (CONASAUGA GP)						HNKR	06
NC	374	HONAKER, LS						HNKR	01
VA	374	HONAKER, LS	U					HNKR	05
TN	374	HONAKER, LS (CONASAUGA GP)	U					HNKR	03
VA	374	HONAKER, LS (CONASAUGA GP)						HNKR	07
CO	321	HONAKER TRAIL, FM (HERMOSA GP)						HKTL	04
NM	321	HONAKER TRAIL, FM (HERMOSA GP)						HKTL	03
UT	321	HONAKER TRAIL, FM (HERMOSA GP)		LS	530	SE	C	HKTL	02
CA	221	HONDA, FM		SH	910	SC	C	HOND	01
NM	313	HONDO, SS MBR (SAN ANDRES LS)	U		15	SE	A	HOND	02
NY	347+	HONEOYE FALLS, FM		DOL	5	WC	E	HFLS	01
NY	351	HONEOYE FALLS, FM						HFLS	02
NY	341	HONESDALE, FM (WEST FALLS GP)						HSDL	21
PA	341	HONESDALE, SS MBR (CATSKILL FM)	U		35	NE	A	HSDL	19
UT	120	HONEYCOMB, BASALT				WC	D	HCMB	02
UT	104	/HONEY COMB, RHYOLITE			46	WC	D	HCMB	01
OK	371	HONEY CREEK, FM (TIMBERED HILLS GP)	U	LS	13	SC	A	HCRK	08
TX	367	HONEYCUT, FM (ELLENBURGER GP)	U	LS	210	C	C	HNCT	01
HI	112+	[HONOLUA, ANDESITE]			230	EC	C	HNLU	03
HI	121	[HONOLUA, ANDESITE]						HNLU	04
HI	112+	/HONOLUA, VOLC SER	U					HNLU	01
HI	121	/HONOLUA, VOLC SER	U					HNLU	02
HI	111+	[HONOLULU, GP]				NC	A	HNLL	04
HI	112	[HONOLULU, GP]						HNLL	05
HI	111+	/HONOLULU, VOLC SER	U					HNLL	02
HI	112	/HONOLULU, VOLC SER	U					HNLL	03
HI	101	[HONOMANU, BASALT]			290	EC	C	HNMN	02
HI	101	/HONOMANU, VOLC SER	U					HNMN	01
AK	340	HOOD BAY, FM	U	CH	910	SE	D	HDBY	01
AK	211	HOODOO, FM		STS	910	SC	D	HOOD	02
ID	420	HOODOO, QTZ	U		1100	C	A	HOOD	03
OR	121+	HOOD RIVER, CGL			91	NC	A	HDRV	01
WA	121+	HOOD RIVER, CGL						HDRV	03
OR	122	HOOD RIVER, CGL						HDRV	05
WA	122	HOOD RIVER, CGL						HDRV	07
OR	121+	HOOD RIVER, FM						HDRV	02
WA	121+	HOOD RIVER, FM						HDRV	04



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OR 122	HOOD RIVER,FM							HDRV 06
WA 122	HOOD RIVER,FM							HDRV 08
MO 364	HOOK,LS MBR (MACY FM)				17	SE	C	HOOK 01
VT 377	HOOKER,SLATE	U		BK		SW	A	HOKR 01
CA 112	HOOKTON,FM		GVL	YL	120	NW	C	HKTN 01
TX 125	HOOPER,CLAY MBR (ROCKDALE FM)					EC	C	HOPR 01
TX 125	HOOPER,FM (WILCOX GP)							HOPR 02
MA 377+	HOOSAC,FM				1200	NW	A	HOSC 02
VT 377+	HOOSAC,FM	U						HOSC 04
MA 400	HOOSAC,FM							HOSC 06
VT 400	HOOSAC,FM	U						HOSC 08
CT 377+	HOOSAC,SCHIST	U						HOSC 01
MA 377+	HOOSAC,SCHIST	U						HOSC 03
CT 400	HOOSAC,SCHIST	U						HOSC 05
MA 400	HOOSAC,SCHIST	U						HOSC 07
KS 317	HOOSER,SH MBR (BADER LS)	U			3	SE	A	HOSR 02
NE 317	HOOSER,SH MBR (BADER LS)							HOSR 04
ID 121+	HOOT NANNY,OLIVINE BASALT (REYNOLDS BASIN GP)				940	SW	E	HTNN 01
ID 122	HOOT NANNY,OLIVINE BASALT (REYNOLDS BASIN GP)							HTNN 02
CA 122	[HOOVER,CGL BED (SYCAMORE CANYON MBR OF PUENTE FM)]				230	SC	C	HOVR 01
CA 122	/HOOVER,CGL UNIT (SYCAMORE CANYON MBR OF PUENTE FM)							HOVR 03
CT 304+	HOPE VALLEY,ALASKITE GNEISS (STERLING GP)	U						HPVL 02
RI 304+	HOPE VALLEY,ALASKITE GNEISS (STERLING GP)	U				WC	C	HPVL 03
CT 330	HOPE VALLEY,ALASKITE GNEISS (STERLING GP)	U						HPVL 06
RI 330	HOPE VALLEY,ALASKITE GNEISS (STERLING GP)	U						HPVL 07
IA 354	HOPKINTON,DOL	U			67	EC	A	HPKN 01
WI 354	HOPKINTON,DOL	U						HPKN 03
MT 211	HOPPERS,FM (LIVINGSTON GP)	U	SS		290	SC	D	HPRS 01
MA 377	HOPPIN,SLATE	U			180	C	A	HPPN 02
MA 410	HOPPIN HILL,GRANITE					C	E	HPHL 08
PA 337	HOPWOOD,CGL				9	SW	C	HPWD 01
TX 318	HORDS CREEK,FM (ADMIRAL GP)				9	C	A	HDCK 03
TX 318	HORDS CREEK,LS MBR (ADMIRAL FM)	U						HDCK 04
CA 211	HORNBROOK,FM	U	SS		760	NW	C	HRBK 01
OR 211	HORNBROOK,FM	U						HRBK 02
CA 121	HORNED TOAD,FM	U	CL		320	SC	C	HOTD 01
MI 344	HORNER,MBR (LUCAS FM)		EVP		240	EC	E	HRNR 01
DE 125	HORNERSTOWN,FM							HRRS 08
NJ 125	HORNERSTOWN,FM				9	EC	C	HRRS 05
DE 125	HORNERSTOWN,SAND (RANCOCAS GP)	U						HRRS 03

MD	125	HORNERSTOWN,SAND (RANCOCAS GP)	U							HRRS	04	
NJ	125	HORNERSTOWN,SAND (RANCOCAS GP)	U							HRRS	06	
PA	125	HORNERSTOWN,SAND (RANCOCAS GP)	U							HRRS	07	
AK	227	HORN MOUNTAIN,TUFF MBR (TALKEETNA FM)	U					550	C	D	HRNM 01	
UT	324	HORN POINT,LS	U					14	SE	D	HRNP 01	
UT	123	HORN SILVER,ANDESITE	U					610	SW	D	HSLV 01	
CO	324	HORNSILVER,DOL MBR (MINTURN FM)	U					9	C	C	HRLV 01	
AZ	321+	HORQUILLA,LS (NACO GP)	U					300	SE	C	HRQL 01	
NM	321+	HORQUILLA,LS (NACO GP)	U								HRQL 05	
AZ	324	HORQUILLA,LS (NACO GP)	U								HRQL 02	
NM	324	HORQUILLA,LS (NACO GP)	U								HRQL 06	
NM	327	HORQUILLA,LS (NACO GP)	U								HRQL 03	
SC	112	HORRY,CLAY	U					1	EC	C	HRRY 01	
UT	124	HORSE BENCH,SS BED (GREEN RIVER FM)	U					17	EC	A	HRBC 01	
UT	124	HORSE BENCH,SS LENTIL (GREEN RIVER FM)	U								HRBC 02	
NC	410	HORSE BRANCH,MBR (AMMONS FM)			MSED			300	WC	E	HRBC 03	
NV	121+	HORSE CAMP,FM			BRC			3000	EC	D	HCMP 01	
NV	122	HORSE CAMP,FM									HCMP 02	
UT	400	HORSE CANYON,FM			SED			1700	NC	D	HRSC 01	
KY	333	HORSE CAVE,LS MBR (ST. LOUIS FM)									HRSC 02	
KY	333	HORSE CAVE,LS MBR (STE. GENEVIEVE FM)				WH		12	SC	E	HRCV 03	
WY	123	HORSE CREEK,RHYOLITE								NW	D	HRCK 04
NM	211	HORSEHEAD,TONGUE (MANCOS SH)						12	NW	C	HRSD 01	
NM	120	HORSE HILL,BRECCIA			VOL			46	SW	D	HRHL 01	
AZ	120+	HORSE MOUNTAIN,VOLCS	U					1200	SE	D	HRSM 01	
AZ	211	HORSE MOUNTAIN,VOLCS	U								HRSM 04	
WY	327+	HORSESHOE,SH MBR (AMSDEN FM)	U			RD		30	NC	D	HRSS 01	
WY	331	HORSESHOE,SH MBR (AMSDEN FM)	U								HRSS 02	
CA	220	HORSESHOE BAR,QUARTZ DIORITE								NW	C	HRBR 01
WA	217	[HORSESHOE BASIN,GP]								NC	E	HRSB 01
WA	217	/HORSESHOE BASIN,MAGMA SER										HRSB 02
CA	310	HORSESHOE BEND,FM										HRBD 02
MT	341	HORSESHOE HILLS,MBR (THREE FORKS FM)	U		MSED			300	NC	E	HRBL 02	
AZ	331	HORSESHOE MESA,MBR (REDWALL LS)	U		SH	GN		69	SC	D	HRHL 02	
UT	331	HORSESHOE MESA,MBR (REDWALL LS)	U					11	NC	D	HRSM 07	
UT	331	HORSESHOE MESA,MBR (REDWALL LS)	U								HRSM 08	
CO	367+	HORSESHOE MOUNTAIN,GP			SS			110	C	E	HRSM 10	
CO	371	HORSESHOE MOUNTAIN,GP									HRSM 11	
WA	217	/HORSESHOE MOUNTAIN,PORPHYRITIC LEUCO QUARTZ MONZONITE								NC	D	HRSM 03
WA	217	[HORSESHOE MOUNTAIN,QUARTZ MONZONITE (HORSESHOE BASIN GP)]									HRSM 12	
ND	112	HORSESHOE VALLEY,FM			ST,SD	YL		7	C	E	HRVL 16	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AZ	122+	HORSE SPRING, FM	U						HSPG 05
NV	122+	HORSE SPRING, FM	U	LS		850	SE	A	HSPG 06
AZ	123	HORSE SPRING, FM	U						HSPG 07
NV	123	HORSE SPRING, FM	U						HSPG 08
CO	123	HORSETAIL CREEK, MBR (WHITE RIVER FM)		CL		34	NE	A	HLCCK 04
CA	121	HORSETHIEF, FM							HRSF 02
MT	211	HORSETHIEF, SS (MONTANA GP)	U			110	NW	A	HRSF 04
CO	217	HORSETOOTH, MBR (MUDDY SS)				12	NC	D	HRST 01
CA	217	HORSETOWN, FM	U	STS		3800	NW	A	HRSN 06
UT	122	HORSE VALLEY, FM	U	VOL		350	SW	E	HRVL 25
IL	339	HORTON CREEK, MBR (HANNIBAL SH)		DOL		5	WC	E	HRCK 10
MO	339	HORTON CREEK, MBR (HANNIBAL SH)							HRCK 11
VT	364	HORTONVILLE, FM (TRENTO GP)				300	WC	A	HRVL 14
VT	364	HORTONVILLE, SLATE							HRVL 13
WI	430	HOSKIN LAKE, GRANITE					NE	D	HKLK 03
UT	237	HOSKINNINI, FM		SS, SH	RD	23	SE	A	HSKN 10
AZ	237	HOSKINNINI, MBR (MOENKOPI FM)	U						HSKN 02
CO	237	HOSKINNINI, MBR (MOENKOPI FM)	U						HSKN 05
UT	237	HOSKINNINI, MBR (MOENKOPI FM)	U						HSKN 08
AZ	237	HOSKINNINI, TONGUE (MOENKOPI FM)	U						HSKN 03
CO	237	HOSKINNINI, TONGUE (MOENKOPI FM)	U						HSKN 06
UT	237	HOSKINNINI, TONGUE (MOENKOPI FM)	U						HSKN 09
AZ	121	HOSPITAL, PORPHYRY				38	SC	C	HSPL 01
CA	231	HOSSELKUS, LS	U			43	NW	A	HSLK 01
AR	219	HOSSTON, FM	U						HSTN 04
LA	219	HOSSTON, FM	U	SH, DOL		610	NW	C	HSTN 05
MS	219	HOSSTON, FM							HSTN 06
TX	219	HOSSTON, FM	U						HSTN 07
LA	219	HOSSTON, FM (NUEVO LEON GP)							HSTN 09
TX	219	HOSSTON, FM (NUEVO LEON GP)							HSTN 18
NM	211	HOSTA, TONGUE (POINT LOOKOUT SS)	U			76	NW	A	HOST 01
OH	317	HOSTETTER, [MBR] (GREENE FM)		LS, CL			EC	C	HSTR 01
PA	364	HOSTLER, FM (HATTER GP)		TF		19	SC	C	HSLR 01
PA	364	HOSTLER, LS MBR (HATTER FM)							HSLR 02
AZ	420	HOTAUTA, CGL (UNKAR GP)	U			2	NC	A	HTUT 01
AZ	420	HOTAUTA, FM							HTUT 02
GA	410	HOTHOUSE, FM (GREAT SMOKY GP)		MET		3400	NW	C	HTHS 01
NC	410	HOTHOUSE, FM (GREAT SMOKY GP)							HTHS 02
TN	410	HOTHOUSE, FM (GREAT SMOKY GP)							HTHS 03
CO	324	HOT SPRINGS, CGL MBR (GOTHIC FM)				22	WC	E	HSPG 12

AR	331	HOT SPRINGS,SS	U		2	SW	A	HSPG	10		
AR	331	HOT SPRINGS,SS MBR (STANLEY SH)						HSPG	11		
KS	317	HOUCHEM CREEK,LS BED (HAMLIN MBR OF JANESVILLE SH)	U					HCKK	02		
NE	317	HOUCHEM CREEK,LS BED (HAMLIN MBR OF JANESVILLE SH)	U		2	SE	A	HCKK	04		
KS	317	HOUCHEM CREEK,LS MBR (HAMLIN SH)						HCKK	03		
IN	324	HOUCHEM CREEK,COAL MBR (PETERSBURG FM)			1	SW	E	HCKK	07		
AZ	430	HOUDEN,FM		QTZ	520	EC	C	HUDN	01		
MI	420	HOUGHTON,CGL [BED] (PORTAGE LAKE VOLCS)	U		8	NW	A	HGTN	01		
OK	323	HOUND DOG HOLLER,SS MBR (WANN FM)					NE	E	HDBG	01	
AK	231	HOUND ISLAND,VOLCS (HYD GP)	U		610	SE	D	HDI	01		
NY	364	HOUNSFIELD,BENTONITE [BED] (SELBY MBR OF ROCKLAND FM)			<1	NC	A	HFLD	13		
IA	364	HOUNSFIELD,BENTONITE [BED (SPECHTS FERRY MBR,DECORAH FM)]						HFLD	05		
WI	364	HOUNSFIELD,BENTONITE [BED (SPECHTS FERRY MBR,DECORAH FM)]						HFLD	17		
KY	364	HOUNSFIELD,BENTONITE [BED (TYRONE LS)]						HFLD	07		
NY	364	HOUNSFIELD,METABENTONITE [BED] (SELBY MBR OF ROCKLAND FM)						HFLD	14		
KY	364	HOUNSFIELD,METABENTONITE [BED (TYRONE LS)]						HFLD	08		
CT	400	HOUSATONIC HIGHLANDS,COMPLEX		GN			NW	E	HCHG	01	
NV	367	HOUSE,LS (POGONIP GP)	U					HOUS	01		
UT	367	HOUSE,LS (POGONIP GP)	U		140	WC	C	HOUS	02		
NY	364	HOUSE CREEK,MBR (LOWVILLE LS)			4	NC	E	HCRK	11		
NM	120	HOUSTON,ANDESITE	U		12	SW	A	HSTN	02		
TX	112	/HOUSTON,FM		SD	460	EC	A	HSTN	17		
TX	112	/HOUSTON,GP						HSTN	01		
PA	364	HOUSUM,MBR (MERCERSBURG FM)		LS	17	SC	B	HUSM	01		
IA	325	HOUX,BED (LITTLE OSAGE MBR OF FORT SCOTT LS)						HOUX	01		
KS	325	HOUX,BED (LITTLE OSAGE MBR OF FORT SCOTT LS)						HOUX	03		
MO	325	HOUX,BED (LITTLE OSAGE MBR OF FORT SCOTT LS)					<1	WC	C	HOUX	05
IA	325	HOUX,MBR (FORT SCOTT LS)						HOUX	02		
KS	325	HOUX,MBR (FORT SCOTT LS)						HOUX	04		
MO	325	HOUX,MBR (FORT SCOTT LS)						HOUX	06		
TX	337+	HOUY,FM	U	SH	5	C	C	HOUY	01		
TX	341	HOUY,FM	U					HOUY	02		
ME	350+	HOVEY,GP	U		6700	NE	D	HOVEY	02		
ME	360	HOVEY,GP	U					HOVEY	04		
MN	420	HOVLAND,DIABASE COMPLEX (KEWEENAWAN SUPERGROUP)			1500	NE	E	HVLD	01		
MN	420	/HOVLAND,LAVA (NORTH SHORE GP)						HVLD	02		
MO	322	HOWARD,FM (WABAUNSEE GP)						HWRD	04		
IA	322	HOWARD,LS (WABAUNSEE GP)	U					HWRD	02		
KS	322	HOWARD,LS (WABAUNSEE GP)	U		2	SE	A	HWRD	03		
MO	322	HOWARD,LS (WABAUNSEE GP)	U					HWRD	06		

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
NE 322	HOWARD,LS (WABAUNSEE GP)	U						HWRD 05
ME 347	HOWARD POND,MBR (LITTLETON FM)		SCH		180	SW	D	HDPD 01
IL 344	HOWARDTON,LS MBR (LINGLE FM)				10	SC	E	HRDN 04
KS 317	HOWE,MBR (RED EAGLE LS)	U						HOWE 01
NE 317	HOWE,MBR (RED EAGLE LS)	U			2	SE	A	HOWE 02
UT 374	HOWELL,FM				250	WC	C	HWLL 01
UT 374	HOWELL,LS	U						HWLL 02
NM 217	HOWELLS RIDGE,FM (BISBEE GP)	U	MS		1600	SW	C	HRDG 01
WA 121	HOWSON,ANDESITE	U			76	C	A	HWSN 01
OK 323	HOXBAR,FM	U	SS		1200	SC	A	HXBR 01
OK 323	HOXBAR,GP							HXBR 02
NY 371	HOYT,DOL	U			12	EC	A	HOYT 01
VT 371	HOYT,DOL	U						HOYT 04
NY 371	HOYT,DOL (SARATOGA SPRINGS GP)							HOYT 07
NY 371	HOYT,LS MBR (THERESA DOL)	U						HOYT 02
VT 371	HOYT,LS MBR (THERESA DOL)	U						HOYT 05
WA 120+	[HOZOMEEN,FM]		QTZ			NC	A	HZMN 05
WA 210	[HOZOMEEN,FM]							HZMN 06
WA 120+	/HOZOMEEN,GP							HZMN 02
WA 210	/HOZOMEEN,GP							HZMN 04
ND 125	HT BUTTE,BED (TONGUE RIVER FM)				5	SW	D	HTBT 01
ND 125	HT BUTTE,LIGNITE BED (SENTINEL BUTTE MBR OF FORT UNION FM)							HTBT 02
ND 125	HT BUTTE,LIGNITE BED (TONGUE RIVER MBR OF FORT UNION FM)							HTBT 03
AZ 220	HUACHUCA,QUARTZ MONZONITE	U					SE	D
HI 111+	[HUALALAI,BASALT]				150	SE	C	HULL 13
HI 112	[HUALALAI,BASALT]							HULL 14
HI 111+	/HUALALAI,VOLC SER	U						HULL 01
HI 112	/HUALALAI,VOLC SER	U						HULL 02
AZ 121	HUALAPAI,LS	U			61	NW	C	HULP 02
NV 121	HUALAPAI,LS	U						HULP 03
AZ 121	HUALAPAI,LS MBR (MUDDY CREEK FM)							HULP 05
NV 121	HUALAPAI,LS MBR (MUDDY CREEK FM)							HULP 06
CA 122	HUASNA,MBR (SANTA MARGARITA FM)				400	SC	D	HUSN 01
OR 124	HUBBARD CREEK,MBR (TYEE FM)		SS		120	SW	E	HBCK 03
NH 347	HUBBARD HILL,MBR (LITTLETON FM)		SCH		1800	SW	C	HBDH 01
MA 310	HUBBARDSTON,GRANITE						NC	A
VT 377	HUBBARDTON,SLATE	U		GN	91	WC	A	HBRD 04
CA 100	HUCKLEBERRY,ANDESITE						NW	A
OH 327	HUCKLEBERRY,CLAY BED (POTTSVILLE FM)				2	SE	A	HCKB 08
ID 420	HUCKLEBERRY,FM (WINDERMERE GP)	U						HCKB 10

WA	420	HUCKLEBERRY,FM (WINDERMERE GP)	U	CGL	1400	NE	D	HCKB	12
OR	112+	/HUCKLEBERRY,LAVA				SW	C	HCKB	02
OR	121	/HUCKLEBERRY,LAVA						HCKB	04
WA	124	HUCKLEBERRY MOUNTAIN,FM (KEECHELUS GP)		VOL	3400	NC	D	HKBM	01
ID	112	HUCKLEBERRY RIDGE,TUFF (YELLOWSTONE GP)	U					HKBR	01
MT	112	HUCKLEBERRY RIDGE,TUFF (YELLOWSTONE GP)	U					HKBR	02
WY	112	HUCKLEBERRY RIDGE,TUFF (YELLOWSTONE GP)	U		300	NW	E	HKBR	03
WI	371	HUDSON,MBR (FRANCONIA SS)			19	WC	A	HDSN	08
TX	321	HUDSON BRIDGE,CBED] (PALO PINTO LS)			2	NE	A	HDBG	03
NY	400	HUDSON HIGHLANDS,COMPLEX		GR		SE	C	HDHG	01
OR	211+	HUDSPETH,FM		MS	900	C	E	HDSP	02
OR	217	HUDSPETH,FM						HDSP	03
ID	317	HUDSPETH CUTOFF,SS			1100	SE	E	HPCF	01
NM	318+	HUECO,FM						HUCO	01
TX	318+	HUECO,FM			1500	WC	A	HUCO	03
NM	319	HUECO,FM						HUCO	05
TX	319	HUECO,FM						HUCO	07
NM	318+	HUECO,GP						HUCO	11
TX	318+	HUECO,GP						HUCO	09
NM	319	HUECO,GP						HUCO	12
TX	319	HUECO,GP						HUCO	10
NM	318+	HUECO,LS	U					HUCO	02
TX	318+	HUECO,LS	U					HUCO	04
NM	319	HUECO,LS	U					HUCO	06
TX	319	HUECO,LS	U					HUCO	08
NM	319	HUECO CANYON,FM (HUECO GP)						HCCN	01
TX	319	HUECO CANYON,FM (HUECO GP)		LS	190	WC	D	HCCN	02
TX	120	HUELSTER,FM (MCCUTCHEON GP)		TF	120	WC	C	HLSR	01
CO	211	HUERFANITO,BENTONITE BED (LEWIS SH)						HRFN	03
NM	211	HUERFANITO,BENTONITE BED (LEWIS SH)	U		4	NW	E	HRFN	04
CO	124	HUERFANO,FM	U	SH	610	SE	C	HRFN	01
CO	123	HUERTO,ANDESITE	U		610	SW	A	HURT	01
CO	123	HUERTO,FM	U					HURT	02
CO	123	HUERTO,QUARTZ LATITE	U					HURT	03
MT	211	HUFF,MBR (HELL CREEK FM)						HUFF	01
ND	211	HUFF,MBR (HELL CREEK FM)		SS	30	SC	E	HUFF	02
OK	317	HUGHES CREEK,SH (VANOSS GP)						HGCK	06
KS	317	HUGHES CREEK,SH MBR (FORAKER LS)	U					HGCK	03
NE	317	HUGHES CREEK,SH MBR (FORAKER LS)	U		15	SE	A	HGCK	05
OK	317	HUGHES CREEK,SH MBR (FORAKER LS)	U					HGCK	07

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
GA 410	HUGHES GAP,FM (GREAT SMOKY GP)		SCH		1800	NW	C	HGGP 01
NC 410	HUGHES GAP,FM (GREAT SMOKY GP)							HGGP 02
TN 410	HUGHES GAP,FM (GREAT SMOKY GP)							HGGP 03
MI 420	[HUGINNIN,BASALT PORPHYRY (PORTAGE LAKE VOLCS)]					NW	A	HGNN 01
MI 420	/HUGINNIN,FLOW (PORTAGE LAKE VOLCS)	U						HGNN 02
CA 112	HUICHICA,FM	U	SS,CGL		150	NW	C	HCHC 01
OK 323	HULAH,SS MBR (TALLANT FM)			YL	1	NE	A	HULH 01
WY 224	HULETT,SS MBR (RIERDON FM)				25	NE	C	HLTT 03
MT 224	HULETT,SS MBR (SUNDANCE FM)							HLTT 05
SD 224	HULETT,SS MBR (SUNDANCE FM)	U						HLTT 02
WY 224	HULETT,SS MBR (SUNDANCE FM)	U						HLTT 04
IL 112	HULICK,TILL MBR (GLASFORD FM)				30	WC	E	HLCK 01
CA 217	HULING,SS MBR (BUDDEN CANYON FM)		GYK		240	NW	C	HLNG 02
CA 217	HULING,TONGUE (ONO FM)							HLNG 01
CA 224	/HULL,AGGLOMERATE			GN	210	NW	A	HULL 06
CA 224	HULL,FM					NC	A	HULL 04
CA 224	HULL,META-ANDESITE	U						HULL 05
NV 121+	HUMBOLDT,FM	U	SS		91	NC	A	HMBD 02
NV 122	HUMBOLDT,FM	U						HMBD 03
UT 331	HUMBUG,FM	U	LS		76	C	A	HMBG 01
OR 217	HUMBUG MOUNTAIN,CGL (MYRTLE GP)	U			910	SW	D	HDBG 01
NY 341	HUME,SH (CANADAWAY GP)				21	WC	C	HUME 01
NY 341	HUME,SH MBR (CANADAWAY FM)							HUME 02
NY 341	HUME,SH MBR (PERRYSBURG FM)	U						HUME 03
NC 400	HUMPBACK,GNEISS					NW	C	HPBK 01
OH 317	HUNDRED,SS [MBR] (WASHINGTON FM)							HDRD 01
WV 317	HUNDRED,SS [MBR] (WASHINGTON FM)			RD	9	NC	A	HDRD 02
CA 104	[HUNEWILL,VOLCS]					C	D	HNLL 06
CA 104	/HUNEWILL,VOLC SER							HNLL 01
VT 371	HUNGERFORD,FM				120	NW	C	HGFD 01
VT 371	HUNGERFORD,SLATE (WOODS CORNERS GP)							HGFD 02
VT 371	HUNGERFORD,SLATE MBR (SWEETSBURG FM)							HGFD 03
PA 337	HUNGRY RUN,SS MBR (ORANGEVILLE SH)	U			4	NW	C	HGRR 01
CA 121	HUNGRY VALLEY,FM (RIDGE BASIN GP)		SS		1200	SC	C	HGVL 01
ID 317	HUNSAKER CREEK,FM (SEVEN DEVILS GP)							HKCK 06
OR 317	HUNSAKER CREEK,FM (SEVEN DEVILS GP)		VOL		3000	NE	D	HKCK 07
VA 331	HUNT,MBR (BLUESTONE FM)							HUNT 03
WV 331	HUNT,MBR (BLUESTONE FM)		SH,SS	RD,GN	15	SW	C	HUNT 05
CO 211	HUNT CREEK,SS [MBR] (MANCOS SH)				79	NW	C	HCRK 02
CA 122	[HUNTER,MBR (PUENTE FM)]				66	SE	C	HNTR 01





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
NC 410	HURRICANE,GRAYWACKE (OCOEE SUPERGROUP)					WC	C	HRCN 07
TN 410	HURRICANE,GRAYWACKE (OCOEE SUPERGROUP)							HRCN 08
TX 124	HURRICANE,LENTIL (LANDRUM MBR OF COOK MOUNTAIN FM)				8	EC	C	HRCN 05
TN 364	HURRICANE BRIDGE,LS	U						HCBG 01
VA 364	HURRICANE BRIDGE,LS	U			110	SW	C	HCBG 02
TN 364	HURRICANE BRIDGE,LS (CHICKAMAUGA GP)							HCBF 03
OR 227+	HURWAL,FM		ARG		460	NE	C	HRWL 03
OR 231	HURWAL,FM							HRWL 01
ID 231	HURWAL,FM (LUCILE GP)							HRWL 02
IA 323	HUSHPUCKNEY,SH MBR (SWOPE LS)							HPCK 06
KS 323	HUSHPUCKNEY,SH MBR (SWOPE LS)			BK	2	EC	A	HPCK 07
MO 323	HUSHPUCKNEY,SH MBR (SWOPE LS)							HPCK 08
CO 111	HUSTED,ALLUVIUM	U			7	C	D	HSTD 01
TX 212	HUTCHINS,MBR (AUSTIN CHALK)					EC	D	HCNS 03
KS 317	HUTCHINSON,SALT MBR (WELLINGTON FM)	U			8	C	A	HCNS 02
MT 124	HYALITE PEAK,VOLCS (WASHBURN GP)	U			850	SW	E	HLPK 01
CA 122	HYAMPOM,LAKE BEDS	U			76	NW	A	HMPM 01
NC 410	HYCO,QUARTZ PORPHYRY					SC	A	HYCO 01
VA 410	HYCO,QUARTZ PORPHYRY					SC	A	HYCO 02
AK 231	HYD,FM	U	CH,LS		520	SE	D	HYD 01
AK 231	HYD,GP	U						HYD 02
OR 227	HYDE,FM (MOWICH GP)		SS		300	C	C	HYDE 01
NY 400	HYDE,GRANITE					WC	A	HYDE 02
VT 364	HYDE MANOR,LS	U		BL		WC	A	HDMR 01
AK 210+	HYDER,QUARTZ MONZONITE	U				SE	A	HYDR 01
AK 220	HYDER,QUARTZ MONZONITE	U						HYDR 02
TX 400	HYE,GRANITE					C	C	HYE 01
CO 211	HYGIENE,SS MBR (PIERRE SH)	U			30	NC	A	HYGN 01
IN 324	HYMERA,COAL MBR (DUGGER FM)				3	WC	E	HYMR 01
ID 400	HYNDMAN,FM	U	QTZ		2000	SC	A	HNDM 01
ID 341+	HYRUM,DOL	U						HYRM 07
UT 341+	HYRUM,DOL			BK	370	NC	C	HYRM 02
ID 344	HYRUM,DOL	U						HYRM 08
UT 344	HYRUM,DOL							HYRM 05
UT 341+	HYRUM,DOL MBR (JEFFERSON FM)	U						HYRM 03
UT 344	HYRUM,DOL MBR (JEFFERSON FM)	U						HYRM 06
ID 341+	HYRUM,MBR (JEFFERSON DOL)	U						HYRM 01
ID 344	HYRUM,MBR (JEFFERSON DOL)	U						HYRM 04
WV 327	IAEGER,MBR (NEW RIVER FM)]				76	SW	A	IEGR 01
WV 327	IAEGER,SS (NEW RIVER FM)							IEGR 02



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT 211	ILES,FM (MESAVERDE GP)							ILES 02
NY 354	ILION,MBR (LOCKPORT FM)				18	C	C	ILON 01
NY 354	ILION,SH (LOCKPORT GP)							ILON 02
OR 123	ILLAHE,FM		SED		910	NW	A	ILLH 01
NV 124	ILLIPAH,FM		LS		460	EC	C	ILLP 01
CA 122	ILMON,BASALT				30	SC	C	ILMN 01
WY 211	ILO RIDGE,MBR (LANCE FM)		SS		550	NW	A	IRDG 01
AK 110+	ILYIRAK,GRAVEL	U			6	NC	D	ILRK 01
AK 120	ILYIRAK,GRAVEL	U						ILRK 02
CA 121+	IMPERIAL,FM	U	STS		640	SE	A	IMPL 01
CA 122	IMPERIAL,FM	U						IMPL 02
AK 101+	IMURUK,VOLCS	U			100	NC	D	IMRK 02
AK 112	IMURUK,VOLCS	U						IMRK 01
CA 210+	INCONSOLABLE,GRANITE	U				C	D	I CLB 01
CA 220	INCONSOLABLE,GRANITE	U						I CLB 02
CA 124	INDART,SS					WC	C	INDR 01
IA 341	INDEPENDENCE,SH	U			8	NE	A	IDPC 02
MN 112	/INDEPENDENCE,TILL					NE	E	IDPC 01
WA 220	INDEX,GRANODIORITE					C	A	INDX 01
TN 324	INDIAN BLUFF,FM		SS		140	NE	C	IDBF 02
TN 324	INDIAN BLUFF,GP							IDBF 01
NV 311	INDIAN CANYON,FM (PARK CITY GP)		DOL		190	NE	D	INDC 01
UT 311	INDIAN CANYON,FM (PARK CITY GP)							INDC 02
MO 317	INDIAN CAVE,SS							IDCV 03
KS 317	INDIAN CAVE,SS BED (TOWLE MBR OF ONAGA SH)	U						IDCV 01
NE 317	INDIAN CAVE,SS BED (TOWLE MBR OF ONAGA SH)	U			61	SE	A	IDCV 02
WA 120	INDIAN CREEK,AMPHIBOLITE					SC	E	IDCK 02
ID 317	INDIAN FORK,MBR (WELLS FM)		LS		850	SC	C	IDFK 01
TN 324	INDIAN FORK,SS (INDIAN BLUFF GP)				18	NE	C	IDFK 02
TN 324	INDIAN FORK,SS MBR (INDIAN BLUFF FM)							IDFK 03
CA 200	INDIAN GULCH,FM		AGL		1100	C	A	IDGC 01
NY 361	INDIAN LADDER,FM	U			91	C	A	IDLD 02
NY 361	INDIAN LADDER,SH							IDLD 01
NV 112	INDIAN LAKES,FM (LAHONTAN VALLEY GP)	U	ALV		5	WC	D	IDLK 01
WY 124	INDIAN MEADOWS,FM	U	CL		300	NW	C	IDMD 01
VA 331	[INDIAN MILLS,MBR (BLUEFIELD FM)]							IDML 04
WV 331	[INDIAN MILLS,MBR (BLUEFIELD FM)]							IDML 06
VA 331	INDIAN MILLS,SH MBR (BLUEFIELD FM)							IDML 05
WV 331	INDIAN MILLS,SH MBR (BLUEFIELD FM)				21	SC	A	IDML 02
VA 331	/INDIAN MILLS,SS MBR (BLUEFIELD FM)	U						IDML 01

WV	331	/INDIAN MILLS,SS MBR (BLUEFIELD FM)	U			30	SC	A	IDML	03
CA	210	INDIAN MOUNTAIN,LEUCOGRANODIORITE	U				SE	C	INDM	01
UT	211	INDIANOLA,GP	U	CGL		4500	C	C	INDL	01
UT	123	INDIAN PEAK,FM		VOL		180	SW	E	IDPK	01
NY	364	INDIAN RIVER,FM			RD		EC	A	IDRV	01
VT	364	INDIAN RIVER,FM (MOUNT HAMILTON GP)							IDRV	03
NY	364	INDIAN RIVER,MBR (NORMANSKILL SH)							IDRV	07
VT	364	INDIAN RIVER,MBR (NORMANSKILL SH)							IDRV	06
NY	364	INDIAN RIVER,SLATE	U						IDRV	02
VT	364	INDIAN RIVER,SLATE (MOUNT HAMILTON GP)	U						IDRV	04
MD	351	INDIAN SPRING,RED BEDS (TONOLOWAY LS)				2	NW	A	ISPG	06
MD	351	INDIAN SPRING,SS [BED] (TONOLOWAY LS)							ISPG	07
NV	331	INDIAN SPRINGS,FM		SH	RD	210	SE	A	ISPG	09
NV	331	INDIAN SPRINGS,MBR (BIRD SPRING FM)							ISPG	04
IN	332	INDIAN SPRINGS,SH [MBR] (GOLCONDA FM)				6	SC	A	ISPG	05
NV	122	INDIAN TRAIL,FM	U	TF			SE	D	IDTL	03
TX	124+	INDIO,FM (WILCOX GP)	U	SD		210	SC	A	INDO	01
TX	125	INDIO,FM (WILCOX GP)	U						INDO	02
CA	123	INGALLS,FM		VOL		170	NC	C	IGLS	01
WA	200+	INGALLS,PERIDOTITE					NW	C	IGLS	03
WA	300	INGALLS,PERIDOTITE							IGLS	04
OR	231	INGLE,TUFF TONGUE (LAYCOCK GRAYWACKE)	U			910	EC	D	INGL	01
IL	323	INGLEFIELD,SS MBR (MODESTO FM)							IGFD	02
IN	321	INGLEFIELD,SS MBR (PATOKA FM)				6	SW	A	IGFD	01
CO	317	INGLESIDE,FM	U	LS		76	NC	A	IGLD	02
WY	317	INGLESIDE,FM	U						IGLD	03
TX	112	INGLESIDE,LENS (BEAUMONT FM)				3	SE	C	IGLD	01
FL	124	INGLIS,FM (OCALA GP)		LS		16	NC	C	IGLS	02
ID	410	INKOM,FM		PHL		300	SE	E	INKM	01
UT	410	INKOM,FM (BRIGHAM GP)	U						INKM	02
AK	112	INMACHUK,FM		SD		2	NC	E	IMCK	01
GA	361	INMAN,FM							INMN	02
TN	361	INMAN,FM		SH		21	SC	C	INMN	01
OK	325	INOLA,LS MBR (BOGGY SH)	U			<1	NE	A	INOL	01
NV	330	INSKIP,FM	U	QTZ		2700	NC	C	ISKP	01
MT	354	INTERLAKE,FM		LS		240	CAN	B	IRLK	07
ND	354	INTERLAKE,FM							IRLK	06
SD	354	INTERLAKE,FM							IRLK	05
WY	354	INTERLAKE,FM							IRLK	08
NH	350	INTERVALE,CLAY SLATE					EC	A	IRVL	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OR 112	INTRACANYON,BASALT					C	C	INRC 01
CT 307	INWOOD,LS	U						INWD 02
NY 307	INWOOD,LS	U			240	SE	A	INWD 08
NY 307	INWOOD,MARBLE	U						INWD 10
CT 307	INWOOD,MARBLE (NEW YORK CITY GP)							INWD 03
NY 307	INWOOD,MARBLE (NEW YORK CITY GP)							INWD 09
MT 217	INYAN KARA,GP							INKR 01
SD 217	INYAN KARA,GP	U						INKR 02
WY 217	INYAN KARA,GP	U	SS		110	NE	A	INKR 03
CA 221	INYO,GRANITE					EC	A	INYO 01
ID 420	INYO CREEK,FM (LEMHI GP)	U	QTZ		220	C	E	ICRK 01
IA 323	IOLA,LS (KANSAS CITY GP)	U						IOLA 01
KS 323	IOLA,LS (KANSAS CITY GP)	U			12	SE	A	IOLA 02
MO 323	IOLA,LS (KANSAS CITY GP)	U						IOLA 03
NE 323	IOLA,LS (KANSAS CITY GP)	U						IOLA 05
OK 323	IOLA,LS (OCHELATA GP)	U						IOLA 06
IA 364	ION,DOL MBR (DECORAH FM)	U			5	NE	A	ION 01
WI 364	ION,DOL MBR (DECORAH FM)	U						ION 04
IL 364	ION,DOL MBR (DECORAH FM)	U						ION 02
CA 124	IONE,FM	U	CL		490	C	A	IONE 01
MI 324	IONIA,SS MBR (GRAND RIVER FM)			VAR	37	SC	C	IONI 01
MI 324	IONIA,SS MBR (SAGINAW FM)	U						IONI 02
IA 339	IOWA FALLS,DOL MBR (HAMPTON FM)				15	NC	A	IFLS 02
CO 125+	IOWA GULCH,PORPHYRY	U				C	C	IGLC 01
CO 211	IOWA GULCH,PORPHYRY	U						IGLC 02
MO 322	IOWA POINT,MBR (CALHOUN SH)							IPNT 07
MO 322	IOWA POINT,SH MBR (TOPEKA FM)	U						IPNT 08
IA 322	IOWA POINT,SH MBR (TOPEKA LS)	U						IPNT 04
KS 322	IOWA POINT,SH MBR (TOPEKA LS)	U			3	NE	A	IPNT 06
NE 322	IOWA POINT,SH MBR (TOPEKA LS)	U						IPNT 10
KS 112	/IOWA POINT,TILL				2	NE	D	IPNT 01
NE 112	/IOWA POINT,TILL							IPNT 02
VT 364	IRA,FM	U	SL		240	WC	A	IRA 01
VT 351	IRASBURG,CGL MBR (WAITS RIVER FM)	U				CAN	A	IRBG 03
VT 340	/IRASBURG,GRANITE					NC	A	IRBG 01
KS 322	IRELAND,FM				9	SE	A	IRLD 01
KS 322	IRELAND,SS MBR (LAWRENCE FM)							IRLD 03
KS 322	IRELAND,SS MBR (LAWRENCE SH)	U						IRLD 02
ME 347+	IRESON,FELSITE					SC	C	IRSN 01
ME 351	IRESON,FELSITE							IRSN 02

OR	112	IRISH BEND,MBR (WILLAMETTE SILT)					4	WC	E	IRBD	01
SD	430	IRISH GULCH,SLATE	U					WC	E	IGLC	03
PA	341	IRISH VALLEY,MBR (CATSKILL FM)	U	SS	VAR	610		EC	D	IRVL	01
ID	324	IRON BOG CREEK,FM (COPPER BASIN GP)		SH	BK	460		SC	E	IBCK	01
NY	354	IRONDEQUOIT,LS (CLINTON GP)	U			5		WC	A	IRDQ	01
CO	370	IRON HILL,COMPLEX		IG				SW	E	IRHL	07
WI	210	IRON HILL,MBR (WINDROW FM)								IRHL	03
IA	211+	IRON HILL,MBR (WINDROW FM)		SED		5		NE	C	IRHL	01
MN	211+	IRON HILL,MBR (WINDROW FM)								IRHL	02
IA	217	IRON HILL,MBR (WINDROW FM)								IRHL	09
MN	217	IRON HILL,MBR (WINDROW FM)								IRHL	08
AZ	430	IRON KING,VOLCS (BIG BUG GP)	U			1700		C	C	IRKG	01
ND	211	IRON LIGHTNING,MBR (FOX HILLS FM)								ILGG	02
SD	211	IRON LIGHTNING,MBR (FOX HILLS FM)		CL		52		C	E	ILGG	01
ID	331	IRON MINE,MBR (MULDOON FM)		CL		1100		SC	C	IRNM	04
MO	400	IRON MOUNTAIN,PORPHYRY	U			91		SE	A	IRNM	07
CO	123	IRON MOUNTAIN,RHYOLITE (SPECIMEN MOUNTAIN GP)						NC	D	IRNM	02
CA	344	/IRONSIDE,DOL MBR (SULTAN LS)								IRSD	04
NV	344	/IRONSIDE,DOL MBR (SULTAN LS)	U			38		SE	A	IRSD	05
OR	121	IRONSIDE,FM		SH		60		SE	A	IRSD	06
UT	211	IRON SPRINGS,FM	U	SED		1500		SW	C	ISPG	03
MO	400	/IRONTON,GRANITE						SE	C	IRNN	09
WI	371	IRONTON,MBR (FRANCONIA SS)	U					SC	C	IRNN	07
WI	371	IRONTON,MBR (WONEWOC FM)								IRNN	10
IL	371	IRONTON,SS								IRNN	04
MN	371	IRONTON,SS	U							IRNN	06
WI	371	IRONTON,SS								IRNN	08
NV	122	IRONTOWN,MBR (PAGE RANCH FM)								IRNN	11
UT	122	IRONTOWN,MBR (PAGE RANCH FM)		CGL				SW	C	IRNN	01
MI	430	IRONWOOD,IRON-FORMATION (MENOMINEE GP)	U			260		NW	A	IRND	01
WI	430	IRONWOOD,IRON-FORMATION (MENOMINEE GP)	U							IRND	02
MI	420	[IROQUOIS,BASALT (PORTAGE LAKE VOLCS)]						NW	C	IRGS	02
MI	420	/IROQUOIS,FLOW (PORTAGE LAKE VOLCS)	U							IRGS	01
KY	112+	IRVINE,FM	U	SD				C	A	IRVN	01
KY	121	IRVINE,FM	U							IRVN	02
CA	124	IRVINE,SH [MBR] (SANTIAGO FM)						SC	C	IRVN	03
CO	430	IRVING,FM	U	GNS	GN	3100		SW	A	IRVG	03
NY	400	IRVING POND,FM		QTZ	WH	610		EC	E	IVGP	01
CA	112	IRVINGTON,GRAVEL						NW	C	IRVG	02
GA	124	IRWINTON,SAND				15		C	C	IRNN	12

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
GA 124	IRWINTON,SAND MBR (BARNWELL FM)	U						IRNN 03
IL 325	ISABEL,SS MBR (SPOON FM)				3	C	C	ISBL 03
CA 211	ISABELLA,GRANODIORITE					SC	A	ISBL 01
MI 430	/ISHPEMING,BASIC VOLCS					NW	C	IPMG 01
MI 430	[ISHPEMING,VOLCS]							IPMG 02
MO 323	ISLAND CREEK,SH MBR (WYANDOTTE FM)							IDCK 09
IA 323	ISLAND CREEK,SH MBR (WYANDOTTE LS)	U						IDCK 04
KS 323	ISLAND CREEK,SH MBR (WYANDOTTE LS)	U			4	NE	A	IDCK 05
NE 323	ISLAND CREEK,SH MBR (WYANDOTTE LS)	U						IDCK 06
MS 347	ISLAND HILL,FM		LS		1	NE	A	ILDH 01
MI 420	ISLAND MINE,CGL BED (PORTAGE LAKE VOLCS)	U				NC	A	ILDM 03
NH 340	ISLAND POND,DIORITE (HILLSBORO GP)					SE	E	IDPD 02
NH 340	ISLAND POND,QUARTZ MONZONITE (HILLSBORO GP)							IDPD 03
MN 430	ISLE,QUARTZ MONZONITE						C	D ISLE 01
NY 364	ISLE LA MOTTE,LS (BLACK RIVER GP)							ISLM 03
VT 364	ISLE LA MOTTE,LS (BLACK RIVER GP)			BK	4	NW	A	ISLM 06
MI 420	[ISLE ROYALE,BASALT (PORTAGE LAKE VOLCS)]					NC	A	ILRL 02
MI 420	/ISLE ROYALE,FLOW (PORTAGE LAKE VOLCS)	U						ILRL 01
ME 360+	ISLESBORO,FM	U	MSED		150	SC	A	ILBR 02
ME 370	ISLESBORO,FM	U						ILBR 01
UT 123	ISOM,FM	U	VOL		10	SW	C	ISOM 02
CO 123	[ITALIAN MOUNTAIN,COMPLEX]		QZD			WC	E	ILNM 02
CO 123	/ITALIAN MOUNTAIN,INTRUSIVE COMPLEX	U						ILNM 01
NV 123	ITALIAN SPRINGS,FM		VOL		1500	C	E	ISPG 02
NY 341	ITHACA,FM (GENESEE GP)		SH		130	WC	A	ITHC 02
NY 341	ITHACA,MBR (GENESEE FM)	U						ITHC 01
AZ 200	ITHACA PEAK,GRANITE				1500	NW	C	ICPK 01
AZ 200	ITHACA PEAK,PORPHYRY	U						ICPK 02
AK 331	ITKILYARIAK,FM (ENDICOTT GP)		SS,SH	RD	150	NE	E	IKLK 01
MS 337	IUKA,FM		CH			NE	A	IUKA 01
MI 344	IUTZI,MBR (LUCAS FM)		ANH		48	EC	E	IUTZ 01
TX 321	IVAN,LS (GRAHAM GP)				2	NC	A	IVAN 01
TX 321	IVAN,LS MBR (GRAHAM FM)	U						IVAN 02
TX 321	IVAN,LS MBR (THRIFTY FM)							IVAN 03
VA 377	IVANHOE,LS MBR (ROME FM)	U			180	SW	A	IVNH 01
VA 377	IVANHOE,LS MBR (SHADY DOL)	U						IVNH 02
CA 122+	IVERSEN,BASALT				240	NW	C	IVRS 01
CA 123	IVERSEN,BASALT							IVRS 02
TX 341	IVES,BRECCIA				4	C	C	IVES 01
TX 341	IVES,BRECCIA MBR (HOUY FM)	U						IVES 02





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NJ 364	JACKSONBURG,LS	U			46	NC	A	JKBG 01
PA 364	JACKSONBURG,LS	U						JKBG 02
KS 322	JACKSON PARK,MBR (KANWAKA SH)	U			16	NE	A	JKPK 03
MO 322	JACKSON PARK,MBR (KANWAKA SH)							JKPK 06
NE 322	JACKSON PARK,MBR (KANWAKA SH)	U						JKPK 03
AL 304	[JACKSONS GAP,FM]		PHL			EC	E	JKGP 04
GA 304	[JACKSONS GAP,FM]							JKGP 04
AL 304	/JACKSONS GAP,GP							JKGP 01
GA 304	/JACKSONS GAP,GP							JKGP 02
NY 420	JACKSON SUMMIT,FM		GN		900	EC	E	JKSM 01
NV 361	JACKS PEAK,FM (VALMY GP)		CH,QTZ		150	NE	D	JKPK 05
UT 350	JACK VALLEY,FM		DOL	BK	76	WC	C	JCKV 02
MA 112	JACOB,SAND	U						JCOB 01
NY 112	JACOB,SAND	U			12	SE	A	JCOB 02
RI 112	JACOB,SAND	U						JCOB 03
IN 339	JACOBS CHAPEL,BED (CLEGG CREEK MBR OF NEW ALBANY SH)			GN	<1	SE	C	JBCP 01
AZ 211	JACOBS RANCH,FM	U	CST		87	NW	E	JCBR 01
MI 420	JACOBSVILLE,FM				460	NW	A	JCBV 03
MI 420	JACOBSVILLE,SS	U						JCBV 04
CO 324	JACQUE MOUNTAIN,LS MBR (BATTLE MOUNTAIN FM)				8	WC	A	JCQM 01
CO 324	JACQUE MOUNTAIN,LS MBR (MINTURN FM)	U						JCQM 02
CA 122	JACUMBA,VOLCS				91	SE	A	JCMB 01
TX 318	JAGGER BEND,LS (BELLE PLAINS GP)				23	C	A	JGBD 01
TX 318	JAGGER BEND,LS MBR (BELLE PLAINS FM)	U						JGBD 02
IL 325	JAKE CREEK,SS MBR (CARBONDALE FM)				5	WC	C	JKCK 05
CA 211	JALAMA,FM		SH,SS		870	SC	C	JALM 01
NC 112	JALUCO,FM							JLUC 01
SC 112	JALUCO,FM		SD		16	EC	E	JLUC 02
MA 112	JAMECO,FM	U						JMCO 01
RI 112	JAMECO,FM	U						JMCO 05
MA 112	JAMECO,GRAVEL	U						JMCO 02
NY 112	JAMECO,GRAVEL	U			30	SE	A	JMCO 04
RI 112	JAMECO,GRAVEL	U						JMCO 06
MS 218	JAMES,LS	U						JMES 11
AR 218	JAMES,LS (TRINITY GP)	U						JMES 01
LA 218	JAMES,LS (TRINITY GP)	U			27	NW	C	JMES 02
TX 218	JAMES,LS (TRINITY GP)	U						JMES 03
TX 218	JAMES,LS BED (PINE ISLAND MBR OF GLEN ROSE FM)							JMES 04
TX 218	JAMES,LS MBR (PEARSALL FM)							JMES 05
NC 112+	JAMES CITY,FM		CL,SD		2	EC	D	JMSC 02

NC	121	JAMES CITY,FM								JMSC	01		
CA	124	JAMESON,SH MBR (MARKLEY SS)								JMSN	01		
VA	307	JAMES RUN,FM			U			370	WC	C	JMSR	06	
MD	307	JAMES RUN,FM (GLENARM GP)			U	GN				NE	D	JMSR	04
IL	325	JAMESTOWN,COAL MBR (CARBONDALE FM)						<1	SC	C	JMSN	02	
NY	347	JAMESVILLE,LS (HELDERBERG GP)						6	C	A	JMVL	03	
NY	347	JAMESVILLE,MBR (MANLIUS LS)			U						JMVL	04	
PA	321	JANE LEW,SS [MBR] (CONEMAUGH FM)									JNLW	01	
WV	321	JANE LEW,SS [MBR] (GLENSHAW FM)						5	C	A	JNLW	03	
WI	112	JANESVILLE,GRAVEL						8	SC	E	JSVL	01	
NE	317	JANESVILLE,SH			U						JSVL	09	
KS	317	JANESVILLE,SH (ADMIRE GP)			U			23	EC	C	JSVL	04	
WI	112	JANESVILLE,TILL									JSVL	02	
NV	374	JANGLE,LS						84	SC	C	JNGL	01	
NV	374	JANGLE,LS MBR (CARRARA FM)			U						JNGL	02	
KS	211	JANSSEN,CLAY MBR (DAKOTA FM)			U			9	C	C	JNSN	03	
NV	122	JARBIDGE,RHYOLITE						610	NE	C	JBDG	01	
MT	400	JARDINE,BASALT								SC	C	JRDN	11
NM	121+	JARITA,BASALT MBR (LOS PINOS FM)						15	NC	C	JRIT	01	
NM	122	JARITA,BASALT MBR (LOS PINOS FM)									JRIT	02	
AK	111	JARVIS,ASH BED (ENGINEER LOESS)			U			<1	C	D	JRV5	01	
OK	317	JARVIS CHURCH,CGL MBR (KONAWA FM)						3	EC	C	JVCC	01	
AR	364	JASPER,MBR (EVERTON FM)			U	LS		15	NW	A	JSPR	01	
TX	321	JASPER CREEK,SH [MBR] (GRAFORD FM)						91	NC	A	JPK	02	
NY	341	JAVA,FM			U	SH,SS		34	WC	C	JAVA	01	
PA	341	JAVA,FM			U						JAVA	04	
NY	341	JAVA,FM (WEST FALLS GP)									JAVA	05	
NY	341	JAVA,GP									JAVA	03	
PA	341	JAVA,GP									JAVA	02	
TX	212	JAVELINA,FM (TORNILLO GP)						160	SW	D	JVLN	02	
NM	400	JAWBONE,CGL MBR (KIAWA MOUNTAIN FM)						610	NC	C	JWBN	01	
ME	340	JAY,GRANITE								SW	D	JAY	01
VT	377	JAY PEAK,FM (CAMELS HUMP GP)			U	SCH		800	NC	D	JYPK	01	
VT	377	JAY PEAK,MBR (UNDERHILL FM)									JYPK	02	
NY	400	JAYVILLE,GRANITE (DIANA COMPLEX)								NC	C	JVLL	01
AZ	112	JEDDITO,FM				SD		3	NE	C	JDDT	01	
TX	123+	JEFF,CGL (VIEJA GP)						8	SW	C	JEFF	01	
TX	124	JEFF,CGL (VIEJA GP)									JEFF	03	
TX	123+	JEFF,CGL MBR (HUELSTER FM)									JEFF	02	
TX	124	JEFF,CGL MBR (HUELSTER FM)									JEFF	04	

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
GA	400	JEFF DAVIS, GRANITE					WC	C	JFDV 01
ID	341+	JEFFERSON, DOL	U						JFRS 01
MT	341+	JEFFERSON, DOL	U			190	SC	A	JFRS 04
UT	341+	JEFFERSON, DOL	U						JFRS 10
WY	341+	JEFFERSON, DOL	U						JFRS 13
ID	344	JEFFERSON, DOL	U						JFRS 16
MT	344	JEFFERSON, DOL	U						JFRS 19
UT	344	JEFFERSON, DOL	U						JFRS 25
WY	344	JEFFERSON, DOL	U						JFRS 28
ID	341+	JEFFERSON, FM	U						JFRS 02
MT	341+	JEFFERSON, FM	U						JFRS 05
UT	341+	JEFFERSON, FM	U						JFRS 11
WY	341+	JEFFERSON, FM	U						JFRS 14
ID	344	JEFFERSON, FM	U						JFRS 17
MT	344	JEFFERSON, FM	U						JFRS 20
UT	344	JEFFERSON, FM	U						JFRS 26
WY	344	JEFFERSON, FM	U						JFRS 29
MT	341+	JEFFERSON, GP	U						JFRS 06
ND	341+	JEFFERSON, GP	U						JFRS 08
SD	341+	JEFFERSON, GP	U						JFRS 09
MT	344	JEFFERSON, GP	U						JFRS 21
ND	344	JEFFERSON, GP	U						JFRS 23
SD	344	JEFFERSON, GP	U						JFRS 24
ID	341+	JEFFERSON, LS	U						JFRS 03
MT	341+	JEFFERSON, LS	U						JFRS 07
UT	341+	JEFFERSON, LS	U						JFRS 12
WY	341+	JEFFERSON, LS	U						JFRS 15
ID	344	JEFFERSON, LS	U						JFRS 18
MT	344	JEFFERSON, LS	U						JFRS 22
UT	344	JEFFERSON, LS	U						JFRS 27
WY	344	JEFFERSON, LS	U						JFRS 30
AR	367	JEFFERSON CITY, DOL	U						JFRC 01
MO	367	JEFFERSON CITY, DOL	U			53	C	A	JFRC 05
KS	367	JEFFERSON CITY, DOL (ARBUCKLE GP)	U						JFRC 04
OK	367	JEFFERSON CITY, DOL (ARBUCKLE GP)	U						JFRC 08
MO	367	JEFFERSON CITY, FM	U						JFRC 06
OK	367	JEFFERSON CITY, FM (ARBUCKLE GP)	U						JFRC 09
MO	367	JEFFERSON CITY, GP	U						JFRC 07
IN	344+	JEFFERSONVILLE, LS	U			6	SE	A	JFVL 05
KY	344+	JEFFERSONVILLE, LS	U						JFVL 02

IN	347	JEFFERSONVILLE,LS	U							JFVL	03	
KY	347	JEFFERSONVILLE,LS	U							JFVL	04	
IN	344+	JEFFERSONVILLE,LS (MUSCATATUCK GP)								JFVL	01	
IN	347	JEFFERSONVILLE,LS (MUSCATATUCK GP)								JFVL	06	
OH	112	JELLOWAY,TILL				2		C	E	JLLY	02	
CO	231	JELM,FM	U							JELM	01	
WY	231	JELM,FM (CHUGWATER GP)	U	CGL		61		SE	A	JELM	02	
NM	321	JEMEZ SPRINGS,SH MBR (MADERA FM)				12		NC	D	JZSP	01	
AL	347	JEMISON,CHERT	U			150		C	A	JMSN	04	
AL	347	JEMISON,CHERT (TALLADEGA GP)								JMSN	05	
NV	330	JENKINS PEAK,FM		CGL,QTZ				NE	D	JKPK	02	
NH	347	JENNESS POND,MBR (LITTLETON FM)		SCH					C	JSPD	01	
MD	341	JENNINGS,FM	U							JNGS	01	
PA	341	JENNINGS,FM								JNGS	02	
VA	341	JENNINGS,FM	U	SH		970		C	A	JNGS	03	
ID	122	JENNY CREEK,FM (IDAVADA VOLCS)								JCRK	03	
NV	122	JENNY CREEK,FM (IDAVADA VOLCS)				100		NE	D	JCRK	05	
ID	122	JENNY CREEK,TUFF	U							JCRK	04	
NV	122	JENNY CREEK,TUFF	U							JCRK	06	
MT	211	JENS,FM (COLORADO GP)		SH,STS		460		WC	D	JENS	01	
NM	122	JERKY MOUNTAINS,RHYOLITE						SW	E	JRKM	02	
AZ	341	JEROME,MBR (MARTIN FM)	U	SS		150		C	A	JROM	01	
PA	347	JERSEY SHORE,MBR (KEYSER LS)				11		C	E	JRSR	02	
VA	347	JERSEY SHORE,MBR (KEYSER LS)								JRSR	03	
WV	347	JERSEY SHORE,MBR (KEYSER LS)								JRSR	01	
KY	324	JESSE,SS MBR (CATRON FM)	U			21		SE	A	JESS	01	
TN	324	JESSE,SS MBR (CATRON FM)	U							JESS	02	
VA	324	JESSE,SS MBR (CATRON FM)	U							JESS	03	
IN	112	JESSUP,FM		TL				WC	C	JSSP	01	
OK	317	JESTER,DOL MBR (BLAINE FM)				1		C	A	JSTR	01	
KS	211	JETMORE,CHALK MBR (GREENHORN LS)	U			6		WC	A	JTMR	01	
MT	440	JEWEL,QTZ (NORTH SNOWY GP)			GN	60		SC	E	JEWL	01	
ME	304+	JEWELL,FM (CASCO BAY GP)	U	PHL		150		SW	A	JWLL	01	
ME	307	JEWELL,FM (CASCO BAY GP)	U							JWLL	02	
CA	122	JEWETT,SAND	U			200		SC	A	JWTT	01	
NM	104+	JICARILLA,MONZONITE							C	D	JCRL	01
NM	107	JICARILLA,MONZONITE								JCRL	02	
IA	322	JIM CREEK,LS (WABAUNSEE GP)								JMCK	01	
OK	322	JIM CREEK,LS (WABAUNSEE GP)								JMCK	06	
IA	322	JIM CREEK,LS MBR (ROOT SH)								JMCK	09	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
KS 322	JIM CREEK,LS MBR (ROOT SH)	U			2	NE A	JMCK 03
NE 322	JIM CREEK,LS MBR (ROOT SH)	U					JMCK 07
WY 124	JIM MOUNTAIN,MBR (WAPITI FM)	U	VOL		300	NW E	JMMN 01
TX 318	JIM NED,SH (BELLE PLAINS GP)				38	C C	JMND 01
TX 318	JIM NED,SH MBR (BELLE PLAINS FM)	U					JMND 02
AR 364	JOACHIM,DOL	U					JCHM 01
IN 364	JOACHIM,DOL						JCHM 04
MO 364	JOACHIM,DOL	U			30	EC A	JCHM 06
TN 364	JOACHIM,DOL	U					JCHM 05
IL 364	JOACHIM,DOL (ANCELL GP)	U					JCHM 02
MO 364	JOACHIM,DOL (ANCELL GP)						JCHM 07
AR 364	JOACHIM,DOL (BUFFALO RIVER GP)						JCHM 09
KY 364	JOACHIM,FM	U					JCHM 03
NV 337	JOANA,LS	U			120	EC A	JOAN 01
UT 337	JOANA,LS	U					JOAN 03
CA 211	JOAQUIN MILLER,FM	U	SS,SH			WC D	JQML 01
CA 211	JOAQUIN RIDGE,SS MBR (PANOCHÉ FM)	U				C C	JQRG 01
AK 311+	JOE CREEK,MBR (ECHOOKA FM)	U	STS,CH		110	NE E	JCRK 12
AK 317	JOE CREEK,MBR (ECHOOKA FM)	U					JCRK 13
UT 122	JOE LOTT,TUFF	U			300	SC C	JLTT 01
NV 361	JOES CANYON,FM (CLIPPER CANYON GP)		SED			C C	JSCN 01
ME 341	JOES POINT,BASALT MBR (PERRY FM)			GN	18	CAN E	JSPN 02
UT 125	JOES VALLEY,MBR (NORTH HORN FM)		SS			C C	JSVL 03
CA 400	JOHANNESBURG,GNEISS				760	SC A	JBRG 05
OR 122+	JOHN DAY,FM	U	SED			SC D	JNDY 01
OR 123	JOHN DAY,FM	U					JNDY 02
UT 211	JOHN HENRY,MBR (STRAIGHT CLIFFS FM)		SS		230	SC E	JNHR 01
NM 122	JOHN KERR PEAK,QUARTZ LATITE				200	SW E	JKPK 01
CA 410	JOHNNIE,FM	U					JHNN 01
NV 410	JOHNNIE,FM	U	QTZ		1100	SE A	JHNN 02
NM 211	JOHNNY BULL,SS				320	SW C	JNBL 02
AZ 420	JOHNNY LYON,GRANODIORITE	U				SE C	JNLN 01
ID 122	JOHNS CREEK,FLOW (COLUMBIA RIVER BASALT)					WC D	JCRK 07
ID 122	[JOHNS CREEK,MBR (COLUMBIA RIVER BASALT)]						JCRK 14
NY 341	JOHNS CREEK,MBR (MIDDLESEX SH)		SH,STS			C D	JCRK 10
NY 341	JOHNS CREEK,SH (SONYEA GP)						JCRK 11
CA 211	JOHNSON,GRANITE PORPHYRY (TUOLUMNE GP)					C A	JNSN 02
KS 317	JOHNSON,SH (COUNCIL GROVE GP)	U					JNSN 04
NE 317	JOHNSON,SH (COUNCIL GROVE GP)	U			8	SE A	JNSN 05
OK 317	JOHNSON,SH (COUNCIL GROVE GP)	U					JNSN 06

OK	317	JOHNSON,SH (VANOSS GP)										JNSN	14
PA	337	JOHNSONBURG,SS				YL	8	NW	A	JBRG	04		
CO	230	JOHNSON GAP,FM				LS,CGL	27	SC	C	JSGP	01		
NM	230	JOHNSON GAP,FM								JSGP	02		
CO	125+	JOHNSON GULCH,PORPHYRY							C	A	JGLC	01	
CO	211	JOHNSON GULCH,PORPHYRY									JGLC	02	
VA	400	JOHNSON MILL,FM							C	C	JSML	03	
VA	400	JOHNSON MILL,GRAPHITE SCHIST									JSML	02	
CA	211	JOHNSON PEAK,FM				SH	GN	680	SC	C	JSPK	04	
CA	364	JOHNSON SPRING,FM				LS		63	EC	C	JSPG	01	
CA	364	JOHNSON SPRING,FM (EUREKA GP)									JSPG	02	
ID	120	JOHNSTONE CREEK,VOLCS							SC	E	JCRK	02	
CA	122	JOHNSTONE PEAK,TUFF BRECCIA MBR (GLEN DORA VOLCS)						210	SC	C	JSPK	03	
PA	324	JOHNSTOWN,LS MBR (ALLEGHENY FM)						3	SW	A	JNSN	08	
AR	324+	JOHNS VALLEY,SH									JSVL	07	
OK	324+	JOHNS VALLEY,SH						300	SE	A	JSVL	08	
AR	328	JOHNS VALLEY,SH									JSVL	05	
OK	328	JOHNS VALLEY,SH									JSVL	06	
NV	371	JOHNS WASH,LS						76	EC	C	JSWS	01	
UT	371	JOHNS WASH,LS									JSWS	02	
UT	371	JOHNS WASH,LS MBR (ORR FM)									JSWS	03	
OK	364	JOINS,FM (SIMPSON GP)				LS		91	SC	A	JONS	03	
TX	364	JOINS,FM (SIMPSON GP)									JONS	04	
IL	354	JOLIET,DOL						61	NE	A	JOLT	02	
CA	124	JOLLA VIEJA,FM				ARK,SS		26	SC	E	JLVJ	01	
OK	328	JOLLIFF,LS MBR (DORNICK HILLS FM)						1	SE	A	JLLF	02	
OK	328	JOLLIFF,MBR (GOLF COURSE FM)									JLLF	01	
CA	217	JOLLO,CGL						910	SC	D	JOLL	02	
CA	217	JOLLO,FM									JOLL	03	
MD	317	JOLLYTOWN,LS MBR (WASHINGTON FM)									JLTN	02	
PA	317	JOLLYTOWN,LS MBR (WASHINGTON FM)						3	SW	A	JLTN	04	
WV	317	JOLLYTOWN,LS MBR (WASHINGTON FM)									JLTN	06	
OH	317	/JOLLYTOWN,SS MBR (WASHINGTON FM)									JLTN	08	
PA	317	/JOLLYTOWN,SS MBR (WASHINGTON FM)							SW	A	JLTN	10	
WV	317	/JOLLYTOWN,SS MBR (WASHINGTON FM)									JLTN	12	
TX	212	JONAH,LS (AUSTIN GP)								C	D	JONH	01
TX	123	JONES,FM				BAS	BK	14	WC	E	JONS	02	
TN	367	JONESBORO,LS (KNOX GP)						610	NE	A	JSBR	01	
VA	367	JONESBORO,LS (KNOX GP)									JSBR	02	
KS	322	JONESBURG,SS MBR (LAWRENCE FM)						23	SE	A	JBRG	02	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK	322	JONESBURG,SS MBR (VAMOOSA FM)							JBRG 03
MO	322	JONES POINT,SH MBR (TOPEKA FM)							JNSP 06
IA	322	JONES POINT,SH MBR (TOPEKA LS)	U						JNSP 02
KS	322	JONES POINT,SH MBR (TOPEKA LS)	U						JNSP 04
MO	322	JONES POINT,SH MBR (TOPEKA LS)							JNSP 09
NE	322	JONES POINT,SH MBR (TOPEKA LS)	U						JNSP 08
AK	360+	JONES RIDGE,LS	U			3	SE	A	JNSP 01
AK	370	JONES RIDGE,LS	U			910	EC	D	JRDG 02
PA	361	JONESTOWN,BEDS (MARTINSBURG FM)		SH		150	SE	C	JNSN 11
PA	361	JONESTOWN,FM (MARTINSBURG GP)							JNSN 12
PA	361	/JONESTOWN,VOLCS [MBR] (MARTINSBURG FM)				480	SE	C	JNSN 10
KS	337	JOPLIN,MBR (BOONE FM)	U						JPLN 02
OK	337	JOPLIN,MBR (BOONE FM)	U						JPLN 04
MO	338	JOPLIN,MBR (BOONE FM)	U	LS		30	SW	E	JPLN 03
IL	333	JOPPA,MBR (STE. GENEVIEVE LS)		SH		10	SC	D	JOPP 02
IA	371	JORDAN,SS	U						JRDN 03
IL	371	JORDAN,SS	U						JRDN 05
MN	371	JORDAN,SS	U			15	SC	A	JRDN 07
MO	371	JORDAN,SS	U						JRDN 08
WI	371	JORDAN,SS	U						JRDN 09
IA	371	JORDAN,SS MBR (TREMPEALEAU FM)	U						JRDN 04
MI	371	JORDAN,SS MBR (TREMPEALEAU FM)	U						JRDN 06
WI	371	JORDAN,SS MBR (TREMPEALEAU FM)	U						JRDN 10
NM	104	JORDAN CANYON,RHYOLITE					SW	E	JRDC 01
UT	121	[JORDAN NARROWS,FM (SALT LAKE GP)]		MRL		610	NC	C	JRDN 01
UT	121	/JORDAN NARROWS,UNIT (SALT LAKE GP)							JRDN 14
MI	341	JORDAN RIVER,FM (TRAVERSE GP)	U	LS,SH		2	C	E	JDRV 04
NY	354	JORDANVILLE,MBR (HERKIMER SS)		QTZ		14	C	D	JDVL 01
NM	110	/JORNADA,BASALT				30	C	C	JRND 02
NM	112	/JORNADA,GRAVEL					SC	C	JRND 01
NM	361	JORNADA,LS (MONTOLA GP)				120	SW	C	JRND 03
NV	317+	JORY,MBR (HAVALLAH FM)	U	SS		390	NC	D	JORY 01
NV	324	JORY,MBR (HAVALLAH FM)	U						JORY 02
NM	367	/JOSE,FM (EL PASO GP)		LS		22	SW	D	JOSE 03
TX	367	/JOSE,FM (EL PASO GP)							JOSE 04
TX	124	JOSE,SH MBR (YEGUA FM)				40	SC	C	JOSE 02
NM	110	/JOSE BUTTE,FLOW (CLAYTON BASALT)				6	NE	C	JSBT 01
NM	110	[JOSE BUTTE,MBR (CLAYTON BASALT)]							JSBT 02
NM	211	JOSE CREEK,MBR (MCRAE FM)				120	SW	C	JCRK 08
CA	200	JOSEPHINE,PERIDOTITE							JSPN 01

OR	200	JOSEPHINE,PERIDOTITE			4600	SW	E	JSPN	04
AZ	211	JOSEPHINE CANYON,DIORITE	U			SE	E	JSPC	01
AZ	217	JOSERITA,MBR (LOWELL FM)			37	SE	C	JSRT	01
NY	344	JOSHUA,BED (OTISCO MBR OF LUDLOWVILLE FM)		SS,SH LS	15	C	B	JSHU	03
MA	340	JOSHUA,SCHIST	U			NW	C	JSHU	01
VA	307	JOSHUA,SCHIST (EVINGTON GP)			150	SC	C	JSHU	02
CT	307	JOSHUA ROCK,MBR (NEW LONDON GNEISS)	U			EC	D	JRCK	03
NY	354	JOSLIN HILL,MBR (HERKIMER SS)		SH	20	EC	D	JLHL	01
NM	318	JOYITA,SS MBR (YESO FM)	U		OR	49	C	JOYT	01
NV	364	JUAB,LS (POGONIP GP)						JUAB	02
UT	364	JUAB,LS (POGONIP GP)	U			WC	C	JUAB	01
AK	217	JUALIN,DIORITE	U			SE	A	JULN	01
NM	211	JUANA LOPEZ,MBR (CARLILE SH)			3	NC	C	JLPZ	04
CO	211	JUANA LOPEZ,MBR (MANCOS SH)						JLPZ	03
NM	211	JUANA LOPEZ,MBR (MANCOS SH)	U					JLPZ	02
CO	211	JUANA LOPEZ,SS MBR (CARLILE SH)	U					JLPZ	01
WI	112	JUDA,GRAVEL			5	SC	E	JUDA	01
MT	112	JUDD,DRIFT				WC	E	JUDD	02
UT	211	JUDD,SH MBR (FRONTIER FM)			230	NC	C	JUDD	01
UT	120	JUDD CREEK,LATITE				WC	C	JDCK	01
AK	210+	/JUDD HARBOR,DUNITE-PERIDOTITE (DUKE ISLAND COMPLEX)			1500	SE	E	JDHB	01
AK	220	/JUDD HARBOR,DUNITE-PERIDOTITE (DUKE ISLAND COMPLEX)						JDHB	02
AK	210+	[JUDD HARBOR,PERIDOTITE (DUKE ISLAND COMPLEX)]						JDHB	03
AK	220	[JUDD HARBOR,PERIDOTITE (DUKE ISLAND COMPLEX)]						JDHB	04
AZ	224	JUDD HOLLOW,TONGUE (CARMEL FM)	U					JDHL	01
UT	224	JUDD HOLLOW,TONGUE (CARMEL FM)	U	SS	10	SC	D	JDHL	02
ND	211	JUDITH RIVER,FM	U					JDRV	02
WY	211	JUDITH RIVER,FM	U					JDRV	03
MT	211	JUDITH RIVER,FM (MONTANA GP)	U	SS	78	SC	A	JDRV	01
TX	110	JUDKINS,FM	U	SS	2	WC	C	JDKS	01
CA	230+	JULIAN,SCHIST	U		2000	SE	A	JULN	03
CA	300	JULIAN,SCHIST	U					JULN	05
CA	211	JULIAN ROCKS,FM		SS,CGL	1500	NW	D	JRCK	02
AL	347	JUMBO,DOL (TALLADEGA GP)			37	C	A	JUMB	04
AL	347	JUMBO,DOL MBR (TALLADEGA SLATE)	U					JUMB	02
OR	122	JUMP CREEK,RHYOLITE			150	EC	D	JPCK	01
CA	124	JUNCAL,FM	U	SS,SH	100	SC	C	JNCL	01
CO	430	JUNCTION,FM		SCH,GN	270	NC	E	JNCN	01
WY	112	JUNCTION BUTTE,BASALT	U		90	NW	E	JNCB	01
WI	430	JUNCTION CITY,QTZ			300	C	A	JNCC	01



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO	224	JUNCTION CREEK,SS (SAN RAFAEL GP)	U			91	SW	C	JCCK 01
CO	224	JUNCTION CREEK,SS MBR (WANAKAH FM)	U						JCCK 02
NV	120	JUNE BELL,RHYOLITE					NC	A	JNBL 01
MD	361	JUNIATA,FM	U						JUNT 01
PA	361	JUNIATA,FM	U		RD	340	SC	A	JUNT 02
TN	361	JUNIATA,FM	U						JUNT 03
VA	361	JUNIATA,FM	U						JUNT 04
WV	361	JUNIATA,FM	U						JUNT 05
CA	100	JUNIPER,ANDESITE					NW	A	JNPR 01
AZ	220	JUNIPER FLAT,GRANITE	U				SE	C	JPFL 03
IA	341	JUNIPER HILL,SH MBR (LIME CREEK FM)				14	NC	A	JPHL 02
CA	124	JUNIPERO,SS				38	WC	C	JNPR 02
CA	211	JUNIPER RIDGE,CGL MBR (PANOCHÉ FM)					C	C	JPRG 02
CA	211	JUNIPER RIDGE,CGL MBR (WALTHAM CANYON FM)							JPRG 03
CA	211	JUNIPER RIDGE,SS (PANOCHÉ GP)							JPRG 01
OR	122	JUNTURA,FM		ASH		380	SE	D	JNTR 02
AZ	420	JUPITER,MBR (GALEROS FM)		SH	RD	460	NC	E	JPTR 01
LA	221	JUSTISS,TONGUE (TERRYVILLE SS)				100	NW	D	JSTS 02
NY	344	KAATERSKILL,FM			RD	91	EC	A	KRKL 01
NY	344	KAATERSKILL,SS (GENESEE GP)							KRKL 02
HI	112	KAUU,VOLCS (HONOLULU GP)				6	NC	A	KAUU 04
WA	124	KACHESS,RHYOLITE	U			1200	C	A	KCSS 01
ID	124	KADLETZ,VOLCS (CHALLIS GP)					C	D	KDLZ 01
HI	112	KAENA,FM		LS		39	NC	E	KAEN 01
CA	111+	KAGEL,FANGLOMERATE					SC	A	KGEL 01
CA	112	KAGEL,FANGLOMERATE							KGEL 02
AK	211	KAGUYAK,FM	U	STS,SS		1400	C	C	KGYK 01
MO	112	KAHOKA,TILL					NC	D	KHOK 01
HI	112	[KAHUKU,BASALT]				190	SE	C	KHUK 03
HI	112	/KAHUKU,VOLC SER	U						KHUK 01
HI	112	KAHUKU POINT,FM		CL		47	NC	E	KKPN 01
AZ	317	KAIBAB,FM							KIBB 01
UT	317	KAIBAB,FM				250	SC	A	KIBB 06
AZ	317	KAIBAB,LS (AUBREY GP)	U						KIBB 03
NV	317	KAIBAB,LS (AUBREY GP)							KIBB 05
UT	317	KAIBAB,LS (AUBREY GP)	U						KIBB 08
NV	317	KAIBAB,LS (PARK CITY GP)	U						KIBB 04
UT	317	KAIBAB,LS (PARK CITY GP)	U						KIBB 09
HI	112	KAIMUKI,BASALT (HONOLULU GP)	U			120	NC	A	KMUK 02
TX	218	KAINER,FM (EDWARDS GP)		DOL		120	SE	E	KINR 02

UT	211	KAIPAROWITS,FM	U	SS	610	SC	A	KPRS	01
MN	430	KAKABEKA,FM (ANIMIKIE GP)				CAN	A	KKBK	03
MN	430	KAKABEKA,QTZ MBR (GUNFLINT IRON-FORMATION)						KKBK	04
HI	111	KALAMA,VOLCS (HONOLULU GP)	U		3	NC	A	KALM	01
WA	111	KALAMA RIVER,MUDFLOW				SW	C	KMRV	02
NV	120	KALAMAZOO,VOLCS			1100	EC	C	KLMZ	01
HI	112	KALAUPAPA,BASALT	U		120	NC	C	KLPP	01
HI	112	KALIHI,VOLCS (HONOLULU GP)	U		30	NC	A	KLIH	01
NJ	347	KALKBERG,LS (HELDERBERG GP)	U					KKBG	01
NY	347	KALKBERG,LS (HELDERBERG GP)	U		12	EC	A	KKBG	04
PA	347	KALKBERG,LS (HELDERBERG GP)	U					KKBG	07
NY	347	KALKBERG,LS MBR (NEW SCOTLAND FM)						KKBG	06
PA	347	KALKBERG,LS MBR (NEW SCOTLAND FM)						KKBG	09
NY	347	KALKBERG,MBR (COEYMANS LS)						KKBG	05
MI	420	KALLANDER CREEK,FM (POWDER MILL GP)	U	VOL	4500	NW	E	KDCK	03
WI	420	KALLANDER CREEK,FM (POWDER MILL GP)	U					KDCK	02
AL	347	KALONA,QTZ MBR (LAY DAM FM)			180	C	E	KLON	01
CA	112	KALORAMA,MBR (SANTA BARBARA FM)		SED		SC	A	KLRM	01
AK	211+	KALTAG,FM	U	SS,SH	240	C	A	KLTG	01
AK	217	KALTAG,FM	U					KLTG	02
HI	112	KAMANAIKI,BASALT (HONOLULU GP)	U			NC	A	KMNK	01
HI	111+	KAMEHAME,BASALT	U		240	SE	A	KMHM	01
HI	112	KAMEHAME,BASALT	U					KMHM	02
ID	107	KAMIAH,VOLCS			300	WC	A	KMIH	01
AK	231	KAMISHAK,FM	U	CH	610	C	A	KMSK	01
TX	212	KAMP RANCH,LS MBR (EAGLE FORD FM)			1	EC	D	KMPR	04
AZ	374	KANAB CANYON,MBR (MUAV LS)			43	NW	C	KNBC	03
CA	330	KANAKA,FM	U	SL	610	NC	A	KANK	01
HI	121	[KANAPOU,BASALT]				EC	C	KNPU	03
HI	121	/KANAPOU,VOLC SER	U					KNPU	02
WV	324	/KANAWHA,BLACK FLINT MBR (KANAWHA FM)			5	WC	A	KNWH	04
KY	324	KANAWHA,FM						KNWH	07
VA	324	KANAWHA,FM						KNWH	02
WV	324	KANAWHA,FM (POTTSVILLE GP)		SH,SS	370	WC	A	KNWH	05
TX	212	[KANAWHA,MBR (EAGLE FORD FM)]			6	NE	C	KNWH	09
WV	324	KANAWHA,MBR (POTTSVILLE FM)	U					KNWH	10
TX	212	/KANAWHA,VOLC ZONE (EAGLE FORD FM)						KNWH	08
AK	341	KANAYUT,CGL (ENDICOTT GP)	U		1000	NC	C	KNYT	01
AK	217	KANDIK,GP	U	SL	730	NE	C	KNDK	01
HI	112	KANEOME,VOLCS (HONOLULU GP)	U			NC	A	KNOH	01

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT	122	KANE POINT,TUFF MBR (PAGE RANCH FM)					SW	C	KNPN 01
NV	122	KANE WASH,FM				440	SE	D	KNWS 01
NV	122	KANE WASH,TUFF	U						KNWS 02
IA	357	KANKAKEE,FM	U						KNKK 04
IL	357	KANKAKEE,FM	U			15	NE	A	KNKK 06
MO	357	KANKAKEE,FM	U						KNKK 08
WI	357	KANKAKEE,FM	U						KNKK 10
IA	357	KANKAKEE,LS	U						KNKK 05
IL	357	KANKAKEE,LS	U						KNKK 07
MO	357	KANKAKEE,LS	U						KNKK 09
WI	357	KANKAKEE,LS	U						KNKK 11
AZ	122	KANNALLY,MBR (SAN MANUEL FM)	U	ALV		1500	SE	D	KNNL 01
NV	364	KANOSH,SH (POGONIP GP)	U						KNSH 04
UT	364	KANOSH,SH (POGONIP GP)	U			150	WC	C	KNSH 05
NY	347	KANOUSE,CGL							KNUS 06
NJ	347	KANOUSE,MBR (PINE HILL FM)				15	NE	C	KNUS 11
NY	347	KANOUSE,MBR (PINE HILL FM)							KNUS 12
NJ	347	KANOUSE,SS	U						KNUS 03
NY	347	KANOUSE,SS	U						KNUS 08
KS	112	KANSAS,TILL				91	NE	C	KNSS 01
IA	323	KANSAS CITY,GP	U						KSSC 01
KS	323	KANSAS CITY,GP	U						KSSC 02
MO	323	KANSAS CITY,GP	U	SH,LS		69	WC	A	KSSC 03
NE	323	KANSAS CITY,GP	U						KSSC 04
AK	300	[KANUTI,FM]		MVOL			NC	A	KNUT 02
AK	300	/KANUTI,GP	U						KNUT 01
IA	322	KANWAKA,SH (SHAWNEE GP)	U						KNWK 02
KS	322	KANWAKA,SH (SHAWNEE GP)	U			30	EC	A	KNWK 04
MO	322	KANWAKA,SH (SHAWNEE GP)	U						KNWK 06
NE	322	KANWAKA,SH (SHAWNEE GP)	U						KNWK 08
HI	111+	KAOHKAIPU,VOLCS (HONOLULU GP)	U				NC	A	KHKP 01
HI	112	KAOHKAIPU,VOLCS (HONOLULU GP)	U						KHKP 02
HI	112	[KAPAULA,ANDESITE (HANA GP)]				43	EC	C	KPUL 02
HI	112	/KAPAULA,BASALTIC ANDESITE (HANA GP)	U						KPUL 01
WY	211	KARA,BENTONITE BED (TEKLA MBR OF LEWIS SH)				30	NE	C	KARA 02
WY	211	[KARA,BENTONITE MBR (PIERRE SH)]							KARA 03
WY	211	/KARA,BENTONITIC MBR (PIERRE SH)	U						KARA 01
AK	231	KAREN CREEK,SS	U			21	NE	E	KRCK 04
AK	347+	KARHEEN,FM	U	SS		1800	SE	E	KRHN 01
AK	351	KARHEEN,FM	U						KRHN 02

CO	217	KARLA KAY,CGL MBR (BURRO CANYON FM)	U		20	SW	C	KRLK	01	
UT	217	KARLA KAY,CGL MBR (BURRO CANYON FM)	U					KRLK	02	
AK	112	KARLUK,DRIFT					SC	E	KRLK	03
IL	333	KARNAK,MBR (STE. GENEVIEVE LS)			8	SC	D	KRNK	01	
NY	344	KASHONG,MBR (MOSCOW SH)			12	WC	A	KSNG	01	
NY	344	KASHONG,SH (HAMILTON GP)						KSNG	02	
ID	410	KASISKA,MBR (BRIGHAM QTZ)	U		490	SE	E	KSSK	01	
MN	367	KASOTA,BEDS (ONEOTA DOL)		SS,LS	2	SC	A	KSOT	01	
CO	217	KASSLER,SS MBR (SOUTH PLATTE FM)	U		30	NC	C	KSLR	01	
ME	344	KATAHDIN,QUARTZ MONZONITE	U				C	A	KTDN	01
AK	347+	KATAKTURUK,DOL	U		1000	NE	E	KKRK	01	
AK	350	KATAKTURUK,DOL	U					KKRK	02	
AK	122+	KATALLA,FM	U	SH	2000	EC	A	KTLL	01	
AK	123	KATALLA,FM	U					KTLL	02	
NV	122	KATE PEAK,FM	U	AND	370	WC	C	KTPK	03	
AZ	400	KATHERINE,GRANITE					NW	A	KTRN	01
AK	217	KATHUL,GRAYWACKE (KANDIK GP)	U		450	NE	E	KTHL	01	
NY	341	KATSBERG,FM		SS	910	EC	A	KBRG	01	
NY	341	KATTEL,FM (SONYEA GP)		SH	180	C	A	K TTL	04	
HI	111+	[KAU,BASALT]			180	SE	C	KAU	03	
HI	112	[KAU,BASALT]						KAU	04	
HI	111+	/KAU,VOLC SER						KAU	01	
HI	112	/KAU,VOLC SER						KAU	02	
PA	364	KAUFFMAN,MBR (MERCERSBURG FM)		LS	51	SC	C	KFMN	01	
HI	111+	KAUPO,BASALT (HONOLULU GP)				NC	A	KUPO	01	
HI	112	KAUPO,BASALT (HONOLULU GP)						KUPO	02	
HI	112	/KAUPO,MUD FLOW (HANA GP)			110	EC	B	KUPO	03	
AK	237	KAVIK,MBR (IVISHAK FM)	U	SH	85	NE	E	KVIK	01	
CA	230	[KAWEAH,GP]		SCH			C	C	KWEH	02
CA	230	/KAWEAH,SER						C	KWEH	01
AK	337	KAYAK,SH (ENDICOTT GP)	U		290	NC	C	KAYK	01	
WY	111	KAYCEE,FM	U	ST		NC	C	KYCE	01	
AZ	231	KAYENTA,FM (GLEN CANYON GP)	U	SS	98	NE	A	KYNT	01	
CO	231	KAYENTA,FM (GLEN CANYON GP)	U					KYNT	02	
UT	231	KAYENTA,FM (GLEN CANYON GP)	U					KYNT	03	
HI	112	KEANAE,BASALT (HANA GP)				EC	C	KENE	01	
HI	111	KEANAKAKOI,FM		VOL	9	SE	C	KNKK	01	
KS	328	KEARNY,FM		LS	39	SW	C	KRNY	01	
MI	420	/KEARSARGE,AMYGDALOID (PORTAGE LAKE VOLCS)	U			NW	A	KRRG	04	
MI	420	KEARSARGE,CGL [BED (PORTAGE LAKE VOLCS)]	U			NW	A	KRRG	02	

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MI	420	/KEARSARGE, FLOW (PORTAGE LAKE VOLCS)	U						KRRG 03
OR	123+	KEASEY, FM	U			370	NW	A	KESY 02
WA	123+	KEASEY, FM	U						KESY 04
OR	124	KEASEY, FM	U						KESY 06
WA	124	KEASEY, FM	U						KESY 08
OR	123+	KEASEY, SH	U						KESY 03
OR	124	KEASEY, SH	U						KESY 07
AZ	337	KEATING, FM (ESCABROSA GP)	U	LS		110	SE	D	KTNG 01
NM	337	KEATING, FM (ESCABROSA GP)	U						KTNG 02
WA	123+	KEECHELUS, ANDESITE				1200	C	A	KCLS 03
WA	124	KEECHELUS, ANDESITE							KCLS 05
WA	123+	KEECHELUS, FM							KCLS 04
WA	124	KEECHELUS, FM							KCLS 06
WA	123+	[KEECHELUS, GP]							KCLS 09
WA	124	[KEECHELUS, GP]							KCLS 10
WA	123+	/KEECHELUS, VOLC GP							KCLS 07
WA	124	/KEECHELUS, VOLC GP							KCLS 08
TX	321	KEECHI CREEK, FM (WHITT GP)				46	C	A	KCKK 01
TX	321	KEECHI CREEK, SH (STRAWN GP)							KCKK 04
PA	354	KEEFER, MBR (MIFFLINTOWN FM)							KEFR 12
KY	354	KEEFER, SS	U						KEFR 01
MD	354	KEEFER, SS	U		WH	12	NC	A	KEFR 02
VA	354	KEEFER, SS							KEFR 10
WV	354	KEEFER, SS	U						KEFR 11
MD	354	KEEFER, SS (CLINTON GP)							KEFR 03
PA	354	KEEFER, SS (CLINTON GP)							KEFR 06
WV	354	KEEFER, SS (CLINTON GP)							KEFR 13
PA	354	KEEFER, SS MBR (CLINTON FM)	U						KEFR 07
VA	354	KEEFER, SS MBR (CLINTON FM)							KEFR 14
PA	354	KEEFER, SS MBR (MIFFLINTOWN LS)							KEFR 09
OK	357	KEEL, MBR (CHIMNEYHILL LS)				2	SE	C	KEEL 01
CA	317+	KEELER CANYON, FM	U	LS, STS		670	EC	C	KLRC 01
CA	321	KEELER CANYON, FM	U						KLRC 03
CA	324	KEELER CANYON, FM	U						KLRC 05
TX	324	KEEN, CGL (STRAWN GP)				8	C	C	KEEN 01
AK	217	KEENAN, QTZ (KANDIK GP)	U			45	NE	E	KENN 01
NY	400	KEENE, GNEISS				300	NE	A	KEEN 04
NY	371	KEESEVILLE, MBR (POTSDAM SS)					NC	A	KSVL 02
UT	123	KEETLEY, VOLCS					NC	C	KTLY 01
CO	410+	KEETON, PORPHYRY					C	E	KTON 02

CO	420	KEETON,PORPHYRY								KTON	03
AK	300+	KEEVY PEAK,FM	U	SCH		910	EC	E		KVPK	01
AK	400	KEEVY PEAK,FM	U							KVPK	02
MN	440	KEEWATIN,GP		MSED,GR				NW	C	KWTN	04
UT	101	KEG MOUNTAIN,IGNIMBRITE				300	WC	D		KGMN	01
UT	107	KEG SPRING,ANDESITE				91	WC	D		KGSP	01
UT	107	KEG SPRING,LATITE								KGSP	02
NE	112+	KEIM,FM		SD		14	NC	E		KEIM	01
NE	121	KEIM,FM								KEIM	02
CA	220+	KEITHS DOME,QUARTZ MONZONITE						C	D	KSDM	01
CA	230	KEITHS DOME,QUARTZ MONZONITE								KSDM	02
MN	430	KEKEKABIC,GRANITE	U					NE	A	KKKB	03
AK	330	KEKIKTUK,CGL (ENDICOTT GP)	U			90	NE	D		KKKK	01
AK	231	KEKU,VOLCS	U			300	SE	D		KEKU	01
NM	321	KELLER,GP		LS		40	C	C		KLLR	01
OR	227	KELLER CREEK,SH (ALDRICH MOUNTAINS GP)	U			1500	NE	D		KLCK	02
IL	112	KELLERVILLE,TILL MBR (GLASFORD FM)				45	WC	E		KLVL	01
UT	410	KELLEY CANYON,FM	U	ARG		610	NC	E		KLCN	01
CA	124	KELLOGG,MBR (NORTONVILLE SH)				40	NC	C		KLLG	02
CA	124	KELLOGG,SH								KLLG	01
CA	124	KELLOGG,SH MBR (MARKLEY FM)								KLLG	03
UT	320	KELLY,FM		SS,LS		58	C	C		KLLY	01
NM	337	KELLY,FM				41	SW	A		KLLY	02
NM	337	KELLY,LS	U							KLLY	03
ME	350	KELLYLAND,FM	U	MSED		300	NE	D		KLLD	01
AK	220+	KELP BAY,GP	U	MET		3000	SE	D		KLPB	01
AK	230	KELP BAY,GP	U							KLPB	02
UT	217	KELVIN,CGL						NC	A	KLVN	01
UT	217	KELVIN,FM	U							KLVN	02
AK	217	KEMIK,SS MBR (KONGAKUT FM)	U			66	NE	E		KMIK	01
TX	212	KEMP,CLAY (NAVARRO GP)	U			49	EC	A		KEMP	02
TX	212	KEMP,FM (NAVARRO GP)	U							KEMP	04
VA	112	KEMPSVILLE,FM		SD,GVL		5	SE	D		KMPV	01
AK	112	KEMUK,DRIFT				10	C	D		KMUK	01
AK	121+	KENAI,FM	U	SD		1400	C	A		KENI	01
AK	122	KENAI,FM	U							KENI	02
AK	123	KENAI,FM	U							KENI	03
AK	121+	KENAI,GP								KENI	04
AK	122	KENAI,GP								KENI	05
AK	123	KENAI,GP								KENI	06

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MA	410	KENDAL GREEN, FM		SL		1500	EC	A	KDLG 01
WY	224	KENDALL, SS MBR (GYPSUM SPRING FM)				8	WC	C	KNDL 03
NV	123	KENDALL, TUFF	U			61	C	A	KNDL 02
KY	324	KENDRICK, SH MBR (BREATHITT FM)				6	EC	A	KDCK 01
UT	211	KENILWORTH, MBR (BLACKHAWK FM)		SS, SH		75	EC	C	KNLR 01
ME	364+	KENNEBAGO, MBR (ALBEE FM)	U	SL		1400	WC	E	KNBG 01
ME	367	KENNEBAGO, MBR (ALBEE FM)	U						KNBG 02
ME	364	KENNEBEC, FM	U	TF		300	WC	D	KNBC 01
MT	112	KENNEDY, DRIFT				30	NW	A	KNND 03
MT	112	KENNEDY, GRAVEL							KNND 04
AK	340+	KENNEL CREEK, LS	U			1500	SE	D	KLCK 04
AK	350	KENNEL CREEK, LS	U						KLCK 05
IN	351	KENNETH, LS MBR (SALINA FM)				11	NC	A	KNNT 03
CA	344	KENNETT, FM	U	SH, LS		120	NW	A	KNNT 01
ID	123+	KENNEY, FM (CHALLIS GP)		SH		150	C	C	KNNY 02
ID	124	KENNEY, FM (CHALLIS GP)							KNNY 01
AK	217	KENNICOTT, FM	U	SH		1000	EC	A	KNCT 02
IA	322	KENOSHA, MBR (TECUMSEH SH)							KNSH 01
NE	322	KENOSHA, MBR (TECUMSEH SH)				2	SE	A	KNSH 03
ND	112	KENSAL, DRIFT				15	EC	D	KNSL 01
DC	307	KENSINGTON, GRANITE-GNEISS							KNSG 01
MD	307	KENSINGTON, GRANITE-GNEISS					C	C	KNSG 02
DC	307	KENSINGTON, QUARTZ DIORITE							KNSG 04
MD	307	KENSINGTON, QUARTZ DIORITE							KNSG 03
OH	112	KENT, TILL				5	NE	C	KENT 01
PA	112	KENT, TILL	U						KENT 02
WI	341	/KENWOOD, FM				17	SE	D	KNWD 03
IA	344	KENWOOD, MBR (WAPSIPINICON LS)				6	EC	C	KNWD 05
IL	344	KENWOOD, MBR (WAPSIPINICON LS)							KNWD 06
WI	341	/KENWOOD, SH	U						KNWD 04
KY	337	/KENWOOD, STS MBR (BORDEN FM)	U			12	C	A	KNWD 02
IL	371	KENYON, MBR (MOUNT SIMON SS)				40	NE	C	KNYN 01
VA	324	KEOKEE, SS MBR (WISE FM)				18	SW	E	KEOK 02
KS	337	KEOKUK, LS	U						KKUK 04
OK	337	KEOKUK, LS							KKUK 07
IA	338	KEOKUK, LS	U			24	SE	A	KKUK 01
IL	338	KEOKUK, LS	U						KKUK 02
KY	338	KEOKUK, LS	U						KKUK 05
MO	338	KEOKUK, LS	U						KKUK 06
OK	325	KEOTA, SS MBR (MCALESTER FM)	U			3	EC	A	KEOT 01

OH	371	KERBEL,FM			SS	52	NC	E	KRBL	01
CO	324+	KERBER,FM			U SS,SH	61	SC	A	KRBR	01
CO	327	KERBER,FM			U				KRBR	02
IA	322	KEREFORD,MBR (OREAD LS)			U				KRFD	01
KS	322	KEREFORD,MBR (OREAD LS)			U	2	NE	A	KRFD	02
MO	322	KEREFORD,MBR (OREAD LS)			U				KRFD	03
NE	322	KEREFORD,MBR (OREAD LS)			U				KRFD	04
TX	125	KERENS,MBR (WILLS POINT FM)			U				KRNS	01
NM	121	KERES,GP							KRS	01
OR	121	KERN BASIN,FM (IDAHO GP)							KRS	01
CA	112+	KERN RIVER,FM			CL	150	EC	A	KRRV	01
CA	121	KERN RIVER,FM			VOL	1800	NC	E	KRS	01
CA	220+	[KERNVILLE,FM]			SS	230	EC	D	KRBS	01
CA	230	[KERNVILLE,FM]			SD	610	SC	A	KRRV	01
CA	230	[KERNVILLE,FM]							KRRV	03
CA	300	[KERNVILLE,FM]			MSD	3700	SC	A	KRVL	04
CA	220+	/KERNVILLE,SER							KRVL	05
CA	230	/KERNVILLE,SER							KRVL	06
CA	300	/KERNVILLE,SER							KRVL	01
CA	217+	KERR RANCH,SCHIST							KRVL	02
CA	221	KERR RANCH,SCHIST							KRVL	03
IL	325	KERTON CREEK,COAL MBR (CARBONDALE FM)							KRVL	03
OK	324	KESSLER,FM							KRRC	01
AR	324	KESSLER,LS MBR (BLOYD FM)							KRRC	02
OK	324	KESSLER,LS MBR (BLOYD FM)			U	5	NW	A	KSLR	06
OK	324	KESSLER,LS MBR (BLOYD SH)			U				KSLR	07
OK	324	KESSLER,LS MBR (BLOYD SH)			U				KSLR	03
UT	317+	KESSLER CANYON,FM (OQUIRRH GP)			U				KSLR	05
UT	321	KESSLER CANYON,FM (OQUIRRH GP)			SS	1300	NW	E	KLRC	02
AL	304	KETCHEPDRAKEE,AMPHIBOLITE							KLRC	04
MO	400	KETCHERSIDE,TUFF (VAN EAST GP)							EC	E
OK	321	KETCHUM BLUFF,CGL							SE	D
AL	371	KETONA,DOL							SC	A
CA	207	KETTLE,FM			U	180	NC	A	KTON	01
CA	207	/KETTLE,META-ANDESITE							NC	A
CO	112	KETTLE CREEK,ALLUVIUM			U	5	C	D	KTLK	02
MT	211	KEVIN,MBR (MARIAS RIVER SH)			U	190	NC	C	KVIN	01
IL	325	KEWANEE,GP			U				SH,SS	230
MI	420	KEWEENAWAN,SUPERGROUP			U				NC	C
MN	420	KEWEENAWAN,SUPERGROUP			U				NW	A
WI	420	KEWEENAWAN,SUPERGROUP			U					
										KWNN
										KWNN
										KWNN
										KWNN



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WI 430	KEYES LAKE,QTZ MBR (MICHIGAMME SLATE)					NE	D	KSLK 01
SD 217	KEYHOLE,SS MBR (FALL RIVER FM)	U						KYHL 03
WY 217	KEYHOLE,SS MBR (FALL RIVER FM)	U			10	NE	C	KYHL 04
FL 112	KEY LARGO,LS	U			40	SE	A	KLRG 01
PA 347+	KEYSER,FM							KYSR 18
VA 347+	KEYSER,FM							KYSR 21
WV 347+	KEYSER,FM				88	EC	A	KYSR 15
PA 351	KEYSER,FM							KYSR 19
VA 351	KEYSER,FM							KYSR 22
WV 351	KEYSER,FM							KYSR 16
VA 347+	KEYSER,FM (CAYUGA GP)							KYSR 20
VA 351	KEYSER,FM (CAYUGA GP)							KYSR 17
MD 347+	KEYSER,LS	U						KYSR 01
PA 347+	KEYSER,LS	U						KYSR 04
VA 347+	KEYSER,LS	U						KYSR 06
WV 347+	KEYSER,LS	U						KYSR 07
MD 351	KEYSER,LS	U						KYSR 08
PA 351	KEYSER,LS	U						KYSR 11
VA 351	KEYSER,LS	U						KYSR 13
WV 351	KEYSER,LS	U						KYSR 14
WY 400	KEYSTONE,QUARTZ DIORITE					SE	E	KSTN 03
WV 327	KEYSTONE,SS [MBR] (POCAHONTAS FM)				11	SW	A	KSTN 01
OK 323	KEYSTONE DAM,MBR (IOLA LS)					NE	E	KSDM 03
OK 323	KEYSTONE PARK,MBR (WANN FM)		SS		46	NE	E	KPRK 01
TX 218	KEYS VALLEY,MARL MBR (WALNUT FM)				11	EC	D	KSVL 04
AK 220+	KHAZ,FM (KELP BAY GP)	U	GNS,GYK			SE	E	KHAZ 01
AK 230	KHAZ,FM (KELP BAY GP)	U						KHAZ 02
AK 224	KIALAGVIK,FM	U	SS,SH		150	SC	A	KGVK 01
AR 218	KIAMICHI,CLAY MBR (GEORGETOWN LS)							KMCH 01
OK 218	KIAMICHI,CLAY MBR (GEORGETOWN LS)				12	SE	A	KMCH 04
TX 218	KIAMICHI,CLAY MBR (GEORGETOWN LS)							KMCH 06
AR 218	KIAMICHI,FM (FREDERICKSBURG GP)	U						KMCH 02
LA 218	KIAMICHI,FM (FREDERICKSBURG GP)	U						KMCH 03
OK 218	KIAMICHI,FM (FREDERICKSBURG GP)	U						KMCH 05
TX 218	KIAMICHI,FM (FREDERICKSBURG GP)	U						KMCH 07
TX 218	KIAMICHI,SH							KMCH 16
NM 400	KIAWA MOUNTAIN,FM		QTZ		910	NC	C	KMNN 01
MT 331	KIBBEY,FM (BIG SNOWY GP)				67	NC	C	KBBY 06
ND 331	KIBBEY,FM (BIG SNOWY GP)							KBBY 04
ND 331	KIBBEY,LS (BIG SNOWY GP)							KBBY 05

SD	331	KIBBEY,SS										KBBY	03		
MT	331	KIBBEY,SS (BIG SNOWY GP)										KBBY	01		
ND	331	KIBBEY,SS (BIG SNOWY GP)										KBBY	02		
TX	324	KICKAPOO CREEK,GP				SED			790		C	C	KKCK	01	
TX	324	KICKAPOO FALLS,LS MBR (DICKERSON FM)									C	A	KKPF	02	
TX	324	KICKAPOO FALLS,LS MBR (LAZY BEND FM)											KKPF	03	
TX	324	KICKAPOO FALLS,LS MBR (MILLSAP LAKE FM)											KKPF	01	
IL	333	KIDD,MBR (SALEM LS)							27	SW		C	KIDD	01	
KY	332	KIDDER,MBR (MONTEAGLE LS)				U			58	SC		E	KDDR	01	
TN	332	KIDDER,MBR (MONTEAGLE LS)											KDDR	02	
NH	347	KIDDERVILLE,FM							1800	NC		D	KDVL	03	
KY	344	KIDDVILLE,LS BED (BOYLE DOL)							1	EC		A	KDVL	01	
HI	112	[KIEKIE, BASALT]							88	NW		C	KIKI	02	
HI	112	/KIEKIE, VOLC SER				U							KIKI	01	
NE	323	KIEWITZ,SH [BED] (STONER MBR OF STANTON LS)							1	EC		A	KWTZ	01	
NE	323	/KIEWITZ,SH ZONE (STONER MBR OF STANTON LS)											KWTZ	02	
OK	311	KIGER,SH MBR (CLOUD CHIEF FM)											KIGR	05	
KS	311	KIGER,SH MBR (WHITEHORSE FM)							12	SW		D	KIGR	04	
AK	410	[KIGLUAIK, FM]							1200	NC		A	KGLK	07	
AK	410	/KIGLUAIK, GP				U							KGLK	05	
OK	322	KIHEKI,SS MBR (VAMOOSA FM)							8	NE		C	KIHK	01	
HI	111+	KII POINT,LS							9	NC		C	KPNT	01	
HI	112	KII POINT,LS											KPNT	02	
CA	400	KILBECK, GRANITE GNEISS									SE	C	KBCK	02	
VA	112	KILBY,FM									SE	C	KLBY	01	
HI	112	KILEA, VOLCS (LAHAINA GP)							5	EC		C	KILE	01	
MI	430	KILLARNEY, GRANITE				U					CAN	A	KLRN	01	
NY	341	KILLBUCK, CGL LENTIL (CATTARAUGUS FM)							4	WC		A	KBCK	01	
MI	344	KILLIANS,LS							7	EC		A	KLNS	01	
MI	344	KILLIANS, MBR (GENSHAW FM)				U							KLNS	02	
AK	217	KILLIK, TONGUE (CHANDLER FM)				U			860	NC		C	KLLK	01	
LA	124	KILPATRICK, LENTIL (COCKFIELD FM)									GLC	NC	D	KPCK	01
CO	122	KIMBALL, FM (OGALLALA GP)											KMBL	02	
NE	122	KIMBALL, FM (OGALLALA GP)									ST,CL		C	KMBL	04
KS	122	KIMBALL, MBR (OGALLALA FM)											KMBL	03	
NE	122	KIMBALL, MBR (OGALLALA FM)											KMBL	06	
MN	420	KIMBALL CREEK, FELSITE (NORTH SHORE GP)							400	NE		E	KBCK	03	
OR	122	KIMBERLY, MBR (JOHN DAY FM)							91	C		E	KMBL	05	
NM	125	KIMBETO, MBR (OJO ALAMO SS)							82	NW		E	KMBT	01	
AR	364	KIMMSWICK,LS				U							KNCK	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
IL 364	KIMMSWICK,LS	U						KMCK 02	
KS 364	KIMMSWICK,LS	U						KMCK 03	
MO 364	KIMMSWICK,LS	U			30	EC	A	KMCK 04	
TX 364	KIMMSWICK,LS	U						KMCK 05	
IL 364	KIMMSWICK,LS (GALENA GP)							KMCK 07	
AR 125	KINCAID,FM (MIDWAY GP)	U						KNCD 01	
LA 125	KINCAID,FM (MIDWAY GP)	U						KNCD 02	
TX 125	KINCAID,FM (MIDWAY GP)	U	SS		30	SC	A	KNCD 03	
OK 367	KINDBLADE,FM (ARBUCKLE GP)	U	LS		290	C	C	KDBD 01	
ME 347	KINEO,RHYOLITE						C	A	KINO 02
ME 347	KINEO,VOLC MBR (TOMHEGAN FM)								KINO 03
AK 221+	KINGAK,SH	U		BK	1200	NE	A	KNGK 01	
AK 224	KINGAK,SH	U						KNGK 02	
AK 227	KINGAK,SH	U						KNGK 03	
CA 104	KING CITY,FM		SD,SH		>30	WC	C	KNGC 01	
TX 337	KING CREEK,MARL MBR (HOUY FM)				<1	C	C	KGCK 02	
IA 364	KINGDOM,SS MBR (GLENWOOD FM)							KGDM 02	
IL 364	KINGDOM,SS MBR (GLENWOOD FM)				3	NE	C	KGDM 01	
NY 344	KING FERRY,SH MBR (LUDLOWVILLE FM)				40	C	A	KGFR 01	
OK 317	KINGFISHER CREEK,GYPSUM BED (BLAINE FM)				1	C	D	KGCK 01	
MO 322	KING HILL,SH MBR (LECOMPTON FM)							KGHL 06	
IA 322	KING HILL,SH MBR (LECOMPTON LS)							KGHL 04	
KS 322	KING HILL,SH MBR (LECOMPTON LS)	U						KGHL 05	
NE 322	KING HILL,SH MBR (LECOMPTON LS)	U			2	SE	A	KGHL 07	
NV 217	KING LEAR,FM	U	CGL,STS		910	NW	C	KGLR 01	
OK 317	KINGMAN,FM (HENNESSEY GP)	U						KNGM 04	
KS 317	KINGMAN,MBR (HARPER SS)			RD	24	SC	C	KNGM 05	
AZ 122	KINGMAN,SER		RHY		210	NW	C	KNGM 07	
KS 317	KINGMAN,SS MBR (HARPER STS)							KNGM 02	
OK 317	KINGMAN,SS MBR (HARPER STS)							KNGM 03	
OK 317	KINGMAN,STS (HENNESSEY GP)	U						KNGM 06	
AZ 122	[KINGMAN,VOLCS]							KNGM 01	
AZ 400	KING PEAK,RHYOLITE	U				WC	C	KGPK 02	
WY 124	KINGSBURY,CGL MBR (WASATCH FM)	U			760	NC	A	KGBR 01	
UT 347	KINGS CANYON,DOL				140	WC	C	KGSC 01	
OK 112	KINGSDOWN,FM	U						KGSD 04	
KS 112	KINGSDOWN,FM (SANBORN GP)	U			61	SW	A	KGSD 01	
OK 112	KINGSDOWN,MARL							KGSD 05	
KS 112	KINGSDOWN,SILT (SANBORN GP)	U						KGSD 03	
OK 112	KINGSDOWN,SILT (SANBORN GP)	U						KGSD 06	

NY	364	KINGS FALLS,LS (TRENTON GP)				30	NC	E	KGFL	01	
IL	364	KINGS LAKE,FM (GALENA GP)							KGLK	01	
MO	364	KINGS LAKE,FM (GALENA GP)				5	EC	D	KGLK	03	
MO	364	KINGS LAKE,LS (GALENA GP)							KGLK	04	
MO	364	KINGS LAKE,MBR (DECORAH FM)							KGLK	06	
PA	341	/KINGSLEY,RED SH MBR (NEW MILFORD FM)						NE	A	KGSL	03
PA	341	[KINGSLEY,SH MBR (NEW MILFORD FM)]								KGSL	04
PA	341	KINGS MILL,SS BED (IRISH VALLEY MBR OF CATSKILL FM)			WH	150	SC	A	KGML	04	
PA	341	KINGS MILL,SS MBR (CATSKILL FM)								KGML	02
NC	304+	KINGS MOUNTAIN,QTZ				150	C	A	KGSM	02	
SC	304+	KINGS MOUNTAIN,QTZ								KGSM	08
NC	360	KINGS MOUNTAIN,QTZ								KGSM	14
SC	360	KINGS MOUNTAIN,QTZ								KGSM	16
TN	367	KINGSPORT,DOL (BEEKMANTOWN GP)				85	NE	C	KGPR	07	
TN	367	KINGSPORT,DOL (KNOX GP)								KGPR	01
VA	367	KINGSPORT,DOL (KNOX GP)								KGPR	04
TN	367	KINGSPORT,FM (KNOX GP)								KGPR	02
TN	367	KINGSPORT,LS (KNOX GP)								KGPR	03
AR	364	KINGS RIVER,SS MBR (EVERTON FM)				12	NW	A	KGRV	01	
MI	420	KINGSTON,CGL [BED] (PORTAGE LAKE VOLCS)						NW	A	KNGS	02
UT	123	KINGSTON CANYON,TUFF MBR (MOUNT DUTTON FM)				2	SW	E	KGSC	02	
CA	410	KINGSTON PEAK,FM (PAHRUMP GP)				580	EC	C	KGPK	03	
CA	107+	KINGSTON RANGE,MONZONITE PORPHYRY						EC	C	KGRG	01
CA	211	KINGSTON RANGE,MONZONITE PORPHYRY								KGRG	02
OR	124	KINGS VALLEY,STS MBR (SILETZ RIVER VOLCS)				910	WC	C	KGVL	01	
AZ	317	KINISHBA,BEDS (SUPAI FM)						SE	A	KNSB	01
IL	332	KINKAID,LS				46	SC	A	KNKD	01	
IN	332	KINKAID,LS								KNKD	03
KY	332	KINKAID,LS								KNKD	05
KY	332	KINKAID,LS MBR (BUFFALO WALLOW FM)								KNKD	07
KS	317	KINNEY,LS MBR (MATFIELD SH)								KNNY	04
NE	317	KINNEY,LS MBR (MATFIELD SH)				4	SE	A	KNNY	06	
WY	124	KINNEY RIM,MBR (WASHAKIE FM)				270	SW	E	KNRM	01	
CA	122	KINNICK,FM				91	SC	A	KNCK	01	
ID	364	KINNIKINIC,QTZ				910	SC	A	KNKC	01	
MT	364	KINNIKINIC,QTZ								KNKC	02
OK	325	KINNISON,SH MBR (MULKY FM)				2	NE	C	KNSN	02	
KS	325	KINNISON,SH MBR (SENORA FM)								KNSN	04
MO	325	KINNISON,SH MBR (SENORA FM)								KNSN	05
OK	325	KINNISON,SH MBR (SENORA FM)								KNSN	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AZ 107	KINO,FM		CGL			SC	D	KINO 01
NV 124	KINSEY CANYON,FM		CGL			EC	C	KNSC 01
NH 347	KINSMAN,QUARTZ MONZONITE (NEW HAMPSHIRE GP)	U				C	A	KNSM 02
AZ 122	KINTER,FM	U	CGL		2000	SW	E	KNTR 02
CA 122	KINTER,FM	U						KNTR 03
MT 112	KINTYRE,FM	U	CL,ST		46	NE	D	KNTR 01
MD 374+	KINZERS,FM	U						KZRS 05
PA 374+	KINZERS,FM	U	SH		46	SE	A	KZRS 06
VA 374+	KINZERS,FM	U						KZRS 04
MD 377	KINZERS,FM	U						KZRS 01
PA 377	KINZERS,FM	U						KZRS 02
VA 377	KINZERS,FM	U						KZRS 03
GA 300	[KIOKEE,GNEISS]					EC	D	KIOK 02
GA 300	/KIOKEE,SER							KIOK 01
CA 211	KIONE,FM				670	WC	D	KION 01
CA 211	KIONE,SAND							KION 02
KS 217	KIOWA,FM	U			46	SC	A	KIOW 07
KS 217	KIOWA,SH	U						KIOW 02
OK 217	KIOWA,SH	U						KIOW 05
CO 217	KIOWA,SH MBR (PURGATOIRE FM)	U						KIOW 01
NM 217	KIOWA,SH MBR (PURGATOIRE FM)	U						KIOW 04
OK 217	KIOWA,SH MBR (PURGATOIRE FM)	U						KIOW 06
HI 112	KIPAHULU,FM (HANA GP)		VOL		460	EC	C	KPHL 01
VT 341	KIRBY,QUARTZ MONZONITE (NEW HAMPSHIRE GP)					NE	C	KRBY 02
TX 318	KIRBY LAKE,DOL (CLEAR FORK GP)					C	C	KBLK 02
TX 318	KIRBY LAKE,DOL MBR (ARROYO FM)							KBLK 03
TX 318	KIRBY LAKE,LS (CLEAR FORK GP)							KBLK 05
CA 123	KIRKER,TUFF	U		WH	140	WC	A	KRRR 01
NY 364	KIRKFIELD,FM (TRENTON GP)				14	CAN	C	KKFD 01
NY 364	KIRKFIELD,LS (TRENTON GP)							KKFD 02
ID 110+	KIRKHAM HOLLOW,VOLCS	U				SE	D	KKMH 01
ID 121	KIRKHAM HOLLOW,VOLCS	U						KKMH 02
NY 354	KIRKLAND,HEMATITE (CLINTON GP)				2	C	A	KKLD 06
NY 354	KIRKLAND,LS (CLINTON GP)							KKLD 03
UT 317	KIRKMAN,LS	U			150	C	C	KRKM 01
NJ 122	KIRKWOOD,FM	U	CL		34	WC	A	KRKD 01
PA 122	KIRKWOOD,FM	U						KRKD 02
TX 218	KIRSCHBERG,EVAPORITE (EDWARDS GP)				11	C	C	KCBG 06
TX 218	KIRSCHBERG,EVAPORITE [BED] (EDWARDS LS)							KCBG 02
TX 218	KIRSCHBERG,EVAPORITE MBR (FORT TERRETT FM)							KCBG 04

NM	125+	KIRTLAND,SH	U		360	NW	A	KRLD	02
CO	211	KIRTLAND,SH	U					KRLD	03
NM	211	KIRTLAND,SH	U					KRLD	04
ID	123+	KIRTLEY,FM (CHALLIS VOLCS)		SH	91	C	C	KRTL	01
ID	124	KIRTLEY,FM (CHALLIS VOLCS)						KRTL	02
OK	317	KISER,GYPSUM MBR (BLAINE FM)	U		1	C	A	KISR	01
TX	318	KISER,GYPSUM MBR (FLOWERPOT SH)						KISR	02
IL	211	KISER CREEK,MBR (BAYLIS FM)		SD,CL	6	WC	D	KRCK	01
MT	123+	KISHENEHN,FM		SED	210	CAN	A	KSNN	01
MT	124	KISHENEHN,FM						KSNN	02
AK	217	KISIMILOK,FM	U	MS	1500	NC	D	KMLK	01
TX	321	KISINGER,SS			46	NC	E	KSGR	01
AK	122	KISKA HARBOR,FM	U	VOL		SW	D	KKHB	01
NY	344	KISKATOM,FM (HAMILTON GP)	U		700	EC	A	KSKM	01
NY	344	KISKATOM,RED BEDS						KSKM	02
MO	357	KISSENGER,LS MBR (BRYANT KNOB FM)				NE	E	KSGR	02
MA	377	KITCHEN BROOK,DOL (STOCKBRIDGE GP)	U		140	NW	C	KCBK	01
MI	440	KITCHI,SCHIST	U			NW	A	KTCH	01
OK	347	KITE,GP		LS	61	SC	C	KITE	01
WA	112	KITSAP,FM	U	CL	61	C	C	KTSP	01
PA	324	KITTANNING,FM (ALLEGHENY GP)	U	SS,SH	30	WC	C	KNNG	06
PA	324	KITTANNING,SS MBR (ALLEGHENY FM)	U		15	WC	A	KNNG	08
NJ	367+	KITTATINNY,LS	U		600	NC	A	KTTN	01
PA	367+	KITTATINNY,LS	U					KTTN	02
NJ	371	KITTATINNY,LS	U					KTTN	03
PA	371	KITTATINNY,LS	U					KTTN	04
NJ	374	KITTATINNY,LS	U					KTTN	05
PA	374	KITTATINNY,LS	U					KTTN	07
NJ	377	KITTATINNY,LS	U					KTTN	06
PA	377	KITTATINNY,LS	U					KTTN	08
ME	357	KITTERY,FM (MERRIMACK GP)	U		460	SW	A	KTTR	01
NH	357	KITTERY,FM (MERRIMACK GP)						KTTR	02
ME	357	KITTERY,QTZ (MERRIMACK GP)	U					KTTR	03
NH	357	KITTERY,QTZ (MERRIMACK GP)	U					KTTR	04
AZ	122+	KITT PEAK,GRANITE				SC	D	KTPK	02
AZ	123	KITT PEAK,GRANITE						KTPK	04
CA	112	KLAMATH,GRAVEL			30	NW	A	KLMT	01
CA	200+	KLAMATH MOUNTAIN,COMPLEX						KLMM	01
OR	200+	KLAMATH MOUNTAIN,COMPLEX		MIG		SW	D	KLMM	02
CA	300	KLAMATH MOUNTAIN,COMPLEX						KLMM	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OR 300	KLAMATH MOUNTAIN, COMPLEX							KLMM 04
AK 324+	KLAWAK, FM	U	STS, SS		300	SE	E	KLWK 02
AK 327	KLAWAK, FM	U						KLWK 01
ND 224	KLINE, MBR (NESSON FM)	U	LS, DOL		45	NW	C	KLIN 03
MT 224	KLINE, MBR (NESSON FM)	U						KLIN 02
WA 112	KLINKER, TILL				5	WC	D	KLKR 01
OH 344	KLONDIKE, MBR (COLUMBUS LS)				12	C	A	KLDK 01
WA 124	KLONDIKE MOUNTAIN, FM	U	VSED			NE	C	KDKM 01
AK 304+	[KLUTINA, FM]		SCH			C	A	KLTN 05
AK 320	[KLUTINA, FM]							KLTN 06
AK 330	[KLUTINA, FM]							KLTN 07
AK 304+	/KLUTINA, GP	U						KLTN 01
AK 320	/KLUTINA, GP	U						KLTN 03
AK 330	/KLUTINA, GP	U						KLTN 04
NY 337	KNAPP, FM	U	SH		32	WC	A	KNPP 01
PA 337	KNAPP, FM	U						KNPP 07
NY 337	KNAPP, FM (POCONO GP)							KNPP 05
PA 337	KNAPP, FM (POCONO GP)							KNPP 13
NM 123	KNEELING NUN, TUFF	U			61	SW	C	KLGN 01
NM 123	KNEELING NUN, TUFF MBR (DATIL FM)							KLGN 02
NV 112+	KNICKERBOCKER, ANDESITE	U		BK	61	WC	C	KKBK 01
NV 121	KNICKERBOCKER, ANDESITE	U						KKBK 02
MN 440	[KNIFE LAKE, FM]		SL, GYK		6400	NE	A	KFLK 02
MN 440	/KNIFE LAKE, GP	U						KFLK 01
KY 337	KNIFLEY, SS MBR (FORT PAYNE FM)	U			60	SC	E	KNFL 01
UT 124	KNIGHT, CGL	U						KNGT 01
WY 124	KNIGHT, CGL	U			460	SW	A	KNGT 04
UT 124	KNIGHT, FM							KNGT 02
WY 124	KNIGHT, FM							KNGT 05
UT 124	KNIGHT, MBR (WASATCH FM)							KNGT 03
WY 124	KNIGHT, MBR (WASATCH FM)							KNGT 06
WA 124	KNOB HILL, ANDESITE				160	NW	C	KBHL 01
MO 420	KNOB LICK, GRANITE	U			120	SE	A	KBLK 04
MO 420	KNOB LICK, GRANITE (BEVOS GP)							KBLK 06
PA 344	KNOBVILLE, BEDS (MAHANTANGO FM)		SED		300	SC	A	KBVL 01
KS 323	KNOBTOWN, SS (PLEASANTON GP)							KNBN 02
MO 323	KNOBTOWN, SS [MBR] (PLEASANTON FM)				8	WC	A	KNBN 04
LA 221	KNOWLES, LS (COTTON VALLEY GP)				94	NW	D	KNLS 01
AL 367+	KNOX, DOL	U						KNOX 01
IN 367+	KNOX, DOL							KNOX 22

KY	367+	KNOX,DOL		U								KNOX	03
MS	367+	KNOX,DOL										KNOX	20
TN	367+	KNOX,DOL		U		1200	EC	A				KNOX	06
AL	371	KNOX,DOL		U								KNOX	09
IN	371	KNOX,DOL										KNOX	23
KY	371	KNOX,DOL		U								KNOX	11
MS	371	KNOX,DOL										KNOX	21
TN	371	KNOX,DOL		U								KNOX	14
ME	304	KNOX,GNEISS						SC	A			KNOX	17
AL	367+	KNOX,GP										KNOX	18
GA	367+	KNOX,GP		U								KNOX	02
KY	367+	KNOX,GP		U								KNOX	04
TN	367+	KNOX,GP		U								KNOX	07
VA	367+	KNOX,GP		U								KNOX	08
AL	371	KNOX,GP										KNOX	19
GA	371	KNOX,GP		U								KNOX	10
KY	371	KNOX,GP		U								KNOX	12
TN	371	KNOX,GP		U								KNOX	15
VA	371	KNOX,GP		U								KNOX	16
OH	112	KNOX LAKE,TILL						NC	D			KXLK	01
VT	341	KNOX MOUNTAIN,GRANITE						C	A			KNXM	01
CA	221	KNOXVILLE,FM		U	SH		6100	NW	A			KXVL	02
WA	230+	KOBAU,FM		U	GNS		3700	CAN	E			KOBU	01
WA	310	KOBAU,FM		U								KOBU	02
NV	347	KOBEH,MBR (MCCOLLEY CANYON FM)			DOL		110	C	E			KOBH	01
NY	354	KODAK,SS (CLINTON GP)				WH		WC	A			KODK	02
AK	211	KODIAK,FM		U	SS		30000	SC	E			KODK	01
MI	344	KOEHLER,LS (TRAVERSE GP)					12	EC	C			KHLR	01
AZ	210	KOFA,VOLCS						WC	C			KOFA	01
AK	211	KOGOSUKRUK,TONGUE (PRINCE CREEK FM)		U	CL,ST		710	NC	C			KGKK	01
AK	331+	KOGRUK,FM (LISBURNE GP)		U	LS		160	NC	D			KGRK	05
AK	337	KOGRUK,FM (LISBURNE GP)		U								KGRK	06
NV	237	KOIPATO,FM		U	ARG		4300	NW	A			KOPT	01
NV	237	KOIPATO,GP		U								KOPT	02
TX	111	KOKERNOT,FM			SD,ST		4	WC	C			KKRN	01
HI	111+	KOKO,VOLCS (HONOLULU GP)						NC	A			KOKO	01
HI	112	KOKO,VOLCS (HONOLULU GP)										KOKO	02
IN	351	KOKOMO,LS		U			46	NC	A			KOKM	01
IN	351	KOKOMO,LS MBR (SALINA FM)										KOKM	02
MT	107+	KOKORUDA RANCH,COMPLEX		U	INTR			C	D			KKRC	01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MT 211	KOKORUDA RANCH, COMPLEX	U						KKRC 02
HI 112	KOLEKOLE, VOLCS				2	NC	C	KLKL 01
HI 111+	[KOLOA, VOLCS]				640	NW	C	KOLO 05
HI 112	[KOLOA, VOLCS]							KOLO 06
HI 111+	/KOLOA, VOLC SER	U						KOLO 02
HI 112	/KOLOA, VOLC SER	U						KOLO 04
UT 107	KOLOB, LATITE	U				SW	D	KOLB 01
UT 224	/KOLOB, LS MBR (CARMEL FM)				170	SW	E	KOLB 03
AK 224	KOLOSH, MBR (KIALAGVIK FM)		SS		61	C	C	KLSH 01
MI 430	KONA, DOL (CHOCOLAY GP)	U			210	NW	A	KONA 05
OK 317	KONAWA, FM (PONTOTOC GP)		SH	RD	150	EC	A	KONW 01
AK 217	KONGAKUT, FM	U	SH, STS		640	NE	E	KNGK 04
CA 110	[KONOCTI, DACITE (CLEAR LAKE VOLCS)]				460	NW	C	KNCT 03
CA 110	/KONOCTI, VOLCS (CLEAR LAKE VOLCS)							KNCT 01
HI 112+	KOOLAU, BASALT				900	NC	A	KOLU 01
HI 121	KOOLAU, BASALT							KOLU 03
HI 112+	/KOOLAU, VOLC SER	U						KOLU 02
HI 121	/KOOLAU, VOLC SER	U						KOLU 04
ID 217	KOOTENAI, FM	U						KOTN 03
MT 217	KOOTENAI, FM	U	SH, SS		145	NC	A	KOTN 04
WY 217	KOOTENAI, FM	U						KOTN 05
AK 122+	KOOTZNAHOO, FM	U	CGL		1500	SE	D	KTZN 01
AK 123	KOOTZNAHOO, FM	U						KTZN 02
AK 124	KOOTZNAHOO, FM	U						KTZN 03
AK 125	KOOTZNAHOO, FM	U						KTZN 04
KY 361	KOPE, FM	U						KOPE 02
OH 361	KOPE, FM	U	SH, LS		74	SE	D	KOPE 03
IN 361	KOPE, FM (MAQUOKETA GP)							KOPE 01
CA 231	KOSK, MBR (MODIN FM)		ARG		1100	NW	C	KOSK 01
MS 124	KOSKIUSKO, FM (CLAIBORNE GP)				120	C	C	KSKK 01
MS 124	KOSKIUSKO, SAND (CLAIBORNE GP)	U						KSKK 02
AK 221+	KOTSINA, CGL	U			760	EC	A	KTSN 01
AK 224	KOTSINA, CGL	U						KTSN 02
AK 101+	KOUGAROK, GRAVEL	U			75	NC	D	KGRK 01
AK 104	KOUGAROK, GRAVEL	U						KGRK 02
AK 112	KOUGAROK, GRAVEL	U						KGRK 03
AZ 300+	KO VAYA, QUARTZ MONZONITE					SC	C	KOVY 01
AZ 400	KO VAYA, QUARTZ MONZONITE							KOVY 02
AL 307	KOWALIGA, GNEISS					C	E	KWLG 01
AK 217	[KORYUKUK, FM]		LS		240	NC	A	KYKK 02



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AK 124	KUSHTAKA,FM	U						KSTK 02
AK 211+	[KUSKOKWIM,FM]		SS,SH		20000	C	C	KKKM 03
AK 217	[KUSKOKWIM,FM]							KKKM 04
AK 211+	/KUSKOKWIM,GP	U						KKKM 01
AK 217	/KUSKOKWIM,GP	U						KKKM 02
AK 231	KUSKULANA,FM	U	SS,SH				A	KSKL 01
AZ 420	KWAGUNT,FM (CHUAR GP)		SED		680	NC	E	KGNT 01
KY 327	KYROCK,CGL					SC	C	KRCK 02
OK 322	LABADIE,LS MBR (VAMOOSA FM)	U			3	NE	A	LBDI 01
TX 121	LABAHIA,MBR (GOLIAD FM)		SS			SE	A	LBHI 01
WY 124	LA BARGE,MBR (WASATCH FM)	U	MS	VAR	91	SW	D	LBRG 04
FL 121	LA BELLE,CLAY MBR (TAMIAMI FM)					EC	D	LBLL 01
KS 325	LABERDIE,MBR (PAWNEE LS)				9	EC	C	LBRD 01
MO 325	LABETTE,FM (MARMATON GP)							LBTT 05
IA 325	LABETTE,SH (MARMATON GP)	U						LBTT 01
KS 325	LABETTE,SH (MARMATON GP)	U			23	SE	A	LBTT 02
MO 325	LABETTE,SH (MARMATON GP)	U						LBTT 03
OK 325	LABETTE,SH (MARMATON GP)	U						LBTT 04
NM 319+	LABORCITA,FM (MAGDALENA GP)		SH		150	SC	C	LBRC 02
NM 321	LABORCITA,FM (MAGDALENA GP)							LBRC 03
NV 122	LABYRINTH CANYON,MBR (THIRSTY CANYON TUFF)	U			15	C	D	LBRC 01
NM 317+	LA CASA,MBR (WILD COW FM)		LS		88	C	E	LACS 02
NM 321	LA CASA,MBR (WILD COW FM)							LACS 01
IL 371	LACEY,MBR (MOUNT SIMON SS)				58	NE	C	LCEY 01
MD 341	LACKAWAXEN,CGL [MBR] (CHEMUNG FM)							LCKX 01
PA 341	LACKAWAXEN,CGL [MBR] (CHEMUNG FM)				15	NE	A	LCKX 02
WV 341	LACKAWAXEN,CGL [MBR] (CHEMUNG FM)							LCKX 03
PA 341	LACKAWAXEN,FM (WALTON GP)							LCKX 04
MI 420	LAC LA BELLE,CGL [BED] (PORTAGE LAKE VOLCS)	U				NW	A	LCBL 02
WY 124	LACLEDE,BED (LANEY MBR OF GREEN RIVER FM)	U	SH		139	SW	E	LCLD 02
OR 112	LACOMB,GRAVEL				30	WC	C	LCMB 01
IL 110	LACON,FM		MD			NC	E	LCON 01
NM 400	LACOROCAH,META-ANDESITE				610	C	C	LCRC 03
FL 212	LA CROSSE,SS				83	NE	E	LCRS 02
NM 211	LA CRUZ PEAK,FM (MESAVERT GP)		SH		180	WC	C	LCZP 01
CA 211	LADD,FM	U	CGL		520	SC	C	LADD 01
OR 111	LADD CREEK,MUDFLOW				6	NW	D	LDCK 01
IA 323	LADORE,SH (KANSAS CITY GP)	U						LDOR 02
KS 323	LADORE,SH (KANSAS CITY GP)	U			2	SE	A	LDOR 04
MO 323	LADORE,SH (KANSAS CITY GP)	U						LDOR 06

NE	323	LADORE,SH (KANSAS CITY GP)	U									LDOR	08
AK	324+	LADRONES,LS	U			270	SE	E				LDRS	03
AK	327	LADRONES,LS	U									LDRS	04
SC	112	LADSON,FM	U	SD		10	SE	C				LDSN	01
AR	354	LAFFERTY,LS	U			26	NC	A				LFRT	01
TN	331	LA FOLLETTE,MBR (MONTEAGLE LS)	U	SH		2	SC	D				LFLT	03
CO	123	LA GARITA,MBR (FISH CANYON TUFF)	U			760	SW	D				LGRT	02
TX	122	LAGARTO,CLAY (FLEMING GP)	U			200	SC	A				LGRT	03
TX	121	LAGARTO CREEK,CLAY MBR (GOLIAD SAND)				15	SC	A				LGCK	01
MO	325	LAGONDA,FM (CABANISS GP)				15	NC	C				LGND	03
OK	325	LAGONDA,FM (CABANISS GP)										LGND	05
KS	325	LAGONDA,FM (CHEROKEE GP)										LGND	01
MO	325	LAGONDA,FM (CHEROKEE GP)										LGND	08
KS	325	LAGONDA,MBR (SENORA FM)										LGND	09
OK	325	LAGONDA,MBR (SENORA FM)										LGND	06
KS	325	LAGONDA,SS MBR (CHEROKEE SH)	U									LGND	02
MO	325	LAGONDA,SS MBR (CHEROKEE SH)	U									LGND	04
IN	112	LAGRO,FM		TL		14	NE	C				LGRO	01
NM	112	LAGUNA,BASALT						WC	A			LGUN	01
CA	121	LAGUNA,FM	U	ST		120	NW	A				LGUN	02
CA	124+	LAGUNA SECA,FM		SD		340	C	C				LGSC	01
CA	125	LAGUNA SECA,FM										LGSC	02
UT	123	LAGUNA SPRINGS,LATITE	U					C	D			LGSP	02
NM	313	LAGUNITA,FM (SAN ANDRES GP)		LS		27	NW	C				LGNT	01
NM	123	/LAGUNITAS,CLASTIC MBR (TREASURE MOUNTAIN TUFF)				71	NC	C				LGNS	01
NM	123	[LAGUNITAS,MBR (TREASURE MOUNTAIN TUFF)]										LGNS	02
CA	112	LA HABRA,CGL				120	SC	A				LHBR	01
CA	112	LA HABRA,FM	U									LHBR	02
HI	111+	[LAHAINA,GP]						EC	C			LHIN	03
HI	112	[LAHAINA,GP]										LHIN	04
HI	111+	/LAHAINA,VOLC SER	U									LHIN	01
HI	112	/LAHAINA,VOLC SER	U									LHIN	02
NV	111+	LAHONTAN VALLEY,GP	U	SED				WC	D			LNVL	05
NV	112	LAHONTAN VALLEY,GP	U									LNVL	01
MT	420	LAHOOD,FM (BELT SUPERGROUP)		SS		820	WC	C				LHOD	01
NM	312	LA HUERTA,STS MBR (SALADO FM)				2	SE	C				LHRT	01
TX	312	LA HUERTA,STS MBR (SALADO FM)										LHRT	02
HI	111+	LAINA,VOLCS (LAHAINA GP)	U			18	EC	C				LAIN	01
HI	112	LAINA,VOLCS (LAHAINA GP)	U									LAIN	02
CA	125	LAIRD,SS	U			30	WC	C				LIRD	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO 123	LA JARA CANYON,MBR (TREASURE MOUNTAIN TUFF)	U			100	SC	E	LJRC 01
NM 123	LA JARA PEAK,MBR (DATIL FM)		VOL		370	WC	C	LJPK 01
CA 124	LA JOLLA,FM		SD		91	SE	A	LJLL 01
CA 124	LA JOLLA,GP	U						LJLL 02
WY 224	LAK,MBR (RIERDON FM)		SS	RD	24	NE	C	LAK 05
CO 224	LAK,MBR (SUNDANCE FM)	U						LAK 02
MT 224	LAK,MBR (SUNDANCE FM)							LAK 07
SD 224	LAK,MBR (SUNDANCE FM)	U						LAK 04
WY 224	LAK,MBR (SUNDANCE FM)	U						LAK 06
MI 420	LAKE,AMYGDALOID (PORTAGE LAKE VOLCS)	U				NW	A	LAKE 06
CA 112+	LAKE,BASALT					NC	C	LAKE 01
CA 121	LAKE,BASALT							LAKE 02
NH 227+	LAKE,QUARTZ SYENITE (WHITE MOUNTAIN GP)					C	C	LAKE 03
NH 231	LAKE,QUARTZ SYENITE (WHITE MOUNTAIN GP)							LAKE 04
MN 112	LAKE AGASSIZ,CLAY					NW	A	LKAZ 01
ND 112	LAKE AGASSIZ,CLAY							LKAZ 02
CO 123	LAKE AGNES,QUARTZ MONZONITE					NE	C	LKAG 01
OK 328	LAKE ARDMORE,FM (SPRINGER GP)				6	SE	A	LKAM 01
OK 328	LAKE ARDMORE,SS (DORNICK HILLS GP)							LKAM 03
OK 328	LAKE ARDMORE,SS (SPRINGER GP)	U						LKAM 04
OK 328	LAKE ARDMORE,SS MBR (SPRINGER FM)							LKAM 02
ID 112	LAKE BONNEVILLE,GP	U						LKBV 01
UT 112	LAKE BONNEVILLE,GP	U	SED			NC	A	LKBV 02
TX 321	LAKE BRIDGEPORT,SH [MBR] (GRAFORD FM)				91	NE	A	LKBP 01
CT 112	LAKE CHAMBERLAIN,TILL				6	C	D	LKCB 01
WI 344	LAKE CHURCH,FM		DOL		14	SE	A	LKCC 01
FL 124	LAKE CITY,LS	U			150	NE	C	LKCT 01
GA 124	LAKE CITY,LS	U						LKCT 03
FL 124	LAKE CITY,LS (CLAIBORNE GP)							LKCT 02
GA 124	LAKE CITY,LS (CLAIBORNE GP)							LKCT 04
IL 325	LAKE CREEK,COAL MBR (MODESTO FM)				<1	SC	C	LKCK 11
CO 112	LAKE CREEK,FM		SED			C	C	LKCK 01
KS 211	LAKE CREEK,MBR (PIERRE SH)				61	NW	A	LKCK 02
CA 310+	LAKE DOROTHY,HORNFELS	U			300	C	D	LKDR 01
CA 320	LAKE DOROTHY,HORNFELS	U						LKDR 02
FL 111+	LAKE FLIRT,FM				1	EC	A	LKFL 03
FL 112	LAKE FLIRT,FM							LKFL 04
FL 111+	LAKE FLIRT,MARL	U						LKFL 01
FL 112	LAKE FLIRT,MARL	U						LKFL 02
IL 111	LAKE FOREST,MBR (LAKE MICHIGAN FM)		CL		<1	NE	E	LKFR 01

MI	111	LAKE FOREST, MBR (LAKE MICHIGAN FM)										LKFR	02
WI	111	LAKE FOREST, MBR (LAKE MICHIGAN FM)										LKFR	03
CO	123	LAKE FORK, FM	U	AND		300	SW	A				LKFK	01
TX	318	LAKE KEMP, FM		LS				NC	A			LKKP	01
CA	121	LAKE MATHEWS, FM		SS		89	SE	E				LKMS	01
WY	400	LAKE MCCLAIN, QUARTZ DIORITE						NC	E			LKMC	01
MI	110	LAKE MICHIGAN, FM										LKMG	02
WI	110	LAKE MICHIGAN, FM										LKMG	03
IL	111+	LAKE MICHIGAN, FM		CL		3	NE	E				LKMG	01
IL	112	LAKE MICHIGAN, FM										LKMG	04
OK	326	LAKE MURRAY, FM (DORNICK HILLS GP)		SS		1000	SE	C				LKMR	01
IA	325	LAKE NEOSHO, SH MBR (ALTAMONT LS)										LKNS	05
KS	325	LAKE NEOSHO, SH MBR (ALTAMONT LS)	U			2	SE	C				LKNS	06
MO	325	LAKE NEOSHO, SH MBR (ALTAMONT LS)										LKNS	07
NV	121+	LAKE NEWARK, FM		TF		130	NE	C				LKNK	01
NV	122	LAKE NEWARK, FM										LKNK	02
TX	324	LAKE PINTO, SS (STRAWN GP)				7	C	A				LKPN	07
TX	324	LAKE PINTO, SS MBR (MINERAL WELLS FM)	U									LKPN	01
UT	327+	LAKE POINT, LS (OQUIRRH GP)	U			520	NW	E				LKPN	03
UT	331	LAKE POINT, LS (OQUIRRH GP)	U									LKPN	05
NY	350	LAKEPORT, DOL				5	WC	A				LKPR	01
MT	124	LAKESIDE, CLAY [MBR] (GOLDEN VALLEY FM)				2	NE	C				LKSD	01
MN	420	LAKESIDE, LAVA (NORTH SHORE GP)				1100	EC	E				LKSD	02
ID	351+	LAKETOWN, DOL	U									LKTN	01
NV	351+	LAKETOWN, DOL	U									LKTN	02
UT	351+	LAKETOWN, DOL	U			300	NC	A				LKTN	03
WY	351+	LAKETOWN, DOL	U									LKTN	04
ID	354	LAKETOWN, DOL	U									LKTN	05
NV	354	LAKETOWN, DOL	U									LKTN	06
UT	354	LAKETOWN, DOL	U									LKTN	07
WY	354	LAKETOWN, DOL	U									LKTN	08
MT	350	LAKETOWN, FM										LKTN	09
FL	217	LAKE TRAFFORD, FM (OCEAN REEF GP)		LS		41	SE	E				LKTF	01
NM	337	LAKE VALLEY, LS	U			64	SW	A				LKVL	02
WA	122	LAKE VANTAGE, LAVA (YAKIMA BASALT)						C	C			LKVG	01
MN	440	LAKE VERMILION, FM		MVOL		5900	NE	E				LKVM	02
ID	374	LAKEVIEW, LS	U					NW	A			LKVV	05
CA	211	LAKEVIEW MOUNTAIN, TONALITE	U					SE	C			LKVM	01
TX	212	LAKE WACO, FM (EAGLE FORD GP)		LS		24	C	C				LKWC	01
CA	210	LAKE WOHLFORD, LEUCOGRANODIORITE	U					SE	C			LKWF	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MN 420	LAKWOOD,BASALT (NORTH SHORE GP)				1300	EC	E	LKWD 03
CA 112	LAKWOOD,FM		GVL		100	SC	D	LKWD 02
NE 217	LAKOTA,FM	U						LKOT 07
ND 217	LAKOTA,FM (DAKOTA GP)							LKOT 08
NE 217	LAKOTA,FM (DAKOTA GP)							LKOT 01
SD 217	LAKOTA,FM (INYAN KARA GP)	U			91	SW	A	LKOT 03
WY 217	LAKOTA,FM (INYAN KARA GP)	U						LKOT 04
MT 217	LAKOTA,SS (INYAN KARA GP)							LKOT 10
SD 217	LAKOTA,SS (INYAN KARA GP)							LKOT 06
WY 217	LAKOTA,SS (INYAN KARA GP)							LKOT 05
NM 313	LAMAR,LS MBR (BELL CANYON FM)	U						LAMR 01
TX 313	LAMAR,LS MBR (BELL CANYON FM)	U				9	WC	A LAMR 03
CA 211	LAMARCK,GRANODIORITE	U					C	D LMCK 03
MT 124	LAMAR RIVER,FM (WASHBURN GP)	U						LMRV 02
WY 124	LAMAR RIVER,FM (WASHBURN GP)	U	VOL		670	NW	E	LMRV 03
UT 371+	LAMB,DOL	U			315	WC	A	LAMB 01
UT 374	LAMB,DOL	U						LAMB 02
ME 341	LAMB COVE,MBR (PERRY FM)		CGL	RD	260	EC	E	LBCV 01
CA 122	LAMBERT,SH	U			1500	WC	D	LMBR 01
UT 231	LAMB POINT,TONGUE (NAVAJO SS)	U			160	SW	C	LMBP 01
AR 371	LAMOTTE,SS	U						LMTT 01
KS 371	LAMOTTE,SS	U						LMTT 02
MO 371	LAMOTTE,SS	U			76	SE	A	LMTT 03
OK 371	LAMOTTE,SS	U						LMTT 04
IN 338	LAMPKINS,SS MBR (CARWOOD FM)				1	C	A	LMPK 02
NV 112+	LAMPSON,FM		TF		91	EC	C	LMPS 01
NV 121	LAMPSON,FM							LMPS 02
VT 377	LANA,CGL				2	WC	A	LANA 01
VT 377	/LANA,SH					WC	A	LANA 02
HI 112+	/LANAI,BASALT (LANAI GP)				1000	C	C	LANI 01
HI 121	/LANAI,BASALT (LANAI GP)							LANI 03
HI 112+	[LANAI,GP]							LANI 05
HI 121	[LANAI,GP]							LANI 06
HI 112+	/LANAI,VOLC SER	U						LANI 02
HI 121	/LANAI,VOLC SER	U						LANI 04
CO 211	LANCE,FM							LNCE 02
WY 211	LANCE,FM	U	SH		790	EC	C	LNCE 01
AZ 217	LANCHA,LS [BED] (PACHETA MBR OF LOWELL FM)				3	SE	C	LNCH 01
NH 227+	LANDAFF,GRANITE (WHITE MOUNTAIN GP)						C	A LNDF 01
NH 231	LANDAFF,GRANITE (WHITE MOUNTAIN GP)							LNDF 02





ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	341	LAONA, STS MBR (CANADAWAY FM)							LAON 02
TX	121	LAPARA, MBR (GOLIAD SAND)	U		VAR	6	SC	A	LAPR 01
NM	324+	LA PASADA, FM	U	LS		300	NC	D	LPSD 01
NM	327	LA PASADA, FM	U						LPSD 02
TX	124	LA PERLA, SH MBR (YEGUA FM)				45	SC	C	LPRL 01
UT	123	LAPOINT, MBR (DUCESNE RIVER FM)		SS		100	NE	A	LPNT 01
CA	123	LA PORTE, TUFF					NC	D	LPRT 01
IA	347	LA PORTE CITY, CHERT				17	EC	D	LPRC 01
CA	201	LA POSTA, QUARTZ DIORITE					SE	A	LPST 01
CA	221	LAR, QUARTZ DIORITE					SC	C	LAR 01
WY	420	LARAMIE, ANORTHOSITE COMPLEX				4000	SE	E	LRMI 02
CO	211	LARAMIE, FM	U	SS		460	NC	A	LRMI 01
TX	124	LAREDO, FM (CLAIBORNE GP)	U	SS		190	SC	C	LRDO 02
CO	211	LARIMER, SS MBR (PIERRE SH)	U			45	NC	A	LRMR 01
PA	367	LARKE, DOL (BEEKMANTOWN GP)	U		BL	76	SC	A	LRKE 01
NY	364	LARRABEE, MBR (GLENS FALLS LS)							LRRB 01
VT	364	LARRABEE, MBR (GLENS FALLS LS)				6	WC	C	LRRB 02
CO	324	LARSEN, QTZ				23	SW	E	LRSN 01
IA	322	LARSH, SH MBR (DEER CREEK LS)	U						LRSH 02
KS	322	LARSH, SH MBR (DEER CREEK LS)	U						LRSH 04
MO	322	LARSH, SH MBR (DEER CREEK LS)	U						LRSH 06
NE	322	LARSH, SH MBR (DEER CREEK LS)	U						LRSH 08
MN	420	[LARSMONT, BASALT (NORTH SHORE GP)]				490	EC	E	LRSN 02
MN	420	[LARSMONT, OPHITIC BASALT (NORTH SHORE GP)]							LRSN 01
IL	323	LA SALLE, LS MBR (BOND FM)				9	NE	A	LSLL 02
CO	123	LA SAUSES, MBR (CONEJOS FM)				240	SC	E	LSSS 01
TX	218	LASCA, FM			SED	180	WC	C	LASC 02
TX	337	LAS CRUCES, FM				18	WC	C	LCRC 02
NM	337	LAS CRUCES, LS							LCRC 01
TX	337	LAS CRUCES, LS							LCRC 04
NM	112+	LAS FEVERAS, FM	U	ALV		45	NE	C	LFVR 01
NM	121	LAS FEVERAS, FM	U						LFVR 02
CA	210	LA SIERRA, TONALITE	U				SE	C	LSRR 01
CA	124	LAS JUNTAS, SH				31	NW	C	LSJS 01
CA	112	LAS POSAS, FM		SD		23	SC	A	LSPS 02
CA	100	LASSEN, DACITE					NW	A	LSSN 01
CA	100	LASSEN, VOLCS							LSSN 02
NM	122	LAST CHANCE, ANDESITE	U			180	WC	A	LSCC 01
UT	200+	[LAST CHANCE, QUARTZ MONZONITE					NC	C	LSCC 02
UT	310	[LAST CHANCE, QUARTZ MONZONITE							LSCC 03

NV	112	LAS VEGAS,FM	U	CL		SE	D	LSVG	01	
NM	217	LAS VIGAS,FM		SS	600	MEX	A	LSVG	05	
TX	218	LAS VIGAS,FM						LSVG	04	
CA	125	LAS VIRGENES,SS			94	SC	A	LVRG	01	
ID	122	LATAH,FM	U					LATH	01	
WA	122	LATAH,FM	U	CL	76	EC	A	LATH	02	
CA	377	LATHAM,SH	U		23	SE	C	LTHM	05	
NM	122	LATIR PEAK,LATITE				NC	C	LRPK	01	
CA	122	LATRANIA,SAND MBR (IMPERIAL FM)			61	SE	A	LTRN	02	
NM	327	LA TUNA,FM (MAGDALENA GP)						LTUN	04	
TX	327	LA TUNA,FM (MAGDELENA GP)		LS	110	WC	C	LTUN	03	
NM	327	LA TUNA,MBR (MAGDALENA FM)	U					LTUN	01	
TX	327	LA TUNA,MBR (MAGDALENA FM)	U					LTUN	02	
HI	111+	[LAUPAHOEHOE,ANDESITE]			>300	SE	C	LPHH	05	
HI	112	[LAUPAHOEHOE,ANDESITE]						LPHH	06	
HI	111+	/LAUPAHOEHOE,VOLC SER	U					LPHH	01	
HI	112	/LAUPAHOEHOE,VOLC SER	U					LPHH	02	
KY	354	LAUREL,DOL	U					LURL	03	
OH	354	LAUREL,DOL	U					LURL	05	
IN	354	LAUREL,LS	U		4	EC	A	LURL	02	
TN	354	LAUREL,LS (WAYNE GP)						LURL	07	
MO	354	LAUREL,LS MBR (BAINBRIDGE FM)						LURL	04	
TN	354	LAUREL,LS MBR (WAYNE FM)	U					LURL	08	
OH	354	LAUREL,MBR (ALGER FM)						LURL	06	
IN	354	LAUREL,MBR (SALAMONIE DOL)						LURL	09	
AZ	400	LAUREL CANYON,GRANODIORITE	U			SE	D	LRLC	02	
PA	324	LAUREL RUN,FM (ALLEGHENY GP)		SH	14	C	E	LRLR	01	
NY	344	LAURENS,FM (GENESEE GP)		SS	27	C	A	LRNS	04	
NY	344	LAURENS,MBR (TULLY LS)						LRNS	03	
PA	344	LAURENS,MBR (TULLY LS)						LRNS	05	
MI	440	/LAURENTIAN,SER	U	GR,MET		CAN	A	LRNN	01	
OR	111	[LAVA BUTTE,BASALT]					C	D	LVBT	02
OR	111	/LAVA BUTTE,FLOW							LVBT	01
OR	111	[LAVA CAST FOREST,BASALT]					C	D	LVCF	02
OR	111	/LAVA CAST FOREST,FLOW							LVCF	01
ID	112	LAVA CREEK,TUFF (YELLOWSTONE GP)	U						LVCK	02
MT	112	LAVA CREEK,TUFF (YELLOWSTONE GP)	U						LVCK	03
WY	112	LAVA CREEK,TUFF (YELLOWSTONE GP)	U		210	NW	E	LVCK	05	
AZ	374	LAVA FALLS,TONGUE (MUAV LS)			5	NC	C	LVFL	02	
OR	111	[LAVA LAKE,BASALT]					C	D	LVLK	02

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OR	111	/LAVA LAKE, FLOW							LVLK 01
MO	347	LA VALE, MBR (KEYSER LS)				10	NW	E	LVLE 04
PA	347	LA VALE, MBR (KEYSER LS)							LVLE 02
VA	347	LA VALE, MBR (KEYSER LS)							LVLE 03
WV	347	LA VALE, MBR (KEYSER LS)							LVLE 01
CA	121	LAVA MOUNTAINS, ANDESITE	U				SE	D	LVMS 01
OR	111	[LAVA TOP BUTTE, BASALT]					C	E	LVTB 02
OR	111	/LAVA TOP BUTTE, FLOW							LVTB 01
GA	337	LAVENDER, SH MBR (FORT PAYNE CHERT)	U			15	NW	C	LVDR 03
NM	211	LA VENTANA, TONGUE (CLIFF HOUSE SS)	U			380	NW	A	LVNN 03
KS	121	LAVERNE, FM	U						LVRN 02
OK	121	LAVERNE, FM	U	LS		11	NC	A	LVRN 03
OH	112	LAVERY, TILL	U						LVRV 01
PA	112	LAVERY, TILL	U				NW	C	LVRV 02
CA	122	LA VIDA, MBR (PUENTE FM)	U	STS		910	SC	C	LVID 01
AZ	420	LAWLER PEAK, GRANITE	U				WC	C	LLPK 02
CA	121	LAWLOR, TUFF				30	NW	C	LWLR 01
OH	324	LAWRENCE, CLAY [BED] (ALLEGHENY FM)				3	SC	A	LRNC 09
WV	324	LAWRENCE, CLAY [BED] (ALLEGHENY FM)							LRNC 13
KS	322	LAWRENCE, FM (DOUGLAS GP)	U			64	EC	A	LRNC 03
MO	322	LAWRENCE, FM (DOUGLAS GP)							LRNC 05
NE	322	LAWRENCE, FM (DOUGLAS GP)	U						LRNC 08
IA	322	LAWRENCE, SH (DOUGLAS GP)	U						LRNC 02
KS	322	LAWRENCE, SH (DOUGLAS GP)	U						LRNC 04
MO	322	LAWRENCE, SH (DOUGLAS GP)	U						LRNC 06
OH	324	/LAWRENCE, SH MBR (ALLEGHENY FM)				2	SC	C	LRNC 10
FL	211	LAWSON, LS	U			210	NE	C	LWSN 01
GA	211	LAWSON, LS	U						LWSN 04
IL	325	LAWSON, SH MBR (CARBONDALE FM)				2	NC	C	LWSN 02
WA	112	LAWTON, CLAY MBR (VASHON DRIFT)	U			76	WC	C	LWTN 01
WA	112	LAWTON, FM							LWTN 02
ID	122	LAWYER CREEK, MBR (COLUMBIA RIVER BASALT)				9	WC	D	LRCK 01
OR	231	LAYCOCK, GRAYWACKE (ALDRICH MOUNTAINS GP)	U			3400	EC	D	LCCK 07
AL	347	LAY DAM, FM (TALLADEGA GP)		MSED	GN, BK	3600	C	E	LYDM 01
CA	211	LAYTONVILLE, LS					NW	C	LNVL 02
WY	211	LAZEART, SS MBR (ADAVILLE FM)	U			61	SW	C	LZRT 01
TX	324	LAZY BEND, FM (MILLSAP LAKE GP)		SH		270	C	A	LZBD 01
TX	324	LAZY BEND, FM (STRAWN GP)							LZBD 03
TX	324	LAZY BEND, MBR (MILLSAP LAKE FM)							LZBD 02
NV	304+	LEACH, FM		VOL		1800	NC	C	LECH 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	LOC.	TYPE	REF.	IDENT.
LA 111	LEBEAU, MBR (LE MOYEN FM)	U	ST		90	C	C		LEBU 01
CA 210+	LEBEC, QUARTZ MONZONITE					SC	C		LEBC 02
CA 221	LEBEC, QUARTZ MONZONITE								LEBC 01
MT 125	LEBO, FM (FORT UNION GP)				670	C	A		LEBO 05
ND 125	LEBO, MBR (FORT UNION FM)								LEBO 04
MT 125	LEBO, SH MBR (FORT UNION FM)	U							LEBO 01
SD 125	LEBO, SH MBR (FORT UNION FM)	U							LEBO 03
WY 125	LEBO, SH MBR (FORT UNION FM)	U							LEBO 02
PA 341	LE BOEUF, CGL MBR (CATTARAUGUS FM)				5	NW	A		LBUF 01
MO 322	LECOMPTON, FM (SHAWNEE GP)								LCMP 03
OK 322	LECOMPTON, LS	U							LCMP 11
OK 322	LECOMPTON, LS (ADA GP)								LCMP 10
IA 322	LECOMPTON, LS (SHAWNEE GP)								LCMP 01
KS 322	LECOMPTON, LS (SHAWNEE GP)	U			8	EC	A		LCMP 02
MO 322	LECOMPTON, LS (SHAWNEE GP)	U							LCMP 12
NE 322	LECOMPTON, LS (SHAWNEE GP)	U							LCMP 04
OK 322	LECOMPTON, LS MBR (PAWHUSKA FM)	U							LCMP 05
OR 111	[LE CONTE, BASALT]						C	C	LCNT 03
OR 111	/LE CONTE, FLOWS								LCNT 01
WA 360	LEDBETTER, SLATE			BK	800	NE	C		LDBR 01
AK 237	LEDGE, SS MBR (IVISHAK FM)	U			58	NE	E		LEDG 01
PA 377	LEDGER, DOL	U			300	SE	A		LDGR 01
VA 377	LEDGER, DOL	U							LDGR 02
PA 377	LEDGER, FM								LDGR 03
NY 344	LEDYARD, SH (HAMILTON GP)			BK	30	WC	A		LDRD 01
NY 344	LEDYARD, SH MBR (LUDLOWVILLE FM)								LDRD 02
KY 324+	LEE, FM	U							LEE 13
TN 324+	LEE, FM	U							LEE 11
KY 327	LEE, FM	U							LEE 01
TN 327	LEE, FM	U							LEE 02
VA 327+	LEE, FM	U	SS		490	SW	A		LEE 04
KY 331	LEE, FM	U							LEE 05
TN 331	LEE, FM	U							LEE 06
VA 331	LEE, FM	U							LEE 08
TN 324+	LEE, GP	U							LEE 12
TN 327	LEE, GP	U							LEE 03
TN 331	LEE, GP	U							LEE 07
CT 400	LEE, QUARTZ DIORITE	U							LEE 09
MA 400	LEE, QUARTZ DIORITE	U		BK		WC	A		LEE 10
IL 112	LEE CENTER, TILL MBR (WEDRON FM)				15	NC	E		LCNR 02

WA	200+	[LEECHER,FM]							NW	C	LCHR	03	
WA	300	[LEECHER,FM]										LCHR	04
WA	200+	/LEECHER,METAMORPHICS										LCHR	01
WA	300	/LEECHER,METAMORPHICS										LCHR	02
WA	301	LEECH RIVER,FM										LCRV	07
IN	357	LEE CREEK,MBR (BRASSFIELD LS)			MET	BK	>1000		NW	A		LCRK	14
KY	357	LEE CREEK,MBR (BRASSFIELD LS)			DOL	VAR	1		SE	E		LCRK	15
NY	347	LEEDS,FM (STONE RIDGE GP)										LEDS	02
UT	231	[LEEDS,LENTIL (SILVER REEF MBR OF CHINLE FM)]			SH				SE	C		LEDS	01
UT	231	/LEEDS,SS (SILVER REEF MBR OF CHINLE FM)						18	SW	C		LEDS	03
ID	224	LEEDS CREEK,MBR (TWIN CREEK LS)			U							LDCK	07
UT	224	LEEDS CREEK,MBR (TWIN CREEK LS)			U							LDCK	08
WY	224	LEEDS CREEK,MBR (TWIN CREEK LS)			U			490	SW	D		LDCK	09
CA	320+	LEE FLAT,LS			U			160	EC	C		LFLT	01
CA	331	LEE FLAT,LS			U							LFLT	02
IL	361	LEEMON,FM (EDGEWOOD GP)										LMON	04
MO	361	LEEMON,FM (EDGEWOOD GP)				LS		7	SE	E		LMON	03
NM	319	LEE RANCH,TONGUE (ABO SS)			U			32	SC	C		LRNC	01
PA	364	LEESPORT,LS			U			40	SE	A		LSPR	06
IN	333+	LEESVILLE,MBR (HARRODSBURG LS)						3	SC	A		LSVL	13
IN	338	LEESVILLE,MBR (HARRODSBURG LS)										LSVL	21
OH	321	LEETONIA,LS [BED] (ALLEGHENY FM)						2	NE	D		LTON	01
NY	351	LE FEVER,LS								SE	C	LFVR	03
OR	112	LEFFLER,GRAVEL						23	NW	C		LFLR	01
KS	317	LEGION,SH MBR (GRENOLA LS)			U			3	NE	A		LGN	01
NE	317	LEGION,SH MBR (GRENOLA LS)										LGN	02
OK	317	LEGION,SH MBR (GRENOLA LS)			U							LGN	03
TN	354	LEGO,LS (WAYNE GP)						14	WC	A		LEGO	01
TN	354	LEGO,LS MBR (WAYNE FM)			U							LEGO	02
PA	344	LEHIGHTON,MBR (TULLY FM)						6	EC	C		LGTN	01
NV	364	LEHMAN,FM (POGONIP GP)			U							LHMN	01
UT	364	LEHMAN,FM (POGONIP GP)			U	LS		61	WC	C		LHMN	02
CO	112	LEHMAN RIDGE,GRAVEL			U			15		C	D	LMRG	01
NE	317	LEHMER,MBR (FALLS CITY LS)						1	SE	A		LHRG	01
NY	344	LEICESTER,MARCASITE [LENTIL] (GENESE MBR OF GENESEE FM)						<1	WC	C		LCSR	01
CA	211	LEIDY,ADAMELLITE								C	D	LIDY	01
MN	420	LEIF ERICSON PARK,LAVA (NORTH SHORE GP)						780	EC	E		LEPK	01
WY	361	LEIGH,FM						40	WC	A		LIGH	01
MT	361	LEIGH,MBR (BIGHORN DOL)										LIGH	03
WY	361	LEIGH,MBR (BIGHORN DOL)			U							LIGH	02

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ME	351	/LEIGHTON,GRAY SH MBR (PEMBROKE FM)	U			1000	EC	A	LGTN 02
ME	351	[LEIGHTON,SH MBR (PEMBROKE FM)]							LGTN 03
AL	361	LEIPERS,FM							LPRS 01
TN	361	LEIPERS,FM				30	C	A	LPRS 04
AL	361	LEIPERS,LS	U						LPRS 02
GA	361	LEIPERS,LS							LPRS 06
KY	361	LEIPERS,LS	U						LPRS 03
TN	361	LEIPERS,LS	U						LPRS 05
KY	332	LEITCHFIELD,FM	U	SH		180	C	A	LCFD 03
NJ	374+	LEITHSVILLE,FM	U						LSVL 16
PA	374+	LEITHSVILLE,FM	U			460	EC	A	LSVL 18
NJ	377	LEITHSVILLE,FM	U						LSVL 27
PA	377	LEITHSVILLE,FM	U						LSVL 29
NJ	374+	LEITHSVILLE,MBR (KITTATINNY LS)							LSVL 17
PA	374+	LEITHSVILLE,MBR (KITTATINNY LS)							LSVL 19
NJ	377	LEITHSVILLE,MBR (KITTATINNY LS)							LSVL 28
PA	377	LEITHSVILLE,MBR (KITTATINNY LS)							LSVL 30
ID	420	LEMHI,GP	U			910	SC	C	LMHI 04
MT	420	LEMHI,QTZ							LMHI 05
CA	230	LEMON COVE,SCHIST (KAWEAH GP)				2400	C	C	LNCV 01
TX	324	LEMONS BLUFF,MBR (BIG SALINE FM)				18	C	C	LMBF 01
TX	324	LEMONS BLUFF,MBR (MARBLE FALLS LS)							LMBF 02
PA	364	/LEMONT,ARGILLACEOUS LS MBR (CARLIM LS)	U			32	C	A	LMNT 02
PA	364	[LEMONT,MBR (CARLIM LS)]							LMNT 03
LA	111	LE MOYEN,FM	U	SD		79	C	C	LMYN 01
LA	122	LENA,MBR (FLEMING FM)		CL		38	WC	C	LENA 01
MO	325	LENAPAH,FM (MARMATON GP)							LNPH 05
IA	325	LENAPAH,LS (MARMATON GP)	U						LNPH 01
KS	325	LENAPAH,LS (MARMATON GP)	U						LNPH 02
MO	325	LENAPAH,LS (MARMATON GP)	U						LNPH 03
OK	325	LENAPAH,LS (MARMATON GP)	U			6	NE	A	LNPH 04
MT	211	LENNEP,SS (MONTANA GP)	U			120	C	A	LNNP 01
AL	364	LENOIR,LS	U						LNOR 02
GA	364	LENOIR,LS	U						LNOR 09
VA	364	LENOIR,LS	U						LNOR 05
WV	364	LENOIR,LS	U						LNOR 06
TN	364	LENOIR,LS (CHICKAMAUGA GP)				180	EC	A	LNOR 08
GA	364	LENOIR,LS (STONES RIVER GP)							LNOR 03
TN	364	LENOIR,LS (STONES RIVER GP)	U						LNOR 04
TX	319	LENOX HILLS,FM		CGL		88	WC	C	LXLS 01

ID	420	LEOLA,VOLCS (WINDERMERE GP)	U							LEOL	01
WA	420	LEOLA,VOLCS (WINDERMERE GP)	U		GN	1500	NE	C		LEOL	02
TX	112	LEONA,FM	U	ST		20	SC	A		LEON	02
CA	121	LEONA,RHYOLITE	U			150	WC	A		LEON	03
OK	325	LEQUIRE,SH	U			7	EC	A		LQUR	01
OK	325	LEQUIRE,SS MBR (MCALESTER FM)	U							LQUR	02
NY	364	LERAY,FM (BLACK RIVER GP)	U					NC	A	LERY	01
NY	364	LERAY,LS BEDS (ROCKLAND FM)	U							LERY	02
NY	364	LERAY,MBR (LOWVILLE LS)	U							LERY	03
OR	122	LESLIE GULCH,TUFF MBR (SUCKER CREEK FM)	U			300	SE	D		LLGC	01
OK	326	LESTER,LS (DORNICK HILLS GP)	U			7	SE	A		LSTR	01
OK	326	LESTER,LS BED (FRENSLEY MBR OF LAKE MURRAY FM)	U							LSTR	02
OK	326	LESTER,LS MBR (DORNICK HILLS FM)	U							LSTR	03
NY	344	LEVANNA,SH (HAMILTON GP)	U			76	WC	A		LVNN	01
NY	344	LEVANNA,SH MBR (SKANEATELES FM)	U							LVNN	02
IL	332+	LEVIAS,MBR (RENAULT LS)	U							LVIS	04
IL	333	LEVIAS,MBR (RENAULT LS)	U							LVIS	07
IL	332+	LEVIAS,MBR (STE. GENEVIEVE LS)	U							LVIS	01
IN	332+	LEVIAS,MBR (STE. GENEVIEVE LS)	U							LVIS	02
KY	332+	LEVIAS,MBR (STE. GENEVIEVE LS)	U				SW	A		LVIS	03
IL	333	LEVIAS,MBR (STE. GENEVIEVE LS)	U							LVIS	08
IN	333	LEVIAS,MBR (STE. GENEVIEVE LS)	U							LVIS	06
KY	333	LEVIAS,MBR (STE. GENEVIEVE LS)	U							LVIS	05
IL	211	LEVINGS,MBR (MCNAIRY FM)	U	ST		21	SC	D		LVGS	02
TX	218	LEVINSON,MBR (BORACHO LS)	U			45	WC	C		LVNS	01
CO	211	LEWIS,SH	U			610	SW	A		LWIS	01
NM	211	LEWIS,SH	U							LWIS	02
UT	211	LEWIS,SH	U							LWIS	03
WY	211	LEWIS,SH	U							LWIS	04
WY	112	LEWIS CANYON,RHYOLITE	U			200	NW	E		LSCN	01
KY	320	LEWISPORT,LS [BED] (TRADEWATER FM)	U			2	C	A		LSPR	05
PA	341	LEWIS RUN,SS MBR (AMITY SH)	U		RD		NW	C		LSRN	01
UT	321	LEWISTON PEAK,MBR (OQUIRRH FM)	U	LS		430	NC	C		LSPK	01
AR	212	LEWISVILLE,FM	U							LSVL	03
LA	212	LEWISVILLE,FM	U							LSVL	04
LA	212	LEWISVILLE,FM (WOODBINE GP)	U							LSVL	20
TX	212	LEWISVILLE,FM (WOODBINE GP)	U	CL		29	NE	A		LSVL	08
OK	212	LEWISVILLE,MBR (WOODBINE FM)	U							LSVL	24
TX	212	LEWISVILLE,MBR (WOODBINE FM)	U							LSVL	09
OH	361+	LEXINGTON,FM	U							LXNG	08



ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OH	364	LEXINGTON,FM							LXNG 09
IN	361+	LEXINGTON,LS							LXNG 07
KY	361+	LEXINGTON,LS	U			49	C	A	LXNG 02
IN	364	LEXINGTON,LS	U						LXNG 04
KY	364	LEXINGTON,LS	U						LXNG 03
MA	347+	LEYDEN,ARGILLITE	U			91	NW	A	LYDN 01
VT	347+	LEYDEN,ARGILLITE	U						LYDN 02
MA	351	LEYDEN,ARGILLITE	U						LYDN 05
VT	351	LEYDEN,ARGILLITE	U						LYDN 03
MA	354	LEYDEN,ARGILLITE	U						LYDN 06
VT	354	LEYDEN,ARGILLITE	U						LYDN 04
ID	420	LIBBY,FM (MISSOULA GP)	U						LBBY 01
MT	420	LIBBY,FM (MISSOULA GP)	U	ARG		1800	NW	C	LBBY 02
WA	420	LIBBY,FM (MISSOULA GP)	U						LBBY 03
WY	400	LIBBY CREEK,GP		MET				SE	E LBCK 08
IN	361	LIBERTY,LS	U			11	EC	A	LBRT 01
OH	361	LIBERTY,LS	U						LBRT 02
VA	364	LIBERTY HALL,FM		LS	BK	300	C	A	LBHL 02
VA	364	LIBERTY HALL,MBR (EDINBURG FM)							LBHL 03
MO	323	LIBERTY MEMORIAL,MBR (CHANUTE SH)				19	WC	C	LBMM 01
MD	307	LIBERTYTOWN,METARHYOLITE					NC	C	LBRN 01
AL	327	LICK CREEK,SS MBR (POTTSVILLE FM)	U			52	NC	A	LKCK 12
MD	347	LICKING CREEK,LS (HELDERBERG GP)							LKCK 13
PA	347	LICKING CREEK,LS (HELDERBERG GP)				27	SC	C	LKCK 14
VA	347	LICKING CREEK,LS (HELDERBERG GP)							LKCK 15
WV	347	LICKING CREEK,LS (HELDERBERG GP)							LKCK 16
MD	347	LICKING CREEK,LS MBR (HELDERBERG FM)							LKCK 17
TN	410	LICKLOG,FM (WALDEN CREEK GP)	U	STS		91	EC	C	LCKG 05
CA	210+	LIEBRE,QUARTZ MONZONITE					SC	C	LIBR 02
CA	221	LIEBRE,QUARTZ MONZONITE							LIBR 01
IL	112	LIERLE,CLAY MBR (BANNER FM)				3	WC	E	LIRL 01
MI	440	LIGHTHOUSE POINT,MBR (MONA SCHIST)			GN	1400	NC	E	LGSP 04
WY	111	LIGHTNING,FM	U	SD		3	EC	C	LGNG 01
WA	122	LIGHTNING CREEK,ANDESITE					NC	A	LGCK 04
ID	200+	LIGHTNING CREEK,SCHIST (RIGGINS GP)	U			2400	WC	D	LGCK 05
ID	300	LIGHTNING CREEK,SCHIST (RIGGINS GP)	U						LGCK 06
AK	122	LIGNITE CREEK,FM	U	SS		160	C	E	LGCK 02
CA	227	LILAC,ARGILLITE				220	NW	A	LILC 01
OH	354	LILLEY,FM		LS		7	SW	A	LLLY 01
CA	123	LILLIS,FM		SH		290	C	A	LLLS 01



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN	347	LINDEN,GP	U	LS		30	WC	A	LNDN 01
MN	440	LINDEN,SYENITE					NC	E	LNDN 10
PA	364	LINDEN HALL,FM		LS		46	C	E	LDHL 02
OK	331	LINDSEY BRIDGE,MBR (MOOREFIELD FM)		LS		8	NE	C	LDBG 02
WV	337	LINDSIDE,MBR (POCONO SS)				15	SC	A	LDSB 02
VA	337	LINDSIDE,SS MBR (POCONO FM)							LDSB 01
WI	344	LINDWURM,MBR (MILWAUKEE FM)	U	LS		14	SE	A	LDRM 06
IL	344	LINGLE,FM				9	SC	A	LNGL 04
IL	344	LINGLE,LS	U						LNGL 02
MO	344	LINGLE,LS	U						LNGL 03
OR	112	LINN,GRAVEL				9	WC	C	LINN 01
OR	112	LINN,MBR (ROWLAND FM)							LINN 02
IN	324	LINTON,FM	U	SS		19	SW	C	LNTN 02
IN	324	LINTON,FM (CARBONDALE GP)							LNTN 01
NC	410	LINVILLE,METADIABASE	U				NW	A	LNVL 03
TN	410	LINVILLE,METADIABASE	U						LNVL 04
IA	344	LINWOOD,MBR (CEDAR VALLEY LS)				2	EC	A	LNWD 02
CA	122	LION,SS					SE	A	LION 01
CO	211	LION CANYON,SS MBR (WILLIAMS FORK FM)	U			30	NW	A	LNCN 01
TX	371	LION MOUNTAIN,SS MBR (RILEY FM)	U			7	C	C	LNMN 03
CO	324	LIONSHEAD,DOL MBR (MINTURN FM)				9	C	E	LNSD 01
TX	124	LIPAN HILLS,SS MBR (WHITSETT FM)				2	SC	D	LPHL 01
OH	112	LIPPINCOTT,GRAVEL				5	WC	D	LPNC 01
CA	344	LIPPINCOTT,MBR (LOST BURRO FM)	U	SS		76	C	C	LPNC 03
AL	124	LISBON,FM (CLAIBORNE GP)	U	SD		14	SW	A	LSBN 01
FL	124	LISBON,FM (CLAIBORNE GP)							LSBN 05
GA	124	LISBON,FM (CLAIBORNE GP)							LSBN 02
AK	310+	LISBURNE,GP	U	LS		910	NC	A	LSBR 01
AK	320	LISBURNE,GP	U						LSBR 02
AK	330	LISBURNE,GP	U						LSBR 03
NE	112	LISCO,MBR (BROADWATER FM)		MRL		2	WC	C	LSCO 01
MT	217	LISCOM CREEK,MBR (FALL RIVER FM)		SS		29	EC	D	LMCK 04
SD	217	LISCOM CREEK,MBR (FALL RIVER FM)							LMCK 05
WY	217	LISCOM CREEK,MBR (FALL RIVER FM)							LMCK 06
LA	112	LISSIE,FM	U						LISS 01
TX	112	LISSIE,FM	U	GVL		270	SE	A	LISS 02
TX	112	LISSIE,FM (HOUSTON GP)							LISS 03
IN	354	LISTON CREEK,FM	U			22	NE	A	LCRK 17
IN	354	LISTON CREEK,LS MBR (WABASH FM)							LCRK 19
IL	325	LITCHFIELD,COAL MBR (SPOON FM)				2	C	C	LCFD 02

CT	300	LITCHFIELD,NORITE						NW	A	LCFD	01	
GA	400	LITHONIA,GNEISS						NW	C	LTHN	01	
GA	400	LITHONIA,GRANITE GNEISS									LTHN	02
OH	337	LITHOPOLIS,STS MBR (CUYAHOGA FM)					61	C	A	LPLS	02	
TX	125	/LITTIG,GLAUCONITIC MBR (KINCAID FM)					5	EC	A	LTTG	01	
TX	125	LITTIG,MBR (KINCAID FM)									LTTG	02
OR	101	LITTLE ALVORD CREEK,RHYOLITE						SE	A	LAVC	01	
ND	211	LITTLE BEAVER CREEK,MBR (HELL CREEK FM)			SS	PR	32	SW	E	LBVC	01	
OR	111	[LITTLE BELKNAP,BASALT]							C	C	LBKP	04
OR	111	/LITTLE BELKNAP,FLAWS									LBKP	02
CO	120	LITTLE BLACK MOUNTAIN,QUARTZ MONZONITE PORPHYRY							C	C	LBKM	03
NM	111	LITTLE BLACK PEAK,BASALT							SC	D	LBKP	01
TX	124	LITTLE BRAZOS,LS LENTIL (COOK MOUNTAIN FM)					1	EC	A	LLBZ	01	
OR	122+	LITTLE BUTTE,FM					910	SW	C	LTLB	08	
OR	123	LITTLE BUTTE,FM									LTLB	09
CA	122+	[LITTLE BUTTE,VOLCS]									LTLB	06
OR	122+	[LITTLE BUTTE,VOLCS]									LTLB	10
CA	123	[LITTLE BUTTE,VOLCS]									LTLB	07
OR	123	[LITTLE BUTTE,VOLCS]									LTLB	11
CA	122+	/LITTLE BUTTE,VOLC SER									LTLB	02
OR	122+	/LITTLE BUTTE,VOLC SER									LTLB	03
CA	123	/LITTLE BUTTE,VOLC SER									LTLB	04
OR	123	/LITTLE BUTTE,VOLC SER									LTLB	05
OH	321	LITTLE CAPTINA,LS MBR (MONONGAHELA FM)					4	EC	D	LLCP	03	
CA	200	LITTLE CHIEF,GRANITE							EC	A	LLCF	01
UT	112	/LITTLE COTTONWOOD,FM (LAKE BONNEVILLE GP)					38	NC	D	LLCD	03	
UT	107+	LITTLE COTTONWOOD,QUARTZ MONZONITE							NC	A	LLCD	02
UT	211	LITTLE COTTONWOOD,QUARTZ MONZONITE									LLCD	05
MD	347	LITTLE COVE,MBR (LICKING CREEK LS)									LLCV	04
PA	347	LITTLE COVE,MBR (LICKING CREEK LS)					10	SC	E	LLCV	01	
VA	347	LITTLE COVE,MBR (LICKING CREEK LS)									LLCV	02
WV	347	LITTLE COVE,MBR (LICKING CREEK LS)									LLCV	03
UT	122	LITTLE CREEK,BRECCIA MBR (QUICHAPA FM)					370	SW	C	LLCK	04	
ID	112+	/LITTLE CREEK,FM							SE	D	LLCK	01
ID	121	/LITTLE CREEK,FM									LLCK	07
SD	440	LITTLE ELK,GRANITE							WC	C	LLEK	01
TX	212	LITTLE ELM,TONGUE (TEMPLETON MBR OF WOODBINE FM)					6	EC	D	LLEM	02	
NY	371	LITTLE FALLS,DOL					61	C	A	LLFL	03	
NY	371	LITTLE FALLS,DOL (SARATOGA SPRINGS GP)									LLFL	04
OR	122	LITTLEFIELD,RHYOLITE					150	EC	D	LLFD	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
ID 331	LITTLE FLAT,FM (CHESTERFIELD RANGE GP)	U	SS		290	SE	D	LLFL 01	
UT 331	LITTLE FLAT,FM (CHESTERFIELD RANGE GP)	U						LLFL 02	
OK 322	LITTLE HOMINY,MBR (PAWHUSKA LS)	U			5	NE	A	LLHM 01	
KS 323	LITTLE KAW,LS MBR (STANTON FM)				1	NE	A	LTLM 01	
WY 237	LITTLE MEDICINE,MBR (DINWOODY FM)		SS	VAR	3	SE	A	LMDC 02	
WY 237	LITTLE MEDICINE,MBR (GOOSE EGG FM)	U						LMDC 01	
WY 217	LITTLE MISSOURI,LENS (NEWCASTLE SS)		STS		24	NE	C	LLMR 02	
LA 124	LITTLE NATCHES,MBR (COOK MOUNTAIN FM)		SD		21	NW	C	LLNC 01	
AL 364	LITTLE OAK,LS	U			150	NC	A	LLOK 01	
MO 325	LITTLE OSAGE,FM (MARMATON GP)							LLOG 05	
IA 325	LITTLE OSAGE,MBR (FORT SCOTT LS)							LLOG 01	
MO 325	LITTLE OSAGE,MBR (FORT SCOTT LS)							LLOG 03	
OK 325	LITTLE OSAGE,MBR (FORT SCOTT LS)							LLOG 04	
KS 325	LITTLE OSAGE,SH MBR (FORT SCOTT LS)				3	SE	C	LLOG 02	
NE 322	LITTLE PAWNEE,SH MBR (CASS LS)				1	EC	C	LLPN 01	
PA 321	/LITTLE PITTSBURGH,MBR (CONEMAUGH FM)					SW	A	LPBG 03	
ME 354	LITTLE RIVER,FM		VOL			EC	D	LLRV 02	
VA 420	LITTLE RIVER,GNEISS					SC	C	LLRM 03	
GA 307	[LITTLE RIVER,SCHIST]		MET			NC	C	LLRV 04	
GA 307	/LITTLE RIVER,SER							LLRV 01	
MO 347	LITTLE SALINE,LS	U			31	EC	A	LLSL 02	
MT 217	LITTLE SHEEP,MUDSTONE MBR (CLOVERLY FM)							LLSP 02	
WY 217	LITTLE SHEEP,MUDSTONE MBR (CLOVERLY FM)			VAR	76	NC	C	LLSP 01	
AK 110	LITTLE SITKIN,DACITE	U			300	SW	C	LLSK 01	
VA 331	LITTLE STONE GAP,MBR (HINTON FM)		LS		14	SW	D	LSGP 02	
WV 331	LITTLE STONE GAP,MBR (HINTON FM)	U						LSGP 03	
KY 331	LITTLE STONE GAP,MBR (PENNINGTON FM)							LSGP 01	
MA 347	LITTLETON,FM	U						LTLN 03	
ME 347+	LITTLETON,FM							LTLN 10	
NH 347+	LITTLETON,FM	U	ARG		1500	C	A	LTLN 04	
VT 347	LITTLETON,FM	U						LTLN 05	
ME 351	LITTLETON,FM							LTLN 11	
NH 351	LITTLETON,FM	U						LTLN 08	
CT 347	LITTLETON,FM (BOLTON GP)	U						LTLN 02	
IA 344	LITTLETON,MBR (CEDAR VALLEY LS)				6	NE	A	LTLN 01	
CO 101	LITTLE UNION,QUARTZ LATITE	U					C	LLUN 01	
CA 217	LITTLE VALLEY,FM		SH		12000	NW	C	LLVL 02	
VA 331	LITTLE VALLEY,LS				200	SW	C	LLVL 06	
ID 200	LITTLE VALLEY,QUARTZ DIORITE						SW	D	LLVL 01
IL 323	LITTLE VERMILION,LS MBR (BOND,FM)				1	NC	C	LLVM 01	

SD	121	LITTLE WHITE RIVER,FM		SED		SC	A	LWRV	01
UT	400	LITTLE WILLOW,FM	U	SCH		NC	C	LLWL	01
AK	340+	LIVENGOOD,CHERT	U		910	NE	A	LVGD	01
AK	350	LIVENGOOD,CHERT	U					LVGD	02
AK	360	LIVENGOOD,CHERT	U					LVGD	03
CA	124	LIVEOAK,SH MBR (TEJON FM)	U		600	SC	C	LVOK	01
TX	112	LIVE OAK BAR,FM		SD		SE	C	LVOB	01
CA	112+	LIVERMORE,GRAVEL			1200	WC	A	LVRM	01
CA	121	LIVERMORE,GRAVEL						LVRM	02
KY	327	LIVINGSTON,CGL MBR (LEE FM)	U			SE	A	LVGS	05
MT	211	LIVINGSTON,FM		VOL,CST	2100	SC	A	LVGS	10
MT	211	LIVINGSTON,GP	U					LVGS	01
IN	321	LIVINGSTON,LS MBR (BOND FM)						LVGS	04
IL	323	LIVINGSTON,LS MBR (BOND FM)			5	EC	A	LVGS	03
MT	331+	LIVINGSTONE,FM (RUNDLE GP)		LS		CAN	B	LVGS	11
MT	337	LIVINGSTONE,FM (RUNDLE GP)						LVGS	12
AZ	120+	LIVINGSTON HILLS,FM	U	GYK	3700	SW	E	LVGH	01
AZ	210	LIVINGSTON HILLS,FM	U					LVGH	02
NJ	354	LIZARD CREEK,MBR (SHAWANGUNK FM)	U					LZCK	01
PA	354	LIZARD CREEK,MBR (SHAWANGUNK FM)	U	SS,STS	370	EC	E	LZCK	02
CA	124	LLAJAS,FM		SH	520	SE	A	LLJS	01
CA	211	LLANADA,SS MBR (MARLIFE SH)			260	C	C	LLND	01
TX	400	LLANO,GP		MSED		C	A	LLNO	02
TX	400	/LLANO,SER	U					LLNO	01
OR	112	LLANO DE ORO,FM	U	CL	24	SW	A	LNOR	01
OR	111+	LLAO ROCK,DACITE			470	SW	C	LRCR	02
OR	112	LLAO ROCK,DACITE						LRCR	04
NM	124	LLAVES,MBR (SAN JOSE FM)	U	SS	400	NC	D	LLVS	01
PA	321+	LLEWELLYN,FM	U	SS	1100	EC	D	LLLN	01
PA	324	LLEWELLYN,FM	U					LLLN	02
NJ	211	LLOYD,SAND MBR (RARITAN FM)	U					LLYD	01
NY	211	LLOYD,SAND MBR (RARITAN FM)	U		30	SE	C	LLYD	02
AL	307	LOACHAPOKA,SCHIST (OPELIKA COMPLEX)				EC	E	LCPK	01
GA	307	LOACHAPOKA,SCHIST (OPELIKA COMPLEX)						LCPK	02
NM	121	LOBATO,BASALT (POLVADERA GP)	U			NC	C	LOBT	01
TN	354	LOBELVILLE,FM (BROWNSPORT GP)			23	WC	A	LBLV	01
TN	354	LOBELVILLE,LS MBR (BROWNSPORT FM)	U					LBLV	02
CA	121	LOBITOS,MUDSTONE MBR (PURISIMA FM)			140	WC	C	LBTS	01
NM	217	LOBO,FM	U	SH	110	SW	A	LOBO	02
ME	351	LOBSTER LAKE,FM		LS	300	C	A	LBLK	01

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ME	360	LOBSTER MOUNTAIN, VOLCS				3000	C	E	LBRM 01
CA	125	LOCATELLI, FM		SED			WC	C	LCTL 01
NJ	231	LOCKATONG, FM (NEWARK GP)	U	SH		1100	NW	C	LCKG 01
PA	231	LOCKATONG, FM (NEWARK GP)	U						LCKG 02
NY	354	LOCKPORT, DOL	U			37	WC	A	LCKP 02
OH	354	LOCKPORT, DOL							LCKP 05
WV	354	LOCKPORT, DOL							LCKP 07
MI	354	LOCKPORT, DOL	U						LCKP 01
NY	354	LOCKPORT, FM	U						LCKP 03
NY	354	LOCKPORT, GP							LCKP 04
OH	354	LOCKPORT, GP							LCKP 08
CA	122	LOCKWOOD, CLAY				46	SC	D	LCKD 03
CA	122	LOCKWOOD, CLAY [BED] (CALIENTE FM)							LCKD 04
AZ	104	LOCOMOTIVE, FANGLOMERATE	U			3700	SC	C	LCMV 01
IN	338	LOCUST POINT, FM (BORDEN GP)	U	STS		38	SC	A	LCSP 01
CA	210+	LODGEPOLE, GRANITE					C	C	LDGP 03
CA	220	LODGEPOLE, GRANITE							LDGP 04
UT	337	LODGEPOLE, LS	U						LDGP 09
ID	337	LODGEPOLE, LS (MADISON GP)	U						LDGP 05
MT	337	LODGEPOLE, LS (MADISON GP)	U			240	NC	A	LDGP 06
ND	337	LODGEPOLE, LS (MADISON GP)	U						LDGP 07
SD	337	LODGEPOLE, LS (MADISON GP)	U						LDGP 08
WY	337+	LODGEPOLE, LS (MADISON GP)	U						LDGP 10
WY	341	LODGEPOLE, LS (MADISON GP)	U						LDGP 16
NY	341	LODI, LS (GENESEE GP)					C	D	LODI 01
IA	371	LODI, MBR (TREMPEALEAU FM)	U						LODI 02
MI	371	LODI, MBR (TREMPEALEAU FM)	U						LODI 04
WI	371	LODI, MBR (TREMPEALEAU FM)	U			15	SC	A	LODI 08
IA	371	LODI, SH MBR (ST. LAWRENCE FM)	U						LODI 03
MN	371	LODI, SH MBR (ST. LAWRENCE FM)	U						LODI 07
WI	371	LODI, SH MBR (ST. LAWRENCE FM)	U						LODI 09
CA	124+	LODO, FM	U	CLS		350	C	C	LODO 01
CA	125	LODO, FM	U						LODO 02
CO	371	LODORE, FM	U			140	NW	A	LODR 01
UT	371	LODORE, FM	U						LODR 03
WY	371	LODORE, FM	U						LODR 05
CO	371	LODORE, SH	U						LODR 02
UT	371	LODORE, SH	U						LODR 04
OH	337	LOGAN, FM	U	SS		41	SC	A	LOGN 05
WV	337	LOGAN, FM	U						LOGN 06





ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
NC	410	LONGARM,QTZ (SNOWBIRD GP)	U			1500	WC	C	LGRM 01	
TN	410	LONGARM,QTZ (SNOWBIRD GP)	U						LGRM 02	
CA	112	LONG CANYON,MBR (LAS POSAS FM)		SD		61	SC	A	LNGC 01	
CA	211	/LONG CANYON,SS (PANOCHÉ GP)				210	C	C	LNGC 02	
CA	211	/LONG CANYON,SS MBR (PANOCHÉ FM)							LNGC 03	
KS	317	LONG CREEK,LS							LGCK 07	
OK	317	LONG CREEK,LS (VANOSS GP)							LGCK 15	
OK	317	LONG CREEK,LS MBR (KONAWA FM)							LGCK 11	
KS	317	LONG CREEK,MBR (FORAKER LS)	U						LGCK 08	
NE	317	LONG CREEK,MBR (FORAKER LS)	U			2	SE	A	LGCK 09	
OK	317	LONG CREEK,MBR (FORAKER LS)	U						LGCK 10	
MI	420	[LONG ISLAND,BASALT (PORTAGE LAKE VOLCS)]				15	NW	E	LGID 02	
MI	420	/LONG ISLAND,FLOW (PORTAGE LAKE VOLCS)	U						LGID 01	
ND	112	LONG LAKE,DRIFT						SC	D	LGK 01
MA	227	LONGMEADOW,SS MBR (PORTLAND FM)				300	WC	A	LGMD 01	
NH	341	LONG MOUNTAIN,GRANITE (NEW HAMPSHIRE GP)						NC	C	LGNGM 01
NE	112	LONG PINE,FM		GVL		8	NC	E	LNGP 01	
PA	341	LONG RUN,MBR (CATSKILL FM)		STS	RD	720	EC	E	LNGR 04	
AL	364	LONG SAVANNAH,FM							LGSV 01	
GA	364	LONG SAVANNAH,FM							LGSV 02	
TN	364	LONG SAVANNAH,FM		MS		53	SC	C	LGSV 03	
ID	112+	LONG SPRING,FM		CGL		61	SE	C	LGSP 01	
ID	121	LONG SPRING,FM							LGSP 05	
UT	331	LONG TRAIL,SH MBR (GREAT BLUE LS)	U		BK	26	NC	A	LGTL 01	
KY	367	LONGVIEW,DOL (KNOX GP)							LNGV 05	
TN	367	LONGVIEW,DOL (KNOX GP)							LNGV 06	
VA	367	LONGVIEW,FM (KNOX GP)							LNGV 04	
AL	367	LONGVIEW,LS	U			150	C	A	LNGV 01	
AL	367	LONGVIEW,LS (KNOX GP)							LNGV 07	
GA	367	LONGVIEW,LS (KNOX GP)	U						LNGV 02	
UT	211	LONGWALL,SS MBR (FRONTIER FM)				30	NC	C	LNGL 01	
NJ	351	LONGWOOD,SH	U			46	NC	A	LNGD 05	
NY	351	LONGWOOD,SH	U						LNGD 06	
IL	325	LONSDALE,LS MBR (MODESTO FM)				6	NC	A	LSDL 03	
OR	124	LOOKINGGLASS,FM		CGL		1600	SW	E	LKGL 01	
WY	400	LOOKOUT,SCHIST (LIBBY CREEK GP)				370	SE	A	LKUT 04	
AL	327	LOOKOUT,SS	U			180	NE	A	LKUT 01	
GA	327	LOOKOUT,SS							LKUT 05	
TN	327	LOOKOUT,SS	U						LKUT 02	
WA	207+	LOOKOUT MOUNTAIN,FM		MSED			SC	D	LKMN 02	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 123	LOS PINOS, GRAVEL	U						LSPS 11
CA 341+	LOST BURRO, FM	U	DOL		470	EC	C	LSBR 04
CA 344	LOST BURRO, FM	U						LSBR 06
WY 124	LOST CABIN, MBR (WIND RIVER FM)	U	STS		120	C	C	LSCB 01
OK 323	LOST CITY, MBR (COFFEEVILLE FM)				6	NE	A	LSTC 02
OK 323	LOST CITY, MBR (HOGSHOOTER LS)							LSTC 01
TX 400	/LOST CREEK, GNEISS						C	D LCRK 18
KY 324	LOST CREEK, LS [BED] (BREATHITT FM)				1	EC	A	LCRK 13
TX 318	LOST CREEK, SH MBR (ADMIRAL FM)	U			15	C	A	LCRK 11
MT 124	LOST CREEK, TUFF MBR (SEPULCHER FM)	U				SW	C	LCRK 04
WY 124	LOST CREEK, TUFF MBR (SEPULCHER FM)	U						LCRK 09
AZ 107+	LOST GULCH, QUARTZ MONZONITE	U					C	A LGLC 01
AZ 211	LOST GULCH, QUARTZ MONZONITE	U						LGLC 02
MT 112	LOST HORSE, DRIFT						WC	E LSHR 01
MT 112	LOST HORSE, TILL							LSHR 02
AK 111	[LOST JIM, BASALT]				46	SC	C	LSJM 02
AK 111	/LOST JIM, LAVA	U						LSJM 01
TX 123	LOST MINE, RHYOLITE MBR (SOUTH RIM FM)				240	SW	D	LSMN 02
NH 361	LOST NATION, QUARTZ DIORITE (HIGHLANDCROFT GP)					NC	C	LSNN 01
CA 122	/LOS TRANCOS, FM		VOL		230	NW	C	LTRC 01
CA 122	LOS TRANCOS, MBR (TOPANGA FM)	U	STS		940	SC	C	LTRC 02
IL 333	LOST RIVER, CHERT BED (FREDONIA MBR OF STE. GENEVIEVE LS)							LRVR 05
IN 333	LOST RIVER, CHERT BED (FREDONIA MBR OF STE. GENEVIEVE LS)				<1	SC	A	LRVR 01
KY 333	LOST RIVER, CHERT BED (FREDONIA MBR OF STE. GENEVIEVE LS)							LRVR 04
ID 361	LOST RIVER, MBR (FISH HAVEN DOL)				87	SC	D	LRVR 02
PA 361	LOST RUN, CGL MBR (BALD EAGLE FM)				110	C	C	LSRN 03
UT 354	LOST SHEEP, DOL	U			77	WC	C	LSSP 01
CA 122	LOS TULARCITOS, MBR (CHAMISAL FM)		SS		120	WC	D	LTLC 01
ND 112	LOSTWOOD, DRIFT				10	C	E	LSTD 01
NM 318	LOS VALLOS, MBR (YESO FM)	U	GYP		310	WC	C	LSVL 12
MT 112	LOTHAIR, TILL	U			15	NC	C	LTHR 01
CA 221	LOTTA CREEK, FM				270	C	D	LCRK 22
CA 221	LOTTA CREEK, TUFF MBR (FRANCISCAN FM)							LCRK 10
CA 370	LOTUS, FM		LS		1200	EC	C	LTUS 01
AL 221+	LOUANN, SALT							LUNN 10
AR 221+	LOUANN, SALT	U			260	SC	C	LUNN 01
FL 221+	LOUANN, SALT							LUNN 09
LA 221+	LOUANN, SALT	U						LUNN 03
MS 221+	LOUANN, SALT	U						LUNN 05
TX 221+	LOUANN, SALT	U						LUNN 07



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NE 112	LOVELAND, LOESS	U						LVLD 13
SD 112	LOVELAND, LOESS	U						LVLD 15
TN 112	LOVELAND, LOESS	U						LVLD 16
IN 112	LOVELAND, LOESS MBR (ATHERTON FM)							LVLD 05
NE 112	LOVELAND, LOESS MBR (SHERIDAN FM)							LVLD 17
IL 112	LOVELAND, SILT							LVLD 04
MT 217	LOVELL, MBR (CLOVERLY FM)		CLS			SC	C	LVLL 01
WY 217	LOVELL, MBR (CLOVERLY FM)							LVLL 02
IL 371	LOVELL, MBR (MOUNT SIMON SS)				38	NE	C	LVLL 09
NV 112	LOVELOCK, FM		ALV		15	NW	D	LVCK 04
NV 224+	/LOVELOCK, FM		LS, GYP		200	NW	E	LVCK 08
NV 227	/LOVELOCK, FM							LVCK 09
NM 107	LOVE RANCH, FM		CGL		640	SC	C	LVRC 01
ME 340	LOVE RIDGE, QUARTZ MONZONITE	U				EC	D	LVRG 02
VA 400	LOVINGSTON, FM						C	LVGS 06
VA 400	LOVINGSTON, GRANITE GNEISS	U						LVGS 07
VA 400	LOVINGSTON, GRANITE GNEISS (VIRGINIA BLUE RIDGE COMPLEX)							LVGS 08
NM 318	LOVINGTON, SS MBR (SAN ANDRES FM)							LVNG 01
TX 318	LOVINGTON, SS MBR (SAN ANDRES FM)				9	WC	C	LVNG 02
IL 325	LOWELL, COAL MBR (CARBONDALE FM)				<1	NC	C	LWLL 03
AZ 217	LOWELL, FM (BISBEE GP)		SS		340	SE	C	LWLL 01
VT 300	LOWELL MOUNTAIN, FM		SL			NC	A	LLMN 01
OH 324	LOWELLVILLE, LS [BED] (POTTSVILLE FM)					NE	A	LLVL 04
OH 324	LOWELLVILLE, LS MBR (POTTSVILLE FM)							LLVL 05
IN 324	/LOWER BLOCK, COAL MBR (BRAZIL FM)				2	WC	E	LBCK 09
OH 321	/LOWER BRUSH CREEK, LS MBR (CONEMAUGH FM)				2	SC	C	LBCK 03
OH 321	/LOWER BRUSH CREEK, RED-BED MBR (CONEMAUGH FM)				5	SC	C	LBCK 04
OH 321	/LOWER BRUSH CREEK, SH MBR (CONEMAUGH FM)				5	SC	C	LBCK 05
OH 324	/LOWER FREEPORT, CLAY BED (ALLEGHENY FM)							LRFP 03
PA 324	/LOWER FREEPORT, COAL BED (ALLEGHENY FM)				<1	WC	A	LRFP 13
MD 324	/LOWER FREEPORT, LS MBR (ALLEGHENY FM)							LRFP 01
OH 324	/LOWER FREEPORT, LS MBR (ALLEGHENY FM)							LRFP 04
PA 324	/LOWER FREEPORT, LS MBR (ALLEGHENY FM)	U			2	WC	A	LRFP 07
WV 324	/LOWER FREEPORT, LS MBR (ALLEGHENY FM)							LRFP 10
OH 324	/LOWER FREEPORT, SH MBR (ALLEGHENY FM)							LRFP 05
MD 324	/LOWER FREEPORT, SS MBR (ALLEGHENY FM)							LRFP 02
OH 324	/LOWER FREEPORT, SS MBR (ALLEGHENY FM)							LRFP 06
PA 324	/LOWER FREEPORT, SS MBR (ALLEGHENY FM)				15	WC	A	LRFP 08
WV 324	/LOWER FREEPORT, SS MBR (ALLEGHENY FM)							LRFP 11
OH 324	/LOWER KITTANNING, CLAY BED (ALLEGHENY FM)							LRKG 01

PA	324	/LOWER KITTANNING,CLAY MBR (ALLEGHENY FM)		6	WC	C	LRKG	03		
PA	324	/LOWER KITTANNING,COAL BED (ALLEGHENY FM)		<1	WC	C	LRKG	08		
PA	324	/LOWER KITTANNING,FM (ALLEGHENY GP)					LRKG	10		
OH	324	/LOWER KITTANNING,SH [MBR] (ALLEGHENY FM)					LRKG	02		
PA	324	/LOWER KITTANNING,SS MBR (ALLEGHENY FM)				WC	C	LRKG	04	
WV	324	/LOWER KITTANNING,SS MBR (ALLEGHENY FM)						LRKG	06	
OH	321	/LOWER MAHONING,LS MBR (CONEMAUGH FM)						LRMG	01	
OH	321	/LOWER MAHONING,SS MBR (CONEMAUGH FM)						LRMG	02	
PA	321	/LOWER MAHONING,SS MBR (CONEMAUGH FM)		6	SW	A	LRMG	03		
WV	324	/LOWER MERCER,LS MBR (KANAWHA FM)						LPMC	15	
MD	324	/LOWER MERCER,LS MBR (POTTSVILLE FM)						LRMC	03	
OH	324	/LOWER MERCER,LS MBR (POTTSVILLE FM)						LRMC	06	
PA	324	/LOWER MERCER,LS MBR (POTTSVILLE FM)		3	WC	A	LRMC	09		
WI	400	LOWER NARROWS,RHYOLITE				SC	A	LRNR	01	
OH	321	/LOWER PITTSBURGH,LS MBR (CONEMAUGH FM)						LPBG	01	
PA	321	/LOWER PITTSBURGH,LS MBR (CONEMAUGH FM)	U		2	WC	A	LPBG	04	
WV	321	/LOWER PITTSBURGH,LS MBR (CONEMAUGH FM)	U					LPBG	07	
OH	321	/LOWER PITTSBURGH,RED-BED MBR (CONEMAUGH FM)						LPBG	02	
PA	321	/LOWER PITTSBURGH,SS [MBR] (CONEMAUGH FM)				SW	C	LPBG	05	
WV	321	/LOWER PITTSBURGH,SS [MBR] (CONEMAUGH FM)						LPBG	08	
CT	377	LOWERRE,QTZ						LWRR	02	
NY	377	LOWERRE,QTZ	U		30	SE	A	LWRR	01	
OH	321	/LOWER SEWICKLEY,LS MBR (MONONGAHELA FM)						LSCK	01	
OH	321	/LOWER SEWICKLEY,RED-BED MBR (MONONGAHELA FM)						LSCK	02	
OH	321	/LOWER SEWICKLEY,SS MBR (MONONGAHELA FM)						LSCK	04	
OH	321	/LOWER UNIONTOWN,SH AND SS MBR (MONONGAHELA FM)						LRUN	02	
OH	317	/LOWER WASHINGTON,LS MBR (WASHINGTON FM)						LRWG	01	
WV	317	/LOWER WASHINGTON,LS MBR (WASHINGTON FM)						LRWG	02	
TN	324	/LOW GAP,SS (CROSS MOUNTAIN GP)			21	NE	C	LWGP	01	
TN	324	/LOW GAP,SS MBR (CROSS MOUNTAIN FM)						LWGP	06	
TN	371	LOW HOLLOW,LS MBR (MAYNARDVILLE FM)	U					LHLL	02	
VA	371	LOW HOLLOW,LS MBR (MAYNARDVILLE FM)			63	NE	C	LHLL	05	
TN	371	LOW HOLLOW,MBR (MAYNARDVILLE LS)	U					LHLL	01	
VA	371	LOW HOLLOW,MBR (MAYNARDVILLE LS)	U					LHLL	04	
MT	124	LOWLAND CREEK,VOLCS	U		1800	WC	D	LDCK	02	
OK	317	LOWRIE,SS BED (WELLINGTON FM)			14	NC	A	LOWR	01	
NY	400	/LOWVILLE,GRANITE					NC	A	LVLL	12
MD	364	LOWVILLE,LS	U					LVLL	03	
VA	364	LOWVILLE,LS	U					LVLL	07	
WV	364	LOWVILLE,LS	U					LVLL	08	

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	364	LOWVILLE,LS (BLACK RIVER GP)	U			10	NC	A	LVLL 04
PA	364	LOWVILLE,LS (BLACK RIVER GP)	U						LVLL 06
VT	364	LOWVILLE,LS (BLACK RIVER GP)							LVLL 13
NY	364	LOYAL CREEK,MBR (UTICA SH)			BK	40	C	C	LLCK 06
PA	331	LOYALHANNA,FM				12	SW	A	LLNN 07
MD	331	LOYALHANNA,LS	U						LLNN 01
PA	331	LOYALHANNA,LS	U						LLNN 02
MD	331	LOYALHANNA,LS MBR (GREENBRIER FM)	U						LLNN 05
PA	331	LOYALHANNA,LS MBR (MAUCH CHUNK FM)							LLNN 04
MD	331	LOYALHANNA,MBR (GREENBRIER LS)							LLNN 06
WV	331	LOYALHANNA,MBR (GREENBRIER LS)							LLNN 03
CO	211	LOYD,SS BED (BUCK TONGUE OF MANCOS SH)	U			30	NW	C	LOYD 02
CO	211	LOYD,SS MBR (MANCOS SH)	U						LOYD 01
PA	364	LOYSBURG,FM							
AK	227	LUBBE CREEK,FM	U	LS		35	SC	A	LBRG 02
MI	344	LUCAS,FM (DETROIT RIVER GP)	U	LS		90	EC	E	LBCK 02
OH	344	LUCAS,FM (DETROIT RIVER GP)	U	DOL		30	NW	A	LUCS 02
IN	121	LUCE,GRAVEL	U			4	SW	D	LUCE 01
KY	121	LUCE,GRAVEL	U						LUCE 02
ME	347	LUCERNE,GRANITE					EC	C	LCRN 01
CA	124	LUCIA,MUDSTONE				150	WC	C	LUCI 02
CA	124	LUCIA,SH							LUCI 01
OK	317	LUCIEN,SH MBR (GARBER SS)			RD	76	NC	A	LUCN 01
ID	227+	LUCILE,GP				910	WC	C	LUCL 06
ID	231	LUCILE,GP							LUCL 03
ID	227+	LUCILE,SLATE	U						LUCL 05
OR	227+	LUCILE,SLATE							LUCL 04
ID	231	LUCILE,SLATE	U						LUCL 01
OR	231	LUCILE,SLATE							LUCL 02
CA	224	LUCKY S,ARGILLITE				600	NC	A	LCKS 04
PA	351	LUCY SCHOOL,STS MBR (BLOOMSBURG RED BEDS)				6	C	C	LCSC 03
SD	125	LUDLOW,FM		SS		110	NW	A	LDLW 06
ND	125	LUDLOW,FM (FORT UNION GP)							LDLW 05
MT	125	LUDLOW,MBR (FORT UNION FM)	U						LDLW 01
ND	125	LUDLOW,MBR (FORT UNION FM)	U						LDLW 02
SD	125	LUDLOW,MBR (FORT UNION FM)	U						LDLW 03
NY	344	LUDLOWVILLE,FM (HAMILTON GP)	U	SH		15	WC	A	LDLV 01
PA	344	LUDLOWVILLE,FM (HAMILTON GP)	U						LDLV 02
TX	318	LUEDERS,GP				59	C	A	LDRS 01
TX	318	LUEDERS,LS (WICHITA GP)	U						LDRS 02

TX	124	LUFKIN, MBR (COOK MOUNTAIN FM)		CL		120	E	A	LFKN	01	
OK	374	LUGERT, GRANITE					C	A	LGRT	01	
AZ	231	LUKACHUKAI, MBR (WINGATE SS)		U		91	NE	C	LKCK	04	
CO	231	LUKACHUKAI, MBR (WINGATE SS)		U					LKCK	06	
NM	231	LUKACHUKAI, MBR (WINGATE SS)		U					LKCK	07	
UT	231	LUKACHUKAI, MBR (WINGATE SS)		U					LKCK	09	
AZ	231	LUKACHUKAI, SS							LKCK	05	
NM	231	LUKACHUKAI, SS							LKCK	08	
VT	367	LUKE HILL, LS (BEEKMANTOWN GP)				49	NW	A	LKHL	04	
OK	371	LUKFATA, SS				44	SE	C	LKFT	01	
KY	354	LULBEGRUD, SH MBR (CRAB ORCHARD FM)				4	EC	A	LBGD	02	
CO	123	LULU, LATITE (SPECIMEN MOUNTAIN GP)					NC	D	LULU	02	
CO	124	LUMAN, TONGUE (GREEN RIVER FM)							LUMN	02	
WY	124	LUMAN, TONGUE (GREEN RIVER FM)		U	SH	55	SC	C	LUMN	01	
NC	211	LUMBEE, GP							LUMB	03	
SC	211	LUMBEE, GP							LUMB	01	
WA	217	LUMMI, FM							LUMM	01	
NV	123	LUND, TUFF MBR (NEEDLES RANGE FM)							LUND	01	
UT	123	LUND, TUFF MBR (NEEDLES RANGE FM)				330	SW	E	LUND	02	
VT	371	LUNENBURG, SCHIST		U					LBRG	03	
NV	231	LUNING, FM		U	LS	3000	WC	A	LNNG	01	
VA	364	LURICH, FM				91	SW	C	LRCH	01	
WV	364	LURICH, FM							LRCH	03	
CA	211	LUSARDI, FM (ROSARIO GP)		U	CGL, SS	120	SE	E	LSRD	01	
KY	327	LUSK, MBR (CASEYVILLE FM)		U					LUSK	04	
IL	328	LUSK, SH MBR (CASEYVILLE FM)		U		61	SE	C	LUSK	02	
PA	341	LUTHERS MILLS, COQUINITE MBR (NEW MILFORD FM)				12	NE	A	LRML	01	
PA	341	LUTHERS MILLS, COQUINITE MBR (TOWANDA FM)							LRML	02	
MO	367	LUTIE, MBR (THEODOSIA FM)							LUTI	02	
MN	420	LUTSEN, BASALT (NORTH SHORE GP)				310	NE	E	LTSN	01	
ND	112	LUVERNE, DRIFT				30	EC	D	LVRN	01	
NY	112	LUZERNE, TILL				15	EC	E	LZRN	01	
CO	230+	LYKINS, FM		U	SS	RD	240	NC	A	LKNS	01
WY	230+	LYKINS, FM		U					LKNS	02	
CO	311	LYKINS, FM		U					LKNS	03	
WY	311	LYKINS, FM		U					LKNS	04	
CO	317	LYKINS, FM		U					LKNS	08	
ND	341	LYLETON, FM				27	CAN	B	LLTN	01	
UT	371+	LYNCH, DOL		U		300	NC	A	LYNC	01	
UT	374	LYNCH, DOL		U					LYNC	02	



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NC	420	LYNCHBURG,FM							LCBG 01
VA	420	LYNCHBURG,FM							LCBG 03
NC	420	LYNCHBURG,GNEISS	U				SC	A	LCBG 02
VA	420	LYNCHBURG,GNEISS	U						LCBG 04
VA	420	LYNCHBURG,GP							LCBG 05
AZ	374	LYNDON,LS							LNDN 02
CA	374	LYNDON,LS	U						LNDN 04
NV	374	LYNDON,LS	U			120	EC	A	LNDN 06
UT	374	LYNDON,LS	U						LNDN 08
MA	301+	[LYNN,COMPLEX]					NE	A	LYNN 03
MA	340	[LYNN,COMPLEX]							LYNN 04
MA	301+	/LYNN,VOLC COMPLEX	U						LYNN 01
MA	340	/LYNN,VOLC COMPLEX	U						LYNN 02
NY	400	LYON MOUNTAIN,GRANITE GNEISS	U				NE	A	LNMN 05
OK	320	/LYONS,LS	U			38	C	A	LYNS 05
CO	317	LYONS,SS	U			90	NC	A	LYNS 01
WY	317	LYONS,SS (CASSA GP)							LYNS 04
CO	231	LYONS VALLEY,MBR (POPO AGIE FM)							LSVL 31
WY	231	LYONS VALLEY,MBR (POPO AGIE FM)	U			18	C	E	LSVL 11
WA	124	LYRE,FM	U	SS		670	NW	C	LYRE 01
WY	124	LYSITE,MBR (WIND RIVER FM)	U	SS		180	C	A	LYST 01
CO	217	LYTLE,FM (DAKOTA GP)	U			44	C	A	LYTL 01
TX	318	/LYTLE,LS (CLEAR FORK GP)				8	C	A	LYTL 05
TX	318	/LYTLE,LS MBR (ARROYO FM)							LYTL 03
TX	318	/LYTLE,LS MBR (CLEAR FORK FM)							LYTL 04
CO	217	LYTLE,SS MBR (PURGATOIRE FM)	U						LYTL 02
WA	122	MABTON,INTERBED (PRIEST RAPIDS MBR OF YAKIMA BASALT)		TF		23	SC	D	MBTN 01
CA	124	MABURY,FM		SS		96	C	C	MBRY 01
CA	124	MABURY,MBR (LODD FM)							MBRY 02
WI	430	MACAULEY,GRANITE GNEISS					EC	D	MCLY 01
AK	211	MACCOLL RIDGE,FM	U	SS		760	EC	E	MCRG 01
VA	337	MACCRADY,FM							MCRD 04
KY	337	MACCRADY,MBR (GRAINGER FM)	U			27	SW	A	MCRD 01
VA	337	MACCRADY,MBR (GRAINGER FM)							MCRD 05
VA	337	MACCRADY,SH	U						MCRD 02
WV	337	MACCRADY,SH	U						MCRD 03
KY	364	/MACEDONIA,BED (GRIER MBR OF LEXINGTON LS)	U			5	C	D	MCDN 02
IL	327	MACEDONIA,FM		SS,SH		30	SE	C	MCDN 01
MT	211	[MACGOWAN,BED (KEVIN MBR OF MARIAS RIVER SH)]		CGL		<1	NC	C	MCGN 05
MT	211	/MACGOWAN,CONCRETIONARY BED (KEVIN MBR OF MARIAS RIVER SH)	U						MCGN 02

NY	341	MACHIAS,FM (CANADAWAY GP)				120	WC	A	MCHS	01	
NY	341	MACHIAS,MBR (CANADAWAY FM)							MCHS	02	
NY	341	MACHIAS,SH							MCHS	03	
NM	331	MACHO,MBR (TERERRO FM)	U	LS		9	NC	C	MCHO	02	
NM	107	/MACHO,PYROXENE ANDESITE				300	SW	C	MCHO	01	
ID	107	MACKAY,GRANITE	U					C	E	MCKY	03
UT	311	MACKENTIRE,TONGUE (WOODSIDE FM)		SS	RD	30	NE	C	MCKR	01	
MI	344+	MACKINAC,BRECCIA	U			110	EC	A	MCKC	01	
MI	347	MACKINAC,BRECCIA	U						MCKC	02	
MI	351	MACKINAC,BRECCIA	U						MCKC	03	
IL	112	MACKINAW,MBR (HENRY FM)		GVL		9	C	E	MCKN	02	
OR	221	MACKLYN,MBR (CHETCO FM)		SED			SW	D	MCKL	01	
NC	122	MACKS,FM		SD		10	C	D	MCKS	02	
IL	323	MACOUPIN,LS MBR (MODESTO FM)				2	C	A	MCPN	02	
MO	364	MACY,FM (PLATTIN GP)		LS		27	EC	C	MACY	01	
TX	110	MADDEN,GRAVEL	U			9	WC	D	MDDN	01	
AZ	430	/MADERA,DIORITE	U				EC	A	MDER	13	
CO	324	MADERA,FM							MDER	15	
NM	319+	MADERA,FM (MAGDALENA GP)	U			91	NC	A	MDER	02	
NM	321	MADERA,FM (MAGDALENA GP)	U						MDER	06	
NM	324	MADERA,FM (MAGDALENA GP)	U						MDER	10	
NM	319+	MADERA,GP	U						MDER	03	
NM	321	MADERA,GP	U						MDER	07	
NM	324	MADERA,GP	U						MDER	11	
AZ	430	/MADERA,GRANODIORITE							MDER	14	
CO	324	MADERA,LS							MDER	09	
NM	319+	MADERA,LS (MAGDALENA GP)	U						MDER	04	
NM	321	MADERA,LS (MAGDALENA GP)	U						MDER	08	
NM	324	MADERA,LS (MAGDALENA GP)	U						MDER	12	
AZ	211	MADERA CANYON,GRANODIORITE	U				SE	E	MDRC	02	
AL	301+	[MAD INDIAN,FM]		SCH			EC	E	MDID	03	
AL	304	[MAD INDIAN,FM]							MDID	04	
AL	301+	/MAD INDIAN,GP							MDID	05	
AL	304	/MAD INDIAN,GP							MDID	06	
MT	331+	MADISON,FM	U			380	SC	A	MDSN	27	
ND	331+	MADISON,FM							MDSN	25	
WY	331+	MADISON,FM	U						MDSN	28	
CO	337	MADISON,FM	U						MDSN	06	
MT	337	MADISON,FM	U						MDSN	10	
ND	337	MADISON,FM							MDSN	26	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY 337	MADISON, FM	U						MDSN 17
ID 331+	MADISON, GP	U						MDSN 02
MT 331+	MADISON, GP	U						MDSN 03
ND 331+	MADISON, GP	U						MDSN 24
SD 331+	MADISON, GP	U						MDSN 31
WY 331+	MADISON, GP	U						MDSN 29
ID 337	MADISON, GP	U						MDSN 08
MT 337	MADISON, GP	U						MDSN 11
ND 337	MADISON, GP	U						MDSN 13
SD 337	MADISON, GP	U						MDSN 14
WY 337	MADISON, GP	U						MDSN 18
WY 341	MADISON, GP	U						MDSN 20
ID 331+	MADISON, LS	U						MDSN 30
MT 331+	MADISON, LS	U						MDSN 04
SD 331+	MADISON, LS	U						MDSN 32
WY 331+	MADISON, LS	U						MDSN 05
CO 337	MADISON, LS	U						MDSN 07
ID 337	MADISON, LS	U						MDSN 09
MT 337	MADISON, LS	U						MDSN 12
SD 337	MADISON, LS	U						MDSN 15
UT 337	MADISON, LS	U						MDSN 16
WY 337	MADISON, LS	U						MDSN 19
WY 341	MADISON, LS	U						MDSN 21
WI 371	MADISON, SS	U				11	SC A	MDSN 23
MT 112	MADISON RIVER, BASALT	U						MDRV 01
WY 112	MADISON RIVER, BASALT	U				50	NW E	MDRV 02
MT 121+	MADISON VALLEY, FM	U	SED			370	SC A	MDVL 17
MT 122	MADISON VALLEY, FM	U						MDVL 01
KY 321	MADISONVILLE, LS MBR (STURGIS FM)	U				1	SW A	MDVL 02
OR 121	MADRAS, FM	U	VOL			90	C A	MDRS 01
ME 350	MADRID, FM	U	QTZ				WC C	MDRD 01
ID 112	MADSON, BASALT (SNAKE RIVER GP)	U		BK		61	SC A	MDSN 01
ME 364	MAGALLOWAY, MBR (DIXVILLE FM)	U	GYK			1500	WC E	MGLL 02
NM 319+	MAGDALENA, FM	U	LS			430	SW A	MGDL 02
NM 321	MAGDALENA, FM	U						MGDL 08
TX 321+	MAGDALENA, FM	U						MGDL 07
NM 324	MAGDALENA, FM	U						MGDL 05
TX 324	MAGDALENA, FM	U						MGDL 12
NM 327	MAGDALENA, FM	U						MGDL 09
TX 327	MAGDALENA, FM	U						MGDL 13



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT 237	MAHOGANY,FM	U	SED		260	NC	C	MGNV 08
WY 237	MAHOGANY,FM							MGNV 03
UT 237	MAHOGANY,MBR (ANKAREH FM)	U						MGNV 01
WY 237	MAHOGANY,MBR (ANKAREH FM)	U						MGNV 02
IL 112	MAHOMET,SAND MBR (BANNER FM)				45	EC	C	MHMT 01
LA 124	MAHON,GLAUCONITE LENTIL (COOK MOUNTAIN FM)					NC	D	MHON 01
PA 321	/MAHONING,CLAY [BED] (CONEMAUGH FM)					WC	A	MNNG 20
WV 321	/MAHONING,CLAY [BED] (CONEMAUGH FM)							MNNG 28
PA 321	/MAHONING,FM					WC	A	MNNG 22
MD 321	/MAHONING,LS [BED] (CONEMAUGH FM)							MNNG 13
WV 321	/MAHONING,LS [BED] (CONEMAUGH FM)							MNNG 30
OH 321	/MAHONING,LS MBR (CONEMAUGH FM)							MNNG 16
PA 321	/MAHONING,LS MBR (CONEMAUGH FM)				<1	WC	A	MNNG 23
OH 321	/MAHONING,RED BED (CONEMAUGH FM)							MNNG 17
PA 321	/MAHONING,RED BED (CONEMAUGH FM)					WC	A	MNNG 24
MD 321	MAHONING,SS MBR (CONEMAUGH FM)	U						MNNG 15
OH 321	MAHONING,SS MBR (CONEMAUGH FM)	U						MNNG 18
PA 321	MAHONING,SS MBR (CONEMAUGH FM)	U			30	WC	A	MNNG 25
WV 321	MAHONING,SS MBR (CONEMAUGH FM)	U						MNNG 32
ID 112	MAIN CANYON,FM (GENTILE VALLEY GP)				98	SE	D	MNCN 01
TX 218	MAIN STREET,FM (WASHITA GP)				9	NE	A	MNSR 05
OK 218	MAIN STREET,LS (WASHITA GP)	U						MNSR 04
TX 218	MAIN STREET,LS (WASHITA GP)	U						MNSR 06
TX 218	MAIN STREET,MBR (GEORGETOWN LS)							MNSR 07
WA 374+	MAITLEN,PHYLLITE	U			1500	NE	C	MTLN 01
WA 377	MAITLEN,PHYLLITE	U						MTLN 04
HI 112	[MAKAINO,ANDESITE (HANA GP)]				38	EC	C	MKNO 02
HI 112	/MAKAINO,BASALTIC ANDESITE (HANA GP)	U						MKNO 01
HI 112	MAKALAPA,TUFF (HONOLULU GP)	U			90	NC	A	MKLP 01
HI 112	MAKANAKA,DRIFT	U				SE	C	MKNK 01
HI 112	MAKAPIPI,BASALT (HANA GP)	U			47	EC	C	MKPP 01
HI 112	MAKAWAO,BRECCIA (HONOLULU GP)	U				NC	A	MKWO 01
HI 121	MAKAWELI,FM (WAIMEA CANYON GP)	U			460	NW	C	MKWL 01
ND 112	MAKOTI,DRIFT				22	WC	D	MKOT 01
AK 112+	MAKUSHIN,VOLCS	U			910	SC	D	MKSN 01
AK 121	MAKUSHIN,VOLCS	U						MKSN 02
ID 112	MALAD,MBR (THOUSAND SPRINGS BASALT)	U			120	SC	A	MALD 01
CA 122	MALAGA,MUDSTONE MBR (MONTEREY SH)	U			180	SC	A	MALG 01
IL 112	MALDEN,TILL MBR (WEDRON FM)				8	NC	E	MLDN 01
WI 112	MALDEN,TILL MBR (WEDRON FM)							MLDN 02

WY	112	MALLARD LAKE, MBR (PLATEAU RHYOLITE)	U		>120	NW	E	MDLK	04
VT	377	MALLET, DOL	U		240	NW	A	MLLT	01
VT	377	MALLET, MBR (DUNHAM DOL)						MLLT	02
MD	341	MALLOW, MBR (FOREKNOBS FM)						MLLW	01
VA	341	MALLOW, MBR (FOREKNOBS FM)						MLLW	02
WV	341	MALLOW, MBR (FOREKNOBS FM)		STS	340	EC	E	MLLW	03
TX	221	MALONE, FM	U	LS	110	WC	A	MLON	04
WA	360	[MALONEY, FM]			1200	C	A	MLNY	02
WA	360	/MALONEY, METAMORPHIC SER						MLNY	01
NV	121+	MALPAIS, BASALT	U		61	C	A	MLPS	02
NV	122	MALPAIS, BASALT	U					MLPS	05
OR	112	MALPASS, MBR (WILLAMETTE SILT)		CL	1	WC	E	MLPS	01
CO	112	MALTA, GRAVEL	U		91	C	D	MALT	01
CT	360	MALTBY LAKES, VOLCS	U		990	SC	D	MLBK	01
CT	307+	MAMACOCKE, FM	U	GN		EC	A	MMCK	09
CT	410	MAMACOCKE, FM	U					MMCK	10
NV	120	MAMMOTH, ANDESITE	U			C	A	MMMT	02
CO	123	MAMMOTH MOUNTAIN, TUFF	U		300	SW	A	MMMN	03
LA	121	MAMOU, MBR (FOLEY FM)	U	SED	370	WC	C	MMOU	01
AZ	324	MANAKACHA, FM (SUPAI GP)	U	SS	77	NW	E	MNKC	02
HI	111+	MANANA, TUFF (HONOLULU GP)	U		110	NC	A	MANN	01
HI	112	MANANA, TUFF (HONOLULU GP)	U					MANN	02
NJ	124	MANASQUAN, FM (RANCOCAS GP)	U	MRL	20	EC	A	MNSQ	01
CO	123	MANASSA, MBR (CONEJOS FM)		VOL	460	SC	E	MNSS	01
MD	231	MANASSAS, SS (NEWARK GP)						MNSS	09
VA	231	MANASSAS, SS (NEWARK GP)				NE	A	MNSS	05
WA	124	MANASTASH, FM	U	SS	580	C	A	MNSS	02
GA	307	MANCHESTER, FM (PINE MOUNTAIN GP)			1600	WC	C	MCSR	02
GA	307	MANCHESTER, SCHIST	U					MCSR	03
AL	307	MANCHESTER, SCHIST (PINE MOUNTAIN GP)						MCSR	04
AZ	211	MANCOS, SH	U					MNCS	01
CO	211+	MANCOS, SH	U		610	SW	A	MNCS	02
NM	211	MANCOS, SH	U					MNCS	03
UT	211+	MANCOS, SH	U					MNCS	05
CO	217	MANCOS, SH	U					MNCS	07
UT	217	MANCOS, SH	U					MNCS	08
MI	420	[MANDAN, BASALT (PORTAGE LAKE VOLCS)]			76	NW	A	MNDN	06
MI	420	/MANDAN, FLOW (PORTAGE LAKE VOLCS)	U					MNDN	03
MD	347	MANDATA, FM (HELDERBERG GP)	U					MNDT	01
PA	347	MANDATA, FM (HELDERBERG GP)	U	SH	28	C	C	MNDT	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WV 347	MANDATA,FM (HELDERBERG GP)	U						MNDT 05
PA 347	MANDATA,MBR (HELDERBERG FM)							MNDT 04
PA 347	MANDATA,SH (HELDERBERG GP)							MNDT 08
MD 347	MANDATA,SH MBR (HELDERBERG FM)							MNDT 02
HI 112	MANELE,BASALT (LANAI GP)					C	A	MNEL 01
TX 213	MANESS,SH (WASHITA GP)				19	EC	C	MNSS 07
NM 122	MANGAS,BASALT					WC	D	MNGS 01
TX 318	MANGUM,DOL MBR (BLAINE FM)	U						MNGM 03
OK 317	MANGUM,DOL MBR (BLAINE GYPSUM)	U			2	C	A	MNGM 01
OK 317	MANGUM,DOL MBR (DOG CREEK SH)							MNGM 02
TX 318	MANGUM,DOL MBR (DOG CREEK SH)							MNGM 04
MA 112	MANHASSET,FM	U						MNST 01
NY 112	MANHASSET,FM	U	GV		61	SE	A	MNST 02
RI 112	MANHASSET,FM	U						MNST 03
CT 307	MANHATTAN,FM (NEW YORK CITY GP)							MNTN 09
NY 307	MANHATTAN,FM (NEW YORK CITY GP)				300	SE	A	MNTN 11
CT 307	MANHATTAN,SCHIST	U						MNTN 10
NY 307	MANHATTAN,SCHIST	U						MNTN 12
CA 124	MANIOBRA,FM		STS		1500	SE	C	MNBR 01
MI 354	MANISTIQUE,DOL	U			76	C	A	MNSQ 02
WI 354	MANISTIQUE,DOL							MNSQ 05
MI 354	MANISTIQUE,FM							MNSQ 03
MI 354	MANISTIQUE,GP							MNSQ 04
WI 354	MANISTIQUE,GP							MNSQ 06
ND 341+	MANITOBA,GP		LS		240	CAN	A	MNTB 02
ND 344	MANITOBA,GP							MNTB 03
CO 367	MANITOU,DOL	U		RD	30	C	A	MNTU 02
CO 367	MANITOU,FM	U						MNTU 03
CO 367	MANITOU,LS	U						MNTU 04
CO 367	MANITOU,LS (HORSESHOE MOUNTAIN GP)							MNTU 08
MN 420	MANITOU,TRACHYBASALT (NORTH SHORE GP)				90	NE	E	MNTU 07
OH 357	MANITOU,IN,DOL (ALBION GP)							MNLN 09
MI 357	MANITOU,IN,DOL (CATARACT GP)				76	CAN	A	MNLN 01
NY 357	MANITOU,IN,DOL (CATARACT GP)							MNLN 04
MI 357	MANITOU,IN,DOL MBR (CATARACT FM)	U						MNLN 02
NY 357	MANITOU,IN,DOL MBR (CATARACT FM)	U						MNLN 05
MI 112	MANITOWOC,TILL MBR (WEDRON FM)							MNTC 01
WI 112	MANITOWOC,TILL MBR (WEDRON FM)				2	EC	E	MNTC 02
CA 112	MANIX,LAKE BEDS	U			23	SE	A	MNIX 01
IA 112	MANKATO,DRIFT	U						MNKT 01

MN	112	MANKATO,DRIFT							SC	A	MNKT	02	
AK	317+	MANKOMEN,GP	U	SS		2000			EC	A	MNKM	01	
AK	321	MANKOMEN,GP	U								MNKM	02	
AK	324	MANKOMEN,GP	U								MNKM	03	
IL	326	MANLEY,COAL MBR (ABBOT FM)					1		WC	C	MNLY	02	
NJ	347	MANLIUS,LS (HELDERBERG GP)	U								MNLS	18	
NY	347	MANLIUS,LS (HELDERBERG GP)	U				23		C	A	MNLS	19	
PA	347	MANLIUS,LS (HELDERBERG GP)	U								MNLS	20	
MA	121	MANNETTO,GRAVEL	U								MNNT	01	
NY	121	MANNETTO,GRAVEL	U				150		SE	A	MNNT	02	
TN	361	MANNIE,FM					11		SW	A	MNNI	02	
TN	361	MANNIE,SH	U								MNNI	01	
TX	124	MANNING,CLAY (JACKSON GP)	U				110		EC	A	MNNG	01	
TX	124	MANNING,FM (JACKSON GP)	U								MNNG	02	
ID	327+	MANNING CANYON,FM									MNGC	01	
UT	327+	MANNING CANYON,FM					350		NC	A	MNGC	03	
ID	331	MANNING CANYON,FM									MNGC	05	
UT	331	MANNING CANYON,FM									MNGC	07	
ID	327+	MANNING CANYON,SH	U								MNGC	02	
UT	327+	MANNING CANYON,SH	U								MNGC	04	
ID	331	MANNING CANYON,SH	U								MNGC	06	
UT	331	MANNING CANYON,SH	U								MNGC	08	
PA	317	MANNINGTON,SS [MBR] (WAYNESBURG FM)									MNNG	40	
WV	317	MANNINGTON,SS [MBR] (WAYNESBURG FM)					15		NC	A	MNNG	48	
OH	317	MANNINGTON,SS [MBR] (WAYNESBURG FM)									MNNG	05	
OK	341	MANSVILLE,DOL					7		SE	D	MSVL	03	
NY	344	MANORKILL,FM					46		SE	D	MRKL	05	
IN	324+	MANSFIELD,FM	U	SS			91		WC	A	MFLD	15	
IN	327	MANSFIELD,FM	U								MFLD	16	
IN	324+	MANSFIELD,FM (RACCOON CREEK GP)									MFLD	06	
IN	327	MANSFIELD,FM (RACCOON CREEK GP)									MFLD	07	
MI	430	/MANSFIELD,IRON-BEARING SLATE MBR (HEMLOCK FM)	U				150		NW	C	MFLD	13	
PA	341	MANSFIELD,RED BEDS (CHEMUNG FM)			SH	RD	91		NC	A	MFLD	10	
WY	125	MANTUA,LENTIL (POLECAT BENCH FM)			SS		40		NC	C	MNTU	01	
NM	331	MANUELITAS,MBR (TERERRO FM)	U	LS			14		NC	C	MNLS	17	
CA	100	MANZANITA,DACITE								NW	A	MNZN	01
TX	313	MANZANITA,LS MBR (CHERRY CANYON FM)	U				30		WC	A	MNZN	03	
UT	410	MAPLE CANYON,FM	U	ARK			460		NC	E	MPLC	01	
OH	112	MAPLEDALE,TILL									MPLD	01	
PA	112	MAPLEDALE,TILL					7		WC	E	MPLD	02	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
IA 322	MAPLE HILL,LS (WABAUNSEE GP)						MPLH 05
NE 322	MAPLE HILL,LS (WABAUNSEE GP)						MPLH 03
MO 322	MAPLE HILL,LS MBR (ZEANDALE FM)	U					MPLH 04
KS 322	MAPLE HILL,MBR (ZEANDALE LS)	U			1	EC A	MPLH 01
IA 341	MAPLE HILL,SH (YELLOW SPRING GP)				61	SE A	MPLM 01
ME 350	MAPLE MOUNTAIN,FM (HOVEY GP)	U	SL		1800	NE D	MPLM 03
UT 122	MAPLE RIDGE,PORPHYRY				91	SW C	MPRG 01
ME 344	MAPLETON,SS	U		RD	55	NE A	MPLN 01
NY 354	MAPLEWOOD,SH (CLINTON GP)			GN	6	WC A	MPLD 03
VT 364	MAQUAM,GP		QTZ		130	NW C	MQUM 01
NM 400	MAQUINITA,GRANODIORITE					NC C	MQNT 01
IA 361	MAQUOKETA,FM				76	EC A	MQKT 01
MN 361	MAQUOKETA,FM	U					MQKT 07
MO 361	MAQUOKETA,FM						MQKT 09
IL 361	MAQUOKETA,GP						MQKT 03
IN 361	MAQUOKETA,GP						MQKT 05
WI 361	MAQUOKETA,GP						MQKT 11
IA 361	MAQUOKETA,SH	U					MQKT 02
IL 361	MAQUOKETA,SH	U					MQKT 04
IN 361	MAQUOKETA,SH						MQKT 14
KS 361	MAQUOKETA,SH	U					MQKT 06
KY 361	MAQUOKETA,SH						MQKT 13
MO 361	MAQUOKETA,SH	U					MQKT 10
WI 361	MAQUOKETA,SH	U					MQKT 12
WI 430	MARATHON,CGL				30	C A	MRTN 25
TX 367	MARATHON,LS	U			300	WC A	MRTN 24
TX 361	MARAVILLAS,CHERT	U			210	WC A	MRVL 23
TX 361	MARAVILLAS,FM						MRVL 34
OK 351	MARBLE CITY,MBR (QUARRY MOUNTAIN FM)		LS		19	EC D	MBLC 03
WA 300	MARBLE CREEK,ORTHOGNEISS					NW D	MBCK 03
TX 324+	MARBLE FALLS,GP				150	C A	MBLF 02
TX 327	MARBLE FALLS,GP						MBLF 05
TX 324+	MARBLE FALLS,LS (BEND GP)	U					MBLF 03
TX 327	MARBLE FALLS,LS (BEND GP)	U					MBLF 06
OH 344	MARBLEHEAD,MBR (COLUMBUS LS)				12	NC A	MBLD 02
GA 307	MARBLE HILL,HORNBLLENDE SCHIST				91	NW D	MBLH 01
WA 300	MARBLEMOUNT,QUARTZ DIORITE					NC C	MBLM 02
MT 112	MARBLE POINT,TILL					SC C	MBLP 01
MD 307	MARBURG,SCHIST	U					MRBG 01
PA 307	MARBURG,SCHIST	U				SC C	MRBG 03

PA	307	MARBURG,SCHIST MBR (WISSAHICKON FM)																	MRBG	04
CA	211	MARCA,SH MBR (MORENO FM)								91	SE	C							MARC	01
AR	331	MARCELLA,FM																	MRCL	01
WV	344	MARCELLUS,FM																	MRCL	14
NY	344	MARCELLUS,FM (HAMILTON GP)																	MRCL	16
PA	344	MARCELLUS,FM (HAMILTON GP)																	MRCL	15
VA	344	MARCELLUS,MBR (MILLBORO SH)																	MRCL	07
NJ	344	MARCELLUS,SH																	MRCL	04
VA	344	MARCELLUS,SH																	MRCL	09
WV	344	MARCELLUS,SH																	MRCL	11
MD	344	MARCELLUS,SH (HAMILTON GP)																	MRCL	03
NY	344	MARCELLUS,SH (HAMILTON GP)																	MRCL	05
PA	344	MARCELLUS,SH (HAMILTON GP)																	MRCL	06
TN	364	MARCEM,FM																	MRCM	01
VA	364	MARCEM,FM																	MRCM	02
NY	367	MARCH,FM																	MRCM	01
MN	112	MARCOUX,FM																	MRCX	03
ND	112	MARCOUX,FM																	MRCX	01
MN	112	MARCOUX,MBR (COLEHARBOR FM)																	MRCX	02
ND	112	MARCOUX,MBR (COLEHARBOR FM)																	MRCX	04
KY	324	MARCUM HOLLOW,SS MBR (WISE FM)																	MCMH	01
VA	324	MARCUM HOLLOW,SS MBR (WISE FM)																	MCMH	02
IL	354	MARCUS,FM																	MCRS	02
NY	400	MARCY,ANORTHOSITE																	MRCY	02
MI	440	MARGESON CREEK,GNEISS																	MGCK	10
CA	301	MARIA,FM																	MARI	01
CA	301	MARIA,PLUTONIC COMPLEX																	MARI	02
IN	324	MARIA CREEK,LS																	MRCX	14
IN	324	MARIA CREEK,LS MBR (SHELburn FM)																	MRCK	15
IN	327	MARIAH HILL,COAL BED (MANSFIELD FM)																	MRHL	02
FL	123	MARIANNA,LS																	MRNN	02
GA	123	MARIANNA,LS																	MRNN	03
AL	123	MARIANNA,LS (VICKSBURG GP)																	MRNN	01
LA	123	MARIANNA,LS (VICKSBURG GP)																	MRNN	05
MS	123	MARIANNA,LS (VICKSBURG GP)																	MRNN	04
MT	211	MARIAS RIVER,SH (COLORADO GP)																	MRRV	02
TX	212	MARIBEL,SH MBR (EAGLE FORD FM)																	MRBL	02
OH	317	MARIETTA,SS (DUNKARD GP)																	MRTT	01
OH	317	MARIETTA,SS MBR (WASHINGTON FM)																	MRTT	02
PA	317	MARIETTA,SS MBR (WASHINGTON FM)																	MRTT	04

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WV 317	MARIETTA,SS MBR (WASHINGTON FM)	U						MRTT 06
IL 332	MARIGOLD,OOOLITE MBR (HANEY LS)				6	SC	A	MGLD 02
WI 430	MARINETTE,QUARTZ DIORITE	U				NE	D	MRNT 01
CA 221	MARIPOSA,FM	U	CST		910	C	A	MRPS 03
CA 221	MARIPOSA,SLATE							MRPS 04
CA 200+	MARJO CANYON,DIORITE					SE	C	MRJC 01
CA 300	MARJO CANYON,DIORITE							MRJC 02
UT 374	MARJUM,FM	U			330	WC	A	MRJM 01
UT 374	MARJUM,LS							MRJM 02
IL 354	MARKGRAF,MBR (JOLIET DOL)				7	NE	C	MKGF 01
IL 112	MARKHAM,MBR (ROXANA SILT)				<1	WC	E	MRKM 02
OK 328	MARKHAM MILL,FM (JACKFORK GP)		SS		120	SE	C	MKMM 01
UT 321	MARKHAM PEAK,MBR (BINGHAM MINE FM)	U	QTZ		1300	NW	E	MKPK 01
CA 124	MARKLEY,FM				1000	WC	A	MRKL 08
CA 124	MARKLEY,SS							MRKL 01
CA 124	MARKLEY,SS MBR (KREYENHAGEN FM)	U						MRKL 02
MD 124	MARLBORO,CLAY (PAMUNKEY GP)					C	A	MRLB 08
MD 124	MARLBORO,CLAY MBR (NANJEMOY FM)	U						MRLB 01
VA 124	MARLBORO,CLAY MBR (NANJEMOY FM)	U						MRLB 02
MA 307+	MARLBORO,FM	U	SCH			SE	A	MRLB 03
RI 307+	MARLBORO,FM	U						MRLB 04
MA 410	MARLBORO,FM	U						MRLB 06
RI 410	MARLBORO,FM	U						MRLB 07
AR 212	MARLBROOK,MARL	U			61	SW	A	MLBK 02
LA 212	MARLBROOK,MARL	U						MLBK 03
TX 212	MARLBROOK,MARL	U						MLBK 04
AR 212	MARLBROOK,MARL (TAYLOR GP)							MLBK 11
CA 211	MARLIFE,SH (PANOCHE GP)				2600	C	C	MRLF 01
KS 311	MARLOW,FM							MRLW 01
OK 311	MARLOW,FM (WHITEHORSE GP)	U		RD	37	SC	A	MRLW 03
TX 313	MARLOW,FM (WHITEHORSE GP)	U						MRLW 05
TX 313	MARLOW,MBR (WHITEHORSE SS)							MRLW 06
KS 311	MARLOW,SS MBR (WHITEHORSE FM)							MRLW 02
OK 311	MARLOW,SS MBR (WHITEHORSE FM)							MRLW 04
MO 400	MARLOW MOUNTAIN,RHYOLITE (MIDDLEBROOK GP)					SE	D	MRLM 04
ND 211	MARMARTH,MBR (HELL CREEK FM)		SS		23	SW	E	MRMR 03
IA 325	MARMATON,GP	U						MRMN 05
KS 325	MARMATON,GP	U	SH		15	SE	A	MRMN 06
MO 325	MARMATON,GP	U						MRMN 07
OK 325	MARMATON,GP	U						MRMN 08

CA	217	MARMOLEJO,FM		SH		1500	SC	C	MMLJ	01
CT	310	MAROMAS,GRANITE GNEISS	U				C	A	MRMS	01
CO	317+	MAROON,FM	U	CGL		1400	WC	A	MRON	01
CO	321	MAROON,FM	U						MRON	02
CO	324	MAROON,FM	U						MRON	04
OR	123	MARQUAM,LS					NW	C	MRQM	01
FL	217+	MARQUESAS,SUPERGROUP		DOL,LS		2400	SE	E	MRQS	01
FL	221	MARQUESAS,SUPERGROUP							MRQS	02
MI	440	MARQUETTE,GRANITE					NW	A	MRQT	03
MI	430	MARQUETTE RANGE,SUPERGROUP	U	MSED			NC	E	MQRG	01
WI	430	MARQUETTE RANGE,SUPERGROUP	U						MQRG	02
TX	124	MARQUEZ,SH MBR (REKLAW FM)				18	EC	C	MRQZ	01
MN	420	MARR ISLAND,LAVA (NORTH SHORE GP)				550	NE	E	MILD	02
WA	123	MARROWSTONE,SH					NW	C	MRSN	01
ID	400	MARSHALL,DIORITE							MRSL	09
WA	400	MARSHALL,DIORITE				370	NE	C	MRSL	11
MI	337	MARSHALL,FM	U			48	SE	A	MRSL	06
VA	400	MARSHALL,FM (VIRGINIA BLUE RIDGE COMPLEX)					NE	C	MRSL	12
VA	400	MARSHALL,GNEISS (VIRGINIA BLUE RIDGE COMPLEX)							MRSL	10
VA	400	MARSHALL,GRANITE							MRSL	13
MI	337	MARSHALL,SS							MRSL	15
UT	211	MARSHALL CREEK,BRECCIA	U	SED			SW	C	MLCK	07
WI	430	MARSHALL HILL,CGL					C	A	MLHL	03
MD	211	MARSHALLTOWN,FM	U						MRSL	03
DE	211	MARSHALLTOWN,FM (MATAWAN GP)	U						MRSL	02
NJ	211	MARSHALLTOWN,FM (MATAWAN GP)	U	CL		12	SW	A	MRSL	04
AK	227	MARSH CREEK,BRECCIA MBR (TALKEETNA FM)	U		GN	1000	C	D	MRCK	13
CA	210+	MARSH CREEK,FM		SS		9100	NW	D	MRCK	07
CA	221	MARSH CREEK,FM							MRCK	12
KY	327	MARSH CREEK,SS MBR (LEE FM)	U			46	SE	D	MRCK	16
KY	327	MARSH CREEK,SS TONGUE (LEE FM)	U						MRCK	17
ME	350	MARS HILL,CGL				360	NE	A	MRHL	03
CO	122	MARSLAND,FM	U						MRLD	01
NE	122	MARSLAND,FM	U	SS		46	NW	C	MRLD	03
SD	122	MARSLAND,FM	U						MRLD	05
WY	122	MARSLAND,FM	U						MRLD	07
NE	122	MARSLAND,FM (HEMINGFORD GP)							MRLD	04
WY	122	MARSLAND,FM (HEMINGFORD GP)							MRLD	08
MT	331	MARSTON,MBR (MOUNT HEAD FM)		DOL		43	CAN	B	MRSN	14
LA	125	MARTHAVILLE,FM (WILCOX GP)		SD		91	NW	C	MRVL	09

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 125	MARTHAVILLE, FM (WILCOX GP)							MRVL 10
ND 112	/MARTIN, DRIFT					C D		MRTN 02
AZ 341+	MARTIN, FM	U			100	SE A		MRTN 17
AZ 344	MARTIN, FM	U						MRTN 19
AZ 347	MARTIN, FM	U						MRTN 30
AZ 341+	MARTIN, LS	U						MRTN 18
AZ 344	MARTIN, LS	U						MRTN 20
AZ 347	MARTIN, LS	U						MRTN 34
OR 231	MARTIN BRIDGE, FM	U			910	NE A		MBDG 05
ID 231	MARTIN BRIDGE, FM (LUCILE GP)							MBDG 07
ID 231	MARTIN BRIDGE, FM (SEVEN DEVILS GP)							MBDG 03
OR 231	MARTIN BRIDGE, FM (SEVEN DEVILS GP)							MBDG 09
ID 231	MARTIN BRIDGE, LS	U						MBDG 04
OR 231	MARTIN BRIDGE, LS	U						MBDG 06
ID 231	MARTIN BRIDGE, LS (SEVEN DEVILS GP)							MBDG 08
OR 231	MARTIN BRIDGE, LS (SEVEN DEVILS GP)							MBDG 10
TN 364	MARTIN CREEK, LS	U			55	NE C		MRCK 19
VA 364	MARTIN CREEK, LS	U						MRCK 20
TN 364	MARTIN CREEK, LS (CHICKAMAUGA GP)							MRCK 24
CA 125	MARTINEZ, FM							MRNZ 01
TX 321	MARTIN LAKE, LS [BED] (PALO PINTO FM)	U	SS		1100	NW A		MRK 04
WA 370+	MARTIN RIDGE, SCHIST					1 NE A		MRDG 03
WA 400	MARTIN RIDGE, SCHIST					NC C		MRDG 04
MD 361+	MARTINSBURG, FM							MRBG 25
NJ 361+	MARTINSBURG, FM	U						MRBG 27
PA 361+	MARTINSBURG, FM	U						MRBG 21
VA 361+	MARTINSBURG, FM							MRBG 19
MD 364	MARTINSBURG, FM							MRBG 26
NJ 364	MARTINSBURG, FM	U						MRBG 28
PA 364	MARTINSBURG, FM	U						MRBG 23
VA 364	MARTINSBURG, FM							MRBG 20
PA 361+	MARTINSBURG, GP							MRBG 22
PA 364	MARTINSBURG, GP							MRBG 24
MD 361+	MARTINSBURG, SH	U						MRBG 07
NJ 361+	MARTINSBURG, SH	U						MRBG 08
PA 361+	MARTINSBURG, SH	U						MRBG 09
VA 361+	MARTINSBURG, SH	U						MRBG 11
WV 361+	MARTINSBURG, SH	U						MRBG 12
MD 364	MARTINSBURG, SH	U			300	EC A		MRBG 13
NJ 364	MARTINSBURG, SH	U						MRBG 14

PA	364	MARTINSBURG,SH		U														MRBG	15														
VA	364	MARTINSBURG,SH		U															MRBG	17													
WV	364	MARTINSBURG,SH		U															MRBG	18													
TN	361+	MARTINSBURG,SH (CHICKAMAUGA GP)		U															MRBG	10													
TN	364	MARTINSBURG,SH (CHICKAMAUGA GP)		U															MRBG	16													
IN	111+	MARTINSVILLE,FM							ST										MRVL	33													
IN	112	MARTINSVILLE,FM																	MRVL	01													
CA	410	MARVEL,LS (PAHRUMP GP)																EC	A	MRVL	29												
PA	341	MARVIN CREEK,LS																1	NC	A	MVCK	03											
NY	341	MARVIN CREEK,LS MBR (OSWAYO FM)																			MVCK	02											
PA	341	MARVIN CREEK,LS MBR (OSWAYO FM)																			MVCK	04											
CA	125	MARYSVILLE,CLAYSTONE MBR (MEGANOS FM)		U															180	NW	A	MRVL	07										
CA	125	MARYSVILLE,FM																				MRVL	08										
WA	112	MARYSVILLE,SAND MBR (VASHON DRIFT)		U																	12	NC	C	MRVL	03								
TN	374	MARYVILLE,LS (CONASAUGA GP)		U																		200	EC	A	MRVL	27							
VA	374	MARYVILLE,LS (CONASAUGA GP)																							MRVL	28							
IL	371	MARYWOOD,MBR (IRONTON SS)																				15	NE	D	MRYD	01							
OR	122	MASCALL,FM		U					ASH													300	C	A	MSCL	01							
NH	341+	MASCOMA,GRANITE (OLIVERIAN GP)																							WC	C	MSCM	02					
NH	344	MASCOMA,GRANITE (OLIVERIAN GP)																									MSCM	03					
TN	367	MASCOT,DOL (KNOX GP)		U																			210	NE	C	MSCT	01						
VA	367	MASCOT,DOL (KNOX GP)		U																							MSCT	02					
VA	367	MASCOT,FM																									MSCT	36					
TN	367	MASCOT,FM (KNOX GP)																									MSCT	04					
VA	367	MASCOT,FM (KNOX GP)																									MSCT	03					
CT	112	MASHAMOQUET BROOK,TILL																									NE	D	MQBK	01			
WA	122	MASHEL,FM		U					SED														69	C	D	MSHL	02						
NJ	347	MASHIPACONG,MBR (RONDOUT FM)		U					SH														5	NC	D	MPCG	01						
NY	347	MASHIPACONG,MBR (RONDOUT FM)		U																								MPCG	02				
PA	347	MASHIPACONG,MBR (RONDOUT FM)		U																								MPCG	03				
NJ	347	MASKENOZHA,MBR (NEW SCOTLAND FM)		U					SH															7	NC	D	MSKZ	01					
NY	347	MASKENOZHA,MBR (NEW SCOTLAND FM)		U																								MSKZ	02				
PA	347	MASKENOZHA,MBR (NEW SCOTLAND FM)		U																								MSKZ	03				
RI	330	MASKERCHUGG,GRANITE (EAST GREENWICH GP)		U																								C	C	MKCG	01		
NV	351+	MASKET,SH																											<1	C	C	MSKT	01
NV	354	MASKET,SH																												MSKT	02		
OH	321	/MASON,CLAY MBR (CONEMAUGH FM)																											MSON	01			
OH	321	MASON,SH MBR (CONEMAUGH FM)																											MSON	02			
WV	321	MASON,SH MBR (CONEMAUGH FM)																											1	WC	A	MSON	04
IA	341	MASON CITY,DOL																											39	NC	A	MSNC	11

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IA	341	MASON CITY,DOL MBR (SHELL ROCK FM)							MSNC 12
IA	341	MASON CITY,LS							MSNC 13
CO	123	MASONIC PARK,TUFF				550	SC	E	MCPK 03
NH	341	MASSABESIC,GNEISS (NEW HAMPSHIRE GP)					SC	D	MSBC 01
ID	112+	MASSACRE,VOLCS	U			46	SE	A	MSCR 01
ID	121	MASSACRE,VOLCS	U						MSCR 02
AK	112+	MASSACRE BAY,FM	U	VSED		150	SW	E	MCRB 01
AK	120	MASSACRE BAY,FM	U						MCRB 02
VA	350	MASSANUTTEN,SS	U		WH,RD	300	NC	A	MSNN 01
OH	354	MASSIE,MBR (ALGER FM)		CL		2	WC	A	MSSI 01
MO	341	MASSIE CREEK,SS				2	EC	C	MCRK 16
OH	324	MASSILLON,SS MBR (POTTSVILLE FM)				24	NE	A	MSLN 02
UT	211	MASUK,MBR (MANCOS SH)	U			240	SC	A	MSUK 01
UT	211	MASUK,TONGUE (MANCOS SH)							MSUK 02
ME	347	MATAGAMON,SS	U			1500	NC	D	MGMN 02
AK	211+	MATANUSKA,FM	U	SH		1200	C	A	MNSK 01
AK	217	MATANUSKA,FM	U						MNSK 02
NY	211	MATAWAN,FM	U						MTWN 05
DE	211	MATAWAN,GP	U						MTWN 01
NJ	211	MATAWAN,GP	U	CL		84	EC	A	MTWN 04
WV	324	MATEWAN,SS [MBR] (KANAWHA FM)				18	SW	A	MTWN 09
KS	317	MATFIELD,SH (CHASE GP)	U			21	EC	A	MFLD 03
NE	317	MATFIELD,SH (CHASE GP)	U						MFLD 04
OK	317	MATFIELD,SH (CHASE GP)	U						MFLD 05
PA	321	MATHER,SS LENTIL (WAYNESBURG FM)				23	SW	E	MTHR 03
WV	321	MATHER,SS LENTIL (WAYNESBURG FM)							MTHR 04
CA	124	MATILIJA,FM (TEJON GP)				760	SC	A	MTLJ 01
CA	124	MATILIJA,SS	U						MTLJ 03
CA	124	MATILIJA,SS MBR (TEJON FM)							MTLJ 02
IL	364	MATSON,MBR (JOACHIM DOL)							MTSN 01
MO	364	MATSON,MBR (JOACHIM DOL)				9	EC	D	MTSN 02
MA	304+	[MATTAPAN,COMPLEX]				610	EC	A	MTPN 07
MA	351	[MATTAPAN,COMPLEX]							MTPN 08
MA	304+	/MATTAPAN,VOLC COMPLEX	U						MTPN 03
MA	351	/MATTAPAN,VOLC COMPLEX	U						MTPN 05
VA	125+	MATTAPONI,FM	U	CL	VAR	130	EC	C	MTPN 01
VA	211	MATTAPONI,FM	U						MTPN 02
ME	357+	MATTAWAMKEAG,FM	U	SL			NE	D	MMKG 01
ME	360	MATTAWAMKEAG,FM	U						MMKG 02
CA	111	MATTHES,TILL					C	D	MTTS 01

AL	125	MATTHEWS LANDING, MARL (MIDWAY GP)				30	WC	A	MLDG	01	
AL	125	MATTHEWS LANDING, MARL MBR (PORTERS CREEK CLAY)	U						MLDG	02	
MS	125	MATTHEWS LANDING, MARL MBR (PORTERS CREEK CLAY)	U						MLDG	04	
AL	125	MATTHEWS LANDING, MBR (NAHEOLA FM)							MLDG	03	
IN	321	MATTOON, FM (MCLEANSBORO GP)							MTTN	03	
IL	322+	MATTOON, FM (MCLEANSBORO GP)							MTTN	04	
IL	323	MATTOON, FM (MCLEANSBORO GP)		SH		180	EC	C	MTTN	05	
PA	327+	MAUCH CHUNK, FM	U						MCKK	14	
MD	331	MAUCH CHUNK, FM	U						MCKK	18	
PA	331	MAUCH CHUNK, FM	U						MCKK	21	
WV	331	MAUCH CHUNK, GP							MCKK	25	
PA	327+	MAUCH CHUNK, SH	U						MCKK	16	
MD	331	MAUCH CHUNK, SH	U						MCKK	19	
PA	331	MAUCH CHUNK, SH	U						MCKK	24	
OK	317	MAUD, CHERT CGL MBR (KONAWA FM)						EC	C	MAUD	01
MT	211	MAUDLOW, CGL LENTIL (LIVINGSTON FM)				210	C	C	MDLW	01	
OH	351	MAUMEE RIVER, MBR (TYMOCHTEE FM)		DOL		20	NW	E	MMRV	01	
HI	121	MAUNA KUWALE, TRACHYTE				120	NC	D	MNKL	01	
HI	112	MAUNAWILI, VOLCS (HONOLULU GP)	U			30	NC	A	MNWL	01	
MT	371	MAURICE, FM		SH		46	SC	C	MURC	01	
WY	371	MAURICE, FM							MURC	03	
WY	371	MAURICE, MBR (BOYSEN FM)							MURC	04	
MT	371	MAURICE, MBR (GROS VENTRE FM)							MURC	02	
WY	371	MAURICE, MBR (GROS VENTRE FM)							MURC	05	
AL	337	MAURY, FM	U						MURY	01	
GA	337	MAURY, FM	U						MURY	03	
TN	337	MAURY, FM	U		GN	1	C	A	MURY	06	
GA	337	MAURY, MBR (CHATTANOOGA SH)	U						MURY	04	
AL	337	MAURY, SH							MURY	02	
GA	337	MAURY, SH							MURY	05	
TN	337	MAURY, SH							MURY	07	
TN	337	MAURY, SH MBR (FORT PAYNE FM)							MURY	08	
HI	112	MAUUMAE, VOLCS (HONOLULU GP)	U		BK	46	NC	A	MUUM	01	
AZ	420	MAVERICK, SH				240	C	C	MVCK	05	
UT	374	MAXFIELD, LS	U			150	NC	A	MXFD	01	
TX	218	MAXON, FM (TRINITY GP)	U	SS		61	WC	A	MXON	02	
NC	400	MAX PATCH, GRANITE	U		WH		NW	A	MXPC	01	
TN	400	MAX PATCH, GRANITE	U						MXPC	03	
NC	400	MAX PATCH, GRANITE GNEISS							MXPC	02	
OH	331	MAXVILLE, LS				34	C	A	MXVL	02	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 318	MAYBELLE, FM		LS			NC	A	MBLL 01
OR 231	MAY CREEK, FM (APPLEGATE GP)	U			300	SW	A	MCRK 14
OR 231	MAY CREEK, SCHIST (APPLEGATE GP)	U						MCRK 15
OK 331	MAYES, FM	U			30	NE	A	MYES 03
OK 331	MAYES, GP							MYES 04
OK 331	MAYES, LS MBR (FAYETTEVILLE SH)							MYES 05
IL 371	MAYFIELD, MBR (MOUNT SIMON SS)				110	NE	C	MFLD 12
TX 120	MAYFIELD HILLS, PLAGIOCLASE SYENITE					WC	C	MFDH 01
NV 367	MAYFLOWER, SCHIST	U			240	C	A	MFLR 02
ME 357	MAYFLOWER HILL, FM	U	MSED		300	C	D	MFLH 01
KY 371	MAYNARDVILLE, DOL							MDVL 07
KY 371	MAYNARDVILLE, DOL MBR (CONASAUGA SH)	U						MDVL 21
VA 371	MAYNARDVILLE, FM	U						MDVL 22
TN 371	MAYNARDVILLE, FM (CONASAUGA GP)	U			76	NE	A	MDVL 08
VA 371	MAYNARDVILLE, FM (CONASAUGA GP)							MDVL 12
GA 371	MAYNARDVILLE, LS							MDVL 18
VA 371	MAYNARDVILLE, LS	U						MDVL 23
TN 371	MAYNARDVILLE, LS (CONASAUGA GP)	U						MDVL 09
VA 371	MAYNARDVILLE, LS (CONASAUGA GP)							MDVL 13
TN 371	MAYNARDVILLE, LS (LEE VALLEY GP)							MDVL 20
GA 371	MAYNARDVILLE, LS MBR (CONASAUGA SH)	U						MDVL 19
TN 371	MAYNARDVILLE, LS MBR (CONASAUGA SH)	U						MDVL 10
TN 371	MAYNARDVILLE, LS MBR (NOLICHUCKY SH)	U						MDVL 11
IA 339	MAYNES CREEK, FM		LS		21	NC	A	MCRK 12
IA 339	MAYNES CREEK, MBR (HAMPTON FM)							MCRK 13
SD 400	MAYO, FM	U	SCH		4300	SW	D	MAYO 01
NH 347	MAY POND, MBR (LITTLETON FM)		GN		1500	C	C	MPND 01
WI 354	MAYVILLE, LS	U			30	SE	A	MVLL 01
MT 341+	MAYWOOD, FM	U	LS		91	WC	A	MYWD 01
MT 344	MAYWOOD, FM	U						MYWD 02
WY 344	MAYWOOD, FM							MYWD 03
OR	MAZAMA--SEE MOUNT MAZAMA							
AR 367	MAZARN, SH	U			300	WC	A	MZRN 01
OK 367	MAZARN, SH	U						MZRN 02
AZ 420	MAZATZAL, GRANITE					C	C	MZZL 01
AZ 420	MAZATZAL, QTZ	U			400	C	A	MZZL 02
MN 371	MAZOMANIE, MBR (FRANCONIA FM)							MZMN 01
WI 371	MAZOMANIE, MBR (FRANCONIA SS)	U			50	SC	A	MZMN 03
WI 371	MAZOMANIE, SS	U						MZMN 02
WI 371	MAZOMANIE, SS (TUNNEL CITY GP)							MZMN 04

CA	364+	MAZOURKA,FM (POGONIP GP)		SH		210	EC	A	MZRK	01
CA	367	MAZOURKA,FM (POGONIP GP)							MZRK	03
CA	364+	MAZOURKA,GP		U					MZRK	02
CA	367	MAZOURKA,GP		U					MZRK	04
CA	211	MCALEE,ADAMELLITE					EC	D	MCAF	01
NV	211	MCALEE,ADAMELLITE							MCAF	02
NV	364	/MCALEE,QTZ (VALMY GP)				420	NE	D	MCAF	05
AR	325	MCALESTER,FM (KREBS GP)		U					MCAL	01
OK	325	MCALESTER,FM (KREBS GP)		U		610	EC	A	MCAL	03
OK	325	MCALESTER,SH (KREBS GP)		U					MCAL	04
WI	430	MCALLISTER,FM			BAS	3000	NE	E	MCAL	05
OH	324	MARTHUR,MBR (POTTSVILLE FM)			LS	4	SC	A	MCAR	01
GA	124	MCBEAN,FM		U	CL	120	EC	A	MCBN	01
SC	124	MCBEAN,FM (ORANGEBURG GP)		U					MCBN	02
AL	125	MCBRYDE,LS MBR (CLAYTON FM)		U		8	C	C	MCBD	01
ID	200	MCCALL,MIGMATITE					SW	D	MCCL	04
AK	341+	MCCANN HILL,CHERT		U		240	EC	D	MCCH	03
AK	344	MCCANN HILL,CHERT		U					MCCH	01
AK	347	MCCANN HILL,CHERT		U					MCCH	04
AK	227+	MCCARTHY,FM		U	BK	760	EC	A	MCCR	01
AK	231	MCCARTHY,FM		U					MCCR	03
AK	227+	MCCARTHY,SH		U					MCCR	02
AK	231	MCCARTHY,SH		U					MCCR	04
NM	111	MCCARTYS,BASALT		U			NW	A	MCCR	05
WI	430	MCCASLIN,FM				1500	NE	D	MCCL	07
WI	430	MCCASLIN,QTZ							MCCL	08
IL	323	MCCLEARYS BLUFF,COAL MBR (MATTOON FM)				<1	SE	C	MCBF	03
NV	112	MCCLELLAN PEAK,OLIVINE BASALT		U		15	WC	C	MCPK	01
CA	317	MCLOUD,LS		U		610	NW	A	MCCD	01
VA	324	MCCLURE,SS MBR (NORTON FM)		U		61	SW	A	MCLL	09
CO	370	MCCLURE MOUNTAIN,COMPLEX		U	INTR		SC	D	MCCM	01
NV	347	MCCOLLEY CANYON,FM (NEVADA GP)			LS	130	NE	C	MCCC	03
NV	347	MCCOLLEY CANYON,MBR (NEVADA FM)							MCCC	01
NM	313	MCCOMBS,LS MBR (BELL CANYON FM)		U					MCMB	01
TX	313	MCCOMBS,LS MBR (BELL CANYON FM)		U		3	WC	C	MCMB	02
IL	326+	MCCORMICK,GP		U	SS,SH	180	SE	C	MCHK	01
IL	328	MCCORMICK,GP		U					MCHK	02
WY	211	MCCOURT,SS TONGUE (ROCK SPRINGS FM)				32	SW	D	MCCR	07
NV	410	MCCOY CREEK,GP			MSED	2700	NE	D	MCKC	31
CA	230+	MCCOY MOUNTAINS,FM			MVOL		SE	C	MCCM	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
CA 301	MCCOY MOUNTAINS, FM							MCCM 03	
AZ 341	MCCRACKEN, SS MBR (ELBERT FM)							MCCK 26	
CO 341	MCCRACKEN, SS MBR (ELBERT FM)							MCCK 27	
NM 341	MCCRACKEN, SS MBR (ELBERT FM)							MCCK 28	
UT 341	MCCRACKEN, SS MBR (ELBERT FM)				34	SE	C	MCCK 29	
IL 339	MCCRANEY, LS (NORTH HILL GP)				18	WC	C	MCCR 10	
IA 339	MCCRANEY, LS MBR (HANNIBAL, SH)							MCCR 09	
OK 325	MCCURTAIN, SH MBR (MCALESTER FM)	U		BL	150	EC	A	MCCR 13	
TX 120	[MCCUTCHEON, GP]				520	WC	C	MCCC 04	
TX 120	/MCCUTCHEON, VOLC SER							MCCC 02	
CO 211	MCDERMOTT, FM		SS		100	SW	A	MCDM 01	
NM 211	MCDERMOTT, FM							MCDM 03	
CO 211	MCDERMOTT, MBR (ANIMAS FM)	U						MCDM 02	
NM 211	MCDERMOTT, MBR (ANIMAS FM)	U						MCDM 04	
CA 122	MCDONALD, SH				690	SC	C	MCD D 01	
CA 122	MCDONALD, SH MBR (MONTEREY FM)							MCD D 02	
IL 112	MCDONOUGH, LOESS MBR (ROXANA SILT)				2	SC	E	MCDG 02	
LA 221	MCFEARIN, TONGUE (TERRYVILLE SS)				46	NW	D	MCFR 01	
CA 112	MCGEE, TILL	U					C	A	MCGE 01
NV 112	MCGEE, TILL								MCGE 02
CA 200	MCGEE CREEK, GRANITE						C	D	MGCK 06
NM 217	MCGHEE PEAK, FM (BISBEE GP)		CGL		110	SW	C	MGPK 02	
VA 364	MCGLONE, FM				19	C	C	MCGL 03	
VA 364	MCGLONE, LS								MCGL 01
WV 364	MCGLONE, LS								MCGL 02
ID 337	MCGOWAN CREEK, FM	U	ARG		1100	EC	E	MGCK 14	
MN 440	MCGRATH, GNEISS						C	C	MCGR 03
VA 364	MCGRAW, LS				3	C	C	MCGR 01	
WV 364	MCGRAW, LS								MCGR 02
WA 120	MCGREGOR, GNEISS						NC	D	MCGG 01
IA 364	MCGREGOR, LS MBR (PLATTEVILLE FM)	U			7	NE	A	MCGG 02	
WI 364	MCGREGOR, LS MBR (PLATTEVILLE FM)	U							MCGG 06
MN 364	MCGREGOR, MBR (PLATTEVILLE FM)	U							MCGG 05
WA 420	MCHALE, SLATE (DEER TRAIL GP)	U			460	NE	C	MCHL 03	
ND 112	MCHENRY, DRIFT						EC	D	MCHR 01
AK 210+	MCHUGH, COMPLEX	U	MVOL				C	E	MCHG 01
AK 221	MCHUGH, COMPLEX	U							MCHG 02
WA 124	MCINTOSH, FM	U	STS, CLS		1400	SW	C	MCNS 01	
TX 364	MCKEE, SS (SIMPSON GP)				16	WC	C	MCKE 01	
OH 321	MCKEEFREY, STS MBR (MONONGAHELA FM)	U			9	EC	D	MCKF 01	

PA	321	MCKEEFREY,STS MBR (MONONGAHELA FM)	U									MCKF	02
WV	321	MCKEEFREY,STS MBR (MONONGAHELA FM)										MCKF	03
NM	367	MCKELLIGON,LS (EL PASO GP)	U									MCKG	06
TX	367	MCKELLIGON,LS (EL PASO GP)	U								WC	D	MCKG 05
ME	347	MCKENNEY PONDS,LS MBR (TARRATINE FM)	U						61		WC	D	MCKP 01
OR	111	[MCKENZIE,BASALT]									WC	C	MCKZ 13
OR	111	/MCKENZIE,FLAWS											MCKZ 01
MD	354	MCKENZIE,FM	U						91		NW	A	MCKZ 03
PA	354	MCKENZIE,FM	U										MCKZ 05
VA	354	MCKENZIE,FM	U										MCKZ 08
WV	354	MCKENZIE,FM	U										MCKZ 10
VA	354	MCKENZIE,LS	U										MCKZ 09
WV	354	MCKENZIE,LS	U										MCKZ 11
PA	354	MCKENZIE,MBR (MIFFLINTOWN FM)											MCKZ 07
OK	367	MCKENZIE HILL,FM (ARBUCKLE GP)	U						340		SC	A	MKZH 01
OK	367	MCKENZIE HILL,LS (ARBUCKLE GP)	U										MKZH 02
UT	317	MCKIM,LS MBR (RICO FM)											MCKM 01
ID	112	MCKINNEY,BASALT (SNAKE RIVER GP)	U										MCKN 01
TX	218	MCKNIGHT,FM (ATASCOSA GP)											MCKG 02
IL	322+	MCLEANSBORO,FM	U										MCLB 09
IL	323	MCLEANSBORO,FM	U										MCLB 10
IL	325	MCLEANSBORO,FM	U										MCLB 11
IN	321+	MCLEANSBORO,GP											MCLB 05
IL	322+	MCLEANSBORO,GP											MCLB 03
IL	323	MCLEANSBORO,GP											MCLB 07
IN	324	MCLEANSBORO,GP											MCLB 06
IL	325	MCLEANSBORO,GP											MCLB 08
OK	364	MCLISH,FM (SIMPSON GP)	U			SS			61		SC	A	MCLS 01
TX	364	MCLISH,FM (SIMPSON GP)											MCLS 02
KS	326	MCLOUTH,FM				SH			61		NE	D	MCLT 01
MO	326	MCLOUTH,FM											MCLT 02
CA	122	MCLURE,FM											MCLR 01
CA	122	MCLURE,MBR (MONTEREY FM)	U						240		C	A	MCLR 02
CA	122	MCLURE,MBR (MONTEREY SH)	U										MCLR 03
CA	122	MCLURE,SH											MCLR 04
TX	324	MCMENAMY,LS											MCM 01
OK	367	MCMICHEL,MBR (MCKENZIE HILL FM)				LS			21		NE	C	MCM 01
OH	361	MCMICKEN,FM							300		SC	C	MCMC 01
KY	361	MCMILLAN,FM				SH			18		SW	A	MCMK 05
OH	361	MCMILLAN,FM	U										MCML 16
OH	361	MCMILLAN,FM	U			SED			26		SW	A	MCML 13

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV	347	MCMONNIGAL,LS	U			65	C	C	MCMG 01
OK	325	MCNABB,LS [BED] (SENORA FM)					NE	C	MCNB 01
IL	211	MCNAIRY,FM	U						MCNR 04
KY	211	MCNAIRY,FM	U						MCNR 06
MO	211	MCNAIRY,FM . . . . .							MCNR 08
TN	211	MCNAIRY,FM				150	SW	A	MCNR 14
IL	211	MCNAIRY,SAND	U						MCNR 05
KY	211	MCNAIRY,SAND	U						MCNR 07
MO	211	MCNAIRY,SAND	U						MCNR 09
TN	211	MCNAIRY,SAND . . . . .	U						MCNR 11
MS	212	MCNAIRY,SAND MBR (RIPLEY FM)	U						MCNR 10
MT	420	MCNAMARA,ARGILLITE (MISSOULA GP)	U			910	WC	A	MCNM 01
MT	420	MCNAMARA,FM (MISSOULA GP)	U						MCNM 02
WA	112	MCNEELEY,DRIFT	U				WC	E	MCNL 01
OK	218	MCNUTT,LS MBR (BOKCHITO FM)				1	SE	E	MCNT 02
KS	112	MCPHERSON,FM	U	SD,CL		20	C	A	MCPR 01
NM	211	MCRAE,FM		SH,STS		910	SW	C	MCRE 02
AL	212	MCSHAN,FM	U	SD		61	WC	C	MCSN 07
MS	212	MCSHAN,FM	U						MCSN 08
IL	323	MCWAIN,SS MBR (BOND FM)				3	C	C	MCWN 02
AZ	374	MEAD,LS				34	NW	C	MEAD 01
KS	112	MEADE,FM				19	SW	A	MEDE 07
OK	112	[MEADE,FM]							MEDE 08
KS	112	MEADE,GP	U						MEDE 03
OK	112	/MEADE,GP . . . . .							MEDE 05
OK	112	MEADE,GRAVEL							MEDE 06
ID	317	/MEADE PEAK,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U			61	SE	C	MDPK 06
MT	317	/MEADE PEAK,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U						MDPK 07
UT	317	/MEADE PEAK,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U						MDPK 09
WY	317	/MEADE PEAK,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U						MDPK 11
MT	317	/MEADE PEAK,PHOSPHATIC SH TONGUE (PHOSPHORIA FM)	U						MDPK 08
UT	317	/MEADE PEAK,PHOSPHATIC SH TONGUE (PHOSPHORIA FM)	U						MDPK 10
WY	317	/MEADE PEAK,PHOSPHATIC SH TONGUE (PHOSPHORIA FM)	U						MDPK 12
ID	317	[MEADE PEAK,SH MBR (PHOSPHORIA FM)]							MDPK 17
MT	317	[MEADE PEAK,SH MBR (PHOSPHORIA FM)] . . . . .							MDPK 18
UT	317	[MEADE PEAK,SH MBR (PHOSPHORIA FM)]							MDPK 22
WY	317	[MEADE PEAK,SH MBR (PHOSPHORIA FM)]							MDPK 20
MT	317	[MEADE PEAK,SH TONGUE (PHOSPHORIA FM)]							MDPK 19
UT	317	[MEADE PEAK,SH TONGUE (PHOSPHORIA FM)]							MDPK 23
WY	317	[MEADE PEAK,SH TONGUE (PHOSPHORIA FM)] . . . . .							MDPK 21

IL	112	MEADOW,LOESS MBR (ROXANA SILT)				13	SC	E	MDOW	02	
TN	364	MEADOW,MARBLE MBR (SEVIER SH)	U			91	EC	A	MDOW	04	
UT	324+	MEADOW CANYON,MBR (OQUIRRH FM)		SS		290	NC	C	MDCN	02	
UT	327	MEADOW CANYON,MBR (OQUIRRH FM)							MDCN	03	
WY	123	/MEADOW CREEK,GRANODIORITE				460	NW	E	MDCK	24	
UT	211	/MEADOW CREEK,SS MBR (FRONTIER FM)						NC	C	MDCK	13
AZ	122	MEADOW CREEK,TRACHYTE	U					WC	A	MDCK	01
NV	124	MEADOW FORK,FM	U	CGL		400	NE	D	MDFK	01	
NV	374	MEADOW VALLEY,MBR (HIGHLAND PEAK FM)	U	LS		130	EC	D	MDVL	15	
NY	341	MEADS CREEK,FM (WEST FALLS GP)		SH,SS				WC	E	MDCK	22
OH	337	MEADVILLE,FM (CUYAHOGA GP)								MDVL	03
OH	337	MEADVILLE,SH (CUYAHOGA GP)	U							MDVL	04
PA	337	MEADVILLE,SH (CUYAHOGA GP)	U			20	NW	A	MDVL	06	
OH	337	MEADVILLE,SH MBR (CUYAHOGA FM)								MDVL	05
ID	374	MEAGHER,LS	U							MGHR	01
MT	374	MEAGHER,LS	U			34	C	A	MGHR	02	
WY	374	MEAGHER,LS	U							MGHR	03
TX	123	MEANS,TRACHYTE (GARREN GP)				160	WC	C	MENS	01	
CA	121	MECCA,FM		CGL		300	SE	C	MECC	01	
IL	325	MECCA QUARRY,SH MBR (CARBONDALE FM)								MCQR	02
IN	324	MECCA QUARRY,SH MBR (LINTON FM)						WC	D	MCQR	01
VA	377+	MECHUM RIVER,FM		MSED				NC	C	MMRV	02
VA	400	MECHUM RIVER,FM								MMRV	03
NC	300	MECKLENBURG,GABBRO				4600	C	E	MKBG	01	
SC	300	MECKLENBURG,GABBRO								MKBG	02
NV	122	MEDA,RHYOLITE	U					C	A	MEDA	01
ME	347	MEDDYBEMPS,GRANITE						EC	E	MBMP	01
MA	231	MEDFORD,DIABASE	U					NE	A	MDFD	01
CA	122	MEDIA,SH MBR (TEMBLOR FM)	U			150	C	A	MEDI	01	
CA	111	MEDICINE,DACITE			BK	76	NC	C	MDCN	01	
WY	211	MEDICINE BOW,FM	U	SH		1900	SE	A	MDCB	02	
ND	112	MEDICINE HILL,FM		TL	YL	12	C	E	MDCB	01	
KS	317	MEDICINE LODGE,GYPSUM MBR (BLAINE FM)	U			9	SC	A	MCLG	05	
OK	317	MEDICINE LODGE,GYPSUM MBR (BLAINE FM)	U							MCLG	07
TX	318	MEDICINE LODGE,GYPSUM MBR (BLAINE FM)								MCLG	08
ID	122	MEDICINE LODGE,VOLCS				1500	EC	C	MCLG	01	
MT	122	MEDICINE LODGE,VOLCS								MCLG	02
WY	400	MEDICINE PEAK,QTZ (LIBBY CREEK GP)				1200	SE	A	MCPK	04	
SD	112	MEDICINE ROOT,GRAVEL						SW	D	MDCR	01
TX	212	[MEDILL,MBR (EAGLE FORD FM)]				6	NE	C	MDLL	04	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 112	MEDILL,SAND				18	SC	C	MDLL 01
TX 212	/MEDILL,VOLC ZONE (EAGLE FORD FM)							MDLL 03
NY 357	MEDINA,GP		SS	RD	240	WC	A	MDIN 03
TX 123	MEDLEY,FM		LAT		7	WC	E	MDLY 02
MI 420	MEDORA,AMYGDALOID (PORTAGE LAKE VOLCS)	U				NW	A	MDOR 01
ND 125	MEDORA,MBR (TONGUE RIVER FM)		SD		8	WC	E	MDOR 02
IA 364	MEDUSA,MBR (PECATONICA FM)							MDUS 02
IL 364	MEDUSA,MBR (PECATONICA FM)		LS		3	NE	C	MDUS 01
MO 364	MEDUSA,MBR (PECATONICA FM)							MDUS 03
ME 357+	MEDUXNEKEAG,GP	U	SL		300	NE	D	MXKG 03
ME 361	MEDUXNEKEAG,GP	U						MXKG 05
ME 364	MEDUXNEKEAG,GP	U						MXKG 07
SD 321	[MEEK,FM]							MEEK 04
SD 321	/MEEK,GP							MEEK 01
WY 321	MEEK,MBR (HARTVILLE FM)		LS		40	SE	C	MEEK 02
NE 323	MEEK,MBR (HARTVILLE FM)							MEEK 03
TX 324	MEEK BEND,LS (STRAWN GP)				6	C	A	MKBD 04
TX 324	MEEK BEND,LS BED (HILL CREEK MBR OF LAZY BEND FM)							MKBD 01
TX 324	MEEK BEND,LS MBR (MILLSAP LAKE FM)							MKBD 02
CA 112+	MEEKE MINE,FM	U	GVL		460	SC	D	MKMN 01
CA 121	MEEKE MINE,FM	U						MKMN 03
CO 211	MEEKER,SS MBR (MANCOS SH)	U			55	NW	C	MEKR 01
NY 344	MEEKER HILL,BED (TULLY LS)		STS,LS		<1	C	E	MKHL 01
OK 420	MEERS,QTZ	U				SC	A	MERS 01
WY 211	MEETEETSE,FM	U	SS		340	NW	A	MTTS 02
NH 347+	MEETINGHOUSE,SLATE	U						MNGS 06
VT 347	MEETINGHOUSE,SLATE	U			340	C	C	MNGS 04
NH 351	MEETINGHOUSE,SLATE	U						MNGS 03
VT 347	MEETINGHOUSE,SLATE (ST. FRANCIS GP)							MNGS 05
CA 125	MEGANOS,FM	U	CLS		900	WC	A	MGNS 01
OR 122	MEHAMA,VOLCS (SARDINE GP)				180	NC	A	MEHM 01
CA 121+	MEHRTEN,FM	U	SS		120	WC	A	MRTN 05
NV 121+	MEHRTEN,FM	U						MRTN 06
CA 122	MEHRTEN,FM	U						MRTN 07
NV 122	MEHRTEN,FM	U						MRTN 08
OH 321	MEIGS CREEK,CLAY MBR (MONONGAHELA FM)				2	EC	C	MGCK 08
NV 341+	MEISTER,MBR (DEVILS GATE LS)	U			120	EC	C	MSTR 01
NV 344	MEISTER,MBR (DEVILS GATE LS)	U						MSTR 02
MI 344	MELDRUM,MBR (AMHERSTBURG FM)		LS		85	EC	E	MLDM 01
WI 420	[MELLEN,COMPLEX]					NC	A	MLLN 02

WI	420	/MELLEN,INTRUSIVE COMPLEX										MLLN	01
ID	112	MELON,GRAVEL (SNAKE RIVER GP)		U			46	SC	D			MLON	01
AK	217	MELOZI,FM		U	SH		910	C	A			MLOZ	01
VA	400	MELROSE,GRANITE						SC	A			MLRS	04
MT	125	MELVILLE,FM (FORT UNION GP)			SH		1800	C	C			MLVL	01
TN	124	MEMPHIS,SAND (CLAIBORNE GP)		U			210	WC	E			MMP5	02
VT	347+	MEMPHREMAGOG,FM					2400	NC	A			MPGG	01
VT	351	MEMPHREMAGOG,FM										MPGG	03
VT	347+	MEMPHREMAGOG,SLATE										MPGG	02
VT	351	MEMPHREMAGOG,SLATE										MPGG	04
ID	112	MENAN,TUFF		U					SE	C		MENN	01
IN	332	MENARD,FM										MNRD	07
IL	332	MENARD,LS		U			24	SC	A			MNRD	01
IN	332	MENARD,LS		U								MNRD	03
KY	332	MENARD,LS		U								MNRD	04
KY	332	MENARD,LS MBR (BUFFALO WALLOW FM)		U								MNRD	06
CA	420	MENDENHALL,GNEISS						SC	C			MNDL	01
NV	367+	MENDHA,FM		U	LS		580	EC	A			MNDH	01
NV	371	MENDHA,FM		U								MNDH	02
VT	377	MENDON,FM		U	SCH		610	WC	A			MNDN	02
CO	211	MENEFEE,FM (MESAVERDE GP)		U	SS		120	SW	A			MENF	01
NM	211	MENEFEE,FM (MESAVERDE GP)		U								MENF	02
MI	430	MENOMINEE,GP (MARQUETTE RANGE SUPERGROUP)		U	SL			WC	C			MNMN	02
WI	430	MENOMINEE,GP (MARQUETTE RANGE SUPERGROUP)		U								MNMN	03
NY	344	MENTETH,FM										MNTT	02
NY	344	MENTETH,LS (HAMILTON GP)										MNTT	05
NY	344	MENTETH,LS MBR (MOSCOW FM)										MNTT	04
NY	344	MENTETH,LS MBR (MOSCOW SH)		U								MNTT	03
MO	338	MEPPEN,FM										MPPN	03
IL	338	MEPPEN,LS										MPPN	02
CA	112+	MERCED,FM		U	SS		1800	WC	A			MRCO	01
CA	121	MERCED,FM		U								MRCO	02
CA	221	MERCED FALLS,SLATE										MCDF	01
ND	112	MERCER,DRIFT										MRCR	01
PA	324	MERCER,FM (POTTSVILLE GP)		U	SH		16	WC	A			MRCR	10
WV	324	MERCER,MBR (KANAWHA FM)		U								MRCR	18
OH	324	MERCER,MBR (POTTSVILLE FM)		U								MRCR	08
PA	324	MERCER,MBR (POTTSVILLE FM)		U								MRCR	12
MD	324	MERCER,SH MBR (POTTSVILLE FM)										MRCR	05
ND	112	MERCER,TILL										MRCR	02



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA	364	MERCERSBURG,FM		LS		150	SC	C	MCBG 01
MD	211	MERCHANTVILLE,FM	U						MCVL 03
DE	211	MERCHANTVILLE,FM (MATAWAN GP)	U						MCVL 01
NJ	211	MERCHANTVILLE,FM (MATAWAN GP)	U	CL		18	WC	A	MCVL 05
NV	337	MERCURY,LS	U			35	SE	C	MRCR 16
CA	211	MERCY,SS LENTIL (TIERRA LOMA MBR OF MORENO FM)				58	C	C	MRCY 01
NH	341	MEREDITH,GRANITE (NEW HAMPSHIRE GP)	U				C	A	MRDT 01
CT	231	MERIDEN,FM (NEWARK GP)		STS		850	C	C	MRDN 05
MA	231	MERIDEN,FM (NEWARK GP)							MRDN 07
CT	231	MERIDEN,GP							MRDN 06
AL	124	MERIDIAN,FM (CLAIBORNE GP)							MRDN 01
AL	124	MERIDIAN,SAND MBR (TALLAHATTA FM)	U						MRDN 02
MS	124	MERIDIAN,SAND MBR (TALLAHATTA FM)	U			23	EC	A	MRDN 04
AZ	374	MERIWITICA,MBR (BRIGHT ANGEL SH)		DOL		5	NW	C	MRTC 01
AZ	374	MERIWITICA,MBR (LYNDON LS)							MRTC 04
AZ	374	MERIWITICA,TONGUE (BRIGHT ANGEL SH)	U						MRTC 02
TX	318	MERKEL,DOL MBR (CHOZA FM)	U			2	C	A	MRKL 03
TX	318	MERKEL,DOL MBR (CLEAR FORK FM)	U						MRKL 04
CA	125	MERLE,FM		CST		1500	SC	D	MERL 01
LA	111	MERMENTAU,MBR (LE MOYEN FM)	U	MD		60	SW	C	MRMN 01
IN	321	MEROM,SS	U			15	SW	A	MROM 01
IN	321	MEROM,SS MBR (MATTOON FM)							MROM 03
IL	323	MEROM,SS MBR (MATTOON FM)							MROM 02
KS	323	MERRIAM,MBR (PLATTSBURG LS)	U			2	NE	A	MRRM 02
MO	323	MERRIAM,MBR (PLATTSBURG LS)							MRRM 03
NE	323	MERRIAM,MBR (PLATTSBURG LS)	U						MRRM 04
AZ	111	MERRIAM CRATER,BASALT					C	D	MRCM 01
TX	123	MERRILL,FM		LAT	RD	38	WC	E	MRRL 02
CA	221	MERRIMAC,GRANODIORITE					NW	C	MRMC 02
WI	430	MERRIMAC,RHYOLITE					SC	A	MRMC 03
ME	347+	MERRIMACK,GP	U						MMCK 11
NH	347+	MERRIMACK,GP	U			5000	SE	A	MMCK 08
ME	350	MERRIMACK,GP	U						MMCK 12
NH	350	MERRIMACK,GP	U						MMCK 04
MA	347+	MERRIMACK,QTZ	U						MMCK 07
MA	350	MERRIMACK,QTZ	U						MMCK 03
TX	321	MERRIMAN,LS MBR (GRAFORD FM)	U		YL	1	C	K	MRMN 04
CA	112	MERRITT,SAND	U			13	WC	A	MRRT 01
NY	354	MERRITTON,LS (CLINTON GP)				1	CAN	E	MRTN 21
NY	354	MERRITTON,MBR (REYNALES LS)							MRTN 32

NV	121+	MESA,BASALT				8	NW	A	MESA	02
OR	121+	MESA,BASALT							MESA	03
NV	122	MESA,BASALT							MESA	06
OR	122	MESA,BASALT							MESA	05
ID	112	MESA FALLS,TUFF (YELLOWSTONE GP)		U		100	EC	E	MSFL	01
MT	112	MESA FALLS,TUFF (YELLOWSTONE GP)		U					MSFL	02
NM	112	[MESA PRIETA,BASALT]						C	D	MSPR
NM	112	/MESA PRIETA,FLOW								MSPR
NM	112	[MESA REDONDA,BASALT]				15	C	D	MRDD	05
NM	112	/MESA REDONDA,FLOW								MRDD
AZ	231	MESA REDONDO,MBR (CHINLE FM)		U	MS	37	EC	C	MRDD	03
NM	231	MESA REDONDO,MBR (CHINLE FM)								MRDD
NM	217	MESA RICA,SS		U		30	NE	C	MSRC	01
NM	217	MESA RICA,SS MBR (PURGATOIRE FM)								MSRC
AZ	211	MESAVERDE,FM		U						MVRD
CO	211	MESAVERDE,FM		U	SS	370	SW	A	MVRD	03
ID	211	MESAVERDE,FM		U						MVRD
MT	211	MESAVERDE,FM		U						MVRD
NM	211	MESAVERDE,FM		U						MVRD
UT	211	MESAVERDE,FM		U						MVRD
WY	211	MESAVERDE,FM		U						MVRD
AZ	211	MESAVERDE,GP		U						MVRD
CO	211	MESAVERDE,GP		U						MVRD
ID	211	MESAVERDE,GP		U						MVRD
NM	211	MESAVERDE,GP		U						MVRD
UT	211	MESAVERDE,GP		U						MVRD
WY	211	MESAVERDE,GP		U						MVRD
AZ	420	MESCAL,FM (APACHE GP)		U						MVRL
AZ	420	MESCAL,LS (APACHE GP)		U				VAR	69	EC
NM	318	MESITA BLANCA,SS MBR (YESO FM)		U						RD
AK	122+	MESHK,FM		U	AGL	1200	NC	C	A	MSCL
AK	123	MESHK,FM		U						MSCL
CO	121	MESITA,MBR (SERVILLETA FM)		U						RD
MI	430	MESNARD,QTZ (CHOCOLAY GP)		U						VOL
CA	400	MESQUITE,SCHIST		U						RD
RI	304+	METACOM,GRANITE GNEISS		U						SC
RI	307	METACOM,GRANITE GNEISS		U						SC
WA	374	METALINE,FM		U						EC
WA	374	METALINE,LS		U					910	NE
NC	410	METCALF,PHYLLITE (SNOWBIRD GP)		U						C

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN	410	METCALF,PHYLLITE (SNOWBIRD GP)	U				EC	C	MCLF 02
WA	124	METCHOSIN,VOLCS				3000	CAN	C	MCSN 06
WA	221	METEOR,GRANODIORITE					NE	A	MTOR 01
WA	207+	METHOW,GNEISS					NC	C	MTHW 01
WA	300	METHOW,GNEISS					NC	C	MTHW 02
CA	124	METRALLA,SS MBR (TEJON FM)	U			400	SC	C	MTRL 02
NY	377	METTAWEE,ARGILLITE							MTTW 06
NY	377	METTAWEE,FM							MTTW 05
NY	377	METTAWEE,MBR (BULL FM)							MTTW 01
VT	377	METTAWEE,MBR (BULL FM)				38	SW	A	MTTW 03
NY	377	METTAWEE,SLATE	U						MTTW 02
VT	377	METTAWEE,SLATE	U						MTTW 04
IL	364	METZ,MBR (JOACHIM DOL)				3	WC	D	METZ 01
MO	364	METZ,MBR (JOACHIM DOL)							METZ 02
TX	125	MEXIA,MBR (WILLS POINT FM)	U	CL		65	EC	A	MEXI 01
OH	321	MEYERSDALE,RED BEDS (CONEMAUGH FM)							MRDL 03
PA	321	MEYERSDALE,RED BEDS (CONEMAUGH FM)					SW	A	MRDL 04
WV	321	MEYERSDALE,RED BEDS (CONEMAUGH FM)							MRDL 07
FL	112	MIAMI,OOLITE	U		WH	15	SE	A	MIMI 01
IN	344	MIAMI BEND,FM		LS		5	NC	D	MHBD 01
OH	361	MIAMITOWN,SH				5	SW	D	MMTN 01
FL	122	MICCOSUKEE,FM		CST	RD	6	NC	D	MCSK 01
GA	122	MICCOSUKEE,FM							MCSK 02
ID	112	MICHAUD,GRAVEL	U			15	SE	D	MCHD 01
MI	430	MICHIGAMME,FM (BARAGA GP)	U			610	NW	A	MCGM 02
WI	430	MICHIGAMME,FM (BARAGA GP)	U						MCGM 04
MI	430	MICHIGAMME,SLATE (BARAGA GP)	U						MCGM 03
WI	430	MICHIGAMME,SLATE (BARAGA GP)	U						MCGM 05
MI	440	MICHIGAMME RIVER,GRANITE					NW	E	MGRV 02
CO	123	MICHIGAN,BASALT (CAMERON PASS GP)					NC	D	MCGN 01
MI	420	MICHIGAN,CGL [BED] (PORTAGE LAKE VOLCS)	U				NW	A	MCGN 04
MI	331	MICHIGAN,FM (GRAND RAPIDS GP)	U	SH		56	C	A	MCGN 03
GA	211	MIDDENDORF,FM							MDDF 05
NC	211	MIDDENDORF,FM							MDDF 03
SC	211	MIDDENDORF,FM	U	CL,SD	VAR	61	NE	A	MDDF 04
NC	211	MIDDENDORF,FM (LUMBEE GP)							MDDF 02
SC	211	MIDDENDORF,FM (LUMBEE GP)							MDDF 01
CA	112	MIDDLE ANCHORAGE,ALLUVIUM				9	SC	E	MACG 01
MO	400	MIDDLEBROOK,GP		RHY			SE	D	MOBK 02
KS	317	MIDDLEBURG,MBR (BADER LS)	U						MOBG 02

NE	317	MIDDLEBURG, MBR (BADER LS)	U		1	SE	A	MDBG	04	
VT	364	MIDDLEBURY, LS	U		180	WC	C	MDLB	03	
VT	364	MIDDLEBURY, LS (CHAZY GP)						MDLB	04	
ID	331	MIDDLE CANYON, FM	U	LS	300	C	D	MDLC	02	
ID	331	MIDDLE CANYON, FM (WHITE KNOB GP)						MDLC	01	
IA	323	MIDDLE CREEK, MBR (SWOPE LS)						MDCK	15	
KS	323	MIDDLE CREEK, MBR (SWOPE LS)			2	EC	A	MDCK	16	
MO	323	MIDDLE CREEK, MBR (SWOPE LS)						MDCK	17	
NE	323	MIDDLE CREEK, MBR (SWOPE LS)						MDCK	18	
MA	347	MIDDLEFIELD, GRANITE	U			WC	A	MDFD	02	
UT	124	MIDDLE FORK, TONGUE (GREEN RIVER FM)		SH	85	NC	E	MDFK	02	
NV	122	MIDDLEGATE, FM		SS	400	WC	C	MDLG	01	
OH	324	/MIDDLE KITTANNING, CLAY BED (ALLEGHENY FM)						MDKG	01	
PA	324	/MIDDLE KITTANNING, CLAY BED (ALLEGHENY FM)			2	WC	C	MDKG	04	
PA	324	/MIDDLE KITTANNING, FM (ALLEGHENY GP)				WC	C	MDXG	06	
OH	324	/MIDDLE KITTANNING, SH MBR (ALLEGHENY FM)						MDKG	02	
OH	324	/MIDDLE KITTANNING, SS MBR (ALLEGHENY FM)						MDKG	03	
OH	324	/MIDDLE MERCER, CLAY [BED] (POTTSVILLE FM)			2	C	C	MDMC	01	
OH	324	/MIDDLE MERCER, SH [MBR] (POTTSVILLE FM)			4	C	C	MDMC	02	
CO	125+	MIDDLE PARK, FM	U	SH	1700	NC	A	MDPK	01	
CO	211	MIDDLE PARK, FM	U					MDPK	02	
CA	410	MIDDLE PARK, FM (TELESCOPE GP)		SCH	91	EC	A	MDPK	16	
MI	420	[MIDDLE POINT, BASALT (PORTAGE LAKE VOLCS)]			15	NW	E	MDLP	02	
MI	420	/MIDDLE POINT, FLOW (PORTAGE LAKE VOLCS)	U					MDLP	01	
KY	327	MIDDLESBORO, MBR (LEE FM)	U	SS	150	SE	D	MDLB	01	
TN	327	MIDDLESBORO, MBR (LEE FM)						MDLB	05	
VA	327	MIDDLESBORO, MBR (LEE FM)	U					MDLB	02	
NY	341	MIDDLESEX, FM (SONYEA GP)		BK	19	WC	A	MDLX	02	
NY	341	MIDDLESEX, SH MBR (SONYEA FM)	U					MDLX	01	
UT	110	MIDDLETOWN, BASALT			30	SW	E	MDLN	01	
CT	364+	MIDDLETOWN, GNEISS (IVORYTON GP)					C	A	MDLN	10
CT	367	MIDDLETOWN, GNEISS (IVORYTON GP)						MDLN	11	
CT	370	MIDDLETOWN, GNEISS (IVORYTON GP)						MDLN	12	
CT	364+	MIDDLETOWN, GNEISS (PUTNAM GP)	U					MDLN	07	
CT	367	MIDDLETOWN, GNEISS (PUTNAM GP)	U					MDLN	08	
CT	370	MIDDLETOWN, GNEISS (PUTNAM GP)	U					MDLN	09	
CT	112	/MIDDLETOWN, TILL					C	D	MDLN	04
WV	317	/MIDDLE WASHINGTON, LS MBR (WASHINGTON FM)						MDWG	02	
NV	377	MIDNIGHT, QTZ			460	NE	D	MDNG	01	
WA	210	MIDNIGHT PEAK, FM		VSED	2400	NC	C	MGPK	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
UT 337	MIDRIDGE,LS				79	WC	C	MDDG 01
AL 125	MIDWAY,GP	U	CL		60	WC	A	MDWY 05
AR 125	MIDWAY,GP	U						MDWY 06
GA 125	MIDWAY,GP	U						MDWY 07
IL 125	MIDWAY,GP	U						MDWY 08
KY 125	MIDWAY,GP	U						MDWY 09
LA 125	MIDWAY,GP	U						MDWY 10
MO 125	MIDWAY,GP	U						MDWY 11
MS 125	MIDWAY,GP	U						MDWY 12
TN 125	MIDWAY,GP	U						MDWY 13
TX 125	MIDWAY,GP	U						MDWY 14
TX 124	MIER,SS MBR (YEGUA FM)				38	MEX	A	MIER 03
TX 124	MIER,SS TONGUE (YEGUA FM)							MIER 04
MN 364	MIFFLIN,BED (MCGREGOR MBR OF PLATTEVILLE FM)							MFLN 11
IA 364	MIFFLIN,FM (PLATTEVILLE GP)							MFLN 09
IL 364	MIFFLIN,FM (PLATTEVILLE GP)							MFLN 03
MO 364	MIFFLIN,FM (PLATTEVILLE GP)							MFLN 10
MN 364	MIFFLIN,MBR (PLATTEVILLE FM)							MFLN 05
WI 364	MIFFLIN,MBR (PLATTEVILLE LS)				5	SC	C	MFLN 06
MD 354	MIFFLINTOWN,FM							MFLN 12
PA 354	MIFFLINTOWN,FM	U			1	C	A	MFLN 08
VA 354	MIFFLINTOWN,FM							MFLN 13
WV 354	MIFFLINTOWN,FM	U						MFLN 07
PA 354	MIFFLINTOWN,LS	U						MFLN 02
CA 121	MIGUELITO,MBR (PISMO FM)	U	CLS		690	SC	E	MGLT 01
AK 340	MIKADO,PHYLLITE				180	NE	E	MKDO 01
NV 331	MIKES CREEK,MBR (SCHOONOVER FM)		SS		790	NE	D	MKCK 06
TX 212	MILAM,CHALK MBR (ANACACHO LS)				12	SC	C	MILM 01
LA 124	MILAMS,MBR (COOK MOUNTAIN FM)		CL		12	NW	A	MLMS 01
TX 124	MILAMS,MBR (COOK MOUNTAIN FM)							MLMS 02
KS 317	MILAN,LS MBR (WELLINGTON FM)				<1	SC	C	MILN 01
IN 344	MILAN CENTER,DOL MBR (DETROIT RIVER FM)				4	NE	E	MLCR 01
SD 430	MILBANK,GRANITE					NE	D	MLBK 06
CA 310+	MILDRED LAKE,HORNFELS	U			300	EC	D	MDLK 05
CA 320	MILDRED LAKE,HORNFELS	U						MDLK 06
NE 317	MILES,MBR (FALLS CITY LS)				<1	SE	A	MILS 01
PA 364	MILESBURG,MBR (COBURN FM)		MBNT		36	C	D	MLBG 06
MA 307+	MILFORD,GRANITE	U				C	A	MLFD 03
RI 307+	MILFORD,GRANITE	U						MLFD 04
MA 410	MILFORD,GRANITE	U						MLFD 05



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
NY 341	MILLRIFT,FM (GENESEE GP)							MLRF 02
VT 371	MILL RIVER,CGL	U			11	NW	A	MLRV 02
VT 371	MILL RIVER,CGL (WOODS CORNERS GP)							MLRV 03
VT 371	MILL RIVER,CGL MBR (SWEETSBURG FM)							MLRV 05
TX 124	MILLS,BED (BIGFORD FM)		SS			SC	A	MLLS 01
TX 324	MILLSAP LAKE,FM (STRAWN GP)	U	SH		910	C	A	MPLK 01
TX 324	MILLSAP LAKE,GP							MPLK 02
PA 324	MILLSTONE RUN,FM (ALLEGHENY GP)		SH		23	WC	E	MLSR 01
NV 122	MILLTOWN,ANDESITE	U			210	C	A	MLTN 01
NY 341	MILO,TONGUE (WEST RIVER SH)				27	WC	C	MILO 01
PA 364	MILROY,LS				91	C	D	MLRY 01
PA 364	MILROY,MBR (LOYSBURG FM)							MLRY 02
VT 371	MILTON,DOL	U			240	NW	A	MLTN 07
CA 220	MILTON,FM	U	SED		60	NC	A	MLTN 03
VT 371	MILTON,LS							MLTN 08
MA 370	MILTON,QTZ				150	EC	A	MLTN 06
WI 344	MILWAUKEE,FM	U	SH		42	SE	A	MLWK 01
NM 123	MIMBRES PEAK,FM				140	SW	C	MBPK 01
NM 123	MIMBRES PEAK,RHYOLITE							MBPK 02
TX 313	MINA GRANDE,FM		LS			WC	C	MGRD 01
NY 364	MINAVILLE,MBR (CANAJOHARIE SH)				230	EC	C	MNVL 05
IL 364	MINCKE,MBR (KINGS LAKE FM)							MNCK 02
MO 364	MINCKE,MBR (KINGS LAKE FM)		SH		2	EC	D	MNCK 01
CA 122+	MINDEGO,BASALT	U			610	WC	C	MNDG 01
CA 123	MINDEGO,BASALT	U						MNDG 02
CT 354	MINE BROOK,FM		SCH			C	C	MBRK 01
IA 325	MINE CREEK,SH MBR (PAWNEE LS)							MCRK 07
KS 325	MINE CREEK,SH MBR (PAWNEE LS)				5	EC	C	MCRK 08
MO 325	MINE CREEK,SH MBR (PAWNEE LS)							MCRK 09
OK 325	MINE CREEK,SH MBR (PAWNEE LS)							MCRK 10
CT 300	MINE HILL,GRANITE GNEISS	U				SW	C	MNHL 03
MO 325	MINERAL,FM (CABANISS GP)							MNRL 03
OK 325	MINERAL,FM (CABANISS GP)							MNRL 04
KS 325	MINERAL,FM (CHEROKEE GP)		LS		4	SE	C	MNRL 02
MO 325	MINERAL,FM (CHEROKEE GP)							MNRL 07
GA 370	MINERAL BLUFF,FM		SCH		240	NW	C	MLBF 01
NC 370	MINERAL BLUFF,FM							MLBF 02
NM 122	MINERAL CREEK,ANDESITE	U			210	WC	A	MLCK 02
UT 410	MINERAL FORK,TILLITE	U			300	NC	C	MLFK 01
PA 324	MINERAL SPRINGS,FM (ALLEGHENY GP)		SH		19	WC	E	MSPG 06

TX	324	MINERAL WELLS,FM (STRAWN GP)	U	SS	240	C	A	MLWL	01
MT	211	MINER CREEK,FM (LIVINGSTON GP)	U	STS	410	SC	D	MRCK	09
MI	371	MINERS CASTLE,SS MBR (MUNISING FM)			43	NC	C	MRCL	12
WY	400	MINERS DELIGHT,FM	U	SCH	1500	C	D	MDLG	03
KS	322	MINERSVILLE,MBR (FRIEDRICH SH)						MRVL	19
NE	322	MINERSVILLE,MBR (FRIEDRICH SH)			9	SE	C	MRVL	20
NE	322	MINERSVILLE,MBR (STOTLER LS)						MRVL	35
UT	123	MINERSVILLE,TUFF MBR (NEEDLES RANGE FM)	U		91	SW	C	MRVL	06
PA	371	MINES,DOL MBR (GATESBURG FM)			76	C	A	MINS	07
MI	420	MINESOTA,CGL BED (PORTAGE LAKE VOLCS)	U			NW	A	MNST	07
AZ	122+	MINETA,FM		CGL	910	SE	C	MINT	01
AZ	123	MINETA,FM						MINT	02
OH	112	MINFORD,SILT	U		24	SC	A	MFRD	01
KY	324	MINGO,FM (BREATHITT GP)	U					MNGO	01
TN	324	MINGO,FM (BREATHITT GP)	U	SH	290	NE	A	MNGO	02
KY	324	MINGO,MBR (BREATHITT FM)						MNGO	10
TN	324	MINGO,MBR (BREATHITT FM)	U					MNGO	09
TX	324	MINGUS,FM (STRAWN GP)			91	C	A	MNGS	07
TX	324	MINGUS,SH MBR (GARNER FM)	U					MNGS	02
AZ	122	MINGUS MOUNTAIN,TUFF				NC	C	MGSM	01
ID	112	MINIDOKA,BASALT	U		9	SC	A	MNDK	01
NJ	347	MINISINK,LS (HELDERBERG GP)	U					MNSK	03
NY	347	MINISINK,LS (HELDERBERG GP)	U					MNSK	04
PA	347	MINISINK,LS (HELDERBERG GP)	U		4	NE	D	MNSK	05
ID	121	MINK CREEK,CGL (SALT LAKE GP)			1000	SE	C	MKCK	03
UT	121	MINK CREEK,CGL (SALT LAKE GP)						MKCK	04
MT	317	MINNEKAHTA,LS	U					MNKT	06
ND	317	MINNEKAHTA,LS	U					MNKT	07
NE	317	MINNEKAHTA,LS	U					MNKT	08
SD	317	MINNEKAHTA,LS	U		15	WC	A	MNKT	09
WY	317	MINNEKAHTA,LS	U					MNKT	10
CO	317	MINNEKAHTA,LS MBR (GOOSE EGG FM)	U					MNKT	05
WY	317	MINNEKAHTA,LS MBR (GOOSE EGG FM)	U					MNKT	11
NE	317	MINNEKAHTA,MBR (SALT FORK FM)						MNKT	12
MT	317+	MINNELUSA,FM	U					MNLS	01
ND	317+	MINNELUSA,FM	U					MNLS	03
SD	317+	MINNELUSA,FM	U					MNLS	05
WY	317+	MINNELUSA,FM	U		78	NE	A	MNLS	07
MT	320	MINNELUSA,FM	U					MNLS	09
ND	320	MINNELUSA,FM	U					MNLS	11



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
SD	320	MINNELUSA,FM	U						MNLS 13
WY	320	MINNELUSA,FM	U						MNLS 15
MT	317+	MINNELUSA,SS	U						MNLS 02
NE	317+	MINNELUSA,SS	U						MNLS 04
SD	317+	MINNELUSA,SS	U						MNLS 06
WY	317+	MINNELUSA,SS	U						MNLS 08
MT	320	MINNELUSA,SS	U						MNLS 10
NE	320	MINNELUSA,SS	U						MNLS 12
SD	320	MINNELUSA,SS	U						MNLS 14
WY	320	MINNELUSA,SS	U						MNLS 16
MN	440	[MINNESOTA VALLEY,GP]					SW	C	MSVL 05
MN	440	/MINNESOTA VALLEY,GRANITE SER							MSVL 04
SD	217	MINNEWASTE,LS MBR (LAKOTA FM)	U			9	SW	A	MNST 05
UT	211	MINNIE GAP,SS TONGUE (ROCK SPRINGS FM)				150	NE	D	MNGP 01
WY	211	MINNIE GAP,SS TONGUE (ROCK SPRINGS FM)							MNGP 02
MI	420	[MINONG,BASALT (PORTAGE LAKE VOLCS)]					NW	A	MNNG 57
MI	420	/MINONG,FLOW (PORTAGE LAKE VOLCS)	U						MNNG 36
ND	112	MINOT,DRIFT					NC	D	MNOT 01
IN	324	MINSHALL,COAL MBR (BRAZIL FM)				2	WC	E	MNSL 01
NJ	357+	MINSI,MBR (SHAWANGUNK FM)	U	SS		92	NW	E	MINS 03
PA	357+	MINSI,MBR (SHAWANGUNK FM)	U						MINS 04
NJ	361	MINSI,MBR (SHAWANGUNK FM)	U						MINS 05
PA	361	MINSI,MBR (SHAWANGUNK FM)	U						MINS 06
CA	122	MINT CANYON,FM	U	SS		1200	SC	A	MNCN 02
OR	112+	MINTO,BASALT				1200	NW	C	MNT0 01
OR	121	MINTO,BASALT							MNT0 03
OR	112+	MINTO,LAVA							MNT0 02
OR	121	MINTO,LAVA							MNT0 04
AK	112	MINT RIVER,DRIFT					NC	D	MRVR 01
AL	123	MINT SPRING,FM (VICKSBURG GP)							MSPG 22
MS	123	MINT SPRING,FM (VICKSBURG GP)				8	WC	A	MSPG 23
MS	123	MINT SPRING,MARL (VICKSBURG GP)							MSPG 24
AL	123	MINT SPRING,MARL MBR (MARIANNA LS)	U						MSPG 02
MS	123	MINT SPRING,MARL MBR (MARIANNA LS)	U						MSPG 03
CO	324	MINTURN,FM	U	CST		1800	C	C	MNRN 01
NV	122	MIRA,BASALT	U			30	C	A	MIRA 01
CA	122	MIRALESTE,TUFF BED (ALTAMIRA MBR OF MONTEREY SH)	U			2	SC	A	MRLS 02
CA	124	MIRAMAR,SS MBR (POMERADO CGL)				20	SE	E	MRMR 07
TX	124	MIRANDO,SAND MBR (JACKSON FM)					SC	A	MRND 03
ID	224	MIRROR LAKE,BRECCIA		MIG			WC	E	MRLK 02

WI	440	MISCAWNO,FM		GYK			NE	E	MSCN	01
IL	344	MISENHEIMER,SH MBR (LINGLE FM)				8	SC	A	MSMR	02
TX	110	MISER,GRAVEL		U		6	WC	D	MISR	01
ME	347	MISERY,QTZ MBR (TARRATINE FM)				150	WC	D	MSRY	01
ME	347	MISERY,QTZ MBR (TOMHEGAN FM)								02
WA	310	MISSION,ARGILLITE				3700	NE	A	MSSN	03
OK	322	MISSION,SS MBR (TALLANT FM)		U		1	NE	A	MSSN	01
ID	331+	MISSION CANYON,LS (MADISON GP)		U					MSNC	01
MT	331+	MISSION CANYON,LS (MADISON GP)		U		91	NC	A	MSNC	02
ND	331+	MISSION CANYON,LS (MADISON GP)		U					MSNC	03
SD	331+	MISSION CANYON,LS (MADISON GP)		U					MSNC	04
WY	331+	MISSION CANYON,LS (MADISON GP)		U					MSNC	05
ID	337	MISSION CANYON,LS (MADISON GP)		U					MSNC	06
MT	337	MISSION CANYON,LS (MADISON GP)		U					MSNC	07
ND	337	MISSION CANYON,LS (MADISON GP)		U					MSNC	08
SD	337	MISSION CANYON,LS (MADISON GP)		U					MSNC	09
WY	337	MISSION CANYON,LS (MADISON GP)		U					MSNC	10
NV	120	MISSION SPRING,FM			VOL	450	C	E	MSPG	01
CA	124	MISSION VALLEY,FM (POWAY GP)		U	SS	58	SE	E	MSVL	01
VT	364	MISSISQUOI,FM					NW	A	MSSQ	01
VT	364	MISSISQUOI,SCHIST							MSSQ	02
IN	354	MISSISSINEWA,SH		U		35	NE	A	MSSN	02
IN	354	MISSISSINEWA,SH MBR (WABASH FM)							MSSN	05
KS	112	MISSLER,MBR (BALLARD FM)		U	ST	5	SW	C	MSLR	01
KS	112	MISSLER,MBR (MEADE FM)							MSLR	02
ID	420	MISSOULA,GP (BELT SUPERGROUP)		U					MSSL	01
MT	420	MISSOULA,GP (BELT SUPERGROUP)		U	MSED	5500	WC	A	MSSL	02
WA	420	MISSOULA,GP (BELT SUPERGROUP)		U					MSSL	03
AR	351	MISSOURI MOUNTAIN,SH		U		91	WC	A	MSRM	01
OK	351	MISSOURI MOUNTAIN,SH		U					MSRM	03
TX	351	MISSOURI MOUNTAIN,SH							MSRM	05
OK	351	MISSOURI MOUNTAIN,SLATE		U					MSRM	04
OR	122	MITCHELL BUTTE,MBR (DEER BUTTE FM)			VOL	150	EC	D	MCLB	02
NV	327	MITCHELL CREEK,FM		U	VSED	1000	NC	E	MCKC	13
AL	304	MITCHELL DAM,AMPHIBOLITE					C	E	MCDM	05
TX	123	MITCHELL MESA,RHYOLITE (BUCK HILL GP)				46	WC	C	MCLM	01
TX	123	MITCHELL MESA,RHYOLITE (GREEN VALLEY VOLCS)							MCLM	02
TX	123	MITCHELL MESA,TUFF (BOFECILLOS GP)							MCLM	05
TX	123	MITCHELL MESA,WELDED TUFF (BUCK HILL GP)							MCLM	03
NE	122	MITCHELL PASS,MBR (GERING FM)			SS	19	WC	E	MCLP	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
MT 211	/MITTEN, BLACK SH MBR (PIERRE SH)	U					MTTN 01
SD 211	/MITTEN, BLACK SH MBR (PIERRE SH)						MTTN 07
WY 211	/MITTEN, BLACK SH MBR (PIERRE SH)	U		BK	61	NE A	MTTN 02
MT 211	[MITTEN, MBR (PIERRE SH)]						MTTN 09
SD 211	[MITTEN, MBR (PIERRE SH)]						MTTN 08
WY 211	[MITTEN, MBR (PIERRE SH)]						MTTN 10
NV 122	MIZPAH, TRACHYTE	U			610	C A	MZPH 01
CO 224	MOAB, MBR (ENTRADA SS)	U					MOAB 01
UT 224	MOAB, MBR (ENTRADA SS)	U		WH	46	EC A	MOAB 03
CO 224	MOAB, TONGUE (ENTRADA SS)	U					MOAB 02
UT 224	MOAB, TONGUE (ENTRADA SS)	U					MOAB 04
NV 341	MOAPA, FM		DOL		91	SE D	MOAP 01
NH 227	MOAT, VOLCS	U			3200	EC A	MOAT 02
NE 211	MOBRIDGE, MBR (PIERRE SH)	U					MBDG 01
SD 211	MOBRIDGE, MBR (PIERRE SH)	U			70	NC C	MBDG 02
VA 364	MOCCASIN, FM				140	SW A	MCSN 13
TN 364	MOCCASIN, FM (CHICKAMAUGA GP)	U					MCSN 11
GA 364	MOCCASIN, LS	U					MCSN 09
VA 364	MOCCASIN, LS	U					MCSN 14
WV 364	MOCCASIN, LS	U					MCSN 15
TN 364	MOCCASIN, LS (CHICKAMAUGA GP)	U					MCSN 12
WV 364	MOCCASIN, LS (TRENTON GP)						MCSN 18
KS 331	MOCCASIN BEND, MBR (BOONE FM)						MCBD 04
OK 331	MOCCASIN BEND, MBR (BOONE FM)	U	LS		43	NE E	MCBD 03
MO 333	MOCCASIN BEND, MBR (BOONE FM)						MCBD 02
OK 311	MOCCASIN CREEK, BED (CLOUD CHIEF FM)		SS		1	NC D	MCCK 02
TN 377	MOCCASIN GAP, MBR (UNICOI FM)		QTZ		15	EC C	MCGP 01
IL 354	MOCCASIN SPRINGS, FM						MSPG 11
MO 354	MOCCASIN SPRINGS, FM (BAINBRIDGE GP)		LS		40	SE C	MSPG 12
CA 122	MODELO, FM	U	SS		1800	SC A	MODL 01
CA 112	MODESTO, FM		ST			WC C	MDST 01
IL 323+	MODESTO, FM (MCLEANSBORO GP)		SH		91	C C	MDST 02
IL 325	MODESTO, FM (MCLEANSBORO GP)						MDST 03
CA 231	MODIN, FM	U	SS		910	NW A	MODN 01
CA 111+	/MODOC, BASALT					NC A	MODC 01
CA 112	/MODOC, BASALT						MODC 02
AZ 337	MODOC, LS	U			52	SE A	MODC 07
MT 120+	MODOC, PORPHYRY					WC D	MODC 03
MT 211	MODOC, PORPHYRY						MODC 06
AZ 231	MOENAVE, FM (GLEN CANYON GP)	U	SS		120	NE C	MONV 01

UT	231	MOENAVE,FM (GLEN CANYON GP)	U									MONV	02	
AZ	234+	MOENKOPI,FM	U	SH		210	NC	A				MNKP	01	
CA	234+	MOENKOPI,FM	U									MNKP	03	
CO	234+	MOENKOPI,FM	U									MNKP	04	
NM	234+	MOENKOPI,FM	U									MNKP	05	
NV	234+	MOENKOPI,FM	U									MNKP	06	
UT	234+	MOENKOPI,FM	U									MNKP	07	
AZ	237	MOENKOPI,FM	U									MNKP	09	
CA	237	MOENKOPI,FM	U									MNKP	11	
CO	237	MOENKOPI,FM	U									MNKP	12	
NM	237	MOENKOPI,FM	U									MNKP	13	
NV	237	MOENKOPI,FM	U									MNKP	14	
UT	237	MOENKOPI,FM	U									MNKP	15	
AZ	234+	MOENKOPI,GP	U									MNKP	02	
AZ	237	MOENKOPI,GP	U									MNKP	10	
TX	218	MOFFAT,LENTIL (EDWARDS FM)	U	DOL							EC	D	MFFT	02
WY	331	MOFFAT TRAIL,LS MBR (AMSDEN FM)	U			20	WC	E				E	MFTL	01
AL	307	MOFFITS MILL,COMPLEX	U	MSED		910	EC	E				E	MFML	01
OH	112	MOGADORE,TILL	U			7	NE	C					MGDR	01
PA	112	MOGADORE,TILL	U										MGDR	02
NM	122	MOGOLLON,ANDESITE	U			180	WC	A					MGLN	01
CA	112+	MOHAWK,LAKE BEDS	U			300	NC	A					MHWK	01
CA	121	MOHAWK,LAKE BEDS	U										MHWK	02
NM	217	MOJADO,FM	U	SS		>1500	SW	C					MOJD	03
AZ	217	MOJADO,FM (BISBEE GP)	U										MOJD	01
NM	217	MOJADO,FM (BISBEE GP)	U										MOJD	02
HI	112	MOKAPU,BASALT (HONOLULU GP)	U					NC	A				MKPU	01
CA	310	MOKELUMNE,FM	U	SS				C	C				MKLM	01
CA	200+	MOKELUMNE HILL,QUARTZ DIORITE	U					C	C				MKMH	01
CA	300	MOKELUMNE HILL,QUARTZ DIORITE	U										MKMH	02
HI	112	MOKOLEA,BASALT (HONOLULU GP)	U					NC	A				MOKL	01
OR	111	[MOKST BUTTE,BASALT]	U					C	D				MKSB	02
OR	111	/MOKST BUTTE,FLOW	U										MKSB	01
HI	112	MOKU MANU,VOLCS (HONOLULU GP)	U			61	NC	A					MKMN	02
HI	121	MOKUONE,MBR (MAKAWELI FM)	U	VOL		320	NW	C					MKUN	01
OR	121	MOLALLA,FM	U	SS				NW	C				MLLL	01
AZ	324+	MOLAS,FM	U										MOLS	05
CO	324+	MOLAS,FM	U	SH	RD	23	SW	A					MOLS	06
NM	324+	MOLAS,FM	U										MOLS	07
UT	324+	MOLAS,FM	U										MOLS	08

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AZ 327	MOLAS,FM	U						MOLS 01
CO 327	MOLAS,FM	U						MOLS 02
NM 327	MOLAS,FM	U						MOLS 03
UT 327	MOLAS,FM	U						MOLS 04
NV 324+	MOLEEN,FM	U			390	NE	C	MOLN 06
NV 327	MOLEEN,FM	U						MOLN 07
NV 324+	MOLEEN,FM (ELY GP)							MOLN 03
NV 327	MOLEEN,FM (ELY GP)							MOLN 02
NV 324+	MOLEEN,MBR (ELY LS)							MOLN 04
NV 327	MOLEEN,MBR (ELY LS)							MOLN 05
CO 124	MOLINA,MBR (WASATCH FM)	U	SS		150	NW	E	MOLN 01
AZ 217	MOLLY GIBSON,FM		LS		300	SE	C	MLGB 01
IL 371	MOMENCE,SS MBR (EMINENCE DOL)				3	NE	D	MMNC 01
MI 440	MONA,SCHIST	U				NW	A	MONA 04
TX 110	MONAHANS,FM		SD		2	WC	C	MNNS 01
NV 121	MONARCH MILL,FM		CL		780	WC	C	MCML 01
VT 377	MONASTERY,FM		SCH		520	WC	C	MNSR 08
WY 124	MONCRIEF,GRAVEL				430	NC	C	MCRF 01
WY 124	MONCRIEF,MBR (WASATCH FM)	U						MCRF 02
VA 400	MONETA,GNEISS (VIRGINIA BLUE RIDGE COMPLEX)					SC	A	MONT 02
WV 324	MONITOR,SS [MBR] (KANAWHA FM)				12	SW	A	MNTR 09
AZ 231	MONITOR BUTTE,MBR (CHINLE FM)	U						MNRB 01
CO 231	MONITOR BUTTE,MBR (CHINLE FM)	U						MNRB 02
UT 231	MONITOR BUTTE,MBR (CHINLE FM)	U	STS		76	SE	C	MNRB 03
MT 331	MONITOR MOUNTAIN,MBR (MADISON LS)				86	WC	A	MNRM 01
ID 410	MONK,FM (WINDERMERE GP)	U						MONK 02
WA 410	MONK,FM (WINDERMERE GP)	U	MSED		1700	CAN	A	MONK 03
VT 377	MONKTON,FM (STOCKBRIDGE GP)			RD	240	WC	A	MNKN 01
VT 377	MONKTON,QTZ	U						MNKN 02
DC 211	MONMOUTH,FM	U						MNMT 01
DE 211	MONMOUTH,FM	U						MNMT 02
NJ 211	MONMOUTH,FM		SD		46	EC	A	MNMT 07
NY 211	MONMOUTH,FM	U						MNMT 05
DE 211	MONMOUTH,GP							MNMT 08
NJ 211	MONMOUTH,GP	U						MNMT 04
CA 211	MONO,SH				210	SC	A	MONO 01
CA 112	MONO BASIN,DRIFT						C	D MNBS 02
CA 112	MONO BASIN,TILL							MNBS 01
NV 367	MONOCLINE VALLEY,FM		DOL		220	SE	D	MCLV 02
CA 112	MONO CRATERS,OBSIDIAN						C	C MCRR 01

CA	374	MONOLA,FM	U	STS		370	C	D	MONL	01
KY	321	MONONGAHELA,FM	U						MNGL	02
MD	321	MONONGAHELA,FM	U						MNGL	03
OH	321	MONONGAHELA,FM	U						MNGL	04
PA	321	MONONGAHELA,FM	U	SH		93	SW	A	MNGL	06
WV	321	MONONGAHELA,FM	U						MNGL	08
MD	321	[MONONGAHELA,GP]							MNGL	17
OH	321	[MONONGAHELA,GP]							MNGL	05
PA	321	MONONGAHELA,GP	U						MNGL	07
WV	321	MONONGAHELA,GP	U						MNGL	16
NV	123	MONOTONY,TUFF	U			700	SC	E	MNTN	05
ID	331	MONROE CANYON,LS (CHESTERFIELD RANGE GP)	U			280	SE	D	MNRC	01
UT	331	MONROE CANYON,LS (CHESTERFIELD RANGE GP)	U						MNRC	02
NE	122	MONROE CREEK,FM (ARIKAREE GP)				91	NW	A	MRCK	01
SD	122	MONROE CREEK,FM (ARIKAREE GP)							MRCK	03
SD	122	MONROE CREEK,MBR (ARIKAREE FM)							MRCK	04
NE	122	MONROE CREEK,SS (ARIKAREE GP)	U						MRCK	02
UT	123	MONROVIAN PARK,LATITE MBR (BULLION CANYON VOLCS)	U			150	SC	D	MVPK	02
MA	364+	MONSON,GNEISS	U				WC	A	MNSN	19
NH	364+	MONSON,GNEISS							MNSN	20
MA	367	MONSON,GNEISS	U						MNSN	22
NH	367	MONSON,GNEISS							MNSN	23
NH	370	MONSON,GNEISS							MNSN	26
CT	360	MONSON,GNEISS (IVORYTON GP)							MNSN	27
CT	360	MONSON,GNEISS (PUTNAM GP)	U						MNSN	18
PA	410	MONTALTO,QTZ MBR (HARPERS FM)				260	SC	A	MNTL	07
PA	410	MONTALTO,QTZ MBR (HARPERS SCHIST)	U						MNTL	05
MT	211	MONTANA,GP	U	SH,SS		600	NE	A	MNTN	07
SD	430	MONTANA MINE,FM (FLAG ROCK GP)	U	CH			WC	E	MNNM	01
AZ	211	MONTANA PEAK,FM		VOL	RD	240	SE	C	MNPK	01
CA	211	MONTARA,QUARTZ DIORITE					WC	A	MNTR	08
MA	112	MONTAUK,TILL MBR (MANHASSET FM)	U						MNTK	01
NY	112	MONTAUK,TILL MBR (MANHASSET FM)	U			18	SE	A	MNTK	02
RI	112	MONTAUK,TILL MBR (MANHASSET FM)	U						MNTK	03
AL	331	MONTEAGLE,LS	U						MNGL	09
KY	332+	MONTEAGLE,LS	U						MNGL	10
TN	332+	MONTEAGLE,LS	U	LS		61	SC	D	MNGL	11
KY	333	MONTEAGLE,LS	U						MNGL	13
TN	333	MONTEAGLE,LS	U						MNGL	14
PA	344	MONTEBELLO,SS MBR (MAHANTANGO FM)				240	SC	A	MNBL	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AK 304+	MONTE CRISTO,DIORITE	U				EC	A	MCRS 03
AK 307	MONTE CRISTO,DIORITE	U						MCRS 04
NV 331+	MONTE CRISTO,DOL	U			380	SE	A	MCRS 07
NV 337	MONTE CRISTO,DOL	U						MCRS 11
NV 331+	MONTE CRISTO,GP							MCRS 08
NV 337	MONTE CRISTO,GP							MCRS 12
CA 331+	MONTE CRISTO,LS	U						MCRS 06
NV 331+	MONTE CRISTO,LS	U						MCRS 09
CA 337	MONTE CRISTO,LS	U						MCRS 10
NV 337	MONTE CRISTO,LS	U						MCRS 13
CA 221	MONTE DE ORO,FM	U	SL			NW	A	MNOR 01
NM 400	MONTE LARGO,GRANITE					C	C	MLRG 02
CA 377	MONTENEGRO,MBR (CAMPITO FM)	U	SH		300	C	D	MNGR 01
NV 377	MONTENEGRO,MBR (CAMPITO FM)	U						MNGR 02
NV 374	MONTE NEVA,FM		LS		180	EC	C	MNNV 03
CA 122	MONTEREY,FM	U			1400	WC	A	MNTR 01
CA 122	MONTEREY,GP	U						MNTR 02
CA 122	MONTEREY,SH	U						MNTR 03
WA 122	MONTESANO,FM		SS		1600	WC	A	MNSN 03
AL 331	MONTE SANO,LS					NC	A	MNSN 07
TN 332+	MONTE SANO,LS							MNSN 11
TN 335	MONTE SANO,LS							MNSN 17
MN 440	MONTEVIDEO,GRANITE GNEISS (MINNESOTA VALLEY GP)					SW	C	MNVD 01
CA 112	MONTEZUMA,FM	U	GVL			WC	C	MNZM 01
NC 410	MONTEZUMA,MBR (GRANDFATHER MOUNTAIN FM)	U				NW	A	MNZM 03
CO 125	MONTEZUMA,QUARTZ MONZONITE	U				C	A	MNZM 02
LA 112	MONTGOMERY,FM	U	CL		35	WC	C	MGMR 01
TX 112	MONTGOMERY,FM	U						MGMR 02
CA 357	MONTGOMERY,LS	U			18	NC	A	MGMR 04
CA 124	MONTGOMERY CREEK,FM	U	SS		180	NW	A	MGCK 04
ID 112	MONTINI,FM		SD		91	SW	D	MNTN 01
NY 341	MONTOUR,MBR (MIDDLESEX FM)					C	D	MNTR 10
NY 341	MONTOUR,SH (SONYEA GP)							MNTR 13
NM 361+	MONTOYA,DOL	U						MNTY 02
TX 361+	MONTOYA,DOL	U			76	WC	A	MNTY 04
NM 364	MONTOYA,DOL	U						MNTY 06
TX 364	MONTOYA,DOL	U						MNTY 08
AZ 361+	MONTOYA,GP	U						MNTY 01
NM 361+	MONTOYA,GP	U						MNTY 03
TX 361+	MONTOYA,GP	U						MNTY 09





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 331	MOOREFIELD,FM	U						MFLD 09
OK 331	MOOREFIELD,FM (MAYES GP)							MFLD 14
NY 344	MOOREHOUSE,MBR (ONONDAGA LS)	U			8	C C		MRHS 02
IN 332	MOORETOWN,FM	U			18	SC A		MRTN 31
KY 332	MOORETOWN,FM	U						MRTN 28
KY 332	MOORETOWN,SS							MRTN 16
IN 332	MOORETOWN,SS MBR (RENAULT FM)							MRTN 15
AL 212	MOOREVILLE,CHALK (SELMA GP)	U						MRVL 11
MS 212	MOOREVILLE,CHALK (SELMA GP)				66	NE A		MRVL 13
AR 218	MOORINGSPOINT,FM (TRINITY GP)	U						MRGP 01
LA 218	MOORINGSPOINT,FM (TRINITY GP)	U	SH		240	NW C		MRGP 02
MS 218	MOORINGSPOINT,FM (TRINITY GP)							MRGP 04
TX 218	MOORINGSPOINT,FM (TRINITY GP)	U						MRGP 05
LA 218	MOORINGSPOINT,MBR (RUSK FM)							MRGP 03
TX 218	MOORINGSPOINT,MBR (RUSK FM)							MRGP 06
NV 317	MOORMAN RANCH,FM		LS		850	EC C		MMRC 05
UT 317	MOORMAN RANCH,FM							MMRC 07
NV 317	MOORMAN RANCH,MBR (PEQUOP FM)							MMRC 06
UT 317	MOORMAN RANCH,MBR (PEQUOP FM)							MMRC 08
VT 377	MOOSALAMOO,MBR (MENDON FM)	U		BK	270	WC A		MSLM 02
VT 377	MOOSALAMOO,PHYLLITE	U						MSLM 03
AK 330	MOOSE CREEK,MBR (TOTATLANIKA SCHIST)	U			1600	EC E		MCRK 11
IL 371	MOOSEHEART,MBR (IRONTON SS)				9	NE D		MSRT 01
ME 347	MOOSE RIVER,GP	U	SS		910	WC A		MRVR 02
NM 400	MOPPIN,FM		MVOL		910	NC C		MPPN 01
AZ 237	MOQUI,MBR (MOENKOPI FM)	U	STS		44	NE C		MOQU 01
CA 122	MORAGA,FM (CONTRA COSTA GP)	U			370	WC A		MORG 01
CA 122	MORAGA,TUFF (CONTRA COSTA GP)	U						MORG 02
CA 121	MORALES,FM	U	CLS		840	SC A		MRLS 01
TX 319	MORAN,FM (WICHITA GP)	U	SH		67	C A		MORN 10
TX 319	MORAN,GP							MORN 11
CO 211	MORAPOS,SS MBR (MANCOS SH)	U			9	NW A		MRPS 02
NY 344	MORAVIA,BED (TULLY LS)				2	C E		MORV 01
PA 400	MORAVIAN HEIGHTS,FM					EC C		MVHG 01
SD 112	MOREAU,GRAVEL					NC C		MORU 01
IL 364	MOREDOCK,MBR (DUNLEITH FM)		LS		21	SW D		MDCK 19
MO 364	MOREDOCK,MBR (DUNLEITH FM)							MDCK 21
LA 311	MOREHOUSE,FM	U	SH		360	NC C		MRHS 01
UT 370	MOREHOUSE,QTZ	U			610	SW A		MRHS 05
NY 341	MORELAND,MBR (RHINESTREET FM)				6	C D		MRLD 09



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
UT 101+	MORONI,FM		SED		460	C	C	MORN 01
UT 104	MORONI,FM							MORN 02
NY 364	MORPHY,MBR (CANAJOHARIE SH)					EC	A	MRPY 01
KS 317	MORRILL,MBR (BEATTIE LS)	U			1	NE	A	MRRL 04
NE 317	MORRILL,MBR (BEATTIE LS)							MRRL 06
AZ 221	MORRISON,FM	U						MRSN 02
CO 221	MORRISON,FM	U	MRL		82	C	A	MRSN 03
KS 221	MORRISON,FM							MRSN 04
MT 221	MORRISON,FM	U						MRSN 05
ND 221	MORRISON,FM							MRSN 13
NM 221	MORRISON,FM	U						MRSN 06
OK 221	MORRISON,FM	U						MRSN 07
SD 221	MORRISON,FM	U						MRSN 08
UT 221	MORRISON,FM	U						MRSN 09
WY 221	MORRISON,FM	U						MRSN 10
OK 325	MORRIS RANCH,SS MBR (DEESE FM)					SE	D	MRRC 02
VT 364	MORSES LINE,FM				760	NW	C	MRSL 14
VT 364	MORSES LINE,SLATE							MRSL 08
IA 364	MORTIMER,MBR (DUNLEITH FM)							MRMR 06
IL 364	MORTIMER,MBR (DUNLEITH FM)		DOL		3	NE	C	MRMR 05
ND 112	/MORTON,DRIFT							MRTN 03
MN 440	MORTON,GNEISS	U				SC	C	MRTN 33
MN 440	MORTON,GNEISS (MINNESOTA VALLEY GP)							MRTN 26
IL 112	/MORTON,LOESS					C	C	MRTN 01
WI 112	/MORTON,LOESS							MRTN 04
IA 322	/MORTON,LS							MRTN 12
MT 217	/MORTON,MBR (FALL RIVER FM)							MRTN 09
SD 217	/MORTON,MBR (FALL RIVER FM)							MRTN 10
WY 217	/MORTON,MBR (FALL RIVER FM)		SS		9	NE	D	MRTN 11
NE 322	/MORTON,MBR (STOTLER LS)				<1	SE	C	MRTN 14
IN 112	/MORTON,TONGUE (PEORIA MBR OF ATHERTON FM)							MRTN 29
AK 101+	MORZHVOI,VOLCS	U			910	SC	D	MRZV 01
AK 112	MORZHVOI,VOLCS	U						MRZV 02
IL 357	MOSALEM,FM							MSLM 04
IA 357	MOSALEM,MBR (EDGEWOOD DOL)	U			29	NE	C	MSLM 01
MT 211	MOSBY,SS MBR (COLORADO SH)	U			5	EC	A	MSBY 01
MT 211	MOSBY,SS MBR (WARM CREEK SH)	U						MSBY 02
NY 344	MOSCOW,FM (HAMILTON GP)				15	WC	A	MSCW 03
NY 344	MOSCOW,SH (HAMILTON GP)	U						MSCW 01
PA 344	MOSCOW,SH (HAMILTON GP)	U						MSCW 02



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT	122	MOUNTAIN COVE,FM		LS			SW	C	MNCV 01
CA	410	MOUNTAIN GIRL,QTZ (TELESCOPE GP)				30	EC	A	MGR L 02
OK	364	MOUNTAIN LAKE,FM		SH		59	SC	C	MNLK 03
OK	364	MOUNTAIN LAKE,MBR (BROMIDE FM)							MNLK 01
CA	200	MOUNTAIN MEADOWS,DACITE PORPHYRY	U				SC	C	MMDS 01
CA	220	MOUNTAIN PASS,RHYOLITE				360	SE	E	MNPS 02
CA	221	MOUNTAIN SPRINGS,VOLCS	U			170	C	C	MSPG 04
CA	347+	MOUNTAIN SPRINGS,FM							MSPG 07
NV	347+	MOUNTAIN SPRINGS,FM		DOL		120	SE	E	MSPG 08
CA	350	MOUNTAIN SPRINGS,FM							MSPG 09
NV	350	MOUNTAIN SPRINGS,FM							MSPG 10
CA	361	MOUNTAIN SPRINGS,FM							MSPG 15
NV	361	MOUNTAIN SPRINGS,FM							MSPG 16
WA	112	MOUNTAIN VIEW,FM		GVL		14	NW	D	MNNV 01
NJ	347	MOUNTAINVILLE,MBR (ESOPUS FM)							MNVL 02
NY	347	MOUNTAINVILLE,MBR (ESOPUS FM)		STS		64	SE	E	MNVL 04
NC	301	MOUNT AIRY,GRANITE					NC	C	MNAR 05
CO	123	MOUNT ANTERO,GRANITE					C	C	MNAR 01
VT	361+	MOUNT ANTHONY,FM		ARG		380	SW	C	MNAN 07
VT	364	MOUNT ANTHONY,FM							MNAN 08
VT	200	MOUNT ASCUTNEY,GRANITE					SC	A	MASC 01
VA	307	MOUNT ATHOS,FM (EVINGTON GP)	U	QTZ		61	SC	A	MNAS 01
VA	400	MOUNT ATHOS,GREENSTONE					SC	A	MNAS 02
OH	361	MOUNT AUBURN,SH MBR (MCMILLAN FM)	U			6	SW	A	MABR 03
WA	110	MOUNT BAKER,LAVA	U				NC	A	MBKR 01
WA	110	MOUNT BAKER,VOLCS							MBKR 02
CA	320	MOUNT BALDWIN,MARBLE	U			150	C	D	MBLD 01
UT	122	MOUNT BELKNAP,RHYOLITE	U			610	C	C	MBKP 01
CA	122	MOUNT BIEDEMAN,FM		VOL			C	D	MBDM 01
PA	337	MOUNT CARBON,MBR (POCONO FM)	U	CGL		170	EC	D	MCRB 05
SC	340	MOUNT CARMEL,COMPLEX		GAB			WC	E	MCML 06
IL	323	MOUNT CARMEL,SS MBR (BOND FM)					SE	A	MCML 05
WA	124	MOUNT CATHERINE,RHYOLITE					C	C	MNCR 01
WA	124	MOUNT CATHERINE,TUFF							MNCR 02
CO	111	MOUNT CHAMPION,FM		SED			C	C	MCMP 01
CA	210	MOUNT CLARK,GRANITE	U				C	A	MCLK 01
MT	440	MOUNT COWEN,GNEISS (NORTH SNOWY GP)					SC	E	MNCN 03
AZ	122	MOUNT DAVIS,VOLCS	U			1200	NW	D	MDVS 01
NV	122	MOUNT DAVIS,VOLCS	U						MDVS 02
MT	440	MOUNT DELANO,GNEISS (NORTH SNOWY GP)					SC	E	MNDL 02

UT	122+	MOUNT DUTTON,FM		U	VOL		950	SW	E	MNDN	04		
UT	123	MOUNT DUTTON,FM		U						MNDN	05		
IN	338	MOUNT EBEL,SS MBR (EDWARDSVILLE FM)					<1	SC	A	MEBL	01		
CA	121	MOUNT EDEN,FM			SH		1000	SE	A	MNED	01		
CA	317	MOUNT EDGAR,LS					650	SE	C	MEDG	01		
AK	112	MOUNT EDGECUMBE,ASH BED (FOREST CREEK FM)					<1	SE	E	MEGB	01		
AZ	341	MOUNT ELDEN,FM			LS		45	NC	C	MELD	01		
CO		MOUNT ETNA--SEE MOUNT AETNA											
NJ	400	MOUNT EVE,GRANITE							NC	C	MNEV	01	
NY	400	MOUNT EVE,GRANITE									MNEV	02	
CO	211	MOUNT GARFIELD,FM (MESAVERDE GP)		U	SH		200	SW	A	MGFD	02		
NH	227+	/MOUNT GARFIELD,PORPHYRITIC QUARTZ SYENITE (WHITE MTN GP)		U					C	A	MGFD	03	
NH	231	/MOUNT GARFIELD,PORPHYRITIC QUARTZ SYENITE (WHITE MTN GP)		U							MGFD	04	
NH	227+	[MOUNT GARFIELD,QUARTZ SYENITE (WHITE MOUNTAIN GP)]									MGFD	05	
NH	231	[MOUNT GARFIELD,QUARTZ SYENITE (WHITE MOUNTAIN GP)]									MGFD	06	
WA	123	MOUNT GARFIELD,VOLCS							NW	C	MGFD	01	
CA	211	MOUNT GIVENS,GRANODIORITE		U						C	MGVS	01	
AK	110	MOUNT HAGUE,VOLCS							SC	C	MNHG	01	
VT	364+	MOUNT HAMILTON,FM			SL				WC	D	MHML	04	
VT	367	MOUNT HAMILTON,FM									MHML	01	
VT	371	MOUNT HAMILTON,FM									MHML	07	
NY	364+	MOUNT HAMILTON,GP			DOL		1100	EC	C	MHML	09		
VT	364+	MOUNT HAMILTON,GP									MHML	02	
NY	367	MOUNT HAMILTON,GP									MHML	03	
VT	367	MOUNT HAMILTON,GP									MHML	05	
NY	371	MOUNT HAMILTON,GP									MHML	06	
VT	371	MOUNT HAMILTON,GP									MHML	08	
MT	331	MOUNT HEAD,FM (RUNDLE GP)			LS		180	CAN	B	MNHD	03		
NY	341	MOUNT HERMAN,SS							WC	A	MHRM	01	
CA	112	MOUNT HOFFMAN,COMPLEX							NC	C	MHFM	01	
CA	210	MOUNT HOFFMANN,QUARTZ MONZONITE			LV					C	D	MHFM	02
CA	210	MOUNT HOLE,GRANODIORITE								SE	C	MNHL	02
VT	400	MOUNT HOLLY,COMPLEX		U			2100	SW	A	MNHL	04		
VT	400	MOUNT HOLLY,GNEISS									MNHL	06	
IN	361	MOUNT HOPE,SH MBR (FAIRVIEW FM)		U							MNHP	02	
OH	361	MOUNT HOPE,SH MBR (FAIRVIEW FM)		U			15	SW	A	MNHP	03		
MT	112	MOUNT JACKSON,RHYOLITE		U							MJCK	01	
WY	112	MOUNT JACKSON,RHYOLITE		U			450	NW	E	MJCK	02		
OR	121	MOUNT JEFFERSON,FM			AND				NC	A	MJFR	01	
NV	121	MOUNT KATE,VOLCS					460	WC	C	MNTK	04		

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NH	227+	MOUNT LAFAYETTE, GRANITE PORPHYRY (WHITE MOUNTAIN GP)	U				C	A	MNLF 01
NH	231	MOUNT LAFAYETTE, GRANITE PORPHYRY (WHITE MOUNTAIN GP)	U						MNLF 02
DE	211	MOUNT LAUREL, FM (MONMOUTH GP)							MLRL 07
DE	211	MOUNT LAUREL, SAND	U						MLRL 01
MD	211	MOUNT LAUREL, SAND	U						MLRL 03
NJ	211	MOUNT LAUREL, SAND (MONMOUTH GP)	U		RD	24	C	A	MLRL 04
OH	112	MOUNT LIBERTY, TILL					NC	D	MLBR 02
TX	123	MOUNT LOCKE, FM		LAT		180	WC	E	MLCK 06
AZ	210	MOUNT LORD, IGNIMBRITE					SC	D	MLRD 01
CA	237+	MOUNT LOWE, GRANODIORITE					SC	A	MNTL 01
CA	311	MOUNT LOWE, GRANODIORITE							MNTL 02
NY	344	MOUNT MARION, FM (HAMILTON GP)	U	SH		150	SE	A	MNMR 01
OR	111+	/MOUNT MAZAMA, ANDESITE					SW	C	MMZM 01
OR	112	/MOUNT MAZAMA, ANDESITE							MMZM 06
OR	111+	/MOUNT MAZAMA, DACITE							MMZM 02
OR	112	/MOUNT MAZAMA, DACITE							MMZM 07
OR	111+	/MOUNT MAZAMA, LAVA							MMZM 04
OR	112	/MOUNT MAZAMA, LAVA							MMZM 09
OR	111	MOUNT MAZAMA, PUMICE				3	SW	C	MMZM 05
NY	364	MOUNT MERINO, FM				12	EC	C	MNMR 03
NY	364	MOUNT MERINO, MBR (NORMANSKILL SH)							MNMR 02
OH	317+	MOUNT MORRIS, LS MBR (WAYNESBURG FM)	U						MMRS 01
PA	317+	MOUNT MORRIS, LS MBR (WAYNESBURG FM)	U			2	SW	A	MMRS 02
WV	317+	MOUNT MORRIS, LS MBR (WAYNESBURG FM)	U						MMRS 03
OH	321	MOUNT MORRIS, LS MBR (WAYNESBURG FM)	U						MMRS 04
PA	321	MOUNT MORRIS, LS MBR (WAYNESBURG FM)	U						MMRS 05
WV	321	MOUNT MORRIS, LS MBR (WAYNESBURG FM)	U						MMRS 06
CO	430	MOUNT MORRISON, FM		GN			C	C	MMRS 09
CA	350+	MOUNT MORRISON, SS	U			300	C	D	MMRS 07
CA	360	MOUNT MORRISON, SS	U						MMRS 08
AZ	400	MOUNT ORD, PYROXENITE					C	C	MORD 03
NH	227+	MOUNT OSCEOLA, GRANITE (WHITE MOUNTAIN GP)	U				C	A	MOCL 01
NH	231	MOUNT OSCEOLA, GRANITE (WHITE MOUNTAIN GP)	U						MOCL 02
WY	430+	MOUNT OWEN, QUARTZ MONZONITE	U				NW	E	MNON 01
WY	440	MOUNT OWEN, QUARTZ MONZONITE	U						MNON 02
CA	220	MOUNT PINOS, GRANITE					SC	D	MNPS 01
CT	304+	MOUNT PISGAH, FM (BRIMFIELD GP)	U						MPSG 03
MA	304+	MOUNT PISGAH, FM (BRIMFIELD GP)	U	SCH, GN		810	C	E	MPSG 01
CT	307	MOUNT PISGAH, FM (BRIMFIELD GP)	U						MPSG 04
MA	307	MOUNT PISGAH, FM (BRIMFIELD GP)	U						MPSG 02

PA	341	MOUNT PLEASANT,FM (SUSQUEHANNA GP)		SH		150	NE	C	MPLS	05
CO	124+	MOUNT POMEROY,QUARTZ MONZONITE	U					C	C	MPMR 01
CO	125	MOUNT POMEROY,QUARTZ MONZONITE	U							MPMR 02
MT	107	[MOUNT POWELL,GRANITE]						WC	D	MNPL 01
MT	107	/MOUNT POWELL,PORPHYRITIC GRANITE								MNPL 02
CO	123+	MOUNT PRINCETON,QUARTZ MONZONITE	U					C	C	MPRC 01
CO	124	MOUNT PRINCETON,QUARTZ MONZONITE	U							MPRC 02
WA	112	MOUNT RAINIER,VOLCS				2600		C	A	MNRR 01
WA	320	MOUNT ROBERTS,FM		QTZ				CAN	A	MRBR 01
NC	420	MOUNT ROGERS,FM	U							MRGR 01
TN	420	MOUNT ROGERS,FM	U							MRGR 02
VA	420	MOUNT ROGERS,FM	U	VOL		300	SW	C	C	MRGR 03
IL	325	MOUNT RORAH,COAL MBR (SPOON FM)				1	SC	C	C	MNRR 05
CO	420	MOUNT ROSA,GRANITE	U					C	A	MNRS 06
MT	420	MOUNT ROWE,MBR (MILLER PEAK FM)	U	QTZ	RD	460	CAN	C	C	MNTR 12
MT	211	MOUNT ROYAL,GRANODIORITE						WC	D	MNRL 01
OR	217	MOUNT RUTH,LEUCOGRANODIORITE						NE	C	MNTR 03
MD	324	MOUNT SAVAGE,CLAY [BED] (POTTSVILLE FM)				4	NW	A	A	MSVG 07
PA	324	MOUNT SAVAGE,CLAY [BED] (POTTSVILLE FM)								MSVG 05
MD	324	[MOUNT SAVAGE,MBR (POTTSVILLE FM)]								MSVG 01
OR	112	[MOUNT SCOTT,ANDESITE]						SW	C	MNSC 03
OK	374	MOUNT SCOTT,GRANITE				300		SC	D	MNSC 02
OR	112	/MOUNT SCOTT,LAVAS								MNSC 01
MT	420	MOUNT SHIELDS,FM (MISSOULA GP)	U	STS	RD	690	NW	D	D	MSLD 01
IL	371	MOUNT SIMON,SS	U							MNSM 02
IN	371	MOUNT SIMON,SS								MNSM 06
MI	371	MOUNT SIMON,SS								MNSM 07
MN	371	MOUNT SIMON,SS	U							MNSM 04
IA	371	MOUNT SIMON,SS (DRESBACH GP)	U							MNSM 01
WI	371	MOUNT SIMON,SS (DRESBACH GP)	U			71	WC	A	A	MNSM 05
WI	371	MOUNT SIMON,SS (ELK MOUND GP)								MNSM 09
CA	124	MOUNT SOLEDAD,FM (LA JOLLA GP)	U	CGL		70	SE	E	E	MSDD 01
WA	110	MOUNT ST. HELENS,LAVA						SW	C	MSHL 01
WA	211	MOUNT STUART,GRANODIORITE	U						C	MNSR 02
TX	124	MOUNT TABOR,SH MBR (COOK MOUNTAIN FM)				14	EC	C	C	MTBR 01
TX	124	MOUNT TABOR,SH MBR (CROCKETT FM)								MTBR 02
CT	300	MOUNT TOM,HORNBLLENDE GNEISS	U		GN			NW	A	MNTM 03
NH	327+	MOUNT TRIPYRAMID,COMPLEX (WHITE MOUNTAIN GP)		GAB				EC	C	MTPM 01
NH	331	MOUNT TRIPYRAMID,COMPLEX (WHITE MOUNTAIN GP)								MTPM 02
CO	430	MOUNT VERNON CANYON,FM		GN		600	NC	E	E	MVRC 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ME	MOUNT WALDO--SEE WALDO							
MT 124	MOUNT WALLACE,FM (SUNLIGHT GP)	U	VOL		910	SW	E	MWLC 02
WY 124	MOUNT WALLACE,FM (SUNLIGHT GP)	U						MWLC 03
CA 201	MOUNT WILSON,QUARTZ DIORITE						A	MWLS 01
AZ 230	MOUNT WRIGHTSON,FM	U	RHY		2600	SE	E	MWRG 02
AL 347	MOUNT ZION,FM		PHL	BK	150	C	E	MNZN 04
OR 227	MOWICH,FM		SH		150	C	C	MWCH 04
OR 227	MOWICH,GP							MWCH 05
UT 341	MOWITZA,SH	U			15	SW	A	MWTZ 02
ND 217	MOWRY,FM (DAKOTA GP)							MWRY 14
CO 217	MOWRY,MBR (BENTON SH)	U						MWRY 01
MT 217	MOWRY,MBR (COLORADO SH)	U						MWRY 03
WY 217	MOWRY,MBR (COLORADO SH)	U			150	NC	A	MWRY 10
SD 217	MOWRY,MBR (GRANEROS SH)							MWRY 05
WY 217	MOWRY,MBR (GRANEROS SH)							MWRY 11
CO 217	MOWRY,MBR (MANCOS SH)	U						MWRY 02
UT 217	MOWRY,MBR (MANCOS SH)	U						MWRY 07
MT 217	MOWRY,SH (COLORADO GP)							MWRY 04
SD 217	MOWRY,SH (COLORADO GP)	U						MWRY 06
UT 217	MOWRY,SH (COLORADO GP)	U						MWRY 08
WY 217	MOWRY,SH (COLORADO GP)	U						MWRY 13
UT 217	MOWRY,SH (MANCOS GP)							MWRY 15
NM 321	MOYA,FM (KELLER GP)		LS		15	C	C	MOYA 01
NY 361	MOYER,MBR (FRANKFORT SH)				120	C	C	MOYR 01
PA 351	MOYER RIDGE,MBR (BLOOMSBURG FM)		SS,STS		10	C	E	MRDG 05
AR 331	MOYERS,FM (STANLEY GP)							MYRS 05
OK 331	MOYERS,FM (STANLEY GP)	U	SS		340	SE	C	MYRS 02
AR 331	MOYERS,MBR (STANLEY SH)	U						MYRS 06
NV 374	MUAV,LS	U						MUAV 02
UT 374	MUAV,LS	U						MUAV 03
AZ 374	MUAV,LS (TONTON GP)	U			150	NC	A	MUAV 01
NY 377	MUDD POND,QTZ			WH	6	NE	C	MDPD 03
NY 377	MUDD POND,QTZ MBR (BULL FM)							MDPD 01
VT 377	MUDD POND,QTZ MBR (BULL FM)							MDPD 02
NY 377	MUDD POND,QTZ MBR (NASSAU FM)							MDPD 05
VT 377	MUDD POND,QTZ MBR (NASSAU FM)							MDPD 04
MT 217	MUDDY,SS							MDDY 01
ND 217	MUDDY,SS							MDDY 07
SD 217	MUDDY,SS							MDDY 06
WY 217	MUDDY,SS				30	NC	A	MDDY 03



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 122	MULE MOUNTAIN, RHYOLITE					SW	E	MLMN 03
NM 217	MULEROS, FM							MLRS 06
TX 218	MULEROS, SS				240	WC	A	MLRS 02
CA 377	MULE SPRING, FM				260	C	D	MSPG 18
NV 377	MULE SPRING, FM							MSPG 20
CA 377	MULE SPRING, LS	U						MSPG 19
NV 377	MULE SPRING, LS	U						MSPG 21
CA 122	MULHOLLAND, FM (CONTRA COSTA GP)				1500	WC	C	MLLD 01
MO 325	MULKY, FM (CABANISS GP)		SH		20	WC	C	MLKY 03
OK 325	MULKY, FM (CABANISS GP)		SH					MLKY 05
KS 325	MULKY, FM (CHEROKEE GP)							MLKY 02
MO 325	MULKY, FM (CHEROKEE GP)							MLKY 04
IA 111	MULLENIX, MBR (DE FOREST FM)	U	ST, SD		8	WC	D	MLNX 01
NV 227+	MULLINIX, FM (AULD LANG SYNE GP)	U	PHL		1500	NC	C	MLNX 02
NV 231	MULLINIX, FM (AULD LANG SYNE GP)	U						MLNX 03
IA 323	MUNCIE CREEK, MBR (CHANUTE SH)							MCCK 03
IA 323	MUNCIE CREEK, SH MBR (IOLA LS)	U						MCCK 04
KS 323	MUNCIE CREEK, SH MBR (IOLA LS)	U			<1	NE	A	MCCK 06
MO 323	MUNCIE CREEK, SH MBR (IOLA LS)	U						MCCK 08
NE 323	MUNCIE CREEK, SH MBR (IOLA LS)	U						MCCK 10
OK 323	MUNCIE CREEK, SH MBR (IOLA LS)	U						MCCK 11
TX 400	MUNDY, BRECCIA	U		BK	57	WC	C	MNDY 01
MO 420	MUNGER, GRANITE PORPHYRY (MUSCO GP)					SE	D	MNGR 03
MI 371	MUNISING, FM				76	NC	A	MNSG 01
MI 371	MUNISING, SS	U						MNSG 02
TX 313	MUNN, FM		DOL		140	WC	D	MUNN 01
ME 344	MUNSONS, GRANITE					NE	D	MNSS 06
ME 364	MUNSUNGUN LAKE, FM		TF, BRC		1500	NC	E	MGLK 01
IA 325	MUNTERVILLE, LS (CHEROKEE GP)					SC	C	MRLV 17
AZ 217	MURAL, LS (BISBEE GP)	U			210	SE	A	MURL 01
OR 231	MURDERERS CREEK, GRAYWACKE (ALDRICH MOUNTAINS GP)	U			610	EC	D	MDCK 14
AZ 120	MURDOCK, BRECCIA		CGL			WC	A	MDCK 04
FL 121	MURDOCK STATION, MBR (TAMIAMI FM)		SD, LS		1	EC	E	MCKS 05
GA 364	MURFREESBORO, LS	U						MRFB 01
VA 364	MURFREESBORO, LS	U						MRFB 03
GA 364	MURFREESBORO, LS (STONES RIVER GP)							MRFB 01
TN 364	MURFREESBORO, LS (STONES RIVER GP)	U			21	C	A	MRFB 02
GA 370	MURPHY, MARBLE	U						MRPY 02
NC 370	MURPHY, MARBLE	U			150	WC	A	MRPY 03
TN 370	MURPHY, MARBLE	U						MRPY 04

IL	321	MURPHYS BLUFF,SS			18	EC	C	MPBF	02
IN	321	MURPHYS BLUFF,SS MBR (SHELBURN FM)						MPBF	06
IL	325	MURPHYSBORO,COAL MBR (SPOON FM)			2	SC	C	MRPB	01
CA	122	MURPHY SPRING,TUFF BRECCIA			300	C	E	MPSP	01
NC	377	MURRAY,SH (CHILHOWEE GP)	U					MRRY	02
TN	377	MURRAY,SH (CHILHOWEE GP)	U		91	EC	A	MRRY	05
TN	377	MURRAY,SH MBR (ERWIN FM)	U					MRRY	06
NC	377	MURRAY,SLATE (CHILHOWEE GP)						MRRY	04
TN	377	MURRAY,SLATE (CHILHOWEE GP)						MRRY	07
IL	326	MURRAY BLUFF,SS MBR (ABBOTT FM)			16	SE	C	MBLF	04
PA	337	MURRYSVILLE,SS MBR (POCONO FM)				SW	D	MRVL	21
IN	344+	MUSCATATUCK,GP		LS,DOL	20	SE	E	MCCK	33
IN	347	MUSCATATUCK,GP						MCCK	34
MO	420	MUSCO,GP		GR		SE	D	MUSC	01
WA	122	MUSEUM,MBR (YAKIMA BASALT)			27	C	D	MUSM	01
WY	124	MUSKRAT,CGL BED (PUDDLE SPRINGS MBR OF WIND RIVER FM)			6	WC	D	MSKR	01
RI	400	MUSSEY BROOK,SCHIST (BLACKSTONE GP)	U		490	NC	C	MSRK	03
NV	112	MUSTANG,ANDESITE	U			WC	C	MSNG	01
CA	211	MUSTANG CREEK,FM		SS		SC	C	MGCK	07
NV	224+	MUTTLEBURY,FM		LS	70	NW	E	MLBR	14
NV	227	MUTTLEBURY,FM						MLBR	15
ID	410	MUTUAL,FM	U					MUTL	01
UT	410	MUTUAL,FM (BRIGHAM GP)	U	RD	370	NC	C	MUTL	03
ID	410	MUTUAL,QTZ						MUTL	02
UT	410	MUTUAL,QTZ						MUTL	04
LA	124	MYATT,LENTIL (VERDA MBR OF YAZOO CLAY)		SD	10	NC	C	MYTT	01
MD	337	MYERS,SH (POCONO GP)	U					MYRS	03
WV	337	MYERS,SH (POCONO GP)	U		240	NE	A	MYRS	04
WI	371	MYERS HILL,SS				C	A	MRHL	04
PA	364	MYERSTOWN,FM			61	SE	C	MRSN	12
PA	364	MYERSTOWN,LS	U					MRSN	11
AL	331	MYNOT,SS MBR (PRIDE MOUNTAIN FM)	U		9	NW	C	MYNT	01
OK	325	MYRICK STATION,BED (PAWNEE MBR OF OOLOGAH LS)						MCKS	06
IA	325	MYRICK STATION,MBR (PAWNEE LS)						MCKS	03
KS	325	MYRICK STATION,MBR (PAWNEE LS)						MCKS	04
MO	325	MYRICK STATION,MBR (PAWNEE LS)			2	WC	C	MCKS	05
OK	325	MYRICK STATION,MBR (PAWNEE LS)						MCKS	07
LA	124	MYRTIS,MBR (QUEEN CITY SAND)			21	NW	C	MRTS	01
OR	217+	MYRTLE,GP	U	CGL	1800	SW	A	MRTL	01
OR	221	MYRTLE,GP	U					MRTL	02

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
SC	112	MYRTLE BEACH,FM		SD,PEAT			EC	B	MLBC 02
AK	330	MYSTIC CREEK,MBR (TOTATLANIKA SCHIST)	U			600	EC	E	MCCK 17
UT	124	MYTON,MBR (UINTA FM)		SH			EC	A	MYTN 01
NM	211	NAASHOIBITO,MBR (KIRTLAND SH)	U			8	NW	D	NSBT 01
AK	231	NABESNA,LS	U			610	EC	A	NBSN 01
LA	125	NABORTON,FM (WILCOX GP)	U	SS,SH		53	NW	C	NBRN 03
TX	125	NABORTON,FM (WILCOX GP)	U						NBRN 01
AR	212	NACATOCH,SAND	U			20	SW	A	NCTC 02
LA	212	NACATOCH,SAND	U						NCTC 02
AR	212	NACATOCH,SAND (NAVARRO GP)							NCTC 08
TX	212	NACATOCH,SAND (NAVARRO GP)	U						NCTC 06
WA	124	NACHES,FM	U	VSED		1200	C	A	NCNS 01
IL	364	NACHUSA,FM (PLATTEVILLE GP)		DOL		5	NE	C	NCNS 02
MO	364	NACHUSA,FM (PLATTEVILLE GP)							NCNS 03
AZ	125	NACIMIENTO,FM	U						NCMN 01
CO	125	NACIMIENTO,FM	U						NCMN 02
NM	125	NACIMIENTO,FM	U	SH		240	NC	A	NCMN 04
NM	125	NACIMIENTO,GP	U						NCMN 05
AZ	317+	NACO,FM	U			610	SE	A	NACO 01
AZ	320	NACO,FM	U						NACO 05
NM	311+	NACO,GP	U						NACO 04
AZ	317+	NACO,GP	U						NACO 02
NM	317	NACO,GP	U						NACO 09
AZ	320	NACO,GP	U						NACO 06
NM	320	NACO,GP	U						NACO 08
AZ	317+	NACO,LS	U						NACO 03
AZ	320	NACO,LS	U						NACO 07
KY	337	NADA,MBR (BORDEN FM)	U	SH		20	EC	D	NADA 01
CA	112	NADEAU,GRAVEL	U			15	SC	C	NDEU 01
PA	321	NADINE,LS [BED] (CONEMAUGH FM)				<1	SW	C	NDIN 01
KY	327	NAESE,SS MBR (HANCE FM)				78	SE	A	NESE 01
KY	327	NAESE,SS MBR (LEE FM)	U						NESE 02
TN	327	NAESE,SS MBR (LEE FM)	U						NESE 03
AZ	111	NAHA,FM		SD			NE	C	NAHA 01
SD	430	NAHANT,SCHIST (FLAG ROCK GP)	U		BK		WC	E	NHNT 02
AL	125	NAHEOLA,FM (MIDWAY GP)	U	CL,SD		46	WC	A	NHOL 01
MS	125	NAHEOLA,FM (MIDWAY GP)	U						NHOL 02
NM	111	NAKAIBITO,FM	U	SD,ST		6	NW	C	NKBT 01
NM	320	NAKAYE,FM (MAGDALENA GP)		LS		130	SW	C	NKYE 01
AK	221	NAKNEK,FM	U	STS,SS		1100	C	A	NKNK 01

AK	227	NAKNEK LAKE,GRANITE							C	D	NKKL	01
NM	122	NAMBE,MBR (TESUQUE FM)		SS		140		NC	E		NMBE	01
ID	112	[NAMPA,FM]				15		SW	C		NAMP	02
ID	112	/NAMPA,SEDIMENTS									NAMP	01
AL	125	NANAFALIA,FM (WILCOX GP)		U	CL,SD	79		WC	A		NNFL	01
GA	125	NANAFALIA,FM (WILCOX GP)		U							NNFL	02
MS	125	NANAFALIA,FM (WILCOX GP)		U							NNFL	03
WA	211	NANAIMO,FM			CGL,GYK			CAN	C		NNMO	11
KY	337	NANCY,MBR (BORDEN FM)		U	SH	91		SC	D		NNCY	01
DE	124	NANJEMOY,FM		U							NNJM	03
MD	124	NANJEMOY,FM (PAMUNKEY GP)		U	GLC			SC	A		NNJM	01
VA	124	NANJEMOY,FM (PAMUNKEY GP)		U							NNJM	02
AZ	420	NANKOWEAP,FM (GRAND CANYON SUPERGROUP)		U	SS	100		NC	C		NNKP	01
AK	344	NANOOK,LS		U		900		NE	E		NNOK	01
VA	112	NANSEMOND,FM		U	SED			SE	C		NSMD	01
GA	377	NANTAHALA,SCHIST									NNTL	01
GA	377	NANTAHALA,SLATE		U							NNTL	02
NC	377	NANTAHALA,SLATE		U		550		WC	A		NNTL	03
TN	377	NANTAHALA,SLATE		U							NNTL	04
AK	211+	NANUSHUK,GP		U	SS	1800		NC	A		NNSK	02
AK	217	NANUSHUK,GP		U							NNSK	04
UT	374	NAOMI PEAK,LS MBR (LANGSTON DOL)				10		NC	C		NMPK	03
ID	374	NAOMI PEAK,TONGUE (TWIN KNOBS FM)		U							NMPK	02
UT	374	NAOMI PEAK,TONGUE (TWIN KNOBS FM)		U							NMPK	04
HI	121	NAPALI,FM (WAIMEA CANYON GP)		U	BAS	820		NW	C		NPLI	01
NY	364	NAPANEE,LS (TRENTON GP)				10		CAN	C		NPNE	03
NY	364	NAPANEE,MBR (ROCKLAND FM)									NPNE	01
NY	344	NAPANOCH,MBR (MARCELLUS FM)			CGL	<1		EC	E		NPNC	01
VA	341	NAPLES,MBR (MILLBORO SH)			SH,STS	180		SW	A		NPLS	01
FL	218	[NAPLES BAY,FM (MARQUESAS SUPERGROUP)]			SED	380		SE	E		NPLB	02
FL	218	/NAPLES BAY,GP (MARQUESAS SUPERGROUP)									NPLB	01
ND	112	NAPOLEON,DRIFT						SC	D		NPLN	01
MI	337	NAPOLEON,MBR (MARSHALL SS)				6		SE	A		NPLN	03
MI	337	NAPOLEON,SS MBR (MARSHALL FM)		U							NPLN	02
NM	231	NARANJO,FM		U	SS	20		NW	C		NRNJ	04
CT	310+	NARRAGANSETT PIER,GRANITE		U							NRGP	03
RI	310+	NARRAGANSETT PIER,GRANITE		U				SC	C		NRGP	04
CT	321	NARRAGANSETT PIER,GRANITE		U							NRGP	05
RI	321	NARRAGANSETT PIER,GRANITE		U							NRGP	06
NV	337+	NARROW CANYON,LS		U		53		SE	C		NRCN	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV 341	NARROW CANYON,LS	U						NRCN 02
AK 122	NARROW CAPE,FM	U	SS		700	SC	E	NRCP 01
WV 367	NARROWS,CHERT MBR (BEEKMANTOWN DOL)							NRRS 08
VA 367	NARROWS,CHERT MBR (BEEKMANTOWN LS)				75	SW	A	NRRS 07
NV 123	NARROWS,TUFF MBR (LEACH CANYON FM)	J						NRRS 04
UT 123	NARROWS,TUFF MBR (LEACH CANYON FM)	U			100	SW	D	NRRS 05
LA 123	NASH CREEK,FM		CL		11	WC	C	NCRK 01
TX 123	NASH CREEK,FM							NCRK 09
WY 400	NASH FORK,FM (LIBBY CREEK GP)		MBL,PHL			SE	E	NFRK 02
MA 307	NASHOBA,FM	U	GN		1500	NC	C	NSHB 03
GA 364	NASHVILLE,GP (CHICKAMAUGA SUPERGROUP)							NSVL 02
TN 364	NASHVILLE,GP (CHICKAMAUGA SUPERGROUP)		LS		100	C	A	NSVL 01
AK 331+	NASORAK,FM (LISBURNE GP)	U	LS,SH		640	NC	D	NSRK 01
AK 337	NASORAK,FM (LISBURNE GP)	U						NSRK 02
NY 377+	NASSAU,FM	U	SH,QTZ		240	EC	A	NSSU 01
VT 377+	NASSAU,FM	U						NSSU 02
NY 400	NASSAU,FM	U						NSSU 03
VT 400	NASSAU,FM	U						NSSU 04
WA 124	NATAPOC,FM		SS		4600	C	A	NTPC 01
MS 112	NATCHEZ,FM	U	SD		60	SW	A	NTCZ 01
NV 231+	NATCHEZ PASS,FM (STAR PEAK GP)	U	DOL		500	NC	C	NCZP 01
NV 234	NATCHEZ PASS,FM (STAR PEAK GP)	U						NCZP 02
CO 123	NATHROP,VOLCS	U			150	C	E	NTRP 01
MI 420	NATIONAL,SS [BED] (PORTAGE LAKE VOLCS)	U			15	NW	A	NTNL 01
AK 341	NATION RIVER,FM	U	SED		1800	NE	A	NRVR 07
OK 325	NATSY,MBR (DEESE FM)		LS		22	SE	C	NTSY 01
OK 325	NATSY,MBR (WEST ARM FM)							NTSY 02
CO 217	NATURITA,FM (DAKOTA GP)		CST		55	SW	C	NTRT 02
NV 220	NAVAJO,SS							NVJO 05
AZ 220+	NAVAJO,SS (GLEN CANYON GP)	U			610	NE	A	NVJO 02
CO 220+	NAVAJO,SS (GLEN CANYON GP)	U						NVJO 03
UT 220+	NAVAJO,SS (GLEN CANYON GP)	U						NVJO 06
NM 227+	NAVAJO,SS (GLEN CANYON GP)	U						NVJO 04
AZ 231	NAVAJO,SS (GLEN CANYON GP)	U						NVJO 07
CO 231	NAVAJO,SS (GLEN CANYON GP)	U						NVJO 08
NM 231	NAVAJO,SS (GLEN CANYON GP)	U						NVJO 09
UT 231	NAVAJO,SS (GLEN CANYON GP)	U						NVJO 11
OK 377	[NAVAJOE MOUNTAIN,BASALT]				320	SC	D	NVJM 02
OK 377	/NAVAJOE MOUNTAIN,BASALT-SPILITE GP							NVJM 01
OH 112	NAVARRE,TILL				5	EC	D	NVRR 01

TX	212	NAVARRO,FM		U	CL				EC	A	NVRR	02	
AR	212	NAVARRO,GP									NVRR	05	
TX	212	NAVARRO,GP		U							NVRR	03	
DE	211	NAVESINK,FM (MONMOUTH GP)									NVSK	05	
NJ	211	NAVESINK,FM (MONMOUTH GP)									NVSK	01	
VT	367	NAYLOR LEDGE,FM		U	GLC			9	EC	A	NLDG	04	
VT	367	NAYLOR LEDGE,LS (BEEKMANTOWN GP)									NLDG	05	
VA	400	NEABSCO RUN,DIORITE								NE	A	NBCR	01
NY	354	NEAHGA,SH (CLINTON GP)				GN		2	WC	A	NEHG	01	
VA	331	NEAL,SS MBR (HINTON FM)						16	SW	E	NEAL	01	
WV	331	NEAL,SS MBR (HINTON FM)		U							NEAL	02	
VA	364	NEALMONT,FM									NLMN	03	
PA	364	NEALMONT,FM (TRENTON GP)						41	SC	C	NLMN	01	
WV	364	NEALMONT,FM (TRENTON GP)									NLMN	05	
VA	364	NEALMONT,LS									NLMN	04	
PA	364	NEALMONT,LS (TRENTON GP)									NLMN	02	
WV	364	NEALMONT,LS (TRENTON GP)									NLMN	06	
TX	319	NEAL RANCH,FM			LS			140	WC	C	NLRC	01	
MI	440	NEALY CREEK,MBR (MONA SCHIST)						910	NC	E	NLCK	01	
NC	377	NEBO,QTZ (CHILHOWEE GP)		U							NEBO	01	
TN	377	NEBO,QTZ (CHILHOWEE GP)		U		WH		150	EC	A	NEBO	02	
TN	377	NEBO,QTZ MBR (ERWIN FM)		U							NEBO	03	
TN	377	NEBO,SS (CHILHOWEE GP)		U							NEBO	04	
NE	112	NEBRASKA,DRIFT						2	NE	C	NBRK	02	
KS	112	NEBRASKA,TILL									NBRK	01	
NE	112	NEBRASKA,TILL									NBRK	03	
MO	322	NEBRASKA CITY,LS									NBKC	03	
KS	322	NEBRASKA CITY,LS MBR (WOOD SIDING FM)		U							NBKC	01	
NE	322	NEBRASKA CITY,LS MBR (WOOD SIDING FM)		U				2	SE	A	NBKC	04	
KS	322	NEBRASKA CITY,MBR (CANEYVILLE LS)									NBKC	02	
WI	430	NECEDAH,QTZ								SC	A	NCDH	01
TX	321	NECESSITY,SH (CISCO GP)						33	NC	A	NCST	02	
TX	321	NECESSITY,SH MBR (GRAHAM FM)									NCST	01	
MI	361	NEDA,FM		U							NEDA	03	
WI	361	NEDA,FM		U	FE			10	EC	A	NEDA	04	
IL	361	NEDA,FM (MAQUOKETA GP)									NEDA	06	
IA	361	NEDA,MBR (MAQUOKETA SH)		U							NEDA	02	
WI	361	NEDA,MBR (MAQUOKETA SH)		U							NEDA	05	
NY	344	NEDROW,MBR (ONONDAGA LS)		U				4	C	C	NDRW	01	
WY	104	NEEDLE MOUNTAIN,GRANODIORITE						1100	NW	D	NGLM	01	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 400	NEEDLES, COMPLEX		DRT			SE	C	NDLS 02
TN 327	NEEDLESEYE, CGL MBR (VANDEVER FM)				34	SC	D	NDLS 01
TN 327	NEEDLESEYE, SS MBR (VANDEVER FM)							NDLS 03
NV 123	NEEDLES RANGE, FM	U						NDRG 01
UT 123	NEEDLES RANGE, FM	U	IGNM		30	SW	C	NDRG 02
MD 344+	NEEDMORE, SH	U						NDMR 01
PA 344+	NEEDMORE, SH	U			46	SC	C	NDMR 02
VA 344+	NEEDMORE, SH							NDMR 03
WV 344+	NEEDMORE, SH	U						NDMR 04
MD 347	NEEDMORE, SH	U						NDMR 05
PA 347	NEEDMORE, SH	U						NDMR 06
VA 347	NEEDMORE, SH							NDMR 07
WV 347	NEEDMORE, SH	U						NDMR 08
PA 344+	NEEDMORE, SH (ONONDAGA GP)							NDMR 11
PA 347	NEEDMORE, SH (ONONDAGA GP)							NDMR 12
ID 121	NEELEY, FM	U	SED		30	SE	A	NELY 01
CA 122+	NEENACH, VOLCS	U					SC	D NNCH 01
CA 123	NEENACH, VOLCS	U						NNCH 02
WY 217	NEFSY, MBR (GRANEROS SH)				15	NE	A	NFSY 01
WY 217	NEFSY, SH							NFSY 02
MI 430	NEGAUNEE, IRON-FORMATION (MENOMINEE GP)	U			460	NC	A	NGUN 01
IN 332	NEGLI CREEK, LS				6	SC	A	NGCK 02
OR 123+	NEHALEM, FM		SS, STS		180	NW	C	NHLM 01
OR 124	NEHALEM, FM							NHLM 02
NE 322	NEHAWKA, LS MBR (PLATTFORD SH)				1	SE	A	NHWK 01
AK 231	NEHENTA, FM	U	VSED		490	SE	E	NHNT 03
MT 420	NEIHART, QTZ (BELT SUPERGROUP)	U			210	C	A	NHRT 02
AK 217	NELCHINA, LS	U			120	C	A	NLCN 01
OK 323	NELLIE BLY, FM (SKIATOOK GP)	U	SH, SS		120	NE	A	NLBL 01
AK 200	NELLIE JUAN, GRANITE	U				EC	A	NLJN 01
NV 331	NELSON, FM	U	MVOL		120	NE	C	NLSN 04
CO 123	NELSON MOUNTAIN, TUFF	U			61	SW	A	NLSM 01
SD 430	NEMO, GP	U	MET			WC	A	NEMO 01
AK 121	NENANA, GRAVEL	U			540	EC	A	NENN 01
NV 234	NENZEL, RHYOLITE BRECCIA	U			120	NW	A	NNZL 01
NY 367	NEPEAN, FM		QTZ			CAN	B	NEPN 01
CA 122	NEROLY, FM (SAN PABLO GP)	U			1200	WC	A	NRLY 01
CA 122	NEROLY, SS (SAN PABLO GP)	U						NRLY 02
AK 307+	NERUOKPUK, FM	U	SCH			NC	A	NKPK 01
AK 340	NERUOKPUK, FM	U						NKPK 02

AK	400	NERUOKPUK,FM	U							NKPK	03
OK	317	NESCATUNGA,GYPSUM BED (BLAINE FM)								NSCG	03
KS	317	NESCATUNGA,GYPSUM MBR (BLAINE FM)					3	SC	C	NSCG	01
OK	317	NESCATUNGA,GYPSUM MBR (BLAINE FM)								NSCG	04
MS	124	NESHOPA,SAND MBR (TALLAHATTA FM)	U			15		EC	C	NSHB	02
CO	211	NESLEN,FM (MESAVERDE GP)	U							NSLN	01
UT	211	NESLEN,FM (MESAVERDE GP)	U	SS,SH		120		EC	A	NSLN	02
UT	211	NESLEN,MBR (PRICE RIVER FM)								NSLN	03
WA	112	NESPELEM,FM					230	NE	A	NPLM	01
WA	112	NESPELEM,SILT	U							NPLM	02
MT	224	NESSON,FM	U							NSSN	02
ND	224	NESSON,FM		EVP		79		NW	C	NSSN	03
OR	124	NESTUCCA,FM	U	STS,CLS		2400		NW	C	NSTC	01
VT	377	NETOP,FM		PHL		120		SW	D	NTOP	01
NC	112	NEUSE,FM		SD		4		EC	D	NEUS	01
KS	317	NEVA,LS (COUNCIL GROVE GP)	U				3	EC	A	NEVA	01
NE	317	NEVA,LS (COUNCIL GROVE GP)								NEVA	03
OK	317	NEVA,LS (COUNCIL GROVE GP)	U							NEVA	05
OK	317	NEVA,LS (OSCAR GP)								NEVA	07
KS	317	NEVA,MBR (GRENOLA LS)	U							NEVA	02
NE	317	NEVA,MBR (GRENOLA LS)	U							NEVA	04
OK	317	NEVA,MBR (GRENOLA LS)	U							NEVA	06
NV	344+	NEVADA,FM	U	LS		1800		EC	A	NEVD	01
NV	347	NEVADA,FM	U							NEVD	02
NV	344+	NEVADA,GP								NEVD	03
NV	347	NEVADA,GP								NEVD	04
AK	122+	NEVIDISKOV,FM	U	GYK		300		SW	E	NVKV	01
AK	123	NEVIDISKOV,FM	U							NVKV	02
TX	112	NEVILLE,FM		CGL,ST		3		WC	C	NVLL	01
AL	367	NEWALA,DOL	U			300		C	A	NEWL	01
AL	367	NEWALA,DOL (KNOX GP)								NEWL	02
KY	367	NEWALA,DOL (KNOX GP)	U							NEWL	07
VA	367	NEWALA,DOL (KNOX GP)	U							NEWL	10
GA	367	NEWALA,FM (KNOX GP)								NEWL	05
KY	367	NEWALA,FM (KNOX GP)	U							NEWL	08
AL	367	NEWALA,LS	U							NEWL	03
AL	367	NEWALA,LS (KNOX GP)								NEWL	13
GA	367	NEWALA,LS (KNOX GP)	U							NEWL	06
KY	367	NEWALA,LS (KNOX GP)	U							NEWL	09
IL	339+	NEW ALBANY,GP								NALB	15

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.		
IL	341	NEW ALBANY,GP							NALB 12		
IL	344	NEW ALBANY,GP							NALB 13		
MI	337+	NEW ALBANY,SH							NALB 02		
IL	339+	NEW ALBANY,SH	U						NALB 14		
IN	339+	NEW ALBANY,SH	U						NALB 11		
KY	339+	NEW ALBANY,SH	U						NALB 03		
IL	341	NEW ALBANY,SH	U						NALB 01		
IN	341	NEW ALBANY,SH	U						NALB 04		
KY	341	NEW ALBANY,SH	U						NALB 05		
MI	341	NEW ALBANY,SH	U						NALB 06		
IL	344	NEW ALBANY,SH							NALB 07		
IN	344	NEW ALBANY,SH	U						NALB 08		
KY	344	NEW ALBANY,SH	U						NALB 09		
CT	227+	NEWARK,GP	U						NWRK 11		
MA	227+	NEWARK,GP	U						NWRK 10		
VA	227+	NEWARK,GP	U						NWRK 13		
VA	227+	/NEWARK,GP	U						NWRK 12		
CT	231	NEWARK,GP	U						NWRK 01		
MA	231	NEWARK,GP	U						NWRK 02		
MD	231	NEWARK,GP	U						NWRK 03		
NC	231	/NEWARK,GP	U						NWRK 04		
NJ	231	NEWARK,GP	U	SS	RD		NE	A	NWRK 05		
NY	231	NEWARK,GP							NWRK 06		
PA	231	NEWARK,GP	U						NWRK 07		
VA	231	NEWARK,GP							NWRK 14		
VA	231	/NEWARK,GP	U						NWRK 08		
VT	340	/NEWARK,GRANITE							NWRK 09		
NV	211+	NEWARK CANYON,FM	U	SED			NE	A	NWRK 09		
NV	217	NEWARK CANYON,FM	U				EC	C	NRKC 02		
KS	317	NEWBERN,SH MBR (DONEGAL LS)							NRKC 01		
OR	111	[NEWBERRY,OBSIDIAN]					2	NE	A	NBRN 05	
OR	111	/NEWBERRY,OBSIDIAN FLOW						SW	C	NBRR 25	
OR	111	NEWBERRY CRATER,PUMICE							NE	C	NBRC 03
OK	110	NEWBLOCK PARK,SAND							NE	E	NBKP 01
MA	360	NEW BRAINTREE,GABBRO									NBRR 24
NY	400	NEW BREMEN,GRANITE (DIANA SYENITE COMPLEX)					24		C	E	NBRR 24
MN	112	NEW BRIGHTON,FM							NC	C	NBRM 01
IL	325	NEW BURNSIDE,COAL MBR (SPOON FM)		SD			30		SC	D	NBRG 01
MA	347+	[NEWBURY,COMPLEX]					1		SC	C	NBRD 01
MA	351	[NEWBURY,COMPLEX]							NE	A	NBRY 06
											NBRY 07



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
ME 340	[NEW HAMPSHIRE,GP]						NHMP 08
NH 340	[NEW HAMPSHIRE,GP]					C A	NHMP 07
VT 340	[NEW HAMPSHIRE,GP]						NHMP 06
MA 340	/NEW HAMPSHIRE,PLUTONIC SER	U					NHMP 04
ME 340	/NEW HAMPSHIRE,PLUTONIC SER	U					NHMP 03
NH 340	/NEW HAMPSHIRE,PLUTONIC SER	U					NHMP 01
VT 340	/NEW HAMPSHIRE,PLUTONIC SER	U					NHMP 02
CT 231	/NEW HAVEN,ARKOSE (NEWARK GP)	U			2300	C C	NHVN 03
CT 112	NEW HAVEN,CLAY				5	C A	NHVN 01
IL 323	/NEW HAVEN,COAL MBR (MODESTO FM)				<1	SE C	NHVN 04
WY 217	NEW HAVEN,LENS (NEWCASTLE SS)				13	NE C	NHVN 02
IL 364	NEW HAVEN,LS (MCLEANSBORO GP)	U			1	SE A	NHVN 05
IN 112	NEW HOLLAND,TILL MBR (LAGRO FM)				20	NE D	NHLD 01
WI 430	NEWINGHAM,GRANODIORITE					NE D	NNGM 01
ID 420	NEWLAND,FM (BELT SUPERGROUP)	U					NLND 14
MT 420	NEWLAND,FM (BELT SUPERGROUP)	U			610	C A	NLND 16
ID 420	NEWLAND,LS (BELT SUPERGROUP)	U					NLND 15
MT 420	NEWLAND,LS (BELT SUPERGROUP)	U					NLND 17
NY 344	NEW LISBON,FM (GENESEE GP)		SS		18	C A	NLSB 02
NY 344	NEW LISBON,MBR (TULLY FM)						NLSB 01
WV 324	/NEWLON,LS AND SH [MBR] (KANAWHA FM)				8	C A	NWLN 02
WV 324	[NEWLON,MBR (KANAWHA FM)]						NWLN 03
CT 307	NEW LONDON,GNEISS	U				EC A	NLND 06
CT 307	NEW LONDON,GNEISS (IVORYTON GP)						NLND 20
CT 307	NEW LONDON,GRANITE	U					NLND 11
IL 364	NEW LONDON,MBR (DUNLEITH FM)						NLND 08
MO 364	NEW LONDON,MBR (DUNLEITH FM)		LS		10	NC D	NLND 09
TN 331	NEWMAN,FM	U			850	NE A	NWMN 03
KY 331	NEWMAN,LS	U					NWMN 02
TN 331	NEWMAN,LS	U					NWMN 04
VA 331	NEWMAN,LS	U					NWMN 06
WA 400	NEWMAN LAKE,GNEISS	U				EC E	NMLK 05
PA 364	NEW MARKET,FM (ST. PAUL GP)						NMRK 05
VA 364	NEW MARKET,LS	U			25	NC C	NMRK 03
MD 364	NEW MARKET,LS (ST. PAUL GP)	U					NMRK 01
PA 364	NEW MARKET,LS (ST. PAUL GP)	U					NMRK 02
WV 364	NEW MARKET,LS (ST. PAUL GP)	U					NMRK 04
PA 341	NEW MILFORD,FM (SUSQUEHANNA GP)		SH,SS	RD	180	NE A	NMFD 01
MD 231	NEW OXFORD,FM (NEWARK GP)	U					NOXF 01
PA 231	NEW OXFORD,FM (NEWARK GP)	U	SH,SS	RD	2300	SC A	NOXF 02

NV	122	NEW PASS,TUFF			150	C	E	NPSS	01
WA	420	NEWPORT,GP		MSED	8800	NE	C	NPRT	07
VT	340	NEWPORT,GRANITE				NC	A	NPRT	03
KY	338	NEW PROVIDENCE,FM	U					NPVC	03
IN	338	NEW PROVIDENCE,FM (BORDEN GP)	U		GN	37	SC	A	NPVC 01
TN	338	NEW PROVIDENCE,SH	U					NPVC	05
IN	338	NEW PROVIDENCE,SH (BORDEN GP)	U					NPVC	02
KY	338	NEW PROVIDENCE,SH MBR (BORDEN FM)						NPVC	06
IA	367	NEW RICHMOND,SS (PRAIRIE DU CHIEN GP)	U					NRCM	01
IL	367	NEW RICHMOND,SS (PRAIRIE DU CHIEN GP)	U					NRCM	02
MI	367	NEW RICHMOND,SS (PRAIRIE DU CHIEN GP)	U					NRCM	03
MN	367	NEW RICHMOND,SS (PRAIRIE DU CHIEN GP)	U					NRCM	04
WI	367	NEW RICHMOND,SS (PRAIRIE DU CHIEN GP)	U			1	WC	A	NRCM 05
MN	367	NEW RICHMOND,SS MBR (SHAKOPEE FM)						NRCM	08
WI	367	NEW RICHMOND,SS MBR (SHAKOPEE FM)						NRCM	07
VA	327	NEW RIVER,FM	U					NRVR	03
WV	327	NEW RIVER,FM	U	CST			SC	A	NRVR 09
PA	327	NEW RIVER,FM (POTTSVILLE GP)	U					NRVR	01
WV	327	NEW RIVER,FM (POTTSVILLE GP)						NRVR	05
MS	347	NEW SCOTLAND,FM						NSCD	03
NJ	347	NEW SCOTLAND,FM (HELDERBERG GP)	U					NSCD	04
NY	347	NEW SCOTLAND,FM (HELDERBERG GP)	U			39	EC	A	NSCD 05
PA	347	NEW SCOTLAND,FM (HELDERBERG GP)	U					NSCD	07
VA	347	NEW SCOTLAND,FM (HELDERBERG GP)						NSCD	09
NJ	347	NEW SCOTLAND,LS (HELDERBERG GP)						NSCD	12
NY	347	NEW SCOTLAND,LS (HELDERBERG GP)						NSCD	06
VA	347	NEW SCOTLAND,LS (HELDERBERG GP)	U					NSCD	10
WV	347	NEW SCOTLAND,LS (HELDERBERG GP)	U					NSCD	11
PA	347	NEW SCOTLAND,LS MBR (HELDERBERG FM)	U					NSCD	08
TN	354	NEWSOM,SH				2	NC	A	NWSM 01
AZ	231	NEWSPAPER ROCK,SS (CHINLE FM)				9	NE	C	NPRK 01
TN	327	NEWTON,FM (CRAB ORCHARD MOUNTAINS GP)				53	SC	A	NWTN 10
TN	327	NEWTON,MBR (LEE FM)						NWTN	04
GA	327	NEWTON,SS (CRAB ORCHARD MOUNTAINS GP)						NWTN	02
TN	327	NEWTON,SS (CRAB ORCHARD MOUNTAINS GP)						NWTN	05
GA	327	NEWTON,SS MBR (CRAB ORCHARD MOUNTAINS FM)	U					NWTN	03
TN	327	NEWTON,SS MBR (CRAB ORCHARD MOUNTAINS FM)	U					NWTN	06
AR	364	NEWTON,SS MBR (EVERTON FM)	U			6	NW	A	NWTN 08
MI	344	NEWTON CREEK,LS (TRAVERSE GP)	U			8	EC	C	NCRK 02
MI	344	NEWTON CREEK,MBR (ALPENA LS)						NCRK	03

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA	344	NEWTON HAMILTON,FM (ONONDAGA GP)		SH		30	SC	C	NHML 01
MN	440	NEWTON LAKE,FM		MVOL		1400	NE	E	NNLK 04
CA	221	NEWTON MINE,VOLCS	U		GN	230	C	C	NNMN 01
CT	361+	NEWTOWN,GNEISS					SW	E	NWTN 07
CT	364	NEWTOWN,GNEISS						E	NWTN 09
IA	112	NEW ULM,TILL							NULM 03
MN	112	NEW ULM,TILL					SC	E	NULM 01
CA	221	NEWVILLE,FM		SH		1200	NW	C	NVLL 02
NY	231	NEW YORK CITY,GP		MET			SE	C	NYKC 02
CT	400	NEW YORK CITY,GP							NYKC 01
CA	112	NEW YORK MOUNTAIN,FANGLOMERATE				61	SE	D	NYKM 01
NV	211	NEW YORK PEAK,QUARTZ MONZONITE	U				NW	E	NYKP 01
TX	212	NEYLANDVILLE,FM				91	EC	A	NLDV 06
TX	212	NEYLANDVILLE,MARL (NAVARRO GP)	U						NLDV 01
TX	212	NEYLANDVILLE,MARL (TAYLOR GP)							NLDV 02
IA	354	/NIAGARA,DOL	U						NIGR 01
IL	354	/NIAGARA,DOL							NIGR 03
WI	354	/NIAGARA,DOL	U						NIGR 16
WI	354	/NIAGARA,FM							NIGR 17
MI	354	/NIAGARA,GP	U						NIGR 10
IL	354	/NIAGARA,LS							NIGR 06
IN	354	/NIAGARA,LS							NIGR 08
OH	354	/NIAGARA,LS	U						NIGR 14
AK	211	NIAKOGON,TONGUE (CHANDLER FM)	U	CGL		520	NC	C	NKGN 01
OR	227	NICELY,SH (MOWICH GP)				70	C	C	NCLY 01
PA	324	NICELY RUN,STS MBR (KITTANNING FM)					WC	C	NCLR 01
KY	361	NICHOLAS,BED (TANGLEWOOD MBR OF LEXINGTON LS)				11	NE	A	NCLS 01
NC	377	NICHOLS,SH (CHILHOWEE GP)	U						NCLS 03
TN	377	NICHOLS,SH (CHILHOWEE GP)	U			240	EC	A	NCLS 04
NY	371	NICHOLVILLE,CGL MBR (POTSDAM SS)	U				NC	C	NCLV 01
KS	112	NICKERSON,TILL							NCKR 03
NE	112	NICKERSON,TILL				5	EC	D	NCKR 01
VT	377	NICKWAKET,GRAYWACKE	U			240	WC	A	NCKK 01
VT	377	NICKWAKET,MBR (MENDON FM)							NCKK 02
VT	377	NICKWAKET,MBR (PINNACLE FM)							NCKK 03
CA	112	NIGGER CANYON,VOLCS				30	SE	C	NGRC 01
WY	124	NIGHTINGALE,MBR (WASATCH FM)		SH,SS		370	SW	D	NGGL 01
CA	121	NIGUEL,FM	U	SS		110	SC	C	NGUL 01
AK	231+	NIKOLAI,GREENSTONE	U			1200	NC	A	NKOL 02
AK	234	NIKOLAI,GREENSTONE	U						NKOL 04





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY 211	NIOBRARA,MBR (CODY SH)	U						NBRR 20
MT 211	NIOBRARA,MBR (COLORADO SH)	U						NBRR 11
CO 211	NIOBRARA,MBR (MANCOS SH)	U						NBRR 06
NM 211	NIOBRARA,MBR (MANCOS SH)	U						NBRR 18
MT 211	NIOBRARA,SH (COLORADO GP)	U						NBRR 12
ND 211	NIOBRARA,SH (COLORADO GP)	U						NBRR 14
MN 430	NIPissing,DIABASE					CAN	A	NPSG 01
AZ 120+	NIPPER,FM		CGL			SE	C	NPPR 01
AZ 211	NIPPER,FM							NPPR 02
KS 317	NIPPEWALLA,GP		SS,SH		280	SC	C	NPPL 02
RI 400	NIPSACHUCK,GNEISS	U			430	NC	C	NPCK 01
PA 344	NIS HOLLOW,STS MBR (MAHANTANGO FM)				17	EC	E	NSHL 01
MT 341	NISKU,FM		DOL		48	CAN	B	NSKU 02
ND 341	NISKU,FM (JEFFERSON GP)							NSKU 01
ID 112	NITER,LOESS				2	SE	D	NITR 01
MD 367	NITTANY,DOL (BEEKMANTOWN GP)	U						NTTN 01
PA 367	NITTANY,DOL (BEEKMANTOWN GP)	U			380	C	A	NTTN 02
TN 367	NITTANY,DOL (BEEKMANTOWN GP)	U						NTTN 03
VA 367	NITTANY,DOL (BEEKMANTOWN GP)	U						NTTN 04
VA 367	NITTANY,FM							NTTN 05
AK 231	NIZINA,LS	U			370	EC	A	NIZN 01
AK 224	NIZINA MOUNTAIN,FM	U	GYK		410	EC	E	NSNM 02
UT 341	NOAH,MBR (BLUEBELL DOL)				88	C	C	NOAH 01
AK 337+	NOATAK,SS (ENDICOTT GP)	U			1500	NC	A	NOTK 01
AK 341	NOATAK,SS (ENDICOTT GP)	U						NOTK 02
OH 321	NOBLE,LS MBR (CONEMAUGH FM)				2	EC	D	NOBL 01
OK 328+	NOBLE RANCH,GP		SS,SH			SC	E	NBRC 01
OK 331	NOBLE RANCH,GP							NBRC 02
MO 341	NOEL,MBR (CHATTANOOGA SH)				21	SW	A	NOEL 06
OK 341	NOEL,SH							NOEL 07
OK 341	NOEL,SH MBR (CHATTANOOGA FM)							NOEL 08
AZ 122	NOGALES,FM	U	CGL		2300	SE	E	NGLS 01
NM 123	NOGAL PEAK,TRACHYTE (SIERRA BLANCA VOLCS)				300	C	E	NGPK 01
NV 354	NOH,FM		SED		400	NE	D	NOH 01
OK 323	NO-HO-CO,FM (HOXBAR GP)		LS,SH		56	C	C	NOHC 01
ME 304	NOISY BROOK,GNEISS					WC	C	NBRK 04
IL 361	NOIX,LS (EDGEWOOD GP)							NOIX 05
MO 361	NOIX,LS (EDGEWOOD GP)							NOIX 03
MO 361	NOIX,LS [BED] (CYRENE MBR OF EDGEWOOD LS)				2	NE	A	NOIX 04
IL 361	NOIX,OOOLITE MBR (EDGEWOOD LS)	U						NOIX 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VA 112	NORFOLK,FM		SD,CL		4	SE	A	NFLK 01
NY 364	NORMANSKILL,FM	U			380	EC	A	NMKL 04
MA 364	NORMANSKILL,SH	U						NMKL 01
NY 364	NORMANSKILL,SH							NMKL 02
VT 364	NORMANSKILL,SH	U						NMKL 03
AL 221	NORPHLET,FM	U						NRPL 01
AR 221	NORPHLET,FM	U						NRPL 01
LA 221	NORPHLET,FM	U	CL,SD		46	SC	C	NRPL 04
MS 221	NORPHLET,FM	U						NRPL 05
TX 221	NORPHLET,FM	U						NRPL 06
MI 430	NORRIE,MBR (IRONWOOD IRON-FORMATION)	U			70	NW	A	NORR 01
WI 430	NORRIE,MBR (IRONWOOD IRON-FORMATION)	U						NORR 02
MT 101	[NORRIS,BASALT]				15	SC	C	NRRS 09
MT 101	/NORRIS,BASIC FLOWS							NRRS 02
ME 112	NORTH ANSON,FM		GVL		21	WC	D	NRAS 01
OH 361	NORTH BEND,TONGUE (FAIRVIEW FM)		SS		4	SW	D	NRBD 01
CA 121	NORTHBRAE,RHYOLITE	U		WH	30	WC	A	NRBR 02
MA 307	NORTHBRIDGE,GRANITE GNEISS	U					C	NBDG 01
RI 307	NORTHBRIDGE,GRANITE GNEISS	U						NBDG 02
VT 377	NORTH BRITAIN,CGL MBR (BULL FM)				6	WC	D	NRBR 03
WA 124	NORTH CRAFT,FM (PUGET GP)	U	VOL		300	WC	C	NRCF 01
MS	NORTH CREEK--SEE NORTH TWISTWOOD CREEK							
NV 111+	NORTH CREEK,FM		CGL		300	EC	C	NRCK 01
NV 112	NORTH CREEK,FM							NRCK 02
WA 207+	NORTH CREEK,VOLCS						NC	D NRCK 03
WA 224	NORTH CREEK,VOLCS							NRCK 04
WA 301	NORTH CREEK,VOLCS							NRCK 05
PA 341	NORTHEAST,SH				140	NW	A	NRTS 04
NY 341	NORTHEAST,SH (CANADAWAY GP)							NRTS 02
NY 341	NORTHEAST,SH MBR (CANADAWAY FM)							NRTS 03
PA 341	NORTHEAST,SH MBR (CANADAWAY FM)							NRTS 05
NY 341	NORTH EVANS,LS (GENESEE GP)					WC	D	NREV 01
VT 354	NORTHFIELD,FM	U			700	C	A	NFLD 01
VT 354	NORTHFIELD,FM (ST. FRANCIS GP)							NFLD 04
VT 354	NORTHFIELD,SLATE	U						NFLD 03
WV 327	NORTH FORK,SH MBR (POCAHONTAS FM)			BK	3	SW	A	NRFK 01
WA 217	NORTH FORK CAMP,GNEISS						NC	E NFKC 01
ME 364	NORTH HAVEN,GREENSTONE	U					SC	A NRHV 01
IA 339	NORTH HILL,FM		LS		6	SE	A	NRHL 01
IA 339	NORTH HILL,GP							NRHL 05

IL	339	NORTH HILL,GP										NRHL	04
IA	339	NORTH HILL,MBR (HAMPTON FM)										NRHL	02
NM	211	NORTH HOGBACK,TONGUE (POINT LOOKOUT SS)	U				20	NW	C			NHBK	01
UT	125+	NORTH HORN,FM	U	SED	VAR		2000	SC	C			NRHR	01
UT	211	NORTH HORN,FM	U									NRHR	02
MD	122	NORTH KEYS,SAND	U		OR		18	C	C			NRKS	01
VA	112	NORTH LANDING,FM			SD,GVL		6	SE	D			NLDG	01
TX	321	NORTH LEON,FM (GRAHAM GP)					1	C	A			NRLN	02
TX	321	NORTH LEON,LS MBR (GRAHAM FM)	U									NRLN	03
MT	101	NORTH MEADOW CREEK,FLOWS									SW	C	NMCK 01
MT	101	[NORTH MEADOW CREEK,LAVA]											NMCK 02
CA	112	NORTH MERCED,GRAVEL					6	C	D			NMCD	01
WI	430	NORTH MOUND,QTZ					150	NC	A			NRMD	04
CO	121+	NORTH PARK,FM	U	ST,SD			610	NC	A			NRPK	01
WY	121+	NORTH PARK,FM	U									NRPK	02
CO	122	NORTH PARK,FM	U									NRPK	03
WY	122	NORTH PARK,FM	U									NRPK	04
WI	344	NORTH POINT,MBR (MILWAUKEE FM)	U	SH,LS			15	SE	A			NRPN	02
WA	374	NORTHPORT,LS	U				910	NE	A			NRPR	01
CA	224	NORTH RIDGE,AGGLOMERATE					61	NW	A			NRDG	02
CA	224	NORTH RIDGE,FM										NRDG	03
MN	420	[NORTH SHORE,GP (KEWEENAWAN SUPERGROUP)]									NE	C	NRSR 04
MN	420	/NORTH SHORE,VOLC GP (KEWEENAWAN SUPERGROUP)	U										NRSR 03
MT	430+	NORTH SNOWY,GP			MET				SC	E		NRSN	02
MT	440	NORTH SNOWY,GP											NRSN 03
MS	124	NORTH TWISTWOOD CREEK,CLAY MBR (YAZOO FM)					12	EC	D			NTCK	06
AL	124	NORTH TWISTWOOD CREEK,MBR (YAZOO CLAY)	U										NTCK 01
MS	124	NORTH TWISTWOOD CREEK,MBR (YAZOO CLAY)	U										NTCK 02
NV	123	NORTHUMBERLAND,TUFF	U				300	C	E			NMBD	01
IN	344	NORTH VERNON,LS (MUSCATATUCK GP)					3	SE	A			NRVR	08
MO	339	NORTHVIEW,FM (CHOUTEAU GP)					27	SC	A			NRTV	04
MO	339	NORTHVIEW,FM (ST. JOE GP)											NRTV 07
MO	339	NORTHVIEW,MBR (CHOUTEAU LS)											NRTV 05
KS	337	NORTHVIEW,SH	U										NRTV 03
MO	339	NORTHVIEW,SH	U										NRTV 06
KS	337	NORTHVIEW,SH MBR (CHOUTEAU LS)											NRTV 02
PA	341	NORTH WARREN,SH MBR (CATTARAUGUS FM)					6	NW	A			NRWR	01
PA	341	NORTH WARREN,SH MBR (VENANGO FM)											NRWR 02
SD	430	NORTHWESTERN,FM			SCH	GN	670	WC	A			NRSR	01
VA	324+	NORTON,FM	U	SH,SS			400	SW	A			NRTN	02

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VA	327	NORTON,FM	U						NRTN 05
NY	367	NORTON,MBR (TRIBES HILL LS)				14	NE	C	NRTN 07
KS	112	NORTONVILLE,CLAY				14	NE	E	NRVL 03
CA	124	NORTONVILLE,SH				91	WC	C	NRVL 01
CA	124	NORTONVILLE,SH MBR (KREYENHAGEN FM)	U						NRVL 02
MN	371	NORWALK,MBR (JORDAN SS)							NRLK 01
WI	371	NORWALK,MBR (JORDAN SS)	U			11	SC	A	NRLK 02
NH	341	NORWAY,QUARTZ MONZONITE (NEW HAMPSHIRE GP)					EC	C	NRWY 01
MI	344	NORWAY POINT,FM (TRAVERSE GP)	U	LS		14	EC	A	NRPN 01
MI	344	NORWOOD,SH					EC	C	NRWD 05
UT	123+	NORWOOD,TUFF	U			610	NC	C	NRWD 01
WY	123+	NORWOOD,TUFF							NRWD 06
UT	124	NORWOOD,TUFF	U						NRWD 03
WY	124	NORWOOD,TUFF							NRWD 07
CA	310	NOSONI,FM	U	VSED		1900	NW	A	NOSN 01
CA	310	NOSONI,FM (BOLLIBOKKA GP)							NOSN 02
NY	400	NOTCH,QTZ				61	EC	E	NTCH 01
NV	367+	NOTCH PEAK,FM	U						NCPK 03
UT	367+	NOTCH PEAK,FM	U	LS		580	WC	A	NCPK 04
NV	371	NOTCH PEAK,FM	U						NCPK 01
UT	371	NOTCH PEAK,FM	U						NCPK 02
GA	377	NOTTELY,QTZ	U						NTTL 07
NC	377	NOTTELY,QTZ	U			>45	SW	A	NTTL 08
TN	377	NOTTELY,QTZ	U						NTTL 09
ID	371+	NOUNAN,DOL	U			270	SE	A	NUNN 02
UT	371+	NOUNAN,DOL							NUNN 04
ID	374	NOUNAN,DOL	U						NUNN 06
UT	374	NOUNAN,DOL							NUNN 08
ID	371+	NOUNAN,LS	U						NUNN 03
UT	371+	NOUNAN,LS	U						NUNN 05
ID	374	NOUNAN,LS	U						NUNN 07
UT	374	NOUNAN,LS	U						NUNN 09
CA	121+	NOVA,FM		CGL		910	EC	C	NOVA 01
CA	122	NOVA,FM							NOVA 02
CA	210	NOVATO,CGL	U			400	WC	C	NOVT 01
NY	364	NOWADAGA,MBR (UTICA SH)				61	C	A	NWDG 01
IA	325	NOWATA,SH (MARMATON GP)	U						NOWT 01
KS	325	NOWATA,SH (MARMATON GP)	U						NOWT 02
MO	325	NOWATA,SH (MARMATON GP)	U						NOWT 03
OK	325	NOWATA,SH (MARMATON GP)	U			180	NE	A	NOWT 04

OK	323	NOXIE,MBR (CHANUTE FM)				18	NE	C	NOXI	02
KS	323	NOXIE,SS LENTIL (CHANUTE SH)							NOXI	01
KS	323	NOXIE,SS MBR (CHANUTE SH)							NOXI	04
MS	124	NOXUBEE,SAND				140	EC	C	NXUB	01
ME	354	NOYES MOUNTAIN,FM (BUCKFIELD GP)			GN	240	SW	D	NSMN	01
LA	219	NUEVO LEON,GP			SED		MEX	D	NVLN	03
TX	219	NUEVO LEON,GP							NVLN	02
CO	220+	NUGGET,SS			U				NGGT	01
ID	220+	NUGGET,SS			U				NGGT	02
UT	220+	NUGGET,SS			U				NGGT	03
WY	220+	NUGGET,SS			U	580	SW	A	NGGT	04
CO	231	NUGGET,SS			U				NGGT	05
ID	231	NUGGET,SS			U				NGGT	06
UT	231	NUGGET,SS			U				NGGT	07
WY	231	NUGGET,SS			U				NGGT	08
AK	310+	NUKA,FM			U	2000	NC	D	NUKA	01
AK	331	NUKA,FM			U				NUKA	04
AK	211+	NULATO,FM			U	910	C	A	NULT	01
AK	217	NULATO,FM			U				NULT	02
VT	340	NULHEGAN,QUARTZ MONZONITE (NEW HAMPSHIRE GP)					NW	C	NLGN	01
NY	341	NUNDA,FM (WEST FALLS GP)				66	WC	A	NUND	04
NY	341	NUNDA,SS							NUND	01
PA	341	NUNDA,SS (WEST FALLS GP)							NUND	03
NY	341	NUNDA,SS MBR (WEST FALLS FM)			U				NUND	02
NM	337	NUNN,MBR (LAKE VALLEY LS)			U	30	SW	C	NUNN	01
AK	121+	NUSHAGAK,FM			U			C	NSGK	01
AK	122	NUSHAGAK,FM			U				NSGK	02
CO	112	NUSSBAUM,ALLUVIUM			U			SC	NSBM	01
VA	327	NUTTALL,SS MBR (NEW RIVER FM)			U				NTTL	02
WV	327	NUTTALL,SS MBR (NEW RIVER FM)			U	34	SW	A	NTTL	05
IL	339	NUTWOOD,MBR (HANNIBAL SH)				12	WC	C	NTWD	01
HI	112	NUUANU,VOLCS (HONOLULU GP)			U	22	NC	A	NUUN	01
AK	121+	NUWOK,MBR (SAGAVANIRKTOK FM)			U	81	NE	C	NUWK	01
AK	122	NUWOK,MBR (SAGAVANIRKTOK FM)			U				NUWK	02
OR	122	NYE,MUOSTONE			U	760	WC	A	NYE	01
OR	122	NYE,SH							NYE	02
ME	357	OAK BAY,FM				400	CAN	D	OKBY	01
NM	211+	OAK CANYON,MBR (DAKOTA SS)			U	22	WC	E	OKCN	01
NM	217	OAK CANYON,MBR (DAKOTA SS)			U				OKCN	02
AZ	321	OAK CREEK,MBR (SUPAI FM)						EC	OKCK	04

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 120	/OAK CREEK, QUARTZ LATITE TUFF				460	SW	C	OKCK 01
CO 211	/OAK CREEK, SS [MBR] (ILES FM)				30	NW	C	OKCK 03
CT 340+	OAKDALE, QTZ	U						OKDL 01
MA 340+	OAKDALE, QTZ	U				NC	A	OKDL 02
NH 340+	OAKDALE, QTZ	U						OKDL 03
CT 350	OAKDALE, QTZ	U						OKDL 04
MA 350	OAKDALE, QTZ	U						OKDL 05
NH 350	OAKDALE, QTZ	U						OKDL 06
NY 354	OAKFIELD, DOL				10	WC	C	OKFD 01
NY 354	OAKFIELD, LS							OKFD 02
CA 211	OAK FLAT, FM (PANOCHÉ GP)		MS		2600	C	D	OKFL 01
IL 325	OAK GROVE, LS MBR (CARBONDALE FM)				6	C	A	OKGV 03
FL 122	OAK GROVE, SAND (ALUM BLUFF GP)				1	NW	A	OKGV 01
FL 122	OAK GROVE, SAND MBR (SHOAL RIVER FM)	U						OKGV 02
PA 364	OAK HALL, MBR (BENNER FM)				18	C	C	OKHL 06
PA 364	OAK HALL, MBR (LINDEN HALL FM)							OKHL 04
PA 364	OAK HALL, MBR (NEALMONT LS)							OKHL 03
OH 324	OAK HILL, CLAY MBR (ALLEGHENY FM)				4	SC	A	OKHL 02
AL 125	OAK HILL, MBR (NAHEOLA FM)	U	EL		38	WC	C	OKHL 01
VT 377	OAK HILL, SLATE MBR (BRIDGEMAN HILL FM)					CAN	A	OKHL 05
CA 211	OAKLAND, CGL	U			150	WC	A	OKLD 01
CA 211	OAKLAND, CGL MBR (CHICO FM)	U						OKLD 02
IL 112	OAKLAND, TILL MBR (WEDRON FM)				10	EC	E	OKLD 03
MO 400	OAK MOUNTAIN, FELSITE (MIDDLEBROOK GP)				150	SE	D	OKMN 01
NY 354	OAK ORCHARD, DOL (LOCKPORT GP)				3	WC	C	OKOC 01
NY 354	OAK ORCHARD, MBR (LOCKPORT FM)							OKOC 02
ME 341	OAK POINT, GRANITE					SE	D	OKPN 01
CA 220	OAKRIDGE, SS					WC	A	OKDG 01
KS 317	OAKS, BED (HAMLIN MBR OF JANESVILLE SH)	U						OAKS 02
KS 317	OAKS, MBR (HAMLIN SH)							OAKS 01
NE 317	OAKS, MBR (HAMLIN SH)					SE	A	OAKS 03
AZ 317	OAK SPRINGS, MBR (DE CHELLY SS)			RD	39	NE	D	OKSP 01
TX 122	OAKVILLE, FM (FLEMING GP)				180	SC	A	OKVL 01
TX 122	OAKVILLE, SS	U						OKVL 02
NY 351	OATKA, SH (BERTIE GP)				6	WC	A	OATK 01
NY 351	OATKA, WATERLIME (BERTIE GP)							OATK 02
NY 344	OATKA CREEK, MBR (MARCELLUS SH)			BK	9	WC	A	OKCK 05
NY 344	OATKA CREEK, SH (HAMILTON GP)							OKCK 06
NY 344	OATKA CREEK, SH MBR (MARCELLUS FM)							OKCK 07
AZ 101+	OATMAN, ANDESITE	U			820	WC	A	OTMN 01





GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MN	440	ODESSA,GRANITE					SW	D	ODSS 01
IL	357	OFFERMAN,MBR (KANKAKEE FM)		DOL		16	NE	E	OFRM 01
OR	224	OFFICER,MBR (TROWBRIDGE SH)		VSED		150	C	D	OFCR 01
CO	122	OGALLALA,FM	U						OGLL 09
KS	122	OGALLALA,FM	U						OGLL 02
NE	122	OGALLALA,FM	U	LS		91	WC	A	OGLL 03
NM	122	OGALLALA,FM	U						OGLL 05
OK	122	OGALLALA,FM	U						OGLL 06
SD	122	OGALLALA,FM	U						OGLL 07
TX	122	OGALLALA,FM	U						OGLL 08
WY	122	OGALLALA,FM	U						OGLL 10
CO	122	OGALLALA,GP							OGLL 12
NE	122	OGALLALA,GP							OGLL 04
SD	122	OGALLALA,GP							OGLL 15
TX	122	OGALLALA,GP							OGLL 13
WY	122	OGALLALA,GP							OGLL 14
OH	324	OGAN,CLAY [BED] (ALLEGHENY FM)				<1	SC	A	OGAN 01
OH	324	OGAN,SH MBR (ALLEGHENY FM)				9	SC	C	OGAN 02
NY	367	OGDENSBURG,DOL (BEEKMANTOWN GP)				37	NC	A	OGBG 03
WI	112	OGLE,TILL							OGLE 03
IL	112	OGLE,TILL MBR (GLASFORD FM)				6	NC	E	OGLE 02
WI	112	OGLE,TILL MBR (GLASFORD FM)							OGLE 04
VA	367	OGLESBY,MARBLE MBR (NITTANY DOL)				35	SW	C	OGLB 02
IL	364	OGLESBY,MBR (PECATONICA FM)		LS			NE	C	OGLB 01
MO	364	OGLESBY,MBR (PECATONICA FM)							OGLB 03
GA	410	OGLETHORPE,FM (OCOEE SUPERGROUP)		MSED			NW	C	OGLP 01
CA	211	OGO,MBR (BUDDEN CANYON FM)		SS		3000	NW	D	OGO 01
MI	361	OGONTZ,MBR (STONINGTON FM)		LS		6	C	A	OGNZ 01
AK	221	OGOTORUK,FM	U	MS		1500	NC	D	OGRK 01
WA	123	OHANAPECOSH,FM	U	VOL		3000	C	D	OPCS 01
HI	112	OHIA,BASALT (HANA GP)	U				EC	C	OHIA 01
KY	341	OHIO,SH	U						OHIO 01
OH	341	OHIO,SH	U		BK	97	C	A	OHIO 02
CO	125	OHIO CREEK,FM	U	CGL		61	WC	A	OCRK 02
CA	121	OHLSON RANCH,FM		SS		91	NW	C	OLRC 01
OK	364	OIL CREEK,FM (SIMPSON GP)	U	DOL		700	SE	A	OLCK 04
TX	364	OIL CREEK,FM (SIMPSON GP)							OLCK 08
TX	212	OJINAGA,FM		SED		700	MEX	D	OJNG 03
CO	123	OJITO CREEK,MBR (TREASURE MOUNTAIN TUFF)	U			20	SC	E	OJCK 01
NM	125	OJO ALAMO,FM				22	NW	A	OJAM 04



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WA	124	OLEQUA CREEK, MBR (COWLITZ FM)		SED		760	SW	C	QCKK 01
VA	337	/OLINGER, GRAY SH MBR (CHATTANOOGA SH)				17	SW	A	OLGR 02
VA	337	[OLINGER, MBR (CHATTANOOGA SH)]							OLGR 03
KY	327	OLIVE HILL, CLAY BED (BREATHITT FM)					NE	A	OLVH 03
KY	327	OLIVE HILL, CLAY BED (LEE FM)							OLVH 01
TN	347	/OLIVE HILL, FM (LINDEN GP)	U	SED		46	SW	A	OLVH 02
NH	341+	[OLIVERIAN, GP]					C	A	OLVR 09
NH	344	[OLIVERIAN, GP]							OLVR 10
ME	341+	[OLIVERIAN, GRANITE]							OLVR 11
VT	341+	[OLIVERIAN, GRANITE]							OLVR 07
ME	344	[OLIVERIAN, GRANITE]							OLVR 12
VT	344	[OLIVERIAN, GRANITE]							OLVR 08
ME	341+	/OLIVERIAN, PLUTONIC SER							OLVR 05
NH	341+	/OLIVERIAN, PLUTONIC SER	U						OLVR 01
VT	341+	/OLIVERIAN, PLUTONIC SER							OLVR 02
ME	344	/OLIVERIAN, PLUTONIC SER							OLVR 06
NH	344	/OLIVERIAN, PLUTONIC SER	U						OLVR 03
VT	344	/OLIVERIAN, PLUTONIC SER							OLVR 04
TX	212	OLMOS, FM (NAVARRO GP)	U	CL		140	SC	A	OLMS 02
NY	347	OLNEY, LS (HELDERBERG GP)				10	C	A	OLNY 02
NY	347	OLNEY, MBR (MANLIUS LS)	U						OLNY 01
HI	121	OLOKELE, FM (WAIMEA CANYON GP)	U	VOL		800	NW	C	OLKL 01
NE	217	OMADI, SS (DAKOTA GP)				45	NE	C	OMDI 01
DE	112	OMAR, FM (COLUMBIA GP)		SD		14	SE	D	OMAR 01
IL	323	OMEGA, LS MBR (MATTOON FM)				3	SC	A	OMEG 01
LA	124	/OMEN, GLAUCONITIC SS MBR (QUEEN CITY FM)							OMEN 03
TX	124	/OMEN, GLAUCONITIC SS MBR (QUEEN CITY FM)				5	EC	A	OMEN 04
LA	124	[OMEN, SS MBR (QUEEN CITY FM)]							OMEN 01
TX	124	[OMEN, SS MBR (QUEEN CITY FM)]							OMEN 02
KS	317	ONAGA, SH (ADMIRE GP)	U			43	NE	C	ONAG 01
NE	317	ONAGA, SH (ADMIRE GP)	U						ONAG 02
TX	122	ONALASKA, MBR (CATAHOULA FM)		SH			EC	A	OLSK 01
NM	344	ONATE, FM	U	SH		26	SC	C	ONTE 01
ME	340	ONAWA, GRANITE					C	C	ONAW 01
NY	354	ONEIDA, CGL (CLINTON GP)	U			30	C	A	ONID 01
NV	231	O'NEILL, FM (AULD LANG SYNE GP)	U	QTZ		610	NC	C	ONLL 01
NY	341	ONEONTA, FM (GENESEE GP)					C	A	ONNT 02
NY	341	ONEONTA, SS	U						ONNT 01
IA	367	ONEOTA, DOL (PRAIRIE DU CHIEN GP)	U			91	NE	A	ONOT 01
IL	367	ONEOTA, DOL (PRAIRIE DU CHIEN GP)	U						ONOT 02

MI	367	ONEOTA,DOL (PRAIRIE DU CHIEN GP)	U																	ONOT	03	
MN	367	ONEOTA,DOL (PRAIRIE DU CHIEN GP)	U																		ONOT	04
WI	367	ONEOTA,DOL (PRAIRIE DU CHIEN GP)	U																		ONOT	06
TX	112	ONION CREEK,MARL																			OCRK	01
KS	323	ONION CREEK,SS [LENTIL] (ROCK LAKE MBR OF STANTON FM)																			OCRK	04
PA	344	ONONDAGA,FM	U																		ONDG	10
VA	344	ONONDAGA,FM																			ONDG	07
PA	344	ONONDAGA,GP																			ONDG	08
MD	344	ONONDAGA,LS	U																		ONDG	01
NJ	344	ONONDAGA,LS																			ONDG	09
NY	344	ONONDAGA,LS	U																		ONDG	02
PA	344	ONONDAGA,LS	U																		ONDG	04
VA	344	ONONDAGA,LS	U																		ONDG	05
WV	344	ONONDAGA,LS	U																		ONDG	06
PA	367	ONTELAUNEE,FM (BEEKMANTOWN GP)	U																		ONLN	01
NY	341	ONTEORA,FM	U																		ONTR	02
OK	325	OOLOGAH,LS (MARMATON GP)	U																		OLGH	01
TN	364	OOLTEWAH,FM																			OLTH	02
CA	122+	OPAL MOUNTAIN,MBR (PICKHANDLE FM)	U																		OPLM	01
CA	123	OPAL MOUNTAIN,MBR (PICKHANDLE FM)	U																		OPLM	02
IL	323	OPDYKE,COAL MBR (MATTOON FM)																			OPDK	01
SD	317	OPECHE,FM	U																		OPCH	04
WY	317	OPECHE,FM	U																		OPCH	05
MT	317	OPECHE,SH	U																		OPCH	01
ND	317	OPECHE,SH	U																		OPCH	02
NE	317	OPECHE,SH	U																		OPCH	03
SD	317	OPECHE,SH	U																		OPCH	08
WY	317	OPECHE,SH	U																		OPCH	06
WY	317	OPECHE,SH MBR (GOOSE EGG FM)	U																		OPCH	07
AL	307	OPELIKA,COMPLEX																			OPLK	01
GA	307	OPELIKA,COMPLEX																			OPLK	02
WY	371	OPEN DOOR,LS (GALLATIN GP)																			OPDR	01
WY	371	OPEN DOOR,MBR (GALLATIN LS)																			OPDR	02
UT	371	OPEX,FM	U																		OPEX	01
UT	374	OPHIR,FM	U																		OPHR	01
UT	374	OPHIR,SH	U																		OPHR	02
UT	367	OPHONGA,LS	U																		OPNG	01
AR	212	OPPELO,BRECCIA																			OPPL	02
ID	317+	OQUIRRH,FM	U																		OQRR	08
UT	317+	OQUIRRH,FM	U																		OQRR	01

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ID	321	OQUIRRH,FM	U						OQRR 07
UT	320	OQUIRRH,FM	U						OQRR 03
ID	324	OQUIRRH,FM	U						OQRR 09
UT	331	OQUIRRH,FM	U						OQRR 05
UT	317+	OQUIRRH,GP	U						OQRR 02
UT	320	OQUIRRH,GP	U						OQRR 04
UT	331	OQUIRRH,GP	U						OQRR 06
AZ	420	ORACLE,GRANITE					SE C		ORCL 01
TX	321	ORAN,SS (STRAWN GP)				16	C A		ORAN 01
PA	364	ORANDA,FM							ORND 03
VA	364	ORANDA,FM		LS		9	NC C		ORND 04
WV	364	ORANDA,FM (TRENTON GP)							ORND 05
CT	360	ORANGE,FM					SC A		ORNG 04
VT	340	ORANGE,GRANITE					C A		ORNG 03
CT	360	ORANGE,PHYLLITE							ORNG 05
SC	124	ORANGEBURG,GP	U	SD,CL			SC A		ORNG 04
OH	337	ORANGEVILLE,SH (CUYAHOGA GP)	U			23	NE A		OGVL 01
PA	337	ORANGEVILLE,SH (CUYAHOGA GP)	U						OGVL 03
OH	337	ORANGEVILLE,SH MBR (CUYAHOGA FM)							OGVL 02
PA	337	ORANGEVILLE,SH MBR (CUYAHOGA FM)							OGVL 04
AK	125	[ORCA,FM]		ARK		4900	EC A		ORCA 02
AK	125	/ORCA,GP	U						ORCA 01
WA	341+	[ORCAS,FM]		CH		3000	NW A		ORCS 05
WA	344	[ORCAS,FM]							ORCS 06
WA	341+	/ORCAS,GP							ORCS 03
WA	344	/ORCAS,GP							ORCS 04
IL	361	ORCHARD CREEK,MBR (SCALES SH)				7	SC A		ORCC 01
IL	361	ORCHARD CREEK,SH	U						ORCC 05
MO	361	ORCHARD CREEK,SH	U						ORCC 03
WA	123	ORCHARD POINT,CGL MBR (BLAKELEY FM)				260	NW C		ORCD 02
CA	112	ORCUTT,FM	U			15	SC A		ORCT 01
CA	112	ORCUTT,SAND	U						ORCT 02
CA	230	ORD MOUNTAIN,VOLCS					SE C		ORDM 01
OK	331	ORDNANCE PLANT,MBR (MOOREFIELD FM)		STS		11	NE C		ODCP 01
IA	322	OREAD,LS	U						ORED 01
KS	322	OREAD,LS (SHAWNEE GP)	U			3	EC A		ORED 02
MO	322	OREAD,LS (SHAWNEE GP)	U						ORED 03
NE	322	OREAD,LS (SHAWNEE GP)	U						ORED 04
KS	322	OREAD,LS MBR (VAMOOSA FM)							ORED 06
OK	322	OREAD,LS MBR (VAMOOSA FM)	U						ORED 05

ID	121	OREANA,FM				SD			SW	D	OREN	01	
NV	227+	OREANA PEAK,FM				VSED		1800	WC	D	ORPK	01	
NV	231	OREANA PEAK,FM									ORPK	02	
KY	364	OREGON,DOL (HIGH BRIDGE GP)			U			8	C	A	ORGN	05	
KY	364	OREGON,FM (HIGH BRIDGE GP)			U						ORGN	06	
KY	364	OREGON,LS (HIGH BRIDGE GP)			U						ORGN	07	
CA	221	OREGON CITY,FM				MVOL		980	NW	D	ORGC	01	
OH	361	OREGONIA,MBR (ARNHEIM FM)				SED		8	SW	A	ORGN	04	
PA	371	ORE HILL,LS MBR (GATESBURG FM)			U			30	SC	A	ORHL	01	
NM	123	OREJON,ANDESITE								SC	A	ORJN	01
NE	123	ORELLA,MBR (BRULE FM)				CL		46	NW	C	ORLL	01	
WY	123	ORELLA,MBR (BRULE FM)									ORLL	02	
CA	211	ORESTIMBA,GP				SS		1500	WC	C	ORMB	01	
SD	430	OREVILLE,FM			U	SCH		3000	WC	E	ORVL	02	
NH	364	ORFORDVILLE,FM			U	SCH	BK	1500	WC	C	OFDV	01	
VT	364	ORFORDVILLE,FM			U						OFDV	02	
NM	123	ORGAN MOUNTAINS,QUARTZ MONZONITE								SC	D	ORGM	01
UT	317	ORGAN ROCK,FM				SH	RD	170	SE	A	OGRK	06	
AZ	317	ORGAN ROCK,MBR (CUTLER FM)			U						OGRK	02	
UT	317	ORGAN ROCK,MBR (CUTLER FM)			U						OGRK	04	
NM	318	ORGAN ROCK,SH TONGUE (CUTLER FM)									OGRK	07	
AZ	317	ORGAN ROCK,TONGUE (CUTLER FM)			U						OGRK	03	
UT	317	ORGAN ROCK,TONGUE (CUTLER FM)			U						OGRK	05	
WA	400	ORIENT,GNEISS								NE	A	ORNT	03
UT	120	ORIENT,GRANITE PORPHYRY								C	C	ORNT	01
MI	420	ORIENTA,SS (BAYFIELD GP)			U						ORNT	07	
WI	420	ORIENTA,SS (BAYFIELD GP)			U			970	NW	A	ORNT	04	
CA	122	ORINDA,FM (CONTRA COSTA GP)			U	SED		730	WC	A	ORND	02	
MD	347	ORISKANY,FM			U						ORSK	01	
NJ	347	ORISKANY,FM			U						ORSK	02	
PA	347	ORISKANY,FM			U						ORSK	04	
MD	347	ORISKANY,GP			U						ORSK	11	
PA	347	ORISKANY,GP			U						ORSK	05	
TN	347	ORISKANY,MBR (WILDCAT VALLEY SS)									ORSK	12	
MD	347	ORISKANY,SS			U						ORSK	15	
NY	347	ORISKANY,SS			U		WH	9	C	A	ORSK	03	
OH	347	ORISKANY,SS									ORSK	14	
PA	347	ORISKANY,SS			U						ORSK	06	
VA	347	ORISKANY,SS			U						ORSK	07	
WV	347	ORISKANY,SS			U						ORSK	09	

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	347	ORISKANY,SS (TRISTATES GP)							ORSK 13
NY	347	ORISKANY FALLS,MBR (ORISKANY SS)				6	C	C	OKFL 02
OR	122	ORLANO SPRING,MBR (DEER BUTTE FM)		VSED		75	SE	D	OSPG 02
VT	360	ORLEANS,PHYLLITE					NE	A	ORLS 01
SD	211	ORMAN LAKE,LS BED (BELLE FOURCHE MBR OF GRANEROS SH)				10	WC	C	OMLK 03
WY	211	ORMAN LAKE,LS BED (BELLE FOURCHE MBR OF GRANEROS SH)						C	OMLK 01
SD	211	ORMAN LAKE,LS MBR (GREENHORN FM)	U						OMLK 02
WY	211	ORMAN LAKE,MBR (GREENHORN LS)	U						OMLK 04
AZ	210	ORO BLANCO,CGL					SE	C	OBLC 01
CA	107	OROCOPIA,SCHIST					SE	C	ORCP 01
ID	420	[OROFINO,FM (BELT SUPERGROUP)]		MET			WC	A	ORFN 02
ID	420	[OROFINO,SER (BELT SUPERGROUP)]							ORFN 01
ID	122	[OROFINO CREEK,INTERBEDS (COLUMBIA RIVER BASALT)]		CST		30	WC	D	DFCK 02
ID	122	[OROFINO CREEK,MBR (COLUMBIA RIVER BASALT)]							DFCK 01
CA	300+	ORO GRANDE,FM	U	MSED		750	SE	A	ORGD 01
CA	410	ORO GRANDE,FM	U						ORGD 02
CA	121	ORO LOMA,FM		ST	RD	91	C	C	ORLM 01
VA	370+	ORONOCO,FM		MSED				C	ORNC 01
VA	400	ORONOCO,FM							ORNC 02
CT	360	ORONOQUE,MBR (DERBY HILL SCHIST)	U				SW	D	ORNQ 01
CT	360	ORONOQUE,MBR (ORANGE FM)							ORNQ 02
MI	420	ORONTO,GP (KEWEENAWAN SUPERGROUP)	U						ORNT 06
MN	420	ORONTO,GP (KEWEENAWAN SUPERGROUP)							ORNT 08
WI	420	ORONTO,GP (KEWEENAWAN SUPERGROUP)	U	CGL		4100	NC	A	ORNT 05
UT	371	ORR,FM	U	LS		390	WC	A	ORR 01
TX	218	ORR RANCH,BED (SEGOVIA FM)		LS		2	C	E	ORRC 02
NY	347+	ORRS MILLS,MBR (RONDOUT FM)		SED			SE	D	ORML 02
NY	351	ORRS MILLS,MBR (RONDOUT FM)							ORML 01
NM	400	ORTEGA,QTZ				2000	NC	C	ORTG 02
CA	211	ORTIGALITA,SS MBR (CIERVO SH)				170	C	C	ORGL 01
CA	211	ORTIGALITA CREEK,CGL MBR (PANOCHÉ FM)						C	OGCK 01
WA	112	ORTING,DRIFT	U			43	WC	A	ORNG 01
SD	112	ORTON,GRAVEL						C	ORTN 01
MN	440	ORTONVILLE,GRANITE (MINNESOTA VALLEY GP)					SW	C	ORVL 03
NY	364	ORWELL,LS (BLACK RIVER GP)							ORLL 04
VT	364	ORWELL,LS (BLACK RIVER GP)							ORLL 05
VT	364	ORWELL,LS (CHAZY GP)							ORLL 06
VT	364	ORWELL,LS (TRENTON GP)	U						ORLL 03
WY	217	OSAGE,LENS (NEWCASTLE SS)				21	NE	C	OSGE 01
OK	321	OSCAR,FM	U			91	SC	A	OSCR 02

OK	321	OSCAR,GP								OSCR	03
OK	321	OSCAR,SS								OSCR	01
MI	420	OSCEOLA,AMYGDALOID (PORTAGE LAKE VOLCS)	U					NW	A	OSCL	04
NV	410	OSCEOLA,ARGILLITE (MCCOY CREEK GP)						240	NE	D	OSCL 03
WA	111	OSCEOLA,MUDFLOW	U					23	C	C	OSCL 01
KY	354	OSGOOD,FM	U								OSGD 03
TN	354	OSGOOD,FM (WAYNE GP)									OSGD 09
TN	354	OSGOOD,LS (WAYNE GP)									OSGD 12
TN	354	OSGOOD,LS MBR (WAYNE FM)	U								OSGD 10
IN	354	OSGOOD,MBR (SALAMONIE DOL)						8	EC	A	OSGD 11
IN	354	OSGOOD,SH	U								OSGD 02
OH	354	OSGOOD,SH	U								OSGD 08
NV	377	OSGOOD MOUNTAIN,QTZ	U					1500	NC	C	OGDM 01
NM	327	OSHA CANYON,FM			LS			17	NC	E	OSCN 02
NM	123	OSIER MOUNTAIN,WELDED TUFF MBR (TREASURE MTN RHYOLITE)						16	NW	C	OSRM 01
UT	122+	OSIRIS,TUFF	U					40	SW	E	OSRS 01
UT	123	OSIRIS,TUFF	U								OSRS 02
IA	322	OSKALOOSA,SH MBR (DEER CREEK LS)	U								OSKL 01
KS	322	OSKALOOSA,SH MBR (DEER CREEK LS)	U					2	NE	A	OSKL 02
MO	322	OSKALOOSA,SH MBR (DEER CREEK LS)	U								OSKL 03
MI	430	OSLER,VOLCS							CAN	A	OSLR 01
CA	122	OSO,MBR (CAPISTRANO FM)	U	SS				460	SC	C	OSO 01
NV	231	OSOBB,FM (AULD LANG SYNE GP)	U	SS				610	NC	C	OSBB 01
CA	122	OSO CANYON,FM	U	SED				1700	SC	D	OSCN 01
CA	220	OSOS,BASALT	U						SC	A	OSOS 01
WA	200	OSOYOS,GRANODIORITE							NE	A	OSYS 02
WY	112	OSPREY,BASALT	U						NW	E	OSPR 01
IA	322	OST,LS MBR (TECUMSEH SH)									OST 01
NE	322	OST,LS MBR (TECUMSEH SH)						1	SE	A	OST 02
MN	211	OSTRANDER,MBR (WINDROW FM)						6	SC	C	ORDR 01
NM	321+	OSWALDO,FM (MAGDALENA GP)	U					140	SW	A	OSLD 01
NM	324	OSWALDO,FM (MAGDALENA GP)	U								OSLD 03
NM	321+	OSWALDO,LS (MAGDALENA GP)	U								OSLD 02
NM	324	OSWALDO,LS (MAGDALENA GP)	U								OSLD 04
NY	341	OSWAYO,FM	U	SH				76	WC	A	OSWY 01
PA	341	OSWAYO,FM	U								OSWY 03
NY	341	OSWAYO,FM (CONEWANGO GP)									OSWY 02
PA	341	OSWAYO,FM (CONEWANGO GP)									OSWY 05
PA	341	OSWAYO,FM (SUSQUEHANNA GP)									OSWY 04
NY	361	OSWEGO,SS	U					30	C	A	OSWG 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA 361	OSWEGO,SS	U						OSWG 03
VA 361	OSWEGO,SS	U						OSWG 04
WV 361	OSWEGO,SS	U						OSWG 05
NY 361	OSWEGO,SS (LORRAINE GP)							OSWG 06
CA 122	OTAY,FM		SS		50	SE	E	OTAY 01
AZ 200	OTERO,GRANITE					SC	D	OTRO 02
NM 318	OTERO MESA,MBR (YESO FM)	U	SH	RD	51	SC	C	ORMS 01
IA 344	OTIS,MBR (WAPSIPINICON LS)				9	EC	A	OTIS 01
IL 344	OTIS,MBR (WAPSIPINICON LS)							OTIS 02
NY 344	OTISCO,MBR (LUDLOWVILLE FM)		LS		46	C	C	OTSC 01
NY 354	OTISVILLE,SH				150	SE	A	OSVL 04
NY 354	OTISVILLE,SH MBR (SHAWANGUNK FM)							OSVL 03
KS 322	OTOE,MBR (FRIEDRICH SH)							OTOE 02
NE 322	OTOE,MBR (FRIEDRICH SH)				2	SE	C	OTOE 03
NM 112	OTOWI,MBR (BANDELIER TUFF)	U			66	NC	D	OTOW 02
NY 344	OTSEGO,MBR (MARCELLUS SH)				78	C	A	OTSG 01
NY 344	OTSEGO,SH MBR (MARCELLUS FM)							OTSG 02
NY 341	OTSELIC,FM]				180	C	A	OSLC 02
NY 341	OTSELIC,SH AND SS							OSLC 01
NY 354	OTSQUAGO,SS (CLINTON GP)			RD	<1	C	A	OSQG 01
VT 371+	OTTAUQUECHEE,FM	U	PHL		760	C	A	OTQC 01
VT 374	OTTAUQUECHEE,FM	U						OTQC 03
NV 123+	OTTAWANAH,RHYOLITE	U			3	EC	E	OTTN 02
NV 124	OTTAWANAH,RHYOLITE	U						OTTN 04
NV 331	OTT CREEK,MBR (SCHOONOVER FM)		CH		490	NE	D	OCRK 03
ID 112	OTTER,BASALT					SW	D	OTTR 01
MT 331	OTTER,FM (BIG SNOWY GP)	U	SH		110	C	A	OTTR 02
ND 331	OTTER,FM (BIG SNOWY GP)	U						OTTR 03
WI 400	OTTER CREEK,GRANITE					SC	A	ORCK 07
WY 217	OTTER CREEK,SS MBR (CLOVERLY FM)					NC	C	ORCK 02
VA 231	OTTERDALE,SS (NEWARK GP)				150	SE	A	ORDL 01
OR 217+	OTTER POINT,FM	U	VSED		3000	SW	D	ORPN 02
OR 221	OTTER POINT,FM	U						ORPN 01
OK 328	OTTERVILLE,LS (DORNICK HILLS GP)	U			8	SE	A	ORVL 04
OK 328	OTTERVILLE,LS MBR (GOLF COURSE FM)							ORVL 01
VA 364	OTTOSEE,LS	U						OTTS 04
GA 364	OTTOSEE,SH	U						OTTS 01
TN 364	OTTOSEE,SH (CHICKAMAUGA GP)	U			370	EC	A	OTTS 02
AK 217	OUMALIK,FM	U	SH		1800	NC	C	OMLK 05
AZ 341	OURAY,LS	U						OURY 01

CO	341	OURAY,LS	U		11	SW	A	OURY	02	
NM	341	OURAY,LS	U					OURY	03	
UT	341	OURAY,LS	U					OURY	04	
CA	122	OURSAN,SS (MONTEREY GP)	U		180	WC	A	ORSN	03	
OR	121	OUTERSON,BASALT			910	NW	C	ORSN	01	
OR	121	OUTERSON,FM						ORSN	04	
AZ	217	OUTLAW,FM		SH	610	SE	C	OTLW	01	
TX	318	OVERALL,LS MBR (ADMIRAL FM)	U		12	C	C	OURL	01	
OK	331	OVERBROOK,SS (SPRINGER GP)	U	WH	32	SE	A	OVBK	01	
OK	331	OVERBROOK,SS MBR (GODDARD SH)						OVBK	03	
OK	331	OVERBROOK,SS MBR (SPRINGER FM)						OVBK	02	
OK	323	OVERLOOK,SS MBR (WANN FM)				NE	E	OVLK	01	
NV	107	OVERTON,FANGLOMERATE	U		910	SE	A	OVRN	01	
ID	371	OVID,LS				SE	C	OVID	02	
UT	371	OVID,LS						OVID	04	
OH	351	OVITT ROAD,MBR (TYMOCHTEE FM)		DOL	8	NW	E	OVRD	01	
NY	344	OWASCO,MBR (LUDLOWVILLE FM)		SED	<1	C	A	OWSC	01	
IA	341	OWEN,LS MBR (LIME CREEK FM)			16	NC	A	OWEN	01	
CA	310	OWENS VALLEY,FM	U	LS	550	C	C	OSVL	02	
CA	310	OWENYO,LS MBR (OWENS VALLEY FM)	U		38	C	A	OWNY	01	
CA	122	OWL,CGL MBR (BARSTOW FM)			75	SE	E	OWL	01	
CO	317	OWL CANYON,FM		SH	RD	84	NC	C	OLCN	01
SD	317	OWL CANYON,FM						OLCN	02	
WY	317	OWL CANYON,FM (CASSA GP)						OLCN	03	
IL	211	OWL CREEK,FM	U					OLCK	06	
MO	211	OWL CREEK,FM	U					OLCK	01	
TN	211	OWL CREEK,FM (SELMA GP)	U					OLCK	03	
MS	212	OWL CREEK,FM (SELMA GP)	U	MRL	6	NE	C	OLCK	02	
NY	367	OWL KILL,MBR (POULTNEY FM)		ARG,SL	250	EC	E	OLKL	04	
VT	367	OWL KILL,MBR (POULTNEY FM)						OLKL	05	
CO	112	OWL MOUNTAIN,TILL				NC	C	OLMN	01	
AZ	231	OWL ROCK,MBR (CHINLE FM)	U	STS	40	NE	C	ORCK	03	
NM	231	OWL ROCK,MBR (CHINLE FM)	U					ORCK	04	
UT	231	OWL ROCK,MBR (CHINLE FM)	U					ORCK	05	
NH	341+	OWLS HEAD,GRANITE (OLIVERIAN GP)					C	OLHD	01	
NH	344	OWLS HEAD,GRANITE (OLIVERIAN GP)						OLHD	02	
OR	122	OWYHEE,BASALT	U		460	EC	A	OWYH	03	
NY	351	OWBOW,DOL (BERTIE GP)					C	OWBW	07	
NY	351	OWBOW,DOL MBR (BERTIE FM)						OWBW	08	
WY	121+	OWBOW CREEK,BASALT			6	NW	C	OWBC	01	

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY	122	OXBOW CREEK,BASALT							OXBC 02
AZ	400	OXBOW MOUNTAIN,RHYOLITE				380	EC	C	OXBM 01
NY	367	OXFORD,FM		DOL		73	CAN	B	OXFD 05
CO	112	OXFORD,GRAVEL	U				SW	A	OXFD 01
OH	361	OXFORD,MBR (WHITEWATER FM)		SH,LS			SW	C	OXFD 04
AZ	230	OXFRAME,VOLCS	U			1200	SC	D	OXFM 01
UT	122	OX VALLEY,TUFF				120	SW	C	OXVL 01
NV	344+	OXYOKE CANYON,SS MBR (NEVADA FM)	U			140	EC	C	OXKC 01
NV	347	OXYOKE CANYON,SS MBR (NEVADA FM)	U						OXKC 02
UT	211	OYSTER RIDGE,SS MBR (FRONTIER FM)							ORDG 01
WY	211	OYSTER RIDGE,SS MBR (FRONTIER FM)	U			61	SW	A	ORDG 02
AR	212	OZAN,FM	U	MRL		76	SW	A	OZAN 01
OK	212	OZAN,FM	U						OZAN 02
TX	212	OZAN,FM							OZAN 06
AR	212	OZAN,FM (TAYLOR GP)							OZAN 08
WI	344	OZAUKEE,MBR (LAKE CHURCH FM)		DOL		8	SE	A	OZUK 01
IA	322	OZAWKIE,MBR (DEER CREEK LS)	U						OZWK 01
KS	322	OZAWKIE,MBR (DEER CREEK LS)	U			2	NE	A	OZWK 02
MO	322	OZAWKIE,MBR (DEER CREEK LS)	U						OZWK 03
HI	112	PAAKEA,BASALT (HANA GP)	U			46	EC	C	PAKE 01
NV	237	PABLO,FM	U	GN		1500	C	C	PBLO 01
MI	430	PABST,MBR (TYLER FM)		SL		20	NW	A	PBST 01
WI	430	PABST,MBR (TYLER FM)							PBST 02
CA	211	PACHECO,FM		SH		2400	WC	C	PCHC 01
AZ	217	PACHETA,MBR (LOWELL FM)		LS		30	SE	C	PCHT 03
AL	124	PACHUTA,MARL MBR (YAZOO CLAY)	U						PCHT 01
MS	124	PACHUTA,MARL MBR (YAZOO CLAY)	U			8	EC	C	PCHT 02
MS	124	PACHUTA,MARL MBR (YAZOO FM)							PCHT 04
NM	123	PACIFIC,QUARTZ LATITE	U			210	WC	A	PCFC 03
WY	124	PACIFIC CREEK,TUFF MBR (TROUT PEAK TRACHYANDESITE)	U			24	NW	E	PFCK 03
UT	123	PACKARD,QUARTZ LATITE	U			120	C	C	PCRD 06
AZ	321	PACKARD RANCH,MBR (SUPAI FM)		SS		61	C	C	PCKR 01
PA	341	PACKERTON,MBR (CATSKILL FM)		SS		130	EC	E	PCKR 02
TX	420	PACKSADDLE,FM (LLANO GP)	U			800	C	A	PCKD 07
ID	210	PACKSADDLE MOUNTAIN,GRANODIORITE	U				NW	A	PCKM 01
CA	112+	PACKWOOD,GRAVEL				910	WC	C	PCKD 02
CA	121	PACKWOOD,GRAVEL							PCKD 02
CA	112	PACOIMA,FM		GVL		300	SC	C	PCOM 01
KS	317	PADDOCK,SH MBR (NOLANS LS)	U						PDCK 01
NE	317	PADDOCK,SH MBR (NOLANS LS)	U			4	SE	A	PDCK 02

NM	367	PADRE,FM (EL PASO GP)	U							PDRE	02
TX	367	PADRE,FM (EL PASO GP)	U	LS		120	WC	E		PDRE	01
CA	122	PAGE MILL,BASALT	U			49	WC	D		PGML	01
NV	122	PAGE RANCH,FM								PGRC	02
UT	122	PAGE RANCH,FM								PGRC	01
MT	374	PAGODA,LS	U			110	NW	A		PGOD	02
NM	211	PAGUATE,TONGUE (DAKOTA SS)	U			20	WC	E		PGUT	01
HI	112	PAHALA,ASH [MBR] (KAHUKU BASALT)	U			91	SE	A		PAHL	01
MT	337	PAHASAPA,LS								PHSP	03
SD	337	PAHASAPA,LS	U			150	SW	A		PHSP	01
WY	337	PAHASAPA,LS	U							PHSP	02
NV	122	PAH CANYON,MBR (PAINTBRUSH TUFF)	U			85	SC	D		PCNN	01
NV	123+	PAH RAH,FM		BRC,AND		60	NW	E		PHRH	02
NV	124	PAH RAH,FM								PHRH	01
CA	410+	PAHRUMP,GP	U	SS		200	SE	C		PRMP	01
CA	420	PAHRUMP,GP	U							PRMP	02
ID	337	PAINE,MBR (LODGEPOLE LS)	U							PINE	05
MT	337	PAINE,MBR (LODGEPOLE LS)	U			100	NC	A		PINE	07
WY	337	PAINE,MBR (LODGEPOLE LS)	U							PINE	09
ID	337	PAINE,MBR (MADISON LS)								PINE	06
MT	337	PAINE,MBR (MADISON LS)								PINE	08
WY	337	PAINE,MBR (MADISON LS)								PINE	10
NV	122	PAINTBRUSH,TUFF (PIAPI CANYON GP)	U			43	SC	D		PBR5	01
IL	332	PAINT CREEK,FM	U			24	SW	A		PCRK	30
KY	332	PAINT CREEK,FM	U							PCRK	35
MO	332	PAINT CREEK,FM	U							PCRK	38
IL	332	PAINT CREEK,GP								PCRK	31
KY	332	PAINT CREEK,LS	U							PCRK	44
KY	332	PAINT CREEK,SH	U							PCRK	37
MO	332	PAINT CREEK,SH	U							PCRK	40
CA	121	PAINTED HILL,FM		CGL		1000	SE	C		PDHL	01
CA	122	PAINTED ROCK,SS MBR (VAQUEROS FM)	U			1700	SE	C		PRCK	03
OH	361	PAINT LICK,LS				18	SW	A		PLCK	12
CA	111	PAINT POT CRATER,BASALT						NC		PPCR	01
MI	430	PAINT RIVER,GP (MARQUETTE RANGE SUPERGROUP)	U	SL				NW	C	PRVR	04
WI	430	PAINT RIVER,GP (MARQUETTE RANGE SUPERGROUP)	U							PRVR	05
TX	318	PAINT ROCK,LS (LUEDERS GP)				46	C	A		PRCK	22
NV	112	PAIUTE,FM	U	GVL		12	WC	D		PIUT	01
CA	224	PAIUTE MONUMENT,QUARTZ MONZONITE	U					C		PMNM	01
CA	364	PAIUTE RIDGE,MBR (ANTELOPE VALLEY LS)	U							PRDG	17

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV 364	PAIUTE RIDGE, MBR (ANTELOPE VALLEY LS)	U			110	SC D	D	PRDG 11
AZ 210	/PAJARITO, LAVA					SC C	C	PJRT 01
NM 217	PAJARITO, SH	U			18	NE C	C	PJRT 02
AZ 317	PAKOON, LS				210	NW C	C	PKON 01
UT 317	PAKOON, LS							PKON 02
CA 112	PALA, CGL	U			61	SE A	A	PALA 01
NY 367	PALATINE BRIDGE, MBR (TRIBES HILL LS)				17	C C	C	PBDG 01
KY 332	PALESTINE, MBR (LEITCHFIELD FM)							PLSN 13
IL 332	PALESTINE, SS	U			23	SC A	A	PLSN 06
IN 332	PALESTINE, SS	U						PLSN 08
KY 332	PALESTINE, SS	U						PLSN 10
HI 112	PALI, VOLCS (HONOLULU GP)	U			18	NC A	A	PALI 01
HI 112	/PALIKEA, FM (KOLOA VOLCS)	U			210	NW C	C	PLIK 01
HI 112	[PALIKEA, MBR (KOLOA VOLCS)]							PLIK 02
NJ 231	PALISADE, DIABASE	U			260	NE A	A	PLSD 06
NY 231	PALISADE, DIABASE	U						PLSD 07
MN 420	PALISADE, RHYOLITE (NORTH SHORE GP)				91	EC E	E	PLSD 09
NV 122	PALISADE CANYON, RHYOLITE				150	NE C	C	PLDC 02
OR 111+	PALISADES, ANDESITE					SW C	C	PLSD 01
OR 112	PALISADES, ANDESITE							PLSD 04
AK 112	PALISADES, CGL				46	NC A	A	PLSD 03
ID 120	PALISADES DAM, ANDESITE					SE D	D	PDDM 01
NM 121	PALIZA CANYON, FM (KERES GP)	U	VOL		910	NC E	E	PLZC 01
CA 200+	PALM CANYON, COMPLEX		MSED			SE C	C	PLMC 01
CA 300	PALM CANYON, COMPLEX							PLMC 02
MI 440	PALMER, GNEISS	U				NC A	A	PLMR 01
WA 230+	PALMER MOUNTAIN, GREENSTONE				2000	NC E	E	PLMM 08
WA 310	PALMER MOUNTAIN, GREENSTONE							PLMM 02
PA 344	PALMERTON, SS (ONONDAGA GP)				44	EC C	C	PLMR 05
PA 344	PALMERTON, SS MBR (ONONDAGA LS)							PLMR 06
NV 364+	PALMETTO, FM	U	CH		1500	C A	A	PLMT 03
NV 367	PALMETTO, FM	U						PLMT 04
GA 310	PALMETTO, GRANITE					NW C	C	PLMT 01
NM 124	PALM PARK, FM		CST		300	SW C	C	PMPK 02
MI 430	PALMS, FM (MENOMINEE GP)	U			240	NW A	A	PLMS 06
WI 430	PALMS, FM (MENOMINEE GP)	U						PLMS 07
CA 210	PALMS, GRANITE					SE C	C	PLMS 05
MI 430	PALMS, QTZ (MENOMINEE GP)							PLMS 09
WI 430	PALMS, QTZ (MENOMINEE GP)							PLMS 08
CA 210	PALMS, QUARTZ MONZONITE							PLMS 10

CA	112+	PALM SPRING,FM	U	SS,CL	1500	SE	C	PSPG	04	
CA	121	PALM SPRING,FM	U					PSPG	07	
KS	322	PALMYRA,LS MBR (FRIEDRICH SH)						PLMR	02	
NE	322	PALMYRA,LS MBR (FRIEDRICH SH)			1	SE	C	PLMR	03	
NE	322	PALMYRA,MBR (STOTLER LS)						PLMR	09	
NM	112	PALOMAS,GRAVEL	U		610	SW	A	PLMS	01	
TX	321	PALO PINTO,FM (STRAWN GP)			30		C	PLPN	03	
TX	321	PALO PINTO,LS (CANYON GP)	U					PLPN	01	
TX	321	PALO PINTO,LS (WHITT GP)						PLPN	02	
CA	112	PALOS VERDES,SAND	U		15	SC	A	PLVD	01	
ID	112	PALOUSE,FM	U					PLUS	01	
OR	112	PALOUSE,FM	U					PLUS	02	
WA	112	PALOUSE,FM	U	SD,ST	76	SE	A	PLUS	03	
AR	218	PALUXY,FM (TRINITY GP)	U					PLXY	01	
LA	218	PALUXY,FM (TRINITY GP)	U					PLXY	03	
MS	218	PALUXY,FM (TRINITY GP)	U					PLXY	04	
TX	218	PALUXY,FM (TRINITY GP)	U		30	EC	A	PLXY	06	
OK	218	PALUXY,SAND (TRINITY GP)	U					PLXY	05	
TX	218	PALUXY,SAND (TRINITY GP)	U					PLXY	07	
IL	325	PALZO,SS MBR (SPOON FM)			12	SC	C	PLZO	02	
NY	364	PAMELIA,DOL (BLACK RIVER GP)			46	NC	A	PMLI	02	
NY	364	PAMELIA,FM (BLACK RIVER GP)						PMLI	03	
NY	364	PAMELIA,LS (BLACK RIVER GP)	U					PMLI	01	
FL	112	PAMLICO,FM	U					PMLC	04	
GA	112	PAMLICO,FM						PMLC	06	
DC	112	PAMLICO,FM (COLUMBIA GP)	U					PMLC	02	
NC	112	PAMLICO,FM (COLUMBIA GP)	U		6	EC	A	PMLC	09	
SC	112	PAMLICO,FM (COLUMBIA GP)	U					PMLC	10	
VA	112	PAMLICO,FM (COLUMBIA GP)	U					PMLC	11	
FL	112	PAMLICO,SAND	U					PMLC	05	
CA	220	PAMPA,SCHIST			2400	SC	C	PAMP	01	
MD	124+	PAMUNKEY,GP	U					PMNK	01	
VA	124+	PAMUNKEY,GP	U	SD	46	EC	A	PMNK	02	
MD	125	PAMUNKEY,GP	U					PMNK	03	
VA	125	PAMUNKEY,GP	U					PMNK	04	
NV	121	PANACA,FM	U	SD,CL	430	EC	A	PANC	01	
NY	341	PANAMA,CGL LENTIL (CATTARAUGUS FM)	U		21	WC	A	PANM	03	
PA	341	PANAMA,CGL LENTIL (CATTARAUGUS FM)	U					PANM	04	
CA	400	[PANAMINT,COMPLEX]					EC	A	PNNH	10
CA	400	/PANAMINT,METAMORPHIC COMPLEX							PNNH	06

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV	123	PANCAKE SUMMIT, TUFF				60	EC	E	PKSM 01
CA	121	PANCHO RICO, FM	U	MS			WC	B	PCRC 01
CO	211	PANDO, PORPHYRY	U				C	C	PNDO 01
TX	121	PANHANDLE, FM		SED			NC	A	PNDL 05
HI	121	[PANIAU, BASALT]				390	NW	C	PNIU 02
HI	121	/PANIAU, VOLC SER	U						PNIU 01
CA	211	PANOCHÉ, FM	U	SH, SS		6100	C	A	PNCH 01
CA	211	PANOCHÉ, GP							PNCH 02
GA	300	PANOLA, GRANITE					NW	C	PNOL 02
CA	121	PANORAMA HILLS, FM		GVL		1200	SC	D	PMHL 01
NV	107+	PANSY LEE, CGL	U			150	NC	C	PNSL 01
NV	211	PANSY LEE, CGL	U						PNSL 03
AZ	122+	PANTANO, FM	U	CGL		4200	SC	C	PNTN 01
AZ	123	PANTANO, FM	U						PNTN 02
TX	123	PANTERA, TRACHYTE (GARREN GP)				110	WC	C	PNTR 01
TX	123	PANTERA, TRACHYTE (VIEJA GP)							PNTR 06
WV	327	PANTHER, CGL [MBR] (NEW RIVER FM)				30	SW	A	PNTR 03
WV	327	PANTHER, SS [MBR] (NEW RIVER FM)							PNTR 04
UT	211	PANTHER, TONGUE (STAR POINT SS)	U			38	EC	A	PNTR 02
NV	234	PANTHER CANYON, FM	U	SH, SS		90	NC	C	PNRC 01
WA	217	PANTHER CREEK, FM		SH		1600	NC	E	PRCK 20
NY	344	PANTHER MOUNTAIN, FM (HAMILTON GP)		SH, SS		430	NE	A	PNRM 03
NM	319+	PANTHER SEEP, FM	U	SH, LS		440	SC	C	PRSP 03
NM	321	PANTHER SEEP, FM	U						PRSP 04
IA	323	PAOLA, MBR (IOLA LS)	U						PAOL 01
KS	323	PAOLA, MBR (IOLA LS)	U			<1	SE	A	PAOL 02
MO	323	PAOLA, MBR (IOLA LS)	U						PAOL 03
NE	323	PAOLA, MBR (IOLA LS)	U						PAOL 04
IN	332	PAOLI, LS	U			27	SC	A	POLI 01
KY	332	PAOLI, LS	U						POLI 04
IN	332	PAOLI, LS (BLUE RIVER GP)							POLI 02
IN	332	PAOLI, MBR (RENAULT FM)							POLI 03
CO	211	PAONIA, SH MBR (MESAVERTÉ FM)	U			120	WC	A	PONI 02
AZ	107	PAPAGO, FM		ARG			SC	D	PPGO 01
CA	211	PAPANATAS, CGL MBR (REDIL SH)			RD	290	C	C	PPNS 01
CA	122	PAPÉL BLANCO, SH [MBR] (PUENTE FM)				100	SE	C	PPBC 01
GA	364	PAPERVILLE, FM							PPVL 01
TN	364	PAPERVILLE, FM		SH, STS		1000	NE	C	PPVL 02
VA	364	PAPERVILLE, FM							PPVL 03
ID	410	PAPOOSE CREEK, FM	U	QTZ		180	SE	E	PPCK 06

NV	374	PAPOOSE LAKE,MBR (BONANZA KING FM)	U	LS	820	C	D	PPLK	01
CO	124	PARACHUTE CREEK,MBR (GREEN RIVER FM)	U	SH	300	WC	A	PCCK	03
UT	124	PARACHUTE CREEK,MBR (GREEN RIVER FM)	U					PCKC	05
WA	111	PARADISE,DEBRIS FLOW			5	C	D	PRDS	01
AZ	331	PARADISE,FM	U	LS	41	SE	A	PRDS	04
NM	331	PARADISE,FM	U					PRDS	05
CA	301	PARADISE SPRING,COMPLEX		SED		SE	C	PSPG	09
NV	371	PARADISE VALLEY,CHERT	U		91	NC	D	PDVL	03
CO	324	PARADOX,FM	U	SALT	1500	WC	A	PRDX	02
CO	324	PARADOX,FM (HERMOSA GP)						PRDX	03
NM	324	PARADOX,FM (HERMOSA GP)						PRDX	08
UT	324	PARADOX,FM (HERMOSA GP)						PRDX	06
AZ	324	PARADOX,MBR (HERMOSA FM)	U					PRDX	01
CO	324	PARADOX,MBR (HERMOSA FM)	U					PRDX	04
UT	324	PARADOX,MBR (HERMOSA FM)	U					PRDX	07
AZ	374	PARASHANT,TONGUE (MUAUV LS)		DOL	3	NC	C	PRSN	15
UT	224	PARIA RIVER,MBR (CARMEL FM)		SS	61	SW	E	PRRV	02
CO	234	PARIOTT,MBR (MOENKOPI FM)	U					PRTT	04
UT	234	PARIOTT,MBR (MOENKOPI FM)		SS,MS	41	SE	C	PRTT	05
MT	374	PARK,ARGILLITE			65	C	A	PARK	06
ID	374	PARK,SH	U					PARK	04
MT	374	PARK,SH	U					PARK	07
WY	374	PARK,SH	U					PARK	10
WY	374	PARK,SH (GROS VENTRE GP)						PARK	08
ID	374	PARK,SH MBR (GROS VENTRE FM)						PARK	05
WY	374	PARK,SH MBR (GROS VENTRE FM)	U					PARK	09
NM	120	PARK,TUFF		WH	120	SW	D	PARK	02
CO	311+	PARK CITY,FM	U					PRKC	02
ID	311+	PARK CITY,FM	U					PRKC	03
MT	311+	PARK CITY,FM	U					PRKC	04
UT	311+	PARK CITY,FM	U	LS	180	NC	A	PRKC	06
WY	311+	PARK CITY,FM	U					PRKC	08
CO	317	PARK CITY,FM	U					PRKC	13
ID	317	PARK CITY,FM	U					PRKC	16
MT	317	PARK CITY,FM	U					PRKC	11
UT	317	PARK CITY,FM	U					PRKC	14
WY	317	PARK CITY,FM	U					PRKC	12
NV	311+	PARK CITY,GP	U					PRKC	05
UT	311+	PARK CITY,GP	U					PRKC	07
NV	317	PARK CITY,GP	U					PRKC	10



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT 317	PARK CITY,GP	U						PRKC 15
UT 123	/PARK CITY,VOLCS				350	NC C		PRKC 01
OR 111	[PARK CREEK,BASALT]					C D		PKCK 12
OR 111	/PARK CREEK,FLOW							PKCK 01
IN 321	PARKER,COAL MBR (PATOKA FM)				1	SW A		PRKR 02
CA 230+	PARKER,QUARTZ DIORITE					SC A		PRKR 01
CA 310	PARKER,QUARTZ DIORITE							PRKR 09
VT 377	PARKER,SH				370	NW A		PRKR 07
VT 377	PARKER,SLATE	U						PRKR 08
ME 347	PARKER BOG,FM	U	LS		61	WC D		PKBG 01
AR 331	PARKER HILL,SS MBR (MOYERS FM)				61	SW C		PKHL 04
AR 331	PARKER HILL,SS MBR (STANLEY SH)							PKHL 02
NV 367	PARKER SPRING,FM (POGONIP GP)		LS		270	EC D		PKSP 01
MD 341	PARKHEAD,SS				240	NW A		PRKD 03
MD 341	PARKHEAD,SS MBR (JENNINGS FM)	U						PRKD 04
PA 341	PARKHEAD,SS MBR (JENNINGS FM)							PRKD 06
WV 341	PARKHEAD,SS MBR (SCHERR FM)							PRKD 10
IL 110	PARKLAND,SAND				6	C E		PKLD 01
WY 211	PARKMAN,SS				150	NC A		PRKM 09
MT 211	PARKMAN,SS (MONTANA GP)	U						PRKM 01
MT 211	PARKMAN,SS MBR (CLAGGETT FM)	U						PRKM 02
MT 211	PARKMAN,SS MBR (JUDITH RIVER FM)	U						PRKM 03
WY 211	PARKMAN,SS MBR (JUDITH RIVER FM)	U						PRKM 05
WY 211	PARKMAN,SS MBR (MESAVERDE FM)	U						PRKM 06
TX 324	PARKS,FM (KICKAPOO CREEK GP)		LS,SS		59	C C		PRKS 05
TX 324	PARKS,FM (SMITHWICK GP)							PRKS 06
TX 321	PARKS MOUNTAIN,SS MBR (CHAFFIN FM)				21	C A		PRKM 07
TX 321	PARKS MOUNTAIN,SS MBR (THRIFTY FM)	U						PRKM 08
AL 327+	PARKWOOD,FM	U	SH,SS		610	NC A		PRKD 01
MS 327+	PARKWOOD,FM							PRKD 11
TN 327+	PARKWOOD,FM							PRKD 13
AL 331	PARKWOOD,FM	U						PRKD 02
MS 331	PARKWOOD,FM							PRKD 12
TN 331	PARKWOOD,FM							PRKD 14
UT 217	PARLEYS,MBR (KELVIN FM)	U	LS		30	NC D		PRLS 01
MI 324	PARMA,SS MBR (SAGINAW FM)	U		WH	32	SC A		PARM 01
NY 341	PARRISH,LS BED (CASHAQUA SH MBR OF SONYEA FM)	U			<1	WC A		PRRS 02
VA 330	PARROTT,FM		SS,STS		180	SW D		PRRT 01
MD 112	PARSONSBURG,SAND	U			8	SE C		PRBG 02
MD 112	PARSONSBURG,SAND (COLUMBIA GP)							PRBG 12

CO	341	PARTING,FM (CHAFFEE GP)	U	QTZ		21	C	A	PRNG	06	
WA	112	PARTRIDGE,FM				46	NW	E	PRDG	01	
CT	364	PARTRIDGE,FM							PRDG	15	
MA	364	PARTRIDGE,FM	U						PRDG	07	
ME	364	PARTRIDGE,FM							PRDG	14	
NH	364	PARTRIDGE,FM	U		BK	610	C	A	PRDG	09	
VT	364	PARTRIDGE,FM							PRDG	13	
WA	112	PARTRIDGE,GRAVEL							PRDG	02	
NH	364	PARTRIDGE,SLATE							PRDG	10	
NM	101	[PASAMONTE,BASALT]						NE	C	PSMN	04
NM	101	/PASAMONTE,FLOW								PSMN	01
WA	217	PASAYTEN,FM	U	SH		1800	NC	A	PSTN	03	
AL	122	PASCAGOULA,CLAY	U						PCGL	01	
MS	122	PASCAGOULA,CLAY	U			140	SE	A	PCGL	03	
AL	122	PASCAGOULA,FM							PCGL	05	
LA	122	PASCAGOULA,FM	U						PCGL	02	
MS	122	PASCAGOULA,FM	U						PCGL	04	
CA	112+	PASO ROBLES,FM	U	CL		150	SC	A	PRBL	01	
CA	121	PASO ROBLES,FM	U						PRBL	02	
MD	125	PASPOTANSA,MBR (AQUIA FM)	U						PSPS	01	
VA	125	PASPOTANSA,MBR (AQUIA FM)	U	MRL		14	EC	A	PSPS	02	
NH	227+	PASSACONAWAY,SYENITE (WHITE MOUNTAIN GP)			GN		EC	C	PSCN	01	
NH	231	PASSACONAWAY,SYENITE (WHITE MOUNTAIN GP)							PSCN	02	
ME	400	PASSAGASSAWAKEAG,GNEISS	U			2300	SC	E	PGKG	01	
MT	123	PASSAMARI,FM		SH		40	SW	D	PSMR	01	
CO	321	PASS CREEK,SS				300	SC	C	PCRK	12	
WY	124	PASS PEAK,CGL				150	NW	C	PSPK	01	
WY	124	PASS PEAK,FM							PSPK	02	
AR	124	PASTORIA,SAND MBR (WHITE BLUFF FM)				20	C	C	PSTR	01	
NJ	211+	PATAPSCO,FM	U						PPSC	05	
PA	211+	PATAPSCO,FM							PPSC	06	
NJ	217	PATAPSCO,FM	U						PPSC	10	
PA	217	PATAPSCO,FM							PPSC	11	
DC	211+	PATAPSCO,FM (POTOMAC GP)	U						PPSC	02	
DE	211+	PATAPSCO,FM (POTOMAC GP)							PPSC	03	
MD	211+	PATAPSCO,FM (POTOMAC GP)	U	CL	VAR	61	NC	A	PPSC	04	
DC	217	PATAPSCO,FM (POTOMAC GP)	U						PPSC	07	
DE	217	PATAPSCO,FM (POTOMAC GP)							PPSC	08	
MD	217	PATAPSCO,FM (POTOMAC GP)	U						PPSC	09	
VA	217	PATAPSCO,FM (POTOMAC GP)	U						PPSC	12	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ME	357	PATCH MOUNTAIN,FM (BUCKFIELD GP)		MET		610	SW	D	PCMN 01
IN	321	PATOKA,FM (MCLEANSBORO GP)		SS		90	SW	D	PTOK 02
CA	210	PATRICK,GREENSTONE					NW	A	PRCK 18
AZ	122	PATSY MINE,VOLCS	U			1500	NW	D	PSMN 02
NV	122	PATSY MINE,VOLCS	U						PSMN 03
VA	377	PATTERSON,LS MBR (SHADY DOL)	U			30	SW	A	PRSN 17
MS	357	PATTERSON,SS				15	NE	E	PRSN 19
NV	374	PATTERSON PASS,SH				650	EC	D	PRSP 09
AK	110	PATTERSON POINT,FM	U	ASH		91	SW	C	PRSP 01
OK	361+	PATTERSON RANCH,GP		LS			SE	C	PRRC 01
OK	364	PATTERSON RANCH,GP							PRRC 02
CA	125	PATTIWAY,FM	U	SS		1100	SC	C	PTTY 01
PA	337	PATTON,FM			RD	24	WC	A	PTTN 03
WV	331	/PATTON,LS [MBR] (DENMAR FM)				84	SC	A	PTTN 06
VA	331	/PATTON,MBR (GREENBRIER LS)							PTTN 01
PA	337	PATTON,SH (POCONO GP)							PTTN 04
PA	337	PATTON,SH MBR (POCONO FM)	U						PTTN 05
DC	217	PATUXENT,FM (POTOMAC GP)	U						PTXN 01
DE	217	PATUXENT,FM (POTOMAC GP)							PTXN 02
MD	217	PATUXENT,FM (POTOMAC GP)	U	SD			C	A	PTXN 03
VA	217	PATUXENT,FM (POTOMAC GP)	U						PTXN 04
CA	112	PAUBA,FM		CGL		150	SE	C	PAUB 01
MA	307	PAUCHAUG,GNEISS					NW	D	PCHG 01
CA	122	PAULARINO,MBR (TOPANGA FM)	U	SS		390	SC	C	PLRN 01
OR	112+	PAULINA,BASALT	U			300	SC	D	PULN 01
OR	121	PAULINA,BASALT	U						PULN 02
OR	112	PAULINA PEAK,RHYOLITE				300	C	C	PLPK 01
PA	341	PAUPACK,SS MBR (SHOHOLA FM)				8	NE	A	PPCK 05
HI	112	PAUWALU,BASALT (HANA GP)	U			40	EC	C	PUWL 01
UT	112+	[PAVANT,BASALT]				550	C	C	PVNT 03
UT	121	[PAVANT,BASALT]							PVNT 04
UT	112+	/PAVANT,FLOW	U						PVNT 01
UT	121	/PAVANT,FLOW	U						PVNT 02
AK	224	PAVELOFF,STS MBR (CHINITNA FM)	U			410	C	D	PVLF 02
OK	322	PAWHUSKA,FM	U			30	NE	A	PHSK 01
OK	322	PAWHUSKA,LS	U						PHSK 02
VT	364	PAWLET,FM				91	SW	D	PWLT 01
VT	364	PAWLET,GRAYWACKE							PWLT 02
MO	325	PAWNEE,FM (MARMATON GP)							PWNE 06
IA	325	PAWNEE,LS (MARMATON GP)	U						PWNE 02

KS	325	PAWNEE,LS (MARMATON GP)	U			8	SE	A	PWNE 03
MO	325	PAWNEE,LS (MARMATON GP)	U						PWNE 04
OK	325	PAWNEE,LS (MARMATON GP)							PWNE 01
OK	325	PAWNEE,MBR (OOLOGAH LS)							PWNE 05
CO	122	PAWNEE CREEK,FM		SD		44	NE	A	PCRK 09
OK	218	PAWPAW,FM (WASHITA GP)	U						PWPW 01
TX	218	PAWPAW,FM (WASHITA GP)	U			9	NE	A	PWPW 03
OK	218	PAWPAW,MBR (BOKCHITO FM)							PWPW 09
TX	218	PAWPAW,SH MBR (GEORGETOWN LS)							PWPW 04
NH	227+	PAWTUCKAWAY,COMPLEX (WHITE MOUNTAIN GP)		GAB,SYN			SE	C	PTCK 02
NH	231	PAWTUCKAWAY,COMPLEX (WHITE MOUNTAIN GP)							PTCK 03
CT	357+	PAXTON,QUARTZ SCHIST	U						PXTN 01
MA	357+	PAXTON,QUARTZ SCHIST	U			1000	C	A	PXTN 02
NH	357+	PAXTON,QUARTZ SCHIST	U						PXTN 03
CT	361	PAXTON,QUARTZ SCHIST	U						PXTN 04
MA	361	PAXTON,QUARTZ SCHIST	U						PXTN 05
NH	361	PAXTON,QUARTZ SCHIST	U						PXTN 06
PA	361	PAXTON CREEK,CGL MBR (MARTINSBURG SH)					SC	C	PXCK 01
ID	121+	PAYETTE,FM	U	SS		370	SW	C	PYTT 01
NV	121+	PAYETTE,FM	U						PYTT 02
OR	121+	PAYETTE,FM	U						PYTT 03
UT	121+	PAYETTE,FM	U						PYTT 04
ID	122	PAYETTE,FM	U						PYTT 05
NV	122	PAYETTE,FM	U						PYTT 06
OR	122	PAYETTE,FM	U						PYTT 07
UT	122	PAYETTE,FM	U						PYTT 08
UT	331	PAYMASTER,MBR (GREAT BLUE FM)	U	LS		190	C	D	PMSR 01
CA	211	[PAYNES,FM (PANOCHÉ GP)]				640	C	C	PYNS 01
CA	211	/PAYNES,SH AND SS MBR (PANOCHÉ GP)							PYNS 03
CA	211	[PAYNES,SH MBR (PANOCHÉ FM)]							PYNS 02
CA	111+	PAYNES CREEK,BASALT				21	NW	A	PCRK 02
CA	112	PAYNES CREEK,BASALT							PCRK 04
AL	123	PAYNES HAMMOCK,FM				4	SW	C	PHMK 05
MS	123	PAYNES HAMMOCK,FM	U						PHMK 04
AL	123	PAYNES HAMMOCK,SAND	U						PHMK 01
LA	123	PAYNES HAMMOCK,SAND							PHMK 03
MS	123	PAYNES HAMMOCK,SAND	U						PHMK 02
AZ	400	PAYSON,DIORITE					C	D	PYSN 02
AZ	400	PAYSON,GRANITE							PYSN 03
CA	351	PAYTON RANCH,LS MBR (GAZELLE FM)				57	NW	C	PNRC 02

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MA	361	PEABODY,GRANITE	U				NE	A	PBDY 01
OK	317	PEACE TREATY,BED (CEDAR HILLS MBR OF HENNESSEY SH)							PCTR 03
KS	317	PEACE TREATY,BED (CEDAR HILLS SS)				5	SC	D	PCTR 02
CA	121	PEACE VALLEY,FM (RIDGE BASIN GP)		SS		1200	SC	C	PCVL 01
MD	410	PEACH BOTTOM,SLATE (GLENARM GP)	U						PCBM 01
PA	410	PEACH BOTTOM,SLATE (GLENARM GP)	U			300	SC	A	PCBM 02
NY	360	PEACH LAKE,COMPLEX		DRT			SE	A	PCLC 03
KY	324	PEACH ORCHARD,SS [MBR] (BREATHITT FM)					EC	A	PCOC 01
AZ	374	PEACH SPRINGS,MBR (MUAV LS)				27	NC	C	PSPG 15
VT	377	PEAKED MOUNTAIN,GREENSTONE MBR (UNDERHILL FM)					NW	D	PKDM 01
CA	330	PEALE,FM	U	SH		430	NC	A	PELE 01
SD	123	PEANUT PEAK,MBR (CHADRON FM)		SED		9	SW	C	PNPK 02
AZ	121+	PEARCE,VOLCS	U			910	SE	C	PERC 01
AZ	122	PEARCE,VOLCS	U						PERC 02
VA	364	PEARISBURG,LS				140	SW	A	PRBG 09
IL	112	PEARL,FM		SD		12	WC	E	PERL 01
CA	210+	PEAR LAKE,QUARTZ MONZONITE					C	C	PRLK 02
CA	220	PEAR LAKE,QUARTZ MONZONITE							PRLK 03
KS	112	PEARLETTE,ASH BED (SAPPA FM)							PRLT 09
NE	112	PEARLETTE,ASH BED (SAPPA MBR OF SHERIDAN FM)							PRLT 10
KS	112	PEARLETTE,ASH MBR (CROOKED CREEK FM)				4	SW	A	PRLT 01
OK	112	PEARLETTE,ASH MBR (CROOKED CREEK FM)	U						PRLT 04
KS	112	PEARLETTE,ASH MBR (SAPPA FM)	U						PRLT 02
NE	112	PEARLETTE,ASH MBR (SAPPA FM)	U						PRLT 03
SD	112	PEARLETTE,ASH MBR (SAPPA FM)	U						PRLT 05
TX	112	PEARLETTE,ASH MBR (TULE FM)	U						PRLT 06
TX	218	PEARSALL,FM (TRINITY GP)	U	SH		160	SC	C	PRSL 01
OR	221	PEARSE PEAK,DIORITE					SW	D	PRPK 01
OK	322	PEARSONIA,LS MBR (PAWHUSKA FM)					NE	C	PRSN 11
TX	318	PEASE RIVER,GP	U	SS		270	NC	C	PRVR 02
CA	221	PEASLEE CREEK,VOLCS	U			910	C	D	PLCK 09
NV	374	PEASLEY,LS				37	EC	C	PSLY 01
UT	374	PEASLEY,LS	U						PSLY 03
NV	374	PEASLEY,MBR (HIGHLAND PEAK FM)	U						PSLY 02
MI	430	PEAVY POND,COMPLEX	U	VOL			WC	C	PVPD 01
MT	211	PEAY,SS MBR (FRONTIER FM)	U						PEAY 01
WY	211	PEAY,SS MBR (FRONTIER FM)	U			15	NC	A	PEAY 02
TX	212	PECAN GAP,CHALK (TAYLOR GP)				15	NE	A	PCGP 02
TX	212	PECAN GAP,CHALK MBR (TAYLOR MARL)	U						PCGP 03
IA	364	PECATONICA,DOL MBR (PLATTEVILLE FM)	U						PCNC 03

IL	364	PECATONICA,DOL MBR (PLATTEVILLE FM)	U						PCNC	04	
MN	364	PECATONICA,DOL MBR (PLATTEVILLE FM)	U						PCNC	06	
WI	364	PECATONICA,DOL MBR (PLATTEVILLE FM)	U			6	SC	A	PCNC	07	
IA	364	PECATONICA,FM (PLATTEVILLE GP)							PCNC	09	
IL	364	PECATONICA,FM (PLATTEVILLE GP)							PCNC	05	
MO	364	PECATONICA,FM (PLATTEVILLE GP)							PCNC	10	
WI	364	PECATONICA,FM (PLATTEVILLE GP)							PCNC	11	
CA	112	PECKHAM,FM		ST		91	WC	C	PCKM	01	
NY	420	PECK LAKE,FM		GN		500	EC	E	PKLK	01	
NY	344	PECKSPORT,MBR (MARCELLUS FM)		SH		47	C	A	PCKP	01	
CA	122	PECULIAR,SH [MBR] (PUENTE FM)				200	SE	C	PCLR	01	
IL	112	PEDDICORD,FM		ST		8	NE	E	PDCD	01	
MO	322	PEDEE,GP	U	SH		30	NW	A	PEDE	01	
VA	400	PEDLAR,FM (VIRGINIA BLUE RIDGE COMPLEX)		INTR				C	PDLR	01	
AZ	217	PEDREGOSA,MBR (LOWELL FM)		SS		55	SE	C	PDRG	01	
MT	211	PEDRO,BENTONITE BED (MITTEN MBR OF PIERRE SH)	U						PDR0	01	
WY	211	PEDRO,BENTONITE BED (MITTEN MBR OF PIERRE SH)	U		WH	6	NE	A	PDR0	02	
OH	354	PEEBLES,DOL				30	SC	A	PBLS	01	
NC	211	PEEDEE,FM	U						PEED	01	
SC	211	PEEDEE,FM	U	SS		270	EC	A	PEED	02	
NC	211	PEEDEE,FM (LUMBEE GP)							PEED	04	
SC	211	PEEDEE,FM (LUMBEE GP)							PEED	05	
NY	341	PEEKSKILL,GRANITE						SE	A	PKKL	04
NY	400	/PEEKSKILL,NORITE						SE	A	PKKL	05
WA	124	PELL,VLCS MBR (COWLITZ FM)				460	SW	C	PELL	01	
CO	371	PEERLESS,DOL	U			40		C	PRLS	03	
CO	371	PEERLESS,FM	U						PRLS	04	
CO	371	PEERLESS,FM (HORSESHOE MOUNTAIN GP)							PRLS	07	
WV	324	PEERLESS,SS [MBR] (KANAWHA FM)				46	SW	A	PRLS	02	
NV	331	PEERS SPRING,FM	U	LS		760	EC	A	PSPG	12	
VA	364	PEERY,LS (CLIFFIELD GP)				15	SW	C	PERY	01	
VA	364	PEERY,LS MBR (CLIFFIELD FM)							PERY	02	
TN	344	PEGRAM,FM				2		C	A	PGRM	01
TN	344	PEGRAM,LS	U						PGRM	02	
NC	231	PEKIN,FM (NEWARK GP)	U	SS	RD	610		C	A	PKIN	01
VA	307	PELIER,SCHIST (EVINGTON GP)				120	SC	C	PLIR	01	
IA	331	PELLA,FM		MRL		23	SC	A	PELL	02	
CA	210	PELLISIER,GRANITE						C	A	PLSR	01
AK	400	PELLY,GNEISS	U					EC	A	PLLY	01
CA	200	PELONA,SCHIST	U			1500	SC	A	PLON	02	

ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM	122	PELONA MOUNTAIN, FM		LAT			SW	E	PLNM 01
ND	112	/PEMBINA, DRIFT					NE	D	PMBN 01
ND	211	PEMBINA, MBR (PIERRE SH)	U			23	CAN	D	PMBN 03
ME	347	PEMBROKE, FM	U	VSED		1800	EC	A	PMBK 03
ME	351	PEMBROKE, FM	U						PMBK 02
WI	430	PEMENE, FM		RHY		2100	NE	E	PEMN 01
TX	212	PEN, FM (TERLINGUA GP)		CL		140	SW	D	PEN 04
PA	361	PEN ARGYL, MBR (MARTINSBURG FM)		SL		460	EC	A	PAGL 01
MI	430	PENCE, MBR (IRONWOOD IRON-FORMATION)	U						PENC 01
WI	430	PENCE, MBR (IRONWOOD IRON-FORMATION)	U			40	NC	A	PENC 02
NM	319	PENDEJO, TONGUE (HUECO LS)					SE	C	PNDJ 01
IN	344	PENDLETON, FM (MUSCATATUCK GP)				2	EC	A	PNDL 09
LA	125	PENDLETON, FM (WILCOX GP)							PNDL 06
TX	125	PENDLETON, FM (WILCOX GP)		SD		91	EC	C	PNDL 07
IN	344	PENDLETON, SS	U						PNDL 13
IN	344	PENDLETON, SS (MUSCATATUCK GP)							PNDL 10
IN	344	PENDLETON, SS BED (JEFFERSONVILLE LS)							PNDL 12
CA	211	PENDOLA, SH				130	SC	C	PNDL 08
WA	124	PEND OREILLE, ANDESITE	U			340	NE	C	PDOL 07
NY	354	PENFIELD, DOL (LOCKPORT GP)				19	WC	D	PFLD 04
NY	354	PENFIELD, MBR (LOCKPORT FM)							PFLD 03
FL	112	PENHOLLOWAY, FM	U						PNLY 02
GA	112	PENHOLLOWAY, FM	U	SED		9	SE	A	PNLY 03
SC	112	PENHOLLOWAY, FM (COLUMBIA GP)	U						PNLY 06
VA	112	PENHOLLOWAY, FM (COLUMBIA GP)	U						PNLY 07
CA	121	PENMAN, FM		VSED		410	NC	C	PNMN 01
AL	331	PENNINGTON, FM	U						PNGG 01
KY	331	PENNINGTON, FM	U						PNGG 04
TN	331	PENNINGTON, FM	U						PNGG 07
VA	331	PENNINGTON, FM	U		VAR	340	SW	A	PNGG 09
VA	331	PENNINGTON, GP	U						PNGG 10
AL	331	PENNINGTON, SH	U						PNGG 02
GA	331	PENNINGTON, SH	U						PNGG 03
KY	331	PENNINGTON, SH	U						PNGG 05
TN	331	PENNINGTON, SH	U						PNGG 08
VA	331	PENNINGTON, SH	U						PNGG 11
NY	341	PENN YAN, SH (GENESEE GP)				43	WC	C	PNYN 05
NY	341	PENN YAN, SH MBR (GENESEE FM)	U						PNYN 03
NY	341	PENN YAN, TONGUE (GENESEE FM)							PNYN 06
ME	360	PENOBSCOT, FM	U	SL			SC	A	PBSC 01

ME	347+	PENOBSCOT BAY,GRANITE					SC	A	PBCB	01
ME	351	PENOBSCOT BAY,GRANITE							PBCB	02
CA	221	PENON BLANCO,VOLCS	U		2700		C	A	PBLC	03
CA	221	PENRYN,QUARTZ DIORITE					WC	D	PNRN	01
AL	122	PENSACOLA,CLAY	U						PSCL	01
FL	122	PENSACOLA,CLAY	U		120		NW	D	PSCL	02
DE	122	PENSAUKEN,FM	U						PNSK	01
MD	122	PENSAUKEN,FM	U						PNSK	04
NJ	122	PENSAUKEN,FM	U	GVL		18	C	A	PNSK	02
PA	122	PENSAUKEN,FM							PNSK	03
MT	374	PENTAGON,SH	U			88	NW	A	PNGN	01
AR	347	PENTERS,CHERT	U			28	NC	A	PNRS	05
CA	301	PENTZ,SS MBR (CALAVERAS FM)				910	NW	D	PNTZ	01
UT	123	PEOA,TUFF MBR (KEETLEY VOLCS)					NC	D	PEOA	01
NE	112	PEORIA,FM							PORI	14
KS	112	PEORIA,FM (SANBORN GP)							PORI	05
CO	112	PEORIA,LOESS	U						PORI	01
IA	112	PEORIA,LOESS	U						PORI	02
IL	112	PEORIA,LOESS	U			8	NC	A	PORI	03
IN	112	PEORIA,LOESS	U						PORI	04
KS	112	PEORIA,LOESS	U						PORI	06
KY	112	PEORIA,LOESS	U						PORI	08
MO	112	PEORIA,LOESS							PORI	13
NE	112	PEORIA,LOESS	U						PORI	09
OH	112	PEORIA,LOESS	U						PORI	10
WI	112	PEORIA,LOESS	U						PORI	11
IN	112	PEORIA,LOESS MBR (ATHERTON FM)							PORI	12
TX	212	PEPPER,FM				8	EC	A	PPPR	03
TX	212	PEPPER,SH MBR (WOODBINE FM)	U						PPPR	04
AZ	371	PEPPERSAUCE,MBR (ABRIGO FM)	U			6	SE	A	PPRC	01
AZ	371	PEPPERSAUCE,SS							PPRC	02
NV	317	PEQUOP,FM (ARCTURUS GP)		LS		460	NE	C	PQUP	01
NV	317	PEQUOP,FM (CARBON RIDGE GP)							PQUP	03
UT	317	PEQUOP,FM (CARBON RIDGE GP)							PQUP	04
NM	121	PERALTA,TUFF MBR (BEARHEAD RHYOLITE)	U			610	NC	D	PRLT	07
AK	331+	PERATROVICH,FM	U	CH,LS		240	SE	E	PRVC	03
AK	337	PERATROVICH,FM	U						PRVC	04
NM	341	PERCHA,FM				61	SW	A	PRCH	01
AZ	341	PERCHA,SH	U						PRCH	02
NM	341	PERCHA,SH	U						PRCH	03



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX	341	PERCHA,SH	U						PRCH 04
CA	331+	PERDIDO,FM	U	STS		190	EC	C	PRDD 01
CA	337	PERDIDO,FM	U						PRDD 02
TX	123	PERDIZ,CGL MBR (SOUTH RIM FM)				91	WC	D	PRDZ 01
CA	124	PEREIRA,SH MBR (ALHAMBRA FM)				120	NW	C	PRIR 02
ME	350	PERHAM,FM	U	SH		680	NE	D	PRHM 01
AZ	217	PERILLA,MBR (LOWELL FM)		SH		77	SE	C	PRLL 01
CA	110	[PERINI HILL,ANDESITE (CLEAR LAKE VOLCS)]				150	NW	C	PRHL 14
CA	110	/PERINI HILL,FLOWS (CLEAR LAKE VOLCS)							PRHL 01
NV	110	PERISH SPRING,DACITE				120	EC	D	PSPG 03
NJ	231	PERKASIE,MBR (BRUNSWICK FM)	U						PRKS 01
PA	231	PERKASIE,MBR (BRUNSWICK FM)	U			610	SE	A	PRKS 03
PA	231	PERKASIE,SH (NEWARK GP)							PRKS 04
NV	360	PERKINS CANYON,FM		SED				C	PRCK 09
AZ	121	PERKINSVILLE,FM	U	VSED		150	C	C	PKVL 01
AL	212	PEROTE,MBR (PROVIDENCE SAND)	U			46	EC	C	PROT 01
GA	212	PEROTE,MBR (PROVIDENCE SAND)	U						PROT 04
CA	201	PERRIS,QUARTZ DIORITE	U				SE	A	PRRS 01
ME	341	PERRY,FM	U	VSED		1000	EC	A	PRRY 01
WA	124	PERRY CREEK,QUARTZ DIORITE					NC	E	PRCK 08
MO	325	PERRY FARM,SH MBR (LENAPAH FM)							PRFM 02
KS	325	PERRY FARM,SH MBR (LENAPAH LS)	U			3	SE	C	PRFM 01
OK	325	PERRY FARM,SH MBR (LENAPAH LS)							PRFM 03
ME	350	PERRY MOUNTAIN,FM	U	QTZ		1500	WC	C	PRMN 01
NY	341	PERRYSBURG,FM	U	SH		130	WC	C	PRBG 05
KY	364	PERRYVILLE,MBR (LEXINGTON LS)				5	C	A	PRVL 09
AK	230+	PERSEVERANCE,SLATE	U			910	SE	A	PRVC 01
AK	300	PERSEVERANCE,SLATE	U						PRVC 02
SC	370	PERSIMMON FORK,FM	U	PHL		300	C	E	PMFK 01
TX	361	PERSIMMON GAP,SH				9	SW	C	PMGP 01
TX	205	PERSON,FM (EDWARDS GP)		LS		69	SE	E	PRSN 05
IN	324	PERTH,LS MBR (STAUNTON FM)				2	WC	C	PRTH 01
AZ	211	PESCADERO,MBR (ROSKRUGE RHYOLITE)	U				SC	D	PCDR 01
NM	211	PESCADO,TONGUE (MANCOS SH)	U			11	NW	C	PSCD 01
WA	360	PESHASTIN,FM	U	SL				C	PSSN 02
WI	400	PESHTIGO RIVER,PORPHYRY					EC	D	PGRV 03
CA	121	PETALUMA,FM	U	CL		1200	WC	A	PTLM 01
TX	123	PETAN,BASALT (VIEJA GP)				91	WC	C	PETN 01
TX	123	PETAN,TRACHYTE (VIEJA GP)							PETN 02
CO	123	PETE GULCH,MBR (RABBIT EARS VOLCS)	U			61	NC	D	PGLC 03

NH	347	PETERBOROUGH, MBR (LITTLETON FM)		SCH		3700	SC	E	PRBG	08
IN	324	PETERSBURG, FM	U	SS		38	SW	A	PRBG	11
IN	324	PETERSBURG, FM (CARBONDALE GP)							PRBG	04
VA	301	PETERSBURG, GRANITE						SE	A	PRBG 03
IL	112	/PETERSBURG, SILT				6	C	D	PRBG	01
PA	307	PETERS CREEK, FM					SE	A	PRCK	26
VA	400	PETERS CREEK, FM							PRCK	28
PA	307	PETERS CREEK, QTZ	U						PRCK	27
VA	400	PETERS CREEK, QTZ	U						PRCK	29
PA	307	PETERS CREEK, SCHIST							PRCK	30
PA	337	PETERS MOUNTAIN, SS MBR (POCONO FM)					SC	A	PRSM	07
ID	217	PETERSON, LS (GANNETT GP)	U			62	SE	A	PRSN	04
WY	217	PETERSON, LS (GANNETT GP)	U						PRSN	06
NJ	347	PETERS VALLEY, MBR (COEYMANS FM)	U	LS		3	NC	D	PRVL	03
NY	347	PETERS VALLEY, MBR (COEYMANS FM)	U						PRVL	04
PA	347	PETERS VALLEY, MBR (COEYMANS FM)	U						PRVL	05
NV	364+	PETES SUMMIT, FM (CLIPPER CANYON GP)		SED			C	C	PSSM	02
NV	367	PETES SUMMIT, FM (CLIPPER CANYON GP)							PSSM	03
MI	344	PETOSKEY, LS (TRAVERSE GP)				30	EC	A	PTSK	01
AZ	231	PETRIFIED FOREST, MBR (CHINLE FM)	U	SS		120	NE	C	PFDF	01
CO	231	PETRIFIED FOREST, MBR (CHINLE FM)	U						PFDF	02
NM	231	PETRIFIED FOREST, MBR (CHINLE FM)	U						PFDF	03
NV	231	PETRIFIED FOREST, MBR (CHINLE FM)	U						PFDF	04
UT	231	PETRIFIED FOREST, MBR (CHINLE FM)	U						PFDF	05
NV	123	PETROGLYPH CLIFF, IGNIMBRITE				15	EC	D	PGPC	01
AZ	123	PETROGLYPH HILL, ANDESITE					SE	D	PGPH	02
TN	324+	PETROS, SS (SLATESTONE GP)				18	EC	C	PTRS	02
TN	327	PETROS, SS (SLATESTONE GP)							PTRS	03
LA	219	PETTET, FM					NW	E	PTTT	05
TX	219	PETTET, FM							PTTT	03
AR	219	PETTET, LS LENTIL (SLIGO FM)							PTTT	01
LA	219	PETTET, LS MBR (SLIGO FM)							PTTT	10
TX	219	PETTET, LS MBR (SLIGO FM)							PTTT	09
NE	112	PETTIJOHN, FM		GVL		2	NC	E	PTJN	01
OK	357	PETTIT, OOLITE MBR (BLACKGUM FM)				<1	EC	D	PTTT	07
MI	420	PEWABIC, AMYGDALOID (PORTAGE LAKE VOLCS)	U				NW	A	PWBC	01
MI	420	/PEWABIC WEST, CGL [BED] (PORTAGE LAKE VOLCS)	U				NW	A	PBCW	01
OR	112+	PEYERL, TUFF	U			69	SC	D	PYRL	01
OR	121	PEYERL, TUFF	U						PYRL	02
IL	110	PEYTON, COLLUVIUM					NC	E	PYTN	01

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KS	211	PFEIFER,SH MBR (GREENHORN LS)	U			6	C	A	PFFR 01
OR	112	[PHANTOM,ANDESITE]					SW	C	PNTM 04
OR	112	/PHANTOM,FLAWS							PNTM 01
AZ	400	PHANTOM,MIGMATITE					NC	C	PNTM 03
WY		PHAYLES--SEE FALES							
NY	351	PHELPS,WATERLIME MBR (FIDDLERS GREEN FM)				2	C	E	PLPS 02
AL	307	PHENIX CITY,GNEISS (UCHEE COMPLEX)					EC	E	PNXC 01
GA	307	PHENIX CITY,GNEISS (UCHEE COMPLEX)							PNXC 02
ID	360	PHI KAPPA,FM	U	SH		2900	SC	A	PKPP 01
WA	210	PHILLIPS LAKE,GRANODIORITE . . . . .	U				NE	E	PPLK 02
CA	122	PHOENIX,MBR (SANTA MARGARITA FM)		SS		1300	SC	D	PHNX 01
CO	123	PHOENIX PARK,MBR (FISH CANYON TUFF)	U			150	SW	A	PXPK 01
AZ	201	PHONODOREE,FM	U	MS		46	SC	D	PNDR 02
ID	311+	PHOSPHORIA,FM	U	MS,CH		140	SE	A	PSPR 01
MT	311+	PHOSPHORIA,FM . . . . .	U						PSPR 02
UT	311+	PHOSPHORIA,FM	U						PSPR 03
WY	311+	PHOSPHORIA,FM	U						PSPR 04
ID	317	PHOSPHORIA,FM	U						PSPR 08
MT	317	PHOSPHORIA,FM	U						PSPR 05
UT	317	PHOSPHORIA,FM . . . . .	U						PSPR 07
WY	317	PHOSPHORIA,FM	U						PSPR 06
NV	122	PIAPI CANYON,FM		TF		590	C	D	PPCN 03
NV	122	PIAPI CANYON,GP							PPCN 04
IL	325	PIASA,LS MBR (MODESTO FM)	U			2	WC	A	PIAS 02
ID	341	PICABO,FM . . . . .	U	CGL		58	C	E	PCBO 01
NM	112	PICACHO,ALLUVIUM					SC	D	PCCH 01
TX	112	PICACHO,ALLUVIUM							PCCH 02
AZ	341	PICACHO DE CALERA,FM		LS		22	SC	A	PCCC 01
MT	224	PICARD,SH MBR (NESSON FM)	U		RD	12	NE	C	PCRD 02
ND	224	PICARD,SH MBR (NESSON FM) . . . . .							PCRD 03
CO	123	PICAYUNE,FM	U			550	SW	A	PCYN 01
CO	123	PICAYUNE,QUARTZ LATITE							PCYN 02
CO	124	PICEANCE CREEK,SS TONGUE (ANVIL POINTS MBR,GREEN RIVER FM)				15	NW	D	PCCK 04
WV	331	PICKAWAY,LS (GREENBRIER GP)				120	SC	A	PCKY 03
VA	331	PICKAWAY,MBR (GREENBRIER LS) . . . . .							PCKY 01
WV	331	PICKAWAY,MBR (GREENBRIER LS)							PCKY 02
NJ	400	PICKERING,GNEISS	U						PCKG 01
PA	400	PICKERING,GNEISS	U				SE	A	PCKG 02
CA	122+	PICKHANDLE,FM	U	SED			SE	C	PCKD 04
CA	123	PICKHANDLE,FM . . . . .	U						PCKD 05

CA	112+	PICO,FM	U	STS	910	SC	A	PICO	02
CA	121	PICO,FM	U					PICO	01
VT	377	[PICO PEAK,FM]		MBL		C	C	PCPK	04
VT	377	/PICO PEAK,SER						PCPK	03
CO	211	PICTURED CLIFFS,SS	U					PCCF	01
NM	211	PICTURED CLIFFS,SS	U		86	NW	A	PCCF	02
OR	122	PICTURE GORGE,BASALT (COLUMBIA RIVER GP)	U		460	C	D	PCGG	01
WA	122	PICTURE GORGE,BASALT (COLUMBIA RIVER GP)	U					PCGG	02
OR	121	PICTURE ROCK,BASALT	U		300	SC	D	PCRK	08
NM	400	PICURIS,BASALT	U			NC	C	PCRS	05
NM	122	/PICURIS,TUFF			300	NC	C	PCRS	03
OK	317	PIEDMONT,BED (CEDAR HILLS SS)			11	C	C	PDMN	02
NM	122	/PIEDRA PARADA,MBR (ZIA SAND)			120	NC	D	PDPD	01
CA	211	PIEDRAS ALTAS,FM (ASUNCION GP)		SED		SC	C	PDAL	01
TN	364	PIERCE,LS (STONES RIVER GP)	U		9	C	A	PIRC	01
TN	364	PIERCE,MBR (RIDLEY LS)						PIRC	02
WI	440	PIER GORGE,SCHIST MBR (QUINNESEC FM)				NW	D	PRGG	02
NV	410	PIERMONT,FM		CST	3000	EC	C	PRMN	05
NH	364+	PIERMONT,MBR (ALBEE FM)	U	SCH	300	WC	C	PRMN	02
NH	367	PIERMONT,MBR (ALBEE FM)	U					PRMN	03
WV	327	PIERPONT,SS [MBR] (POCAHONTAS FM)			18	SW	A	PRPN	02
CO	211	PIERRE,SH	U					PIRR	01
KS	211	PIERRE,SH	U					PIRR	02
MN	211	PIERRE,SH						PIRR	03
ND	211	PIERRE,SH	U					PIRR	06
NE	211	PIERRE,SH	U					PIRR	07
NM	211	PIERRE,SH	U					PIRR	08
SD	211	PIERRE,SH	U		210	C	A	PIRR	09
WY	211	PIERRE,SH	U					PIRR	10
MT	211	PIERRE,SH (MONTANA GP)	U					PIRR	05
LA	125	PIERSON,GLAUCONITE MBR (SABINETOWN FM)			10	WC	C	PRSN	01
TX	125	PIERSON,GLAUCONITE MBR (SABINETOWN FM)						PRSN	02
MO	338	PIERSON,LS			9	SW	A	PRSN	13
UT	374	PIERSON COVE,FM		MS	440	SW	E	PRCV	01
IA	322	PIERSON POINT,SH (WABAUNSEE GP)						PRSP	05
KS	322	PIERSON POINT,SH (WABAUNSEE GP)						PRSP	06
MO	322	PIERSON POINT,SH (WABAUNSEE GP)						PRSP	07
NE	322	PIERSON POINT,SH (WABAUNSEE GP)			3	SE	A	PRSP	08
MN	112	PIERZ,DRIFT				C	D	PIRZ	01
MN	112	PIERZ,TILL						PIRZ	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN 410	PIGEON,SLATE (SNOWBIRD GP)	U			4600	EC	A	PGON 03
NC 410	PIGEON,STS (SNOWBIRD GP)	U						PGON 02
TN 410	PIGEON,STS (SNOWBIRD GP)	U						PGON 04
CA 211	PIGEON POINT,FM	U	SS		2600	WC	C	PGNP 01
HI 112	PIINAUU,BASALT (HANA GP)	U				EC	C	PINU 01
AR 218	PIKE,GRAVEL (TRINITY GP)	U			30	SW	A	PIKE 02
OR 122+	PIKE CREEK,FM	U	VOL		460	SE	C	PKCK 02
OR 123	PIKE CREEK,FM	U						PKCK 03
CO 420	PIKES PEAK,GRANITE	U				C	A	PKPK 02
NM 400	PILAR,PHYLLITE MBR (ORTEGA QTZ)	U			700	NC	C	PILR 01
MT 420	PILCHER,QTZ (MISSOULA GP)	U				WC	C	PLCR 04
WA 112	PILCHUCK,CLAY MBR (VASHON DRIFT)	U				NC	C	PCKK 02
MT 371	PILGRIM,DOL (GALLATIN GP)	U			96	C	A	PLGM 01
MT 371	PILGRIM,LS (GALLATIN GP)	U						PLGM 02
WY 371	PILGRIM,LS (GALLATIN GP)	U						PLGM 03
TX 347	PILLAR BLUFF,LS	U				C	C	PLBF 01
MO 322	PILLSBURY,FM (WABAUNSEE GP)							PLBR 02
KS 322	PILLSBURY,SH (WABAUNSEE GP)	U			15	NE	C	PLBR 01
NM 123	PILONCILLO,FM		CST		120	SW	C	PLCL 01
NV 337+	PILOT,SH	U			120	EC	A	PLOT 02
UT 337+	PILOT,SH	U						PLOT 03
NV 341	PILOT,SH	U						PLOT 04
UT 341	PILOT,SH	U						PLOT 05
UT 122	PILOT CREEK,BASALT MBR (COVE MOUNTAIN FM)				120	SW	C	PLCK 02
MO 371	PILOT KNOB,CGL				12	SE	A	PLKB 03
MO 420	PILOT KNOB,FELSITE (MIDDLEBROOK GP)				61	SE	D	PLKB 04
TX 212	PILOT KNOB,TUFF [MBR] (DESSAU FM)					EC	C	PLKB 07
CA 100	PILOT MOUNTAIN,ANDESITE					NW	C	PLMN 01
TN 324	PILOT MOUNTAIN,SS (VOWELL MOUNTAIN GP)				18	NE	C	PLMN 02
TN 324	PILOT MOUNTAIN,SS MBR (VOWELL MOUNTAIN FM)							PLMN 04
AZ 374	PIMA,FM				1	SE	A	PIMA 01
AZ 374	PIMA,SS							PIMA 02
PA 341	PIMPLE HILL,CGL BED (CHERRY RIDGE MBR OF CATSKILL FM)					EC	A	PMPH 01
AZ 430	PINAL,SCHIST					EC	A	PINL 01
AL 304+	PINCHOLEE,GNEISS (HATCHET CREEK GP)	U				EC	E	PNCL 12
AL 307	PINCHOLEE,GNEISS (HATCHET CREEK GP)							PNCL 13
AL 307	PINCKNEYVILLE,GRANITE	U				EC	A	PCKV 01
AL 307	PINCKNEYVILLE,GRANITE COMPLEX							PCKV 04
GA 307	PINCKNEYVILLE,GRANITE COMPLEX							PCKV 03
AL 307	PINCKNEYVILLE,QUARTZ DIORITE COMPLEX							PCKV 02

MT	311	PINE,SALT MBR (SPEARFISH FM)								PINE	11
ND	311	PINE,SALT MBR (SPEARFISH FM)				59	SW	D		PINE	03
NC	112	PINE,SAND				3	SE	C		PINE	01
AL	327	PINE,SS MBR (POTTSVILLE FM)	U			76	NC	A		PINE	04
AL	125	PINE BARREN,MBR (CLAYTON FM)	U	LS		53	C	C		PNBR	01
TX	212	[PINE BLUFF,MBR (EAGLE FORD FM)]				11	NE	C		PBLF	10
TX	212	PINE BLUFF,MBR (LEWISVILLE FM)								PBLF	01
TX	212	/PINE BLUFF,VOLC ZONE (EAGLE FORD FM)								PBLF	09
CO	224	PINE BUTTE,MBR (SUNDANCE FM)	U							PNBT	01
SD	224	PINE BUTTE,MBR (SUNDANCE FM)								PNBT	03
WY	224	PINE BUTTE,MBR (SUNDANCE FM)	U							PNBT	02
NM	120	PINE CANYON,FM			SS	16	SE	E		PNBT	01
CA	123	PINECATE,FM (SAN LORENZO GP)			LAT		SW	D		PNCN	01
NV	360	PINECONE,FM			SS	300	WC	A		PNCT	02
ID	122	/PINE CREEK,INTERBEDS (COLUMBIA RIVER BASALT)			STS,CH	>300	C	C		PNCN	05
PA	321	PINE CREEK,LS BED (CONEMAUGH FM)			STS	755	WC	D		PCRK	01
WV	321	PINE CREEK,LS MBR (CONEMAUGH FM)				1	WC	A		PCRK	18
ID	122	[PINE CREEK,MBR (COLUMBIA RIVER BASALT)]								PCRK	19
UT	237	PINECREST,FM			LS	190	NC	A		PCRS	04
FL	121	PINECREST,MARL MBR (TAMIAMI FM)				6	SE	D		PCRS	01
FL	121	PINECREST,SAND MBR (TAMIAMI FM)								PCRS	06
CO	112	PINEDALE,DRIFT								PNDL	16
ID	112	PINEDALE,DRIFT								PNDL	14
UT	112	PINEDALE,DRIFT	U							PNDL	01
WY	112	PINEDALE,DRIFT	U					WC	C	PNDL	03
CO	112	PINEDALE,TILL								PNDL	17
ID	112	PINEDALE,TILL								PNDL	15
UT	112	PINEDALE,TILL	U							PNDL	02
WY	112	PINEDALE,TILL	U							PNDL	04
NC	231	PINE HALL,FM (DAN RIVER GP)			SS	2100	NC	E		PNHL	12
NJ	347	PINE HILL,FM (STONE RIDGE GP)								PNHL	15
NY	347	/PINE HILL,FM (STONE RIDGE GP)			STS,SS	46	SE	E		PNHL	16
NY	347	PINE HILL,FM (TRISTATES GP)								PNHL	22
UT	125	PINE HOLLOW,FM	U	MS	RD	63	SC	E		PNHL	01
NC	121+	PINEHURST,FM	U	GVL		46	C	C		PNRS	01
NC	122	PINEHURST,FM	U							PNRS	02
CA	125	PINEHURST,SH	U			150	WC	E		PNRS	03
MS	218	PINE ISLAND,FM								PILD	08
LA	218	PINE ISLAND,FM (TRINITY GP)			SH	VAR	620	NW	C	PILD	17
TX	218	PINE ISLAND,FM (TRINITY GP)								PILD	03

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 218	PINE ISLAND, MBR (GLEN ROSE FM)							PILD 04
MS 218	PINE ISLAND, SH	U						PILD 12
AR 218	PINE ISLAND, SH (TRINITY GP)	U						PILD 01
LA 218	PINE ISLAND, SH (TRINITY GP)	U						PILD 02
TX 218	PINE ISLAND, SH (TRINITY GP)	U						PILD 05
TX 218	PINE ISLAND, SH MBR (PEARSALL FM)	U						PILD 06
FL 211	PINE KEY, FM		LS	WH	830	SE E		PNKY 01
PA 337	PINE KNOB, SS				13	SW C		PNKB 01
OR 217	PINE LAKES, CORDIERITE TRONDHEMITE					NE D		PLKS 01
GA 377	PINELOG, CGL MBR (WEISNER FM)	U				NW A		PNLG 01
NH 227+	PINE MOUNTAIN, COMPLEX (WHITE MOUNTAIN GP)		GR			SC C		PNMN 02
NH 231	PINE MOUNTAIN, COMPLEX (WHITE MOUNTAIN GP)							PNMN 03
GA 307	PINE MOUNTAIN, FM		QTZ			WC A		PNMN 07
AL 307	PINE MOUNTAIN, GP							PNMN 09
GA 307	PINE MOUNTAIN, GP							PNMN 08
AZ 123	PINE MOUNTAIN, PORPHYRY					C C		PNMN 05
NV 370	PINE NUT, LS MBR (GOLD HILL FM)	U		WH	3	C A		PNNT 01
NY 371	PINE PLAINS, FM (WAPPINGER GP)	U	DOL		400	SE C		PPLS 09
WY 211	PINE RIDGE, SS (MESAVERT DE GP)				24	SE A		PRDG 04
WY 211	PINE RIDGE, SS MBR (MESAVERT DE FM)	U						PRDG 16
WI 430	PINE RIVER, QTZ CGL MBR (MICHIGAMME SLATE)				180	NE D		PRVR 03
NM 313	PINERY, LS MBR (BELL CANYON FM)	U						PNRY 01
TX 313	PINERY, LS MBR (BELL CANYON FM)	U			46	WC C		PNRY 02
MD 364	PINESBURG, MBR (SHIPPENSBURG FM)							PBRG 23
PA 364	PINESBURG, MBR (SHIPPENSBURG FM)		LS		35	SC C		PBRG 24
MD 367	PINESBURG STATION, DOL (BEEKMANTOWN GP)	U			140	NC C		PBGS 01
VA 367	PINESBURG STATION, DOL (BEEKMANTOWN GP)							PBGS 04
WV 367	PINESBURG STATION, DOL (BEEKMANTOWN GP)							PBGS 02
PA 367	PINESBURG STATION, FM (BEEKMANTOWN GP)							PBGS 03
NM 321	PINE SHADOW, MBR (WILD COW FM)		CGL, LS		49	C E		PNSD 01
OK 344+	PINETOP, CHERT	U			15	SE A		PNTP 01
OK 347	PINETOP, CHERT	U						PNTP 02
CO 112	/PINE VALLEY, GRAVEL	U			9	C D		PNVL 01
UT 122	/PINE VALLEY, LATITE				610	SW C		PNVL 02
UT 370	PINE VALLEY, QTZ	U			370	NE C		PNVL 07
VA 327	PINEVILLE, SS MBR (NEW RIVER FM)	U						PNVL 04
WV 327	PINEVILLE, SS MBR (NEW RIVER FM)	U			30	SW A		PNVL 06
CT 310	PINWOOD, ADAMELLITE					SW E		PNWD 01
CO 111	PINEY CREEK, ALLUVIUM	U			2	C C		PCRK 03
NC 121	PINEY GROVE, MBR (PINEHURST FM)		SED		8	SE D		PGRV 01





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
NV 374+	PIOCHE,FM	U			340	EC A	POCH 03
UT 374+	PIOCHE,FM						POCH 05
NV 377	PIOCHE,FM	U					POCH 09
UT 377	PIOCHE,FM						POCH 11
AZ 374+	PIOCHE,SH	U					POCH 01
CA 374+	PIOCHE,SH	U					POCH 02
NV 374+	PIOCHE,SH	U					POCH 04
UT 374+	PIOCHE,SH	U					POCH 06
AZ 377	PIOCHE,SH	U					POCH 07
CA 377	PIOCHE,SH	U					POCH 08
NV 377	PIOCHE,SH	U					POCH 10
UT 377	PIOCHE,SH	U					POCH 12
CA 211	/PIONEER,FM				2300	WC C	PONR 01
AZ 420	PIONEER,FM (APACHE GP)	U			61	EC A	PONR 05
AZ 420	PIONEER,QTZ (APACHE GP)	U					PONR 06
AZ 420	PIONEER,SH (APACHE GP)	U					PONR 07
TN 324	PIONEER,SS (INDIAN BLUFF GP)				17	NE A	PONR 03
TN 324	PIONEER,SS MBR (INDIAN BLUFF FM)						PONR 08
KY 324	PIONEER,SS MBR (MINGO FM)	U					PONR 02
TN 324	PIONEER,SS MBR (MINGO FM)	U					PONR 04
PA 341	PIPE CREEK,FM (JAVA GP)						PPCK 07
NY 341	PIPE CREEK,MBR (HANOVER SH)			BK	1	WC A	PPCK 08
NY 341	PIPE CREEK,SH (JAVA GP)						PPCK 03
NY 341	PIPE CREEK,SH MBR (JAVA FM)	U					PPCK 02
TX 313	PIPELINE,SH			BK	46	WC C	PPLN 01
TX 313	PIPELINE,SH MBR (BRUSHY CANYON FM)	U					PPLN 02
MT 224	PIPER,FM (ELLIS GP)	U		RD	28	C C	PIPR 01
ND 224	PIPER,FM (ELLIS GP)	U					PIPR 03
MT 224	PIPER,LS (ELLIS GP)	U					PIPR 02
AZ 230	PIPER GULCH,MONZONITE	U				SE E	PPGC 01
VA 331	PIPESTEM,SH MBR (BLUESTONE FM)						PPSM 01
WV 331	PIPESTEM,SH MBR (BLUESTONE FM)				14	SC A	PPSM 02
WA 125	PIPESTONE CANYON,FM		SS		700	NC C	PPSC 01
IN 324	PIRTLE,COAL MBR (SHELburn FM)				<1	SW E	PRTL 02
CA 121	PIRU GORGE,SS (RIDGE BASIN GP)				46	SC C	PRGG 01
MD 125	PISCATAWAY,MBR (AQUIA FM)	U	MRL		15	C A	PSCT 01
VA 125	PISCATAWAY,MBR (AQUIA FM)	U					PSCT 02
TX 125	PISGAH,MBR (KINCAID FM)	U	CL		35	EC A	PSGH 02
CA 121+	PISMO,FM	U	DTM		910	SC A	PSMO 01
CA 122	PISMO,FM	U					PSMO 02

TX	367	PISTOL RANGE,MBR (CHAMIZAL FM)										PLRG	02		
NM	367	PISTOL RANGE,MBR (MCKELLIGON FM)			LS				WC	D		PLRG	01		
TX	367	PISTOL RANGE,MBR (MCKELLIGON FM)										PLRG	03		
CA	231+	PIT,FM						610	NW	A		PIT	01		
CA	234	PIT,FM										PIT	03		
CA	231+	PIT,SH										PIT	02		
CA	234	PIT,SH										PIT	04		
NY	400	[PITCAIRN,COMPLEX]									NC	C	PCRN	02	
NY	400	/PITCAIRN,GNEISS COMPLEX										PCRN	01		
WY	124	PITCHFORK,FM (SUNLIGHT GP)						370	NW	C		PCFK	01		
AR	331	PITKIN,LS						27	NW	A		PTKN	01		
OK	331	PITKIN,LS										PTKN	02		
AZ	200	PITOIKAM,FM						2800	SC	D		PTKM	01		
ID	231	PITTSBURG,FM (SEVEN DEVILS GP)						91	WC	C		PBRG	21		
OR	231	PITTSBURG,FM (SEVEN DEVILS GP)										PBRG	05		
OR	123	PITTSBURG BLUFF,FM						1200	NW	A		PBGB	01		
OR	123	PITTSBURG BLUFF,SS										PBGB	02		
OH	321	/PITTSBURGH,CLAY MBR (CONEMAUGH FM)						1	SW	C		PBRG	09		
PA	321	/PITTSBURGH,COAL BED (CONEMAUGH FM)						<1	SW	A		PBRG	27		
MD	321	[PITTSBURGH,FM (MONONGAHELA GP)]										PBRG	06		
OH	321	[PITTSBURGH,FM (MONONGAHELA GP)]										PBRG	10		
PA	321	PITTSBURGH,FM (MONONGAHELA GP)						74	SW	A		PBRG	14		
WV	321	PITTSBURGH,FM (MONONGAHELA GP)										PBRG	17		
PA	321	/PITTSBURGH,RED BEDS (GLENSHAW FM)									SW	A	PBRG	26	
MD	321	/PITTSBURGH,SS MBR (MONONGAHELA FM)										PBRG	31		
OH	321	/PITTSBURGH,SS MBR (MONONGAHELA FM)										PBRG	37		
WV	321	/PITTSBURGH,SS MBR (MONONGAHELA FM)										PBRG	35		
NH	347	PITTSFIELD,MBR (LITTLETON FM)									SC	C	PFLD	01	
NY	351	PITTSFORD,SH (SALINA GP)										A	PFRD	01	
VT	370	PITTSFORD VALLEY,DOL						240	WC	C		PFDV	01		
CO	430	PITTS MEADOW,GRANODIORITE										WC	E	PSMD	01
NV	344+	PIUTE,FM						98	SE	D		PIUT	02		
NV	347	PIUTE,FM										PIUT	03		
UT	112	PLACER CREEK,FM									SE	C	PCKC	01	
CA	220+	PLACERITA,FM						1500	SC	A		PLCR	01		
CA	230	PLACERITA,FM										PLCR	02		
CA	300	PLACERITA,FM										PLCR	03		
TX	321	PLACID,FM									15	C	A	PLCD	01
TX	321	PLACID,SH (BRAD GP)												PLCD	02
TX	321	PLACID,SH (CANYON GP)												PLCD	04

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX	321	PLACID,SH MBR (BRAD FM)	U						PLCD 03
IL	357	PLAINES,MBR (KANKAKEE DOL)				<1	NE	E	PLNS 01
CT	410	PLAINFIELD,FM	U			610	NE	A	PLFD 07
RI	410	PLAINFIELD,FM	U						PLFD 09
CO	217	PLAINVIEW,FM (DAKOTA GP)				14	C	C	PLNV 03
NC	121	PLAIN VIEW,MBR (PINEHURST FM)		SED		17	C	D	PLNV 01
CO	217	PLAINVIEW,SS MBR (SOUTH PLATTE FM)	U						PLNV 02
IL	112	PLANO,SILT MBR (WINNEBAGO FM)				2	NE	E	PLNO 02
ID	112	PLATEAU,RHYOLITE	U						PLTU 03
MT	112	PLATEAU,RHYOLITE	U						PLTU 02
WY	112	PLATEAU,RHYOLITE	U			300	NW	D	PLTU 01
NY	344	PLATTEKILL,FM (HAMILTON GP)		CLS		300	EC	D	PLKL 01
WI	364	PLATTEVILLE,DOL				24	SC	A	PLVL 14
IA	364	PLATTEVILLE,FM	U						PLVL 06
IL	364	PLATTEVILLE,FM	U						PLVL 08
MN	364	PLATTEVILLE,FM	U						PLVL 12
WI	364	PLATTEVILLE,FM	U						PLVL 15
KS	364	PLATTEVILLE,FM (SIMPSON GP)	U						PLVL 11
WI	364	PLATTEVILLE,FM (SINNIPEE GP)							PLVL 19
IA	364	PLATTEVILLE,GP							PLVL 17
IL	364	PLATTEVILLE,GP							PLVL 09
MO	364	PLATTEVILLE,GP							PLVL 18
IA	364	PLATTEVILLE,LS	U						PLVL 07
WI	364	PLATTEVILLE,LS							PLVL 16
NE	322	PLATTFORD,SH (DOUGLAS GP)				5	SE	A	PLFD 01
MO	364	PLATTIN,GP				11	SE	A	PLTN 06
AR	364	PLATTIN,LS	U						PLTN 03
IL	364	PLATTIN,LS	U						PLTN 04
KS	364	PLATTIN,LS	U						PLTN 05
MO	364	PLATTIN,LS	U						PLTN 07
IA	323	PLATTSBURG,LS (LANSING GP)							PLBG 01
KS	323	PLATTSBURG,LS (LANSING GP)	U						PLBG 02
MO	323	PLATTSBURG,LS (LANSING GP)	U			7	NW	A	PLBG 03
NE	323	PLATTSBURG,LS (LANSING GP)	U						PLBG 04
IA	322	PLATTSMOUTH,MBR (OREAD LS)	U						PLSM 03
KS	322	PLATTSMOUTH,MBR (OREAD LS)	U						PLSM 04
MO	322	PLATTSMOUTH,MBR (OREAD LS)	U						PLSM 05
NE	322	PLATTSMOUTH,MBR (OREAD LS)	U			9	SE	A	PLSM 06
NM	217	PLAYAS PEAK,FM (BISBEE GP)	U	SS		610	SW	C	PLPK 02
PA	374	PLEASANT HILL,FM				180	SC	A	PLHL 01



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
NV	311+	PLYMPTON,FM (PARK CITY GP)	U						PLMP 02	
UT	311+	PLYMPTON,FM (PARK CITY GP)	U	DOL		210	WC	C	PLMP 03	
NV	317	PLYMPTON,FM (PARK CITY GP)	U						PLMP 04	
UT	317	PLYMPTON,FM (PARK CITY GP)	U						PLMP 05	
VA	327	POCAHONTAS,FM	U			110	SW	A	PCNS 02	
WV	327	POCAHONTAS,FM	U						PCNS 06	
WV	327	POCAHONTAS,FM (POTTSVILLE GP)							PCNS 05	
VA	327	POCAHONTAS,SS [MBR] (LEE FM)							PCNS 04	
ME	340	[POCAMOONSHINE,GABBRO]						EC	D	PCMS 02
ME	340	/POCAMOONSHINE,GABBRO-DIORITE	U							PCMS 01
ID	410+	POCATELLO,FM	U	MET		440	SE	C		PCTL 01
UT	410+	POCATELLO,FM								PCTL 03
ID	420	POCATELLO,FM	U							PCTL 02
UT	420	POCATELLO,FM								PCTL 04
AK	110+	POCHNOI,VOLCS	U			520	SW	C		PCHN 01
AK	120	POCHNOI,VOLCS	U							PCHN 02
NJ	400	POCHUCK,GNEISS	U					NC	A	PCKK 08
PA	400	POCHUCK,GNEISS	U							PCKK 11
NJ	400	POCHUCK MOUNTAIN,GNEISS				610	NC	C		PCKM 03
MO	367	POCKET HOLLOW,OOLITE [BED] (LUTIE MBR OF THEODOSIA FM)				1	SC	C		PCKH 02
MD	337	POCONO,FM	U							POCN 02
PA	337	POCONO,FM	U			650	NE	A		POCN 05
VA	337	POCONO,FM	U							POCN 08
WV	337	POCONO,FM								POCN 13
MD	337	POCONO,GP	U							POCN 03
NY	337	POCONO,GP								POCN 12
OH	337	POCONO,GP								POCN 11
PA	337	POCONO,GP	U							POCN 06
WV	337	POCONO,GP	U							POCN 09
OH	337	POCONO,SS	U							POCN 04
PA	337	POCONO,SS	U							POCN 07
WV	337	POCONO,SS	U							POCN 10
MT	224	POE,EVAPORITE MBR (NESSON FM)								POE 02
ND	224	POE,EVAPORITE MBR (NESSON FM)				36	NW	C		POE 03
AL	304	POE BRIDGE MOUNTAIN,FM (WEDOWEE GP)		SCH			NE	E		PBGM 01
NV	364+	POGONIP,FM (MOUNT HAMILTON GP)				1200	EC	A		PGNP 03
NV	367	POGONIP,FM (MOUNT HAMILTON GP)								PGNP 08
ID	360	/POGONIP,GP	U							PGNP 19
CA	364+	POGONIP,GP	U							PGNP 02
NV	364+	POGONIP,GP	U							PGNP 04



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM 221	/POISON CANYON,SS [BED] (WESTWATER CANYON MBR,MORRISON FM)				30	NW	C	PSNC 05
NM 221	/POISON CANYON,SS MBR (MORRISON FM)							PSNC 06
ID 121	POISON CREEK,FM (IDAHO GP)	U	ASH			SW	A	PCRK 07
NM 122	POJOAQUE,MBR (TESUQUE FM)		SS		170	NC	E	PJQU 02
IL 325	POKEBERRY,LS MBR (CARBONDALE FM)				1	WC	C	PKBR 01
MN 430	POKEGAMA,QTZ (ANIMIKIE GP)	U			100	NC	A	PKGM 02
MD 344	POKEJOY,MBR (MAHANTANGO FM)							PKJY 02
PA 344	POKEJOY,MBR (MAHANTANGO FM)							PKJY 01
WV 344	POKEJOY,MBR (MAHANTANGO FM)							PKJY 03
UT 331	POKER KNOLL,LS MBR (GREAT BLUE FM)	U	SH		3	EC	E	PKJY 01
CA 221+	POKERVILLE,MBR (LOGTOWN RIDGE FM)	U	VOL		210	C	D	PKKL 01
CA 224	POKERVILLE,MBR (LOGTOWN RIDGE FM)	U			1400	C	E	PKVL 02
NY 364	POLAND,LS MBR (DENMARK FM)							PKVL 03
NY 364	POLAND,MBR (DENLEY LS)				18	C	C	PLND 02
NV 374	POLE CANYON,LS	U			610	EC	C	PLCN 03
UT 321	/POLE CANYON,MBR (OQUIRRH FM)		SED		470	NC	C	PLCN 02
WY 125	POLECAT BENCH,FM		SED		1100	NW	C	PCBC 01
NV 122	POLE CREEK,DACITE	U			270	NE	C	PLCK 03
NM 231	POLEO,SS				15	NC	A	POLO 01
NM 231	POLEO,SS LENTIL (CHINLE FM)	U						POLO 02
SD 123	POLESLIDE,MBR (BRULE FM)		CL		90	SW	C	PLLD 01
CA 377	POLETA,FM	U	LS		370	C	D	POLT 01
NV 377	POLETA,FM	U						POLT 02
AR 361	POLK CREEK,SH	U			30	WC	A	PKCK 09
OK 361	POLK CREEK,SH	U						PKCK 10
TX 361	POLK CREEK,SH							PKCK 13
NM 123	POLLACK,QUARTZ LATITE			RD	91	SW	C	PLCK 01
SD 112	POLLOCK,FM		CL		45	NC	E	PLCK 13
HI 112	[POLOLU,BASALT]	U			140	SE	C	PLLU 04
HI 112	/POLOLU,VOLC SER							PLLU 03
CA 122	POLONIO,SS TONGUE (MCLURE SH)				210	SC	C	POLN 01
NM 112+	POLVADERA,GP	U	VOL		1500	NC	E	PLVD 02
NM 121	POLVADERA,GP	U						PLVD 03
CA 124	POMERADO,CGL (POWAY GP)				56	SE	E	PMRD 01
AK 221	POMEROY,ARKOSE MBR (NAKNEK FM)	U			400	C	C	PMRY 05
OH 321	POMEROY,SS MBR (MONONGAHELA FM)				23	SC	A	PMRY 02
WV 321	POMEROY,SS MBR (PITTSBURGH FM)							PMRY 04
VT 340	/POMFRET,GRANITE						C	PMFR 03
CT 350+	POMFRET,PHYLLITE						NE	PMFR 01
CT 360	POMFRET,PHYLLITE							PMFR 04





GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV	311	POORMAN PEAK, FM		MS		940	NE	D	PMPK 05
GA	377+	POOR MOUNTAIN, FM							PRMN 09
SC	377+	POOR MOUNTAIN, FM		LS			NW	A	PRMN 04
GA	410	POOR MOUNTAIN, FM							PRMN 10
SC	410	POOR MOUNTAIN, FM							PRMN 08
TN	357	POOR VALLEY RIDGE, MBR (CLINCH SS)	U						PVRG 01
VA	357	POOR VALLEY RIDGE, MBR (CLINCH SS)	U			56	SW	C	PVRG 02
IN	332	POPCORN, SS BED (PAOLI LS)				2	SC	D	PPCR 04
IL	332	POPCORN, SS BED (SHETLERVILLE MBR OF RENAULT LS)							PPCR 03
OK	326	POPE CHAPEL, SS MBR (ATOKA FM)	U		VAR	15	EC	A	PPCP 01
IL	326	POPE CREEK, COAL MBR (ABBOTT FM)				<1	NW	C	PPCK 01
NY	341	POPE HOLLOW, CGL MBR (CATTARAUGUS FM)				15	WC	A	PPHL 01
PA	341	POPE HOLLOW, CGL MBR (VENANGO FM)							PPHL 02
PA	341	POPLAR GAP, MBR (CATSKILL FM)		SS		260	EC	E	PPGP 01
MA	304	POPLAR MOUNTAIN, GNEISS	U				NW	C	PPLM 02
MN	111+	POPLAR RIVER, FM		SD		30	NW	E	PPRV 04
ND	111+	POPLAR RIVER, FM							PPRV 03
MN	112	POPLAR RIVER, FM							PPRV 05
ND	112	POPLAR RIVER, FM							PPRV 02
MN	111+	POPLAR RIVER, MBR (COLEHARBOR FM)							PPRV 06
MN	112	POPLAR RIVER, MBR (COLEHARBOR FM)							PPRV 01
TX	319	POPLAR TANK, MBR (SKINNER RANCH FM)	U	SH		76	WC	D	PPTK 01
CO	231	POPO AGIE, FM		CLS		91	WC	A	PPAG 01
WY	231	POPO AGIE, FM (CHUGWATER GP)							PPAG 03
CO	231	POPO AGIE, MBR (CHUGWATER FM)	U						PPAG 02
WY	231	POPO AGIE, MBR (CHUGWATER FM)	U						PPAG 04
NM	122	POPOTOSA, FM		VSED		910	C	C	PPTS 01
NV	340	POPOVICH, FM	U	LS			NE	D	PPVC 01
CA	124	POPPIN, MBR (ANITA SH)			RD	9	SC	D	PPPN 01
CO	123	PORPHYRY PEAK, RHYOLITE	U			300	SC	A	PPPK 03
ME	364+	PORTAGE BROOK, MBR (ALBEE FM)	U	PHL, SL	GN	1800	WC	E	PGBK 01
ME	367	PORTAGE BROOK, MBR (ALBEE FM)	U						PGBK 02
AK	227	PORTAGE CREEK, AGGLOMERATE MBR (TALKEETNA FM)	U		RD	870	C	D	PGCK 01
MI	420	PORTAGE LAKE, VOLCS (KEWEENAWAN SUPERGROUP)	U			5200	NW	C	PGLK 03
AZ	341	PORTAL, FM	U	SH		100	SE	C	PRTL 03
NM	341	PORTAL, FM							PRTL 04
IL	354	PORT BYRON, DOL				716	NW	A	PRBR 01
MD	360+	PORT DEPOSIT, GNEISS	U				NE	A	PRDP 05
MD	371	PORT DEPOSIT, GNEISS	U						PRDP 17
WA	123	PORTER, FM				370	WC	A	PRTR 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ID 237	PORTNEUF,LS MBR (THAYNES FM)	U						PRNF 02
OR 121	PORT ORFORD,FM		SD			SW	C	POFD 01
AK 341	PORT REFUGIO,FM	U	GYK,CGL		3000	SE	E	PRFG 01
OH 337	PORTSMOUTH,MBR (BLACK HAND FM)				77	SC	A	PRSM 04
OH 337	PORTSMOUTH,MBR (LOGAN FM)							PRSM 05
OH 337	PORTSMOUTH,SH MBR (CUYAHOGA FM)							PRSM 06
CA 122	PORTUGUESE,TUFF BED (ALTAMIRA MBR OF MONTEREY SH)	U			17	SC	A	PRGS 01
WI 420	PORT WING,BROWNSTONE MBR (ORIENTA SS)				210	NW	C	PRWG 01
KY 341	/PORTWOOD,FM (NEW ALBANY SH)				7	EC	C	PRTD 01
KY 341	[PORTWOOD,MBR (NEW ALBANY SH)]	U						PRTD 02
CA 112	POSEY,FM		CL		15	WC	C	POSY 01
TX 321	POSIDEON,FM (CANYON GP)				15	C	A	PSDN 01
TX 321	POSIDEON,SH MBR (GRAFORD FM)							PSDN 02
TX 321	POSIDEON,SH MBR (PALO PINTO LS)							PSDN 03
WA 112	POSSESSION,DRIFT	U			24	NW	D	PSSN 01
OK 323	POSSUM,SS TONGUE (TALLANT FM)	U			3	NE	C	PSSM 01
VA 331	POSSUMTROT,SH MBR (BLUEFIELD FM)							PSMR 02
WV 331	POSSUMTROT,SH MBR (BLUEFIELD FM)				8	SC	A	PSMR 03
OK 317	POST OAK,CGL					SC	C	PSOK 02
OK 317	POST OAK,CGL MBR (WICHITA FM)	U						PSOK 01
NH 364	[POST POND,MBR (ORFORDVILLE FM)]				1200	C	C	PSPD 06
VT 364	[POST POND,MBR (ORFORDVILLE FM)]							PSPD 05
NH 364	/POST POND,VOLC MBR (ORFORDVILLE FM)	U						PSPD 01
VT 364	/POST POND,VOLC MBR (ORFORDVILLE FM)	U						PSPD 03
NH 364	POST POND,VOLCS							PSPD 02
VT 364	POST POND,VOLCS							PSPD 04
MD 124	POTAPACO,CLAY MBR (NANJEMOY FM)	U			20	C	A	PTPC 01
VA 124	POTAPACO,CLAY MBR (NANJEMOY FM)	U						PTPC 02
AR 211	[POTASH SULFUR SPRINGS,COMPLEX]		SYN			SE	D	PSSP 02
AR 211	/POTASH SULFUR SPRINGS,IGNEOUS COMPLEX							PSSP 01
CA 122	POTATO,SS				>460	SC	A	POTT 01
CA 112+	POTATO HARBOR,FM		LS		26	SC	E	PHRB 01
CA 121	POTATO HARBOR,FM							PHRB 02
TX 124	POTATO HILL,ANDESITE (BUCK HILL GP)				9	WC	C	PTHL 03
TX 124	POTATO HILL,ANDESITE [MBR] (PRUETT FM)							PTHL 04
CA 122	POTATO PEAK,FM		VOL		360	EC	D	PTPK 01
TN 364	POTEET,LS	U			30	SW	C	POTT 02
VA 364	POTEET,LS	U						POTT 03
TN 364	POTEET,LS (CHICKAMAUGA GP)							POTT 04
CA 224+	POTEM,FM	U	SS		610	NW	A	POTM 01

CA	227	POTEM,FM	U						POTM	02	
MT	341	POTLATCH,ANHYDRITE	U			290	NC	A	PTLC	01	
DE	211+	POTOMAC,FM	U						PTMC	01	
DE	217	POTOMAC,FM	U						PTMC	06	
DC	211+	POTOMAC,GP	U						PTMC	13	
DE	211+	POTOMAC,GP	U						PTMC	11	
MD	211+	POTOMAC,GP	U						PTMC	02	
DC	217	POTOMAC,GP	U						PTMC	14	
DE	217	POTOMAC,GP	U						PTMC	12	
MD	217	POTOMAC,GP	U						PTMC	07	
VA	217	POTOMAC,GP	U	CL		180	NE	A	PTMC	10	
IL	371	POTOSI,DOL	U						POTS	05	
KS	371	POTOSI,DOL	U						POTS	02	
MO	371	POTOSI,DOL	U			91	EC	A	POTS	03	
OK	371	POTOSI,DOL	U						POTS	04	
AR	371	POTOSI,FM	U						POTS	01	
NM	112	POTRILLO,BASALT						SC	E	PTRL	01
NM	112	POTRILLO,VOLCS								PTRL	03
NY	371	POTSDAM,SS	U			91	NC	A	PSDM	10	
VT	371	POTSDAM,SS								PSDM	12
NY	371	POTSDAM,SS (SARATOGA SPRINGS GP)								PSDM	15
MS	124	POTTERCHITTO,MBR (COOK MOUNTAIN FM)	U	SD		11	EC	C	PTRC	01	
MI	344	POTTER FARM,FM (TRAVERSE GP)	U	SH		11	EC	A	PRFM	05	
CT	304+	POTTER HILL,GRANITE GNEISS	U						PRHL	02	
RI	304+	POTTER HILL,GRANITE GNEISS	U		RD			SW	D	PRHL	05
CT	307	POTTER HILL,GRANITE GNEISS	U							PRHL	12
RI	307	POTTER HILL,GRANITE GNEISS	U							PRHL	10
NY	344	POTTER HOLLOW,FM (HAMILTON GP)		SED		67	EC	D	PRHL	07	
AL	324+	POTTSVILLE,FM	U						PSVL	01	
GA	324+	POTTSVILLE,FM	U						PSVL	02	
MD	324+	POTTSVILLE,FM	U						PSVL	03	
NY	324+	POTTSVILLE,FM	U						PSVL	21	
OH	324+	POTTSVILLE,FM	U						PSVL	04	
PA	324+	POTTSVILLE,FM	U	CGL		360	EC	A	PSVL	05	
WV	324+	POTTSVILLE,FM	U						PSVL	09	
AL	327	POTTSVILLE,FM	U						PSVL	11	
GA	327	POTTSVILLE,FM	U						PSVL	12	
MD	327	POTTSVILLE,FM	U						PSVL	13	
NY	327	POTTSVILLE,FM	U						PSVL	22	
OH	327	POTTSVILLE,FM	U						PSVL	14	

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA	327	POTTSVILLE,FM	U						PSVL 15
WV	327	POTTSVILLE,FM	U						PSVL 19
NY	324+	POTTSVILLE,GP							PSVL 23
PA	324+	POTTSVILLE,GP	U						PSVL 06
WV	324+	POTTSVILLE,GP							PSVL 10
NY	327	POTTSVILLE,GP							PSVL 24
PA	327	POTTSVILLE,GP	U						PSVL 16
WV	327	POTTSVILLE,GP							PSVL 20
CA	210+	POTWISHA,QUARTZ DIORITE					C C		PTSH 01
CA	220	POTWISHA,QUARTZ DIORITE							PTSH 02
CO	122+	POUDRE PASS,RHYOLITE (SPECIMEN MOUNTAIN GP)					NC D		PDRP 01
CO	123	POUDRE PASS,RHYOLITE (SPECIMEN MOUNTAIN GP)							PDRP 02
CT	377	POUGHQUAG,QTZ	U						PGQG 01
NY	377	POUGHQUAG,QTZ	U			30	SE A		PGQG 02
AK	122+	POUL CREEK,FM	U	SH		910	EC A		PLCK 04
AK	123	POUL CREEK,FM	U						PLCK 05
NY	364+	POULTNEY,FM							PLTN 08
NY	367	POULTNEY,FM							PLTN 14
VT	364+	POULTNEY,FM (MOUNT HAMILTON GP)					WC A		PLTN 11
VT	367	POULTNEY,FM (MOUNT HAMILTON GP)							PLTN 17
NY	364+	POULTNEY,SLATE	U						PLTN 10
VT	364+	POULTNEY,SLATE	U						PLTN 13
NY	367	POULTNEY,SLATE	U						PLTN 16
VT	367	POULTNEY,SLATE	U						PLTN 19
VT	364+	/POULTNEY RIVER,GP		SL,ARG		300	WC C		PLRV 05
VT	367	/POULTNEY RIVER,GP							PLRV 06
VT	371	/POULTNEY RIVER,GP							PLRV 07
MD	341	POUND,SS MBR (FOREKNOBS FM)							PUND 01
VA	341	POUND,SS MBR (FOREKNOBS FM)							PUND 02
WV	341	POUND,SS MBR (FOREKNOBS FM)				59	EC E		PUND 03
NY	400	POUNDRIDGE,GRANITE					SE A		PDDG 01
KY	327	POUNDS,SS MBR (CASEYVILLE FM)	U						PNDS 04
IL	328	POUNDS,SS MBR (CASEYVILLE FM)	U			30	SE C		PNDS 02
SD	430	POVERTY GULCH,SLATE	U				WC E		PVGC 01
OH	324	POVERTY RUN,LS [BED] (POTTSVILLE FM)				<1	EC A		PVRR 01
CA	124	POWAY,GP	U	CGL		300	SE A		POWY 01
CO	430	POWDERHORN,GRANITE	U				WC A		PDRR 03
MI	420	POWDER MILL,GP	U	VOL		6100	NW E		PDML 02
WI	420	POWDER MILL,GP							PDML 01
AR	367	POWELL,DOL	U			61	NC A		PWLL 01

MO	367	POWELL,DOL		U																PWLL	05	
KS	367	POWELL,DOL (ARBUCKLE GP)		U																	PWLL	03
OK	367	POWELL,DOL (ARBUCKLE GP)		U																	PWLL	07
KS	367	POWELL,LS (ARBUCKLE GP)																			PWLL	04
OK	367	POWELL,LS (ARBUCKLE GP)																			PWLL	08
NY	357	POWER GLEN,SH (MEDINA GP)							GN		15	CAN	E							PRGL	02	
WI	400	POWERS BLUFF,QTZ									300	C	A							PBLF	05	
OH	317	POWHATAN POINT,LS MBR (GREENE FM)		U							5	EC	D							PNPN	08	
PA	317	POWHATAN POINT,LS MBR (GREENE FM)		U																	PNPN	10
WV	317	POWHATAN POINT,LS MBR (GREENE FM)																			PNPN	09
TX	319	POWWOW,CGL							RD		61	WC	A							PWWW	03	
NM	319	POWWOW,CGL MBR (ABO FM)																			PWWW	01
NM	319	POWWOW,CGL MBR (HUECO FM)		U																	PWWW	02
TX	319	POWWOW,CGL MBR (HUECO FM)		U																	PWWW	04
TX	319	POWWOW,MBR (HUECO CANYON FM)																			PWWW	05
NJ	351	POXONO ISLAND,FM		U																	PXID	02
NY	351	POXONO ISLAND,FM																			PXID	03
PA	351	POXONO ISLAND,FM		U	SH	VAR					61	EC	A							PXID	04	
NV	122	POZO,FM		U	CGL						30	C	A							POZO	01	
CA	125	POZO,FM			SS,STS						69	SC	E							POZO	02	
AL	112	PRAIRIE,FM																			PRIR	08
AR	112	PRAIRIE,FM																			PRIR	09
LA	112	PRAIRIE,FM		U	SD						16	WC	C							PRIR	01	
MS	112	PRAIRIE,FM																			PRIR	10
MT	344	PRAIRIE,FM (ELK POINT GP)		U	EVP						190	CAN	C							PRIR	04	
ND	344	PRAIRIE,FM (ELK POINT GP)		U																	PRIR	05
AL	212	PRAIRIE BLUFF,CHALK (SELMA GP)		U							5	WC	A							PBLF	03	
MS	212	PRAIRIE BLUFF,CHALK (SELMA GP)		U																	PBLF	04
KS	317	PRAIRIE CREEK,LS LENTIL (GEUDA SPRINGS MBR OF WELLINGTON FM)									2	SC	C							PRCK	21	
CO	112	PRAIRIE DIVIDE,TILL		U									NC	C							PDVO	01
IA	367	PRAIRIE DU CHIEN,GP		U																	PRDC	01
IL	367	PRAIRIE DU CHIEN,GP		U																	PRDC	02
MI	367	PRAIRIE DU CHIEN,GP		U																	PRDC	03
MN	367	PRAIRIE DU CHIEN,GP		U																	PRDC	04
WI	367	PRAIRIE DU CHIEN,GP		U	DOL						73	SW	A							PRDC	05	
AR	328	PRAIRIE GROVE,MBR (HALE FM)		U	LS						61	NW	C							PRGV	01	
OK	328	PRAIRIE GROVE,MBR (HALE FM)		U																	PRGV	02
OK	331	PRAIRIE HOLLOW,MBR (WILDHORSE MOUNTAIN FM)			SH	RD,GN					91	SE	C								PRHL	04
OK	328	PRAIRIE MOUNTAIN,FM (JACKFORK GP)			SH						150	SE	C								PRRM	01
NJ	231	PRALLSVILLE,MBR (STOCKTON FM)			ARK						210	NW	C								PLVL	03

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VA	331	PRATTER,SH MBR (HINTON FM)	U			20	SW	E	PRTR 03
WV	331	PRATTER,SH MBR (HINTON FM)	U						PRTR 04
AL	364	PRATT FERRY,FM		LS		2	C	C	PRFR 02
AK	110	PRATT POINT,MBR (LITTLE SITKIN DACITE)	U				SW	C	PRPN 01
NY	341	PRATTSBURG,SS				190	WC	A	PRBG 07
NV	224	PREACHERS,FM		SS		240	WC	D	PRCR 03
KY	361	PREACHERSVILLE,MBR (DRAKES FM)	U	MS		24	C	D	PCVL 02
NV	371+	PREBLE,FM	U	SCH		4600	NC	C	PRBL 03
NV	374	PREBLE,FM	U						PRBL 04
MA	340	[PRESCOTT,COMPLEX]					WC	D	PRSC 07
AZ	400	PRESCOTT,GRANODIORITE	U				C	D	PRSC 06
MA	340	/PRESCOTT,INTRUSIVE COMPLEX	U						PRSC 04
TX	218	PRESIDIO,FM (TRINITY GP)	U	CGL		120	WC	A	PRSD 02
MI	440	PRESQUE ISLE,GRANITE	U				NW	A	PQIL 03
WI	440	PRESQUE ISLE,GRANITE	U						PQIL 04
CT	301	PRESTON,GABBRO	U				EC	A	PRSN 08
CA	301	PRESTON,HORNBLLENDE DIORITE					NW	A	PRSN 07
ME	112	PRESUMPCOT,FM		CL		34	SW	C	PMPC 01
MT	211	PRETTY BUTTE,MBR (HELL CREEK FM)				9	SW	E	PRTB 02
ND	211	PRETTY BUTTE,MBR (HELL CREEK FM)		SH					PRTB 01
ME	351	PRETTY MARSH,DIORITE			BK		SE	C	PRMR 07
ID	224	PREUSS,RED BEDS	U			400	SE	A	PRSS 01
UT	224	PREUSS,RED BEDS	U						PRSS 03
WY	224	PREUSS,RED BEDS	U						PRSS 05
ID	224	PREUSS,SS	U						PRSS 02
UT	224	PREUSS,SS	U						PRSS 04
WY	224	PREUSS,SS	U						PRSS 06
NM	221	PREWITT,SS MBR (MORRISON FM)				58	NW	C	PRTT 03
KY	337	PRICE,FM	U						PRIC 02
VA	337	PRICE,FM	U			520	SW	A	PRIC 05
KY	337	PRICE,MBR (GRAINGER FM)	U						PRIC 04
VA	337	PRICE,MBR (GRAINGER FM)	U						PRIC 08
VA	337	PRICE,SS	U						PRIC 06
VA	337	PRICE,STS	U						PRIC 07
CO	211	PRICE RIVER,FM (MESAVERDE GP)	U						PCRV 02
UT	211	PRICE RIVER,FM (MESAVERDE GP)	U	SS		300	EC	A	PCRV 01
OK	354	PRICES FALLS,MBR (CLARITA FM)		SH		1	SE	D	PCFL 01
ID	420	PRICHARD,FM (BELT SUPERGROUP)	U			2400	NW	A	PRCD 01
MT	420	PRICHARD,FM (BELT SUPERGROUP)	U						PRCD 03
WA	420	PRICHARD,FM (BELT SUPERGROUP)	U						PRCD 05





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
NY 364	PROSPECT,FM							PRPC 05	
CT 361+	PROSPECT,FM (HARTLAND GP)					C	A	PRPC 08	
CT 364	PROSPECT,FM (HARTLAND GP)							PRPC 09	
CT 361+	PROSPECT,GNEISS (HARTLAND GP)	U						PRPC 02	
CT 364	PROSPECT,GNEISS (HARTLAND GP)							PRPC 06	
IA 339	PROSPECT HILL,SS MBR (HANNIBAL SH)	U				2	SE	A	PPCH 01
IA 339	PROSPECT HILL,STS (NORTH HILL GP)								PPCH 06
IL 339	PROSPECT HILL,STS (NORTH HILL GP)								PPCH 03
IA 339	PROSPECT HILL,STS MBR (HANNIBAL SH)								PPCH 02
CA 377+	PROSPECT MOUNTAIN,QTZ	U							PPCM 05
NV 377+	PROSPECT MOUNTAIN,QTZ	U			460	EC	A		PPCM 06
UT 377+	PROSPECT MOUNTAIN,QTZ	U							PPCM 07
CA 410	PROSPECT MOUNTAIN,QTZ	U							PPCM 10
NV 410	PROSPECT MOUNTAIN,QTZ	U							PPCM 09
UT 410	PROSPECT MOUNTAIN,QTZ	U							PPCM 11
CA 100	PROSPECT PEAK,BASALT						NW	A	PPPK 01
OH 317	PROSPERITY,LS MBR (GREENE FM)	U							PRPR 01
PA 317	PROSPERITY,LS MBR (GREENE FM)	U			6	SW	A		PRPR 02
WA 121	PROSSER,BED (BEVERLY MBR OF ELLENSBURG FM)		PMC,SS		30	SC	D		PRSR 01
IA 364	PROSSER,MBR (GALENA DOL)	U							PRSR 03
MN 364	PROSSER,MBR (GALENA FM)	U	LS		37	SE	A		PRSR 07
OH 344	PROUT,LS				3	NC	A		PRUT 02
IN 324	PROVIDENCE,LS MBR (DUGGER FM)								PVDC 04
KY 321	PROVIDENCE,LS MBR (STURGIS FM)	U			4	WC	A		PVDC 05
GA 212	PROVIDENCE,SAND	U		VAR	46	WC	A		PVDC 08
AL 212	PROVIDENCE,SAND (SELMA GP)	U							PVDC 01
AL 212	PROVIDENCE,SAND MBR (RIPLEY FM)								PVDC 02
NY 367	PROVIDENCE ISLAND,DOL (BEEKMANTOWN GP)								PVCI 03
VT 367	PROVIDENCE ISLAND,DOL (BEEKMANTOWN GP)				22	NW	C		PVCI 01
VT 367	PROVIDENCE ISLAND,LS								PVCI 02
IL 371	PROVISO,STS MBR (EAU CLAIRE FM)				46	NE	D		PRVS 01
ID 112	PROVO,FM (LAKE BONNEVILLE GP)								PROV 02
UT 112	PROVO,FM (LAKE BONNEVILLE GP)	U	GVL,SD		6	C	C		PROV 01
UT 112	PROVO,MBR (LITTLE COTTONWOOD FM)								PROV 03
TX 124	PRUETT,FM (BUCK HILL GP)				300	WC	C		PRTT 01
TX 124	PRUETT,FM (GREEN VALLEY VOLCS)								PRTT 02
OK 364	PRUITT RANCH,LS MBR (OIL CREEK FM)				27	SC	D		PRRC 03
MT 217	PRYOR,CGL MBR (CLOVERLY FM)	U			46	SC	A		PRYR 01
WY 217	PRYOR,CGL MBR (CLOVERLY FM)	U							PRYR 04
MT 217	PRYOR,CGL MBR (KOOTENAI FM)	U							PRYR 02

TX	218	PRYOR,MBR (GEORGETOWN FM)		LS		91	SC	D	PRYR	03	
MT	217	PRYOR,MBR (LAKOTA FM)							PRYR	07	
CO	367	PTARMIGAN,CHERT MBR (MANITOU FM)				29	C	E	PRMG	01	
KY	324	PUCKETT,SS MBR (MINGO FM)				30	SE	A	PCKT	01	
TN	324	PUCKETT,SS MBR (MINGO FM)	U						PCKT	02	
AK	400	PUCKMUMMIE,SCHIST	U				NC	A	PKMM	01	
MN	420	PUCKWUNGE,FM (KEWEENAWAN SUPERGROUP)		CGL		44	NE	A	PCKG	03	
WY	124	PUDDLE SPRINGS,ARKOSE MBR (WIND RIVER FM)	U			240	WC	D	PSPG	08	
TX	319	PUEBLO,FM (WICHITA GP)	U	LS		61	C	A	PUBL	03	
TX	319	PUEBLO,GP							PUBL	04	
NV	122	/PUEBLO RANGE,SER				300	NW	A	PBRG	01	
NV	122	[PUEBLO RANGE,VOLCS]							PBRG	34	
CA	122	PUENTE,FM		SH		3400	SC	A	PUNT	01	
NM	125	PUERCO,FM (NACIMIENTO GP)		MRL		150	NW	A	PURC	01	
AK	122+	PUFFY,MBR (KATALLA FM)	U			1100	EC	A	PFFY	01	
AK	123	PUFFY,MBR (KATALLA FM)	U						PFFY	03	
AK	122+	PUFFY,SH MBR (REDWOOD FM)							PFFY	02	
AK	123	PUFFY,SH MBR (REDWOOD FM)							PFFY	04	
WA	123+	PUGET,GP	U	SS		2700	WC	A	PUGT	01	
WA	124	PUGET,GP	U						PUGT	02	
NY	361	PULASKI,FM (LORRAINE GP)				120	NC	A	PLSK	04	
NY	361	PULASKI,SH	U						PLSK	03	
CA	121+	PULLEN,FM (WILDCAT GP)		MS		340	NW	C	PLLN	01	
CA	122	PULLEN,FM (WILDCAT GP)							PLLN	02	
NY	341	PULTENEY,SH (SONYEA GP)				49	WC	C	PLTN	21	
NY	341	PULTENEY,SH MBR (SONYEA FM)	U						PLTN	02	
NV	317+	PUMPERNICKEL,FM	U	GNS		1800	NC	C	PMPK	08	
NV	320	PUMPERNICKEL,FM	U						PMPK	06	
WY	211	PUMPKIN BUTTES,MBR (MESAVERDE FM)		SH		76	NE	D	PPKB	01	
OK	325	PUMPKIN CREEK,LS MBR (BIG BRANCH FM)				21	SE	A	PKCK	08	
OK	325	PUMPKIN CREEK,LS MBR (DORNICK HILLS FM)							PKCK	11	
CT	361+	PUMPKIN GROUND,MBR (PROSPECT FM)		GN				SW	E	PPKG	01
CT	364	PUMPKIN GROUND,MBR (PROSPECT FM)							PPKG	02	
TN	374	PUMPKIN VALLEY,MBR (CONASAUGA SH)	U			180	NE	C	PPKV	01	
VA	374	PUMPKIN VALLEY,SH	U						PPKV	05	
TN	374	PUMPKIN VALLEY,SH (CONASAUGA GP)	U						PPKV	02	
VA	374	PUMPKIN VALLEY,SH (CONASAUGA GP)							PPKV	04	
HI	111+	[PUNA,BASALT]				130	SE	C	PUNA	03	
HI	112	[PUNA,BASALT]							PUNA	04	
HI	111+	/PUNA,VOLC SER	U						PUNA	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
HI 112	/PUNA,VOLC SER	U						PUNA 02
CA 121+	PUNCHBOWL,FM	U	SS		490	SC	C	PCBL 02
CA 122	PUNCHBOWL,FM	U						PCBL 03
HI 112	PUNCHBOWL,VOLCS (HONOLULU GP)	U			170	NC	A	PCBL 01
NC 122	PUNGO RIVER,FM	U	SD		16	NE	D	PGRV 02
FL 217	PUNTA GORDA,ANHYDRITE	U			140	EC	D	PGRD 01
FL 217	/PUNTA GORDA,ANHYDRITE (GLADES GP)							PGRD 02
FL 217	[PUNTA GORDA,ANHYDRITE MBR (GLADES FM)]							PGRD 03
AK 304	PUPPETS,FM	U	MVOL		170	SE	E	PPTS 02
MT 420	PURCELL,LAVA (MISSOULA GP)	U			60	CAN	C	PRCL 09
WV 344	PURCELL,LS							PRCL 03
MD 344	PURCELL,LS MBR (MARCELLUS SH)							PRCL 13
VA 344	PURCELL,LS MBR (MILLBORO SH)							PRCL 11
PA 344	PURCELL,MBR (MARCELLUS FM)				30	SW	E	PRCL 12
WV 344	PURCELL,MBR (MARCELLUS FM)							PRCL 10
OK 317	PURCELL,SS (HENNESSEY GP)				70	NC	A	PRCL 01
CO 217	PURGATOIRE,FM	U	SS		67	SE	A	PRGR 02
NM 217	PURGATOIRE,FM	U						PRGR 03
OK 217	PURGATOIRE,FM	U						PRGR 04
TX 217	PURGATOIRE,FM	U						PRGR 05
WY 217	PURGATOIRE,FM	U						PRGR 06
RI 320	PURGATORY,CGL	U			180	EC	A	PRGR 07
IL 325	PURINGTON,SH MBR (CARBONDALE FM)				5	NW	A	PRNG 04
CA 121	PURISIMA,FM	U	SS		220	SC	A	PRSM 01
WY 121	PURPLE MOUNTAIN,PUMICE BRECCIA				300	NW	D	PPLM 01
MD 337	PURSLANE,SS (POCONO GP)	U						PRSL 02
WV 337	PURSLANE,SS (POCONO GP)	U		WH	94	NE	A	PRSL 04
MD 337	PURSLANE,SS MBR (POCONO FM)							PRSL 03
NM 110	PURVINE HILLS,BASALT					NE	C	PVHL 01
NM 110	/PURVINE MESA,FLOW (CLAYTON BASALT)					NE	C	PRVM 01
NM 110	[PURVINE MESA,MBR (CLAYTON BASALT)]							PRVM 02
CA 121	PUTAH,TUFF MBR (TEHAMA FM)	U			15	WC	E	PUTH 01
MI 351	PUT-IN-BAY,DOL (BASS ISLANDS GP)							PINB 02
OH 351	PUT-IN-BAY,DOL (BASS ISLANDS GP)	U			30	NC	A	PINB 04
MI 351	PUT-IN-BAY,MBR (BASS ISLANDS DOL)	U						PINB 01
TX 319	PUTNAM,FM (WICHITA GP)	U	SH		53	C	A	PTNM 01
CT 304+	PUTNAM,GNEISS					NE	A	PTNM 04
CT 307	PUTNAM,GNEISS							PTNM 06
CT 304+	PUTNAM,GP	U						PTNM 03
CT 307	PUTNAM,GP	U						PTNM 05



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VA 307	QUANTICO,SLATE	U		BK		NE	A	QNTC 01
OK 331	QUAPAW,LS	U			24	NE	C	QUPW 02
CA 121+	QUARRY,CGL					SC	C	QRRY 01
CA 122	QUARRY,CGL							QRRY 02
NJ 347	QUARRY HILL,MBR (ESOPUS FM)							QRHL 01
NY 347	QUARRY HILL,MBR (ESOPUS FM)		MS		50	SE	E	QRHL 02
OK 351	QUARRY MOUNTAIN,FM		LS		47	EC	D	QRMN 01
NM 120	QUARRY PEAK,RHYOLITE COMPLEX				300	SW	C	QRPK 01
KS 311	QUARTERMASTER,FM	U						QRRM 01
OK 311	QUARTERMASTER,FM	U	SS	RD	91	C	A	QRRM 05
NM 313	QUARTERMASTER,FM	U						QRRM 03
TX 313	QUARTERMASTER,FM	U						QRRM 07
KS 311	QUARTERMASTER,GP							QRRM 02
OR 122	QUARTZ MOUNTAIN,BASALT MBR (DEER BUTTE FM)				16	WC	D	QRZM 01
CA 341	QUARTZ SPRING,SS MBR (LOST BURRO FM)				12	SC	C	QZSP 01
CA 121	QUATAL,FM	U	CLS		240	SC	C	QUTL 01
WY 217	QUEALY,FM	U	CST		300	SW	E	QULY 01
AZ 317	QUEANTOWEAP,SS				200	NW	C	QNTP 01
NV 317	QUEANTOWEAP,SS							QNTP 02
UT 317	QUEANTOWEAP,SS							QNTP 03
NM 313	QUEEN,FM (ARTESIA GP)	U	SS		130	SE	A	QUEN 03
TX 313	QUEEN,FM (ARTESIA GP)	U						QUEN 05
TX 313	QUEEN,FM (WHITEHORSE GP)	U						QUEN 06
LA 124	QUEEN CITY,FM (CLAIBORNE GP)							QNCT 03
TX 124	QUEEN CITY,FM (CLAIBORNE GP)				20	NE	A	QNCT 04
LA 124	QUEEN CITY,SAND (CLAIBORNE GP)	U						QNCT 01
TX 124	QUEEN CITY,SAND (CLAIBORNE GP)	U						QNCT 02
MO 322	QUEEN HILL,SH MBR (LECOMPTON FM)							QNHL 03
IA 322	QUEEN HILL,SH MBR (LECOMPTON LS)	U						QNHL 01
KS 322	QUEEN HILL,SH MBR (LECOMPTON LS)	U						QNHL 02
MO 322	QUEEN HILL,SH MBR (LECOMPTON LS)							QNHL 05
NE 322	QUEEN HILL,SH MBR (LECOMPTON LS)	U			2	SE	A	QNHL 04
NY 361	QUEENSTON,FM			RD	340	WC	A	QNSN 05
MI 361	QUEENSTON,SH	U						QNSN 01
NY 361	QUEENSTON,SH	U						QNSN 02
OH 361	QUEENSTON,SH	U						QNSN 03
AZ 121	QUIBURIS,FM	U	MS		520	SE	D	QBR5 01
UT 122+	QUICHAPA,FM		TF		490	SW	C	QCHP 03
UT 123	QUICHAPA,FM							QCHP 04
NV 122+	QUICHAPA,GP							QCHP 01



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IA	323	QUIVIRA,FM (KANSAS CITY GP)							QUVR 01
KS	323	QUIVIRA,FM (KANSAS CITY GP)				3	NE	A	QUVR 02
NE	323	QUIVIRA,FM (KANSAS CITY GP)							QUVR 06
KS	323	QUIVIRA,MBR (CHERRYVALE SH)	U						QUVR 03
IA	323	QUIVIRA,SH MBR (CHERRYVALE FM)	U						QUVR 08
MO	323	QUIVIRA,SH MBR (CHERRYVALE FM)							QUVR 09
NE	323	QUIVIRA,SH MBR (CHERRYVALE FM)	U						QUVR 07
ME	354	QUODDY,FM				1000	EC	A	QDDY 01
ME	354	QUODDY,SH	U						QDDY 02
CO	122+	RABBIT EARS,VOLCS	U			240	NC	D	RBER 01
CO	123	RABBIT EARS,VOLCS	U						RBER 02
CA	224	RABBIT FLAT,MBR (LOGTOWN RIDGE FM)	U	GNS		640	C	E	RBFL 03
NV	347	RABBIT HILL,LS	U			300	C	C	RBHL 05
MN	430	RABBIT LAKE,FM	U	ARG		610	C	D	RBLK 02
MN	430	RABBIT LAKE,FM (ANIMIKIE GP)							RBLK 03
NV	121+	RABBIT SPRING,FM	U	SS		5	C	A	RBSP 02
NV	122	RABBIT SPRING,FM	U						RBSP 01
WV	354	RABBLE RUN,MBR (MCKENZIE FM)							RBLR 03
PA	354	RABBLE RUN,MBR (MIFFLINTOWN FM)							RBLR 06
MD	354	/RABBLE RUN,RED SS MBR (MCKENZIE FM)			RD	30	NW	A	RBLR 05
MD	354	[RABBLE RUN,SS MBR (MCKENZIE FM)]							RBLR 02
IN	321	RABEN BRANCH,MBR (PATOKA FM)		CL		<1	SW	C	RBBC 01
OH	337	RACCOON,SH				91	C	A	RCCN 01
OH	337	RACCOON,SH MBR (CUYAHOGA FM)							RCCN 02
IN	324+	RACCOON CREEK,GP		SH,SS		120	C	D	RCCK 04
IN	327	RACCOON CREEK,GP							RCCK 01
TN	327	RACCOON MOUNTAIN,FM (GIZZARD GP)		SH,SS		110	SC	C	RCNM 02
GA	327	RACCOON MOUNTAIN,MBR (GIZZARD FM)	U						RCNM 01
TN	327	RACCOON MOUNTAIN,MBR (GIZZARD FM)	U						RCNM 03
UT	122	RACER CANYON,TUFF				460	SW	C	RCRC 03
UT	122	RACER CANYON,TUFF MBR (COVE MOUNTAIN FM)							RCRC 02
CA	371+	RACETRACK,DOL	U			580	EC	C	RCCK 05
CA	374	RACETRACK,DOL	U						RCCK 06
UT	211	RACE TRACK,SS					NE	D	RCTK 01
IL	354	RACINE,DOL	U						RCIN 01
WI	354	RACINE,DOL	U			150	SE	A	RCIN 03
CA	410	RADCLIFF,FM (TELESCOPE GP)		LS		180	EC	A	RDCF 01
NM	313	RADER,LS MBR (BELL CANYON FM)	U						RDER 01
TX	313	RADER,LS MBR (BELL CANYON FM)	U			30	WC	C	RDER 02
MT	211	RADER CREEK,GRANODIORITE					SW	E	RDCK 09

IL	112	RADNOR,TILL MBR (GLASFORD FM)			7	NC	E	RDNR	01	
ID	112	RAFT,FM	U	CL,ST	61	SC	A	RAFT	01	
ME	364	RAGGED MOUNTAIN,MBR (BLUFFER POND FM)		RHY	300	NC	E	RGDM	03	
OK	374	RAGGEDY MOUNTAIN,GABBRO					C	A	RGDM	01
WA	124	RAGING RIVER,FM	U	SS,STS	910		C	D	RGRV	05
AL	344	RAGLAND,SS	U		16	NC	A	RGLD	03	
NV	371+	RAIFF,LS			850	EC	C	RIFF	01	
NV	374	RAIFF,LS							RIFF	02
OR	231	RAIL CABIN,ARGILLITE			4600		C	C	RLCB	01
NM	211	RAIL CANYON,SS MBR (VERMEJO FM)	U		15	NE	A	RLCN	03	
NV	121	RAILROAD BRIDGE,BASALT					NW	A	RDBG	01
NM	123	RAILROAD CANYON,ASH-FLOW TUFF		RHY	150	SW	E	RLDC	01	
NM	123	RAILROAD CANYON,RHYOLITE							RLDC	02
NV	123	RAILROAD VALLEY,RHYOLITE			4600	EC	D	RLDV	01	
CA	200+	RAINBOW FLAT,FM		MSED		SC	C	RBFL	01	
CA	300	RAINBOW FLAT,FM							RBFL	02
NV	210	RAINBOW GARDENS,FM		SH,LS	100	SE	E	RBGD	01	
NV	122	RAINE RANCH,FM		VOL	610	NE	C	RNRC	01	
NV	122	RAINIER MESA,MBR (TIMBER MOUNTAIN TUFF)	U		200	EC	D	RNRS	03	
OH	112	RAINSBORO,DRIFT			4	SW	E	RSBR	02	
OH	112	RAINSBORO,TILL							RSBR	03
CA	410	RAINSTORM,MBR (JOHNNIE FM)	U						RSRM	01
NV	410	RAINSTORM,MBR (JOHNNIE FM)	U	STS,LS	300	SE	D	RSRM	02	
NM	311+	RAINVALLEY,FM (NACO GP)	U						RNVL	03
AZ	317	RAINVALLEY,FM (NACO GP)	U	LS,DOL	120	SE	C	RNVL	04	
NM	317	RAINVALLEY,FM (NACO GP)	U						RNVL	05
AZ	317	RAINVALLEY,FM (SNYDER HILL GP)							RNVL	06
MN	112	RAINY,DRIFT			61	NC	D	RINY	01	
TX	318	RAINY,LS (CLEAR FORK GP)			1	C	A	RINY	04	
TX	318	RAINY,LS MBR (ARROYO FM)	U						RINY	02
TX	318	RAINY,LS MBR (CLEAR FORK FM)							RINY	03
AK	320+	RAINY CREEK,BASALT			460	EC	D	RCRK	05	
AK	330	RAINY CREEK,BASALT							RCRK	06
MT	210	RAINY CREEK,COMPLEX		IG		NW	D	RCRK	02	
MI	351	RAISIN RIVER,DOL (BASS ISLANDS GP)			61	SE	A	RRVR	03	
OH	351	RAISIN RIVER,DOL (BASS ISLANDS GP)	U						RRVR	05
MI	351	RAISIN RIVER,MBR (BASS ISLANDS DOL)	U						RRVR	04
OH	351	RAISIN RIVER,MBR (BASS ISLANDS DOL)							RRVR	06
CO	123	RA JADERO,MBR (TREASURE MOUNTAIN TUFF)	U		20	SC	E	RJDR	01	
CA	101	RAKER PEAK,DACITE				NW	A	RKPK	01	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 101	RAKER PEAK, PYROXENE ANDESITE							RKPK 02
IA 322	RAKES CREEK, MBR (TECUMSEH SH)							RKCK 12
NE 322	RAKES CREEK, MBR (TECUMSEH SH)					6 SE	A	RKCK 13
VA 327	RALEIGH, SS							RLGH 02
VA 327	RALEIGH, SS MBR (NEW RIVER FM)	U						RLGH 03
WV 327	RALEIGH, SS MBR (NEW RIVER FM)	U			53	SW	A	RLGH 06
CO 430	RALSTON BUTTES, FM		GN		2100	NC	E	RLSB 01
CO 221	RALSTON CREEK, FM	U	CLS	VAR	34	NC	C	RLCK 01
AZ 420	RAMA, FM (UNKAR GP)		VOL		300	NC	D	RAMA 01
TX 110	RAMEY, GRAVEL	U			8	WC	D	RMEY 01
ID 410	RAMEY RIDGE, COMPLEX	U	SYN			WC	D	RMRG 01
OK 323	RAMONA HILL, MBR (WANN FM)		LS		46	NE	E	RMHL 01
AK 317	RAMPART, GP	U	VSED	GN	3000	NC	A	RMPR 01
AK 317	[RAMPART, VOLCS]							RMPR 02
AZ 374	RAMPART CAVE, MBR (MUAV LS)				49	NW	C	RPCV 10
IN 338	RAMP CREEK, FM (SANDERS GP)				9	SC	A	RPCK 01
IN 338	RAMP CREEK, LS MBR (MULDRAUGH FM)							RPCK 07
IL 333+	RAMP CREEK, MBR (ULLIN LS)							RPCK 08
IL 338	RAMP CREEK, MBR (ULLIN LS)							RPCK 09
IN 338	RAMP CREEK, MBR (ULLIN LS)							RPCK 06
NJ 361	RAMSEYBURG, MBR (MARTINSBURG FM)	U	SL, STS		850	NW	D	RMBG 01
PA 361	RAMSEYBURG, MBR (MARTINSBURG FM)	U						RMBG 02
WY 124	RAMSEY RANCH, MBR (GREEN RIVER FM)		SED		280	SW	D	RMRC 01
ID 367	RAMSHORN, SLATE	U			610	SC	A	RMSR 01
NM 331+	RANCHERIA, FM							RNCR 03
TX 331+	RANCHERIA, FM		LS		78	WC	C	RNCR 04
NM 337	RANCHERIA, FM							RNCR 06
TX 337	RANCHERIA, FM							RNCR 05
CA 122	RANCHERIA, TUFF BRECCIA						C	D RNCR 02
WY 324+	RANCHESTER, LS MBR (AMSDEN FM)	U			76	NC	D	RCSR 02
WY 327	RANCHESTER, LS MBR (AMSDEN FM)	U						RCSR 03
WY 331	RANCHESTER, LS MBR (AMSDEN FM)	U						RCSR 14
DE 125	RANCOCAS, FM							RCCS 07
MD 125	RANCOCAS, FM	U						RCCS 09
NJ 124+	RANCOCAS, GP	U	GLC		14	C	A	RCCS 05
DE 125	RANCOCAS, GP	U						RCCS 08
MD 125	RANCOCAS, GP	U						RCCS 10
NJ 125	RANCOCAS, GP	U						RCCS 11
PA 125	RANCOCAS, GP	U						RCCS 12
CA 400	RAND, SCHIST	U			610	SE	A	RAND 01

WA	123+	[RANDLE,LAHAR]						SC	C	RNDL	08	
WA	124	[RANDLE,LAHAR]								RNDL	09	
WA	123+	/RANDLE,LAHARIC BRECCIA-CGL								RNDL	04	
WA	124	/RANDLE,LAHARIC BRECCIA-CGL								RNDL	07	
NH	341	/RANDOLPH,GRANITE (NEW HAMPSHIRE GP)						EC	A	RDLP	03	
VT	341	/RANDOLPH,GRANITE (NEW HAMPSHIRE GP)								RDLP	09	
VT	340+	RANDOLPH,PHYLLITE							C	A	RDLP	04
VT	350	RANDOLPH,PHYLLITE									RDLP	08
MI	430	RANDVILLE,DOL (CHOCOLAY GP)				U		460	NW	A	RDVL	08
ME	357	RANGELEY,FM				U	CGL	1300	WC	A	RNGL	03
CO	211	RANGELY,TONGUE (MANCOS SH)							NW	C	RNGL	01
UT	211	RANGELY,TONGUE (MANCOS SH)									RNGL	02
TX	321	RANGER,LS (BRAD GP)						20	C	A	RNGR	03
TX	321	RANGER,LS (CANYON GP)									RNGR	06
TX	321	RANGER,LS MBR (BRAD FM)				U					RNGR	04
WY	400	RANGER,MARBLE						730	SE	A	RNGR	05
CA	364	RANGER MOUNTAINS,MBR (ANTELOPE VALLEY LS)				U					RGRM	03
NV	364	RANGER MOUNTAINS,MBR (ANTELOPE VALLEY LS)				U		66	SE	D	RGRM	01
IA	344	RAPID,LS MBR (CEDAR VALLEY FM)						9	EC	A	RPID	02
MN	344	RAPID,MBR (CEDAR VALLEY FM)									RPID	04
SD	217	RAPID CITY,LENS (NEWCASTLE SS)						8	WC	C	RPDC	01
SD	430	RAPID CREEK,GREENSTONE (FLAG ROCK GP)				U			WC	E	RPCK	05
LA	212	RAPIDES,FM					SH	58	C	B	RPDS	01
OH	337	RARDEN,SH MBR (CUYAHOGA FM)						18	SC	A	RRDN	09
OH	337	RARDEN,SH MBR (LOGAN FM)									RRDN	10
MA	211	RARITAN,FM									RRTN	01
NJ	211	RARITAN,FM				U	CL	9	NC	A	RRTN	02
NY	211	RARITAN,FM				U					RRTN	03
PA	211	RARITAN,FM				U					RRTN	04
RI	211	RARITAN,FM									RRTN	06
MD	211	RARITAN,FM (POTOMAC GP)				U					RRTN	05
NV	231	RASPBERRY,FM (AULD LANG SYNE GP)				U	SL	2400	NC	C	RPBR	01
AK	120+	RAT,FM				U	LV		SW	C	RAT	01
AK	200	RAT,FM				U					RAT	02
MT	337	RATCLIFFE,FM (MADISON GP)						46	CAN	E	RCLF	02
ND	337	RATCLIFFE,FM (MADISON GP)					LS				RCLF	01
CO	123	RAT CREEK,TUFF				U		150	SW	A	RCRK	01
NY	364	RATHBUN,LS MBR (DENMARK FM)						3	C	C	RTBN	01
NY	364	RATHBUN,MBR (SHOREHAM FM)									RTBN	02
NY	367	RATHBUNVILLE SCHOOL,MBR (BALDWIN CORNER FM)					LS	2	EC	D	RBVS	01

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CT	361	RATLUM MOUNTAIN, MBR (SATANS KINGDOM FM)		SCH			NC	D	RLMM 01
NM	110	/RATON, BASALT				150	NE	C	RTON 01
CO	125+	RATON, FM	U						RTON 02
NM	125+	RATON, FM	U	SH		610	NE	A	RTON 03
CO	211	RATON, FM	U						RTON 04
NM	211	RATON, FM	U						RTON 05
AZ	211	RATTLER, GRANODIORITE					SC	E	RTL R 01
OR	112+	RATTLESNAKE, FM	U	VSED		78	EC	A	RLSK 01
OR	121	RATTLESNAKE, FM	U						RLSK 02
CA	201	/RATTLESNAKE, GRANITE					SE	A	RLSK 04
CT	361+	RATTLESNAKE HILL, FM (HARTLAND GP)		SCH			NC	D	RLKH 03
CT	364	RATTLESNAKE HILL, FM (HARTLAND GP)							RLKH 07
MA	344	/RATTLESNAKE HILL, MUSCOVITE GRANITE					C	E	RLKH 05
AZ	400	RATTLESNAKE POINT, GRANITE					SE	C	RLKP 01
WA	121	RATTLESNAKE RIDGE, MBR (ELLENSBURG FM)		ST, TF		45	SC	D	RKRG 01
NV	211	RATTLESNAKE SPRING, GRANODIORITE	U				NW	E	RKSP 06
NV	123	RATTO SPRING, RHYODACITE	U				EC	E	RSPG 19
UT	120	RAUL CANYON, BASALT					NW	C	RLCN 01
ID	420	RAVALLI, ARGILLITE (BELT SUPERGROUP)	U						RVLL 02
MT	420	RAVALLI, ARGILLITE (BELT SUPERGROUP)	U			2500	WC	A	RVLL 05
WA	420	RAVALLI, ARGILLITE (BELT SUPERGROUP)	U						RVLL 08
ID	420	RAVALLI, FM (BELT SUPERGROUP)							RVLL 03
WA	420	RAVALLI, FM (BELT SUPERGROUP)							RVLL 09
ID	420	RAVALLI, GP (BELT SUPERGROUP)	U						RVLL 04
MT	420	RAVALLI, GP (BELT SUPERGROUP)	U						RVLL 07
WA	420	RAVALLI, GP (BELT SUPERGROUP)	U						RVLL 10
NY	347	RAVENA, LS MBR (COEYMANS FM)				6	EC	D	RVEN 01
NY	347	RAVENA, MBR (COEYMANS LS)	U						RVEN 02
NJ	231	RAVEN ROCK, MBR (STOCKTON FM)		ARK		89	WC	C	RVRK 01
NY	360	RAVENSWOOD, GNEISS					SE	A	RVSD 02
NY	400	RAVENSWOOD, GRANODIORITE	U						RVSD 01
IL	111	RAVINIA, SAND MBR (LAKE MICHIGAN FM)					NE	E	RVIN 01
NV	123	RAWHIDE, FM		IGNM		1700	C	E	RWHO 01
CO	123	RAWLEY, ANDESITE	U			460	SC	A	RWLY 01
KS	122	RAWLINS, ASH BED (ASH HOLLOW MBR OF OGALLALA FM)				1	NW	C	RLNS 01
TX	101	RAWLS, BASALT (BOFECILLOS GP)				730	WC	C	RWLS 02
TX	101	RAWLS, BASALT (BUCK HILL GP)							RWLS 01
TX	101	RAWLS, FM (BOFECILLOS GP)							RWLS 03
NY	341	RAWSON, FM (CONNEAUT GP)		SS, STS		75	WC	D	RWSN 01
MT	331	RAY, MBR (KIBBEY FM)		LS		9	C	D	RAY 01

CA	121	RAYMOND PEAK, ANDESITE							C	C	RMPK	01
IA	323	RAYTOWN, MBR (IOLA LS)	U								RYTN	02
KS	323	RAYTOWN, MBR (IOLA LS)	U								RYTN	03
MO	323	RAYTOWN, MBR (IOLA LS)	U					2	WC	A	RYTN	06
TX	324	RAYVILLE, FM (KICKAPOO CREEK GP)			LS, SH	300			C	C	RVLL	01
AL	327	RAZBURG, SS MBR (POTTSVILLE FM)	U					9	NC	A	RZBG	01
NM	123	RAZORBACK, FM			VOL	150			SW	C	RZBK	01
VT	371	READING, GNEISS							SC	A	RDNG	12
MA	320+	/READING, GRANITE							NE	D	RDNG	04
MA	330	/READING, GRANITE									RDNG	10
OK	322	READING, LS (VANOSS GP)									RDNG	15
IA	322	READING, LS (WABAUNSEE GP)									RDNG	05
MO	322	READING, LS MBR (EMPORIA FM)									RDNG	13
IA	322	READING, MBR (EMPORIA LS)	U								RDNG	06
KS	322	READING, MBR (EMPORIA LS)	U					1	EC	A	RDNG	07
NE	322	READING, MBR (EMPORIA LS)	U								RDNG	08
OK	322	READING, MBR (EMPORIA LS)	U								RDNG	09
VT	377	READSBORO, MBR (CAVENDISH FM)						1200	SW	A	RDBR	02
VT	377	READSBORO, SCHIST									RDBR	01
WI	364	READSTOWN, MBR (ST. PETER SS)							SC	D	RDSN	20
AK	111	READY BULLION, FM	U		LOS			2	EC	E	RDBL	01
NM	341	READY PAY, MBR (PERCHA SH)				BK		40	SW	C	RDYP	01
KS	371	REAGAN, SS	U								REGN	01
OK	371	REAGAN, SS (TIMBERED HILLS GP)	U					150	SE	A	REGN	02
KS	122	REAGER, ASH BED (ASH HOLLOW MBR OF OGALLALA FM)						3	NW	C	REGR	01
KS	122	REAMSVILLE, ASH BED (ASH HOLLOW MBR OF OGALLALA FM)						1	NW	C	RMVL	01
MI	430	REANY CREEK, FM (CHOCOLAY GP)			GYK			1500	NC	E	RCRK	08
SD	430	REAU SAW, SLATE (WINDY FLATS GP)	U						WC	E	RUSW	01
KY	361	REBA, MBR (ASHLOCK FM)	U		LS			8	EC	D	REBA	01
AZ	221	RECAPTURE, SH MBR (MORRISON FM)	U								RCPR	01
CO	221	RECAPTURE, SH MBR (MORRISON FM)	U								RCPR	02
NM	221	RECAPTURE, SH MBR (MORRISON FM)	U								RCPR	03
UT	221	RECAPTURE, SH MBR (MORRISON FM)	U			VAR		91	SE	C	RCPR	04
CA	111	RECESS PEAK, TILL	U						C	D	RCPK	01
SD	324+	RECLAMATION, FM									RCLM	01
SD	327	RECLAMATION, FM									RCLM	05
WY	324+	RECLAMATION, MBR (HARTVILLE FM)			LS, SH	VAR		27	SE	C	RCLM	02
NE	326+	RECLAMATION, MBR (HARTVILLE FM)									RCLM	03
WY	327	RECLAMATION, MBR (HARTVILLE FM)									RCLM	06
NE	328	RECLAMATION, MBR (HARTVILLE FM)									RCLM	04

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AZ 122	RECORTADO,WELDED TUFF					SC	D	RCRD 02
AZ 220	RECREATION,RED BEDS				390	SC	C	RCRN 01
CA 217	RECTOR,CGL MBR (BUDDEN CANYON FM)		SS,CGL		120	NW	C	RCTR 03
CA 217	RECTOR,FM							RCTR 01
CA 121	RED AMPHITHEATER,BRECCIA . . . . .					EC	C	RAMP 01
NJ 211	RED BANK,FM				43	EC	A	RDBK 01
DE 211	RED BANK,FM (MONMOUTH GP)							RDBK 05
NJ 211	RED BANK,SAND (MONMOUTH GP)	U						RDBK 03
FL 122	RED BAY,FM		SD,CL		10	NW	D	RDBY 02
ME 347	RED BEACH,GRANITE . . . . .					SE	C	ROBC 04
MT 211	[RED BIRD,MBR (PIERRE SH)]							RDBD 04
SD 211	[RED BIRD,MBR (PIERRE SH)]							RDBD 06
WY 211	[RED BIRD,MBR (PIERRE SH)]				230	EC	D	RDBD 05
MT 211	/RED BIRD,SILTY MBR (PIERRE SH)	U						RDBD 01
SD 211	/RED BIRD,SILTY MBR (PIERRE SH)	U						RDBD 02
WY 211	/RED BIRD,SILTY MBR (PIERRE SH)	U						RDBD 03
FL 123	RED BLUFF,CLAY	U						RDBF 05
AL 123	RED BLUFF,CLAY (VICKSBURG GP)	U						RDBF 04
LA 123	RED BLUFF,CLAY (VICKSBURG GP)							RDBF 08
MS 123	RED BLUFF,CLAY (VICKSBURG GP)	U			4	SE	A	RDBF 06
MT 104	RED BLUFF,FM		STS	VAR		SC	C	RDBF 01
CA 112	RED BLUFF,FM	U			61	NW	A	RDBF 02
MS 123	RED BLUFF,FM							RDBF 09
TX 400	/RED BLUFF,GRANITE					WC	C	RDBF 07
CA 112	RED BLUFF,GRAVEL . . . . .							RDBF 03
AZ 211	RED BOY,RHYOLITE	U			300	SC	D	RDBY 01
OK 212	RED BRANCH,MBR (WOODBINE FM)	U						RDBC 01
TX 212	RED BRANCH,MBR (WOODBINE FM)	U	SS,SH		24	NE	C	RDBC 02
IN 354	RED BRIDGE,LS BED (LISTON CREEK MBR OF WABASH FM)				2	NC	A	RDBG 06
AZ 121	RED BUTTE,BASALT . . . . .					NC	D	RDBT 01
OR 122	RED BUTTE,MBR (DEER BUTTE FM)					SE	D	RDBT 04
CA 122	RED BUTTES,QUARTZ BASALT (TROPICO GP)	U		BK	110	SE	C	RDBS 01
MN 420	RED CLIFF,BASALT (NORTH SHORE GP)				270	NE	E	RDCF 02
OR 112	REDCLOUD,DACITE					SW	C	RDCD 07
KS 112	RED CLOUD,FM . . . . .	U						RDCD 01
NE 112	RED CLOUD,FM	U	SD,GVL		10	SC	C	RDCD 04
OR 112+	[RED CONE,BASALT]					SW	C	RDCN 07
OR 121	[RED CONE,BASALT]							RDCN 08
OR 112+	/RED CONE,BASALT FLOW							RDCN 01
OR 121	/RED CONE,BASALT FLOW . . . . .							RDCN 02

CO	440	RED CREEK,COMPLEX												RDCK	05		
UT	440	RED CREEK,COMPLEX						3000	NE	A				RDCK	07		
CO	440	RED CREEK,QTZ				U								RDCK	06		
UT	440	RED CREEK,QTZ				U								RDCK	08		
WY	124	RED DESERT,TONGUE (WASATCH FM)				U	SH	120	SC	C				RDDR	01		
CA	211	REDDING,FM					SED			NW	D			RDNG	02		
OR	211	REDDING,FM												RDNG	17		
SD	112	RED DOG,LOESS												RDDG	01		
WY	231	RED DRAW,MBR (JELM FM)				U	CST	18	SW	E				RDDR	02		
KS	317	RED EAGLE,LS (COUNCIL GROVE GP)				U		30	SE	E				RDEG	01		
NE	317	RED EAGLE,LS (COUNCIL GROVE GP)				U								RDEG	02		
OK	317	RED EAGLE,LS (COUNCIL GROVE GP)				U						5	NE	A	RDEG	03	
OK	317	RED EAGLE,LS (VANOSS GP)													RDEG	05	
OK	317	RED EAGLE,LS MBR (KONAWA FM)													RDEG	04	
AR	124	REDFIELD,FM (JACKSON GP)					SED	61		C	C			RDFD	01		
AK	224	RED GLACIER,FM (TUXEDNI GP)				U	SS,SH	1400		C	D			RDGC	01		
NH	227+	RED HILL,SYENITE COMPLEX (WHITE MOUNTAIN GP)									EC	C		RDHL	04		
NH	231	RED HILL,SYENITE COMPLEX (WHITE MOUNTAIN GP)												RDHL	05		
NM	320	RED HOUSE,FM (MAGDALENA GP)					LS,SH	110	SW	C				RDHS	02		
CA	211	REDIL,SH (PANOCHE GP)						1600		C	C			RDIL	01		
TN	364	RED KNOBS,FM					LS	RD		EC	C			RDKB	03		
MN	112	RED LAKE FALLS,FM					ST,SD	22		NW	E			RLKF	01		
ND	112	RED LAKE FALLS,FM												RLKF	02		
MN	112	RED LAKE FALLS,MBR (COLEHARBOR FM)												RLKF	03		
CA	410	REDLANDS,LS (TELESCOPE GP)							WH	EC	A			RDLN	01		
MT	371	RED LION,FM				U	LS	84		WC	A			RDLN	01		
AZ	224	RED MESA,MBR (ENTRADA SS)											30	NE	C	RDMS	02
NM	224	RED MESA,MBR (ENTRADA SS)														RDMS	04
UT	224	RED MESA,MBR (ENTRADA SS)														RDMS	05
CA	121	RED MOUNTAIN,ANDESITE											430	SE	A	RDMN	06
NM	110	RED MOUNTAIN,DACITE										NE	C			RDMN	03
AL	354+	RED MOUNTAIN,FM				U	SS,SH	RD	91	NC	A			RDMN	09		
GA	354+	RED MOUNTAIN,FM				U										RDMN	10
AL	357	RED MOUNTAIN,FM				U										RDMN	11
GA	357	RED MOUNTAIN,FM				U										RDMN	12
TX	400	/RED MOUNTAIN,GNEISS												C	C	RDMN	15
WY	420	/RED MOUNTAIN,HORNBLLENDE SYENITE										SE	E			RDMN	16
OR	217	/RED MOUNTAIN,LEUCOGRANODIORITE										NE	C			RDMN	08
CA	101	/RED MOUNTAIN,PHYOXENE BASALT										NW	A			RDMN	02
MT	120	RED MOUNTAIN,RHYOLITE							RD				SC	C		RDMN	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WY 121	RED MOUNTAINS,RHYOLITE					NW	D	RDMS 01
VA 400	REDOAK,GRANITE					SC	A	RDOK 02
OK 331	REDOAK HOLLOW,FM					SC	C	RDKH 01
OK 331	REDOAK HOLLOW,MBR (GODDARD SH)							RDKH 02
TN 324	REDOAK MOUNTAIN,FM		SH,SS		110	NE	C	RDKM 02
TN 324	REDOAK MOUNTAIN,GP							RDKM 01
NM 231	REDONDA,FM	U	STS,SS		66	NE	C	RDND 01
NM 112	REDONDO CREEK,MBR (VALLES RHYOLITE)				150	NC	E	RDCK 01
CO 237	RED PEAK,FM							RDPK 01
WY 237	RED PEAK,FM (CHUGWATER GP)		SH,SS	RD	170	NW	C	RDPK 03
CO 237	RED PEAK,MBR (CHUGWATER FM)	U						RDPK 02
WY 237	RED PEAK,MBR (CHUGWATER FM)	U						RDPK 04
UT 420	RED PINE,SH (UINTA MOUNTAIN GP)	U			540	NE	C	RDPN 01
MT 420	RED PLUME,QTZ (BELT SUPERGROUP)			RD	240	NW	D	RDPH 02
MN 361	RED RIVER,FM	U	LS		76	CAN	C	RDRV 10
MT 361	RED RIVER,FM (BIGHORN GP)	U						RDRV 11
ND 361	RED RIVER,FM (BIGHORN GP)	U						RDRV 12
SD 361	RED RIVER,FM (BIGHORN GP)	U						RDRV 13
WY 361	RED RIVER,FM (BIGHORN GP)	U						RDRV 14
AR 112	RED RIVER,LOESS				15	SW	A	RDRV 01
LA 112	RED RIVER,LOESS							RDRV 02
OK 112	RED RIVER,LOESS							RDRV 03
TX 112	RED RIVER,LOESS							RDRV 04
NV 230	/RED ROCK,LS				240	NW	C	RRCK 05
AZ 430	RED ROCK,RHYOLITE				300	C	C	RRCK 07
MN 420	RED ROCK,RHYOLITE (NORTH SHORE GP)			RD	60	NE	E	RRCK 08
CA 122	REDROCK CANYON,SS MBR (SANTA MARGARITA FM)	U		RD	150	SC	A	RCKC 01
CA 112	[RED SHALE BUTTE,ANDESITE]		VOL			NC	C	RDSB 02
CA 112	RED SHALE BUTTE,COMPLEX							RDSB 01
CO 420	REDSKIN,GRANITE	U				C	D	RDSK 01
TN 324	RED SPRING,SS MBR (HIGNITE FM)	U			15	NE	A	RSPG 08
PA 321	/REDSTONE,CLAY [BED] (MONONGAHELA FM)					WC	A	RDSN 12
OH 321	/REDSTONE,CLAY MBR (MONONGAHELA FM)							RDSN 06
PA 321	/REDSTONE,COAL [BED] (MONONGAHELA FM)					WC	A	RDSN 22
CT 304	REDSTONE,GRANITE (STERLING GP)					EC	A	RDSN 01
RI 304	REDSTONE,GRANITE (STERLING GP)							RDSN 02
MD 321	/REDSTONE,LS MBR (MONONGAHELA FM)	U						RDSN 04
OH 321	/REDSTONE,LS MBR (MONONGAHELA FM)	U						RDSN 07
PA 321	/REDSTONE,LS MBR (MONONGAHELA FM)				3	WC	A	RDSN 13
MD 321	[REDSTONE,MBR (PITTSBURGH FM)]							RDSN 24

OH	321	REDSTONE,MBR (PITTSBURGH FM)								RDSN	08
PA	321	REDSTONE,MBR (PITTSBURGH FM)	U	STS,LS		16	WC	A		RDSN	14
WV	321	REDSTONE,MBR (PITTSBURGH FM)	U							RDSN	18
OH	321	/REDSTONE,RED-BED MBR (MONONGAHELA FM)								RDSN	09
MD	321	/REDSTONE,SS MBR (MONONGAHELA FM)								RDSN	05
PA	321	/REDSTONE,SS [MBR] (MONONGAHELA FM)						WC	A	RDSN	16
NM	321	RED TANKS,MBR (MADERA LS)	U			91	WC	C		RDTK	01
NE	122	RED VALLEY,MBR (BOX BUTTE FM)		SD	RD	11	NW	E		RDVL	10
AZ	331+	REDWALL,LS	U			240	NC	A		RDLL	02
UT	331+	REDWALL,LS	U							RDLL	04
AZ	337	REDWALL,LS	U							RDLL	05
UT	337	REDWALL,LS	U							RDLL	07
UT	340+	RED WARRIOR,LS	U			460	SW	A		RDWR	01
UT	351	RED WARRIOR,LS	U							RDWR	02
UT	237	RED WASH,FM	U	SS,SH	RD	330	NE	C		RDWS	02
CO	221	REDWATER,SH MBR (SUNDANCE FM)	U							RDTR	01
MT	221	REDWATER,SH MBR (SUNDANCE FM)								RDTR	04
SD	221	REDWATER,SH MBR (SUNDANCE FM)	U			41	WC	C		RDTR	02
WY	221	REDWATER,SH MBR (SUNDANCE FM)	U							RDTR	03
AK	122+	REDWOOD,FM		SH,SS		1600	EC	A		RDWD	02
AK	123	REDWOOD,FM								RDWD	01
CA	211	REDWOOD CANYON,FM	U	SS,SH		600	WC	D		RDDC	01
CA	410	/REED,DOL	U			610	C	A		REED	04
NV	410	/REED,DOL	U							REED	05
UT	331	REED,FM	U	LS,SS		290	NC	A		REED	03
CA	124	REED CANYON,STS MBR (TEJON FM)	U			49	SC	C		RDCN	03
OK	317	REEDING,SS				2	C	C		RDNG	03
OK	317	REEDING,SS BED (BISON FM)								RDNG	16
OK	317	REEDING,SS [BED] (CEDAR HILLS MBR OF HENNESSEY SH)								RDNG	14
ME	364	REED POND,MBR (MUNSUNGUN LAKE FM)		VOL,BR		300	NC	E		RDPD	01
CA	123+	REEDS CREEK,ANDESITE					NW	C		RDCK	02
CA	124	REEDS CREEK,ANDESITE								RDCK	03
OK	337	REEDS SPRING,FM								RSPG	15
KS	337	REEDS SPRING,LS								RSPG	18
MO	338	REEDS SPRING,LS	U			69	SW	A		RSPG	12
AR	337	REEDS SPRING,MBR (BOONE FM)	U							RSPG	10
KS	337	REEDS SPRING,MBR (BOONE FM)	U							RSPG	11
OK	337	REEDS SPRING,MBR (BOONE FM)	U							RSPG	16
KS	337	REEDS SPRING,MBR (FERN GLEN LS)	U							RSPG	17
PA	361	REEDSVILLE,FM				300	C	A		RDVL	12



ST.	GEOLOG. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA	361	REEDSVILLE,SH	U						RDVL 05
TN	361	REEDSVILLE,SH	U						RDVL 11
VA	361	REEDSVILLE,SH	U						RDVL 07
WV	361	REEDSVILLE,SH	U						RDVL 09
TN	361	REEDSVILLE,SH (CHICKAMAUGA GP)							RDVL 06
CA	122	REEF RIDGE,SH	U			240	C A		RFRG 01
CA	122	REEF RIDGE,SH MBR (MONTEREY FM)							RFRG 02
IL	323	REEL,LS MBR (BOND FM)				1	SE C		REEL 02
IN	332	REELSVILLE,LS	U			1	C A		RLVL 04
KY	332	REELSVILLE,LS	U						RLVL 07
IN	332	REELSVILLE,LS (WEST BADEN GP)							RLVL 05
IL	332	REELSVILLE,LS MBR (RIDENHOWER FM)							RLVL 11
CA	311	REEVE,META-ANDESITE	U			61	NW A		REEV 01
WA	370	REEVES,LS MBR (MAITLEN PHYLLITE)	U				CAN D		REVS 06
OK	374	REFORMATORY,GRANITE					C A		RFRM 01
NM	124	REGINA,MBR (SAN JOSE FM)	U	SH,STS		270	NW D		RGIN 01
IL	322	REISNER,LS MBR (MATTOON FM)				<1	EC C		RSNR 01
LA	124	REKLAW,FM (CLAIBORNE GP)	U			6	EC A		RKLW 01
TX	124	REKLAW,FM (CLAIBORNE GP)	U	SH					RKLW 02
OK	311	RELAY CREEK,DOL				1	C A		RLCK 05
OK	311	RELAY CREEK,DOL BEDS (MARLOW FM)	U						RLCK 06
KS	311	RELAY CREEK,DOL MBR (WHITEHORSE FM)							RLCK 03
OK	311	RELAY CREEK,MBR (MARLOW FM)]							RLCK 11
NM	120	RELICA PEAK,RHYOLITE					NC E		RCPK 02
CA	330	RELIEF,QTZ	U				NC A		RLIF 01
CA	121+	RELIEF PEAK,FM		VOL		910	C D		RFPK 01
CA	122	RELIEF PEAK,FM							RFPK 02
CA	124	RELIZ CANYON,FM				590	WC D		RLZC 01
NH	341	REMICK,TONALITE (NEW HAMPSHIRE GP)	U	SS			C A		RMCK 03
WA	220	REMMEL,GRANODIORITE					NC A		RMML 02
IN	332+	RENAULT,FM	U						RNLT 08
KY	332+	RENAULT,FM	U						RNLT 05
MO	332+	RENAULT,FM							RNLT 07
IN	333	RENAULT,FM	U						RNLT 12
KY	333	RENAULT,FM	U						RNLT 10
MO	333	RENAULT,FM							RNLT 09
IN	332+	RENAULT,FM (BLUE RIVER GP)							RNLT 03
IN	333	RENAULT,FM (BLUE RIVER GP)							RNLT 13
KY	332+	RENAULT,LS	U						RNLT 06
KY	333	RENAULT,LS	U						RNLT 11

IL	332+	RENAULT,LS (CEDAR BLUFF GP)				30	SW	A	RNLT	01		
IL	333	RENAULT,LS (CEDAR BLUFF GP)							RNLT	14		
UT	122	RENCHER,FM			VSED	180	SW	C	RNCR	01		
WY	440	RENDEZVOUS,METAGABBRO			U		NW	E	RDZV	01		
IL	344	RENDELMAN,DOOLITE BED (WALNUT GROVE MBR OF LINGLE LS)				<1	SC	E	RDLM	01		
AK	351	RENDU,FM			U	LS,ARG VAR	610	EC	D	RNDU	01	
CO	124	RENEGADE,TONGUE (WASATCH FM)			U					RNGD	01	
UT	124	RENEGADE,TONGUE (WASATCH FM)			U	SS,SH	300	SE	D	RNGD	02	
KY	333+	RENFRO,MBR (BORDEN FM)				LS	30	SE	D	RNFR	01	
KY	338	RENFRO,MBR (BORDEN FM)								RNFR	02	
ID	374	RENNIE,SH			U		23	NW	A	RNNI	01	
MN	371	RENO,MBR (FRANCONIA FM)			U	GNS	35	SE	C	RENO	01	
WI	371	RENO,MBR (FRANCONIA SS)			U					RENO	02	
MT	123+	RENOVA,FM (BOZEMAN GP)				SED	300	SW	E	RNOV	01	
MT	124	RENOVA,FM (BOZEMAN GP)								RNOV	02	
NY	377+	RENSELAER,GRAYWACKE			U		610	EC	A	RSLR	05	
VT	377+	RENSELAER,GRAYWACKE			U					RSLR	07	
NY	400	RENSELAER,GRAYWACKE			U					RSLR	09	
VT	400	RENSELAER,GRAYWACKE			U					RSLR	11	
NY	377+	RENSELAER,GRAYWACKE MBR (NASSAU FM)								RSLR	06	
VT	377+	RENSELAER,GRAYWACKE MBR (NASSAU FM)								RSLR	08	
NY	400	RENSELAER,GRAYWACKE MBR (NASSAU FM)								RSLR	10	
VT	400	RENSELAER,GRAYWACKE MBR (NASSAU FM)								RSLR	12	
WA	123+	RENTON,FM (PUGET GP)			U	SS	1200	C	D	RNTN	01	
WA	124	RENTON,FM (PUGET GP)			U					RNTN	02	
NY	341	RENWICK,MBR (ITHACA FM)					6	C	A	RNCK	02	
NY	341	RENWICK,SH MBR (GENESEE FM)			U					RNCK	01	
NV	120	RESCUE CANYON,RHYOLITE								RSCC	01	
NV	310+	RESERVATION HILL,FM			U	SS			EC	E	RVHL	01
NV	320	RESERVATION HILL,FM			U				NC	E	RVHL	02
MN	420	RESERVATION RIVER,DIABASE COMPLEX (KEWEENAWAN SUPERGROUP)							RD		RVHL	02
KS	317	RESERVE,SH MBR (FALLS CITY LS)							NE	E	RVRV	02
NE	317	RESERVE,SH MBR (FALLS CITY LS)							NE	A	RSRV	02
NY	400	RESERVOIR,GRANITE									RSRV	03
NY	400	RESERVOIR HILL,GRANITE							SE	A	RRVR	09
CO	324	RESOLUTION,DOL MBR (MINTURN FM)			U		30		NC	A	RVHL	03
OR	110	RESORT,LAVA							C	C	RSLN	03
CA	112	RESTING SPRINGS,FM			U	SS,CGL	300		C	E	RSRT	01
WA	122+	RESTORATION POINT,MBR (BLAKELEY FM)				STS,SS	1200		EC	C	RGSP	01
WA	123	RESTORATION POINT,MBR (BLAKELEY FM)							WC	C	RSRP	01
											RSRP	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 331	REST SPRING,SH	U			90	EC	C	RSPG 09
ID 311	/RETORT,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U						RTRT 01
MT 311	/RETORT,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U			18	SW	C	RTRT 03
UT 311	/RETORT,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U						RTRT 05
WY 311	/RETORT,PHOSPHATIC SH MBR (PHOSPHORIA FM)	U						RTRT 07
MT 311	[RETORT,PHOSPHORITE MBR (PHOSPHORIA FM)]							RTRT 15
ID 311	[RETORT,SH MBR (PHOSPHORIA FM)]							RTRT 10
MT 311	[RETORT,SH MBR (PHOSPHORIA FM)]							RTRT 11
UT 311	[RETORT,SH MBR (PHOSPHORIA FM)]							RTRT 13
WY 311	[RETORT,SH MBR (PHOSPHORIA FM)]							RTRT 12
ID 311	RETORT,TONGUE (PHOSPHORIA FM)	U						RTRT 02
MT 311	RETORT,TONGUE (PHOSPHORIA FM)	U						RTRT 04
UT 311	RETORT,TONGUE (PHOSPHORIA FM)	U						RTRT 06
WY 311	RETORT,TONGUE (PHOSPHORIA FM)	U						RTRT 08
AK 344	/RETREAT,GP	U			1800	EC	C	RTRT 09
AK 344	[RETREAT,SCHIST]							RTRT 14
MA 320	REUBENS HILL,FM		GN,SCH			EC	D	RBHL 04
VA 400	REUSENS,MIGMATITE					SC	C	RSNS 01
OK 323	REWARD,SS MBR (TALLANT FM)	U			24	NE	A	RVRD 01
KY 324	REVELO,SH				12	SE	D	RVLO 01
TN 327	REVELO,SH (CROOKED FORK GP)							RVLO 02
ID 420	REVETT,FM (RAVALLI GP)	U	QTZ		300	NW	A	RVTT 01
MT 420	REVETT,FM (RAVALLI GP)	U						RVTT 02
WA 420	REVETT,FM (RAVALLI GP)	U						RVTT 03
CA 310	REWARD,CGL				110	C	A	RWRD 01
CA 310	REWARD,CGL MBR (OWENS VALLEY FM)	U						RWRD 02
ID 311	REX,CHERT MBR (PHOSPHORIA FM)	U			140	SE	A	REX 01
MT 311	REX,CHERT MBR (PHOSPHORIA FM)	U						REX 03
UT 311	REX,CHERT MBR (PHOSPHORIA FM)	U						REX 05
WY 311	REX,CHERT MBR (PHOSPHORIA FM)	U						REX 07
ID 311	REX,TONGUE (PHOSPHORIA FM)	U						REX 02
MT 311	REX,TONGUE (PHOSPHORIA FM)	U						REX 04
UT 311	REX,TONGUE (PHOSPHORIA FM)	U						REX 06
WY 311	REX,TONGUE (PHOSPHORIA FM)	U						REX 08
KS 121	REXRoad,FM	U	MS,ST		24	SW	C	RXRd 01
OK 121	REXRoad,FM	U						RXRd 02
NY 354	REYNALES,LS (CLINTON GP)	U			7	WC	A	RNLS 01
WV 331	/REYNOLDS,LS MBR (BLUEFIELD FM)				23	SC	A	RLDS 09
KY 324	REYNOLDS,SS MBR (HIGNITE FM)	U			30	SE	A	RLDS 03
TN 324	REYNOLDS,SS MBR (HIGNITE FM)	U						RLDS 05

VA	324	REYNOLDS,SS MBR (HIGNITE FM)	U							RLDS	07
KY	324	REYNOLDS,SS MBR (WISE FM)								RLDS	04
VA	324	REYNOLDS,SS MBR (WISE FM)	U							RLDS	08
ID	121+	REYNOLDS BASIN,GP		VOL		300	SW	E		RLDB	01
ID	122	REYNOLDS BASIN,GP								RLDB	02
IL	326	REYNOLDSBURG,COAL MBR (ABBOTT FM)					1	SC	C	RDBG	03
NY	341	RHINESTREET,FM					16	WC	A	RNSR	04
PA	341	RHINESTREET,FM (WEST FALLS GP)								RNSR	03
NY	341	RHINESTREET,SH (WEST FALLS GP)								RNSR	05
NY	341	RHINESTREET,SH MBR (WEST FALLS FM)	U							RNSR	02
OK	331	RHODA CREEK,FM		SH		43	SE	C		RDCK	04
MA	320	RHODE ISLAND,FM	U							RDID	02
RI	320	RHODE ISLAND,FM	U	SH,SS		3000	EC	A		RDID	03
NM	341	RHODES CANYON,FM		SH,STS		15	SC	C		RDSC	01
OR	122	RHODODENDRON,MBR (SARDINE FM)	U	VOL		150	NC	A		RDDD	01
AZ	122	RHYOLITE CANYON,FM	U	RHY		580	SE	C		RLCN	02
NV	317	RIB HILL,FM				980	EC	C		RBHL	02
WI	430	RIB HILL,QTZ	U			1200	C	A		RBHL	08
NV	317	RIB HILL,SS	U							RBHL	03
WI	400	RIB MOUNTAIN,QTZ						C	D	RBMN	01
CA	121	RICARDO,FM	U	TF		1500	SC	A		RCRD	01
KS	400	RICE,FM		SS,SH		>1000	C	D		RICE	01
MA	410	RICE,GNEISS	U			760	NC	E		RICE	02
VT	377	RICE HILL,MBR (BRIDGEMAN HILL FM)		SH				NC	D	RCHL	04
NH	364	RICE MOUNTAIN,MBR (DIXVILLE FM)		SCH		460	NE	D		RCMN	02
CA	123+	RICES,MUDSTONE MBR (SAN LORENZO FM)						WC	C	RICS	01
CA	124	RICES,MUDSTONE MBR (SAN LORENZO FM)								RICS	02
PA	341	RICEVILLE,FM (CONEWANGO GP)				24	NW	A		RCVL	08
PA	341	RICEVILLE,SH	U							RCVL	06
ID	224	RICH,MBR (TWIN CREEK LS)	U							RICH	01
UT	224	RICH,MBR (TWIN CREEK LS)	U			130	NC	D		RICH	02
WY	224	RICH,MBR (TWIN CREEK LS)	U							RICH	03
VA	300	RICH ACRES,NORITE						SC	E	RCAC	01
CO	211	RICHARD,SS MBR (PIERRE SH)	U			18	NC	A		RCRD	03
NC	410	RICH BUTT,SS (OCOEE SUPERGROUP)	U							RCBT	01
TN	410	RICH BUTT,SS (OCOEE SUPERGROUP)	U			910	EC	C		RCBT	02
MI	344	RICHFIELD,MBR (LUCAS FM)	U	DOL		24	EC	C		RCFD	01
IA	323	RICHFIELD QUARRY,SH MBR (DRUM LS)								RCFQ	01
NE	323	RICHFIELD QUARRY,SH MBR (DRUM LS)				1	EC	C		RCFQ	02
MO	367	RICH FOUNTAIN,FM (JEFFERSON CITY GP)		DOL		55	C	C		RCFN	01

ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MO	325	RICH HILL,LS MBR (CHEROKEE SH)	U			5	WC	A	RCHL 03
PA	371	RICHLAND,FM (CONOCOCHIEGUE GP)	U	DOL		380	SE	C	RCLD 03
IL	112	RICHLAND,LOESS				2	NC	C	RCLD 01
WI	112	RICHLAND,LOESS							RCLD 02
PA	371	RICHLAND,MBR (CONOCOCHIEGUE FM)							RCLD 04
IN	112	/RICHMOND,TILL					EC	D	RCMD 01
NV	123	RICHMOND MOUNTAIN,ANDESITE	U			210	EC	E	RCMM 01
SC	370	RICHTEX,FM	U	SL		1000	C	E	RCTX 01
VA	364	RICH VALLEY,FM		SH		110	SW	C	RCVL 07
AZ	112	RICHVILLE,FM		SED			NE	C	RCVL 02
NY	347	RICKARD HILL,FM (TRISTATES GP)		LS,SS		2	SE	D	RCKH 05
NY	347	RICKARD HILL,MBR (SCHOHARIE FM)							RCKH 04
NJ	367	RICKENBACH,DOL (BEEKMANTOWN GP)	U						RCKB 03
PA	367	RICKENBACH,DOL (BEEKMANTOWN GP)	U			180	SE	C	RCKB 05
NJ	367	RICKENBACH,FM (BEEKMANTOWN GP)							RCKB 04
PA	367	RICKENBACH,FM (BEEKMANTOWN GP)							RCKB 06
NJ	367	RICKENBACH,MBR (KITTATINNY LS)							RCKB 07
TX	324	RICKER,CGL				8	C	A	RCKR 01
TX	324	RICKER,SS (STRAWN GP)							RCKR 08
TX	324	RICKER,SS MBR (MINERAL WELLS FM)	U						RCKR 02
TX	324	RICKER STATION,LS (LONE CAMP GP)				1	C	C	RCKS 02
TX	324	RICKER STATION,LS (STRAWN GP)							RCKS 07
TX	324	RICKER STATION,LS MBR (GRINDSTONE CREEK FM)							RCKS 03
OR	124	RICKREALL,LS MBR (YAMHILL FM)				24	NW	D	RCKL 01
AZ	317+	RICO,FM	U						RICO 01
CO	317+	RICO,FM	U	SS,CGL	RD	91	SW	A	RICO 03
NM	317+	RICO,FM	U						RICO 05
UT	317+	RICO,FM	U						RICO 07
AZ	321	RICO,FM	U						RICO 09
CO	321	RICO,FM	U						RICO 17
NM	321	RICO,FM	U						RICO 13
UT	321	RICO,FM	U						RICO 18
CO	324	RICO,FM	U						RICO 11
UT	324	RICO,FM	U						RICO 15
OR	217+	RIDDLE,FM (MYRTLE GP)	U	STS		330	SW	C	RDDL 03
OR	221	RIDDLE,FM (MYRTLE GP)	U						RDDL 01
PA	337	RIDDLESBURG,SH MBR (POCONO FM)	U			23	SC	A	RDBG 04
VA	337	RIDDLESBURG,SH MBR (POCONO FM)							RDBG 05
IL	332	RIDENHOWER,FM (PAINT CREEK GP)		SH		18	SC	A	RDNR 03
IL	332	RIDENHOWER,FM (WEST BADEN GP)							RDNR 06

KY	332	RIDENHOWER,SH	U						RDNR	05
CA	121+	RIDGE BASIN,GP		SED		6700	SC	C	RDGB	01
CA	122	RIDGE BASIN,GP							RDGB	02
VA	347	RIDGELEY,MBR (ORISKANY SS)							RDGL	05
WV	347	RIDGELEY,MBR (ORISKANY SS)	U			76	NE	A	RDGL	06
MD	347	RIDGELEY,SS (ORISKANY GP)	U						RDGL	08
PA	347	RIDGELEY,SS (ORISKANY GP)	U						RDGL	03
PA	347	RIDGELEY,SS MBR (OLD PORT FM)							RDGL	09
MD	347	RIDGELEY,SS MBR (ORISKANY FM)							RDGL	01
PA	347	RIDGELEY,SS MBR (ORISKANY FM)							RDGL	04
CA	121+	RIDGE ROUTE,FM		SS,SH		1500	SC	C	RDGR	01
CA	122	RIDGE ROUTE,FM							RDGR	02
TN	337	RIDGETOP,SH	U			31	NC	A	RDGP	01
CO	112	RIDGWAY,CGL				60	SW	A	RDGY	01
CO	112	RIDGWAY,TILL	U						RDGY	02
GA	364	RIDLEY,LS	U						RDLY	01
GA	364	RIDLEY,LS (STONES RIVER GP)							RDLY	03
TN	364	RIDLEY,LS (STONES RIVER GP)	U			29	C	A	RDLY	02
PA	307	RIDLEY PARK,GRANODIORITE					SE	C	RDPK	05
NV	317	RIEPE SPRING,LS (ARCTURUS GP)				120	EC	C	RPSP	01
UT	317	RIEPE SPRING,LS (CARBON RIDGE GP)							RPSP	02
NV	317	RIEPETOWN,SS (ARCTURUS GP)				300	EC	C	RPTN	04
NV	317	RIEPETOWN,SS (CARBON RIDGE GP)							RPTN	01
UT	317	RIEPETOWN,SS (CARBON RIDGE GP)							RPTN	02
MT	224	RIERDON,FM (ELLIS GP)	U	SH,LS		42	NW	C	RRDN	01
ND	224	RIERDON,FM (ELLIS GP)							RRDN	11
WY	224	RIERDON,FM (ELLIS GP)							RRDN	05
MT	224	RIERDON,FM (SUNDANCE GP)							RRDN	02
WY	224	RIERDON,FM (SUNDANCE GP)							RRDN	06
WV	327	RIFT,SH [MBR] (POCAHONTAS FM)				9	SW	A	RIFT	02
ID	200+	RIGGINS,GP	U	SCH		7600	WC	D	RGNS	01
ID	300	RIGGINS,GP	U						RGNS	02
CA	300	RIGGS,FM		LS		760	SE	C	RGGG	01
TX	371	RILEY,FM	U	SS		240	C	C	RILY	01
AZ	124	RILLITO,ANDESITE				140	SC	C	RLLT	01
MT	122+	RIMROAD,GRAVEL	U			9	EC	C	RMRD	01
MT	123	RIMROAD,GRAVEL	U						RMRD	03
CO	211	RIM ROCK,SS (MESAVERDE GP)							RMRK	01
UT	211	RIM ROCK,SS (MESAVERDE GP)				130	EC	C	RMRK	02
CA	122+	RINCON,CLAYSTONE				660	SC	A	RNCN	01

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	123	RINCON,CLAYSTONE							RNCN 06
AZ	371	/RINCON,LS			RD	12	SC	C	RNCN 05
CA	122+	RINCON,MUDSTONE	U						RNCN 02
CA	123	RINCON,MUDSTONE	U						RNCN 07
CA	122+	RINCON,SH	U						RNCN 03
CA	123	RINCON,SH	U						RNCN 08
NM	400	RINCONADA,SCHIST MBR (ORTEGA QTZ)				550	NC	C	RNCD 01
NM	122	/RINCON VALLEY,FM (SANTA FE GP)		CLS		160	SC	E	RCVL 04
AZ	420	RINCON VALLEY,GRANITE					SC	C	RCVL 01
ME	347	RINDGEMERE,FM	U						RDGM 03
NH	347	RINDGEMERE,FM	U	SL,SCH		300	SE	A	RDGM 02
ME	347	RINDGEMERE,FM (SHAPLEIGH GP)							RDGM 01
NM	211	RINGBONE,SH	U			200	SW	C	RNGB 01
WA	112	RINGOLD,FM	U	SS,CL		190	SE	A	RGLD 02
NM	318	RIO BONITO,MBR (SAN ANDRES FM)		DOL		110	EC	E	RBNT 01
CA	121	RIO DELL,FM (WILDCAT GP)		MS		1800	NW	C	RDLL 01
NM	361	RIO MIMBRES,SS (MONTOKA GP)			WH	1	SW	E	RMMB 01
TX	361	RIO MIMBRES,SS (MONTOKA GP)							RMMB 02
SC	310	RION,ADAMELLITE					NC	E	RION 01
NV	330	RIO TINTO,FM		SCH		1200	NE	C	RTNT 02
GA	212	RIPLEY,FM	U						RPLY 02
TN	211	RIPLEY,FM (SELMA GP)	U						RPLY 04
AL	212	RIPLEY,FM (SELMA GP)	U						RPLY 01
MS	212	RIPLEY,FM (SELMA GP)	U	CL,SD		110	NE	A	RPLY 03
ME	354+	[RIPOGENUS,FM]				610	NC	A	RPGS 04
ME	357	[RIPOGENUS,FM]							RPGS 06
ME	354+	/RIPOGENUS,SER							RPGS 03
ME	357	/RIPOGENUS,SER							RPGS 05
ME	354+	/RIPOGENUS,VOLCS							RPGS 01
ME	357	/RIPOGENUS,VOLCS							RPGS 02
VT	377	RIPTON,CGL					WC	A	RPTN 03
CA	211	RISCO,FM		GYK		900	SC	C	RSCO 01
MT	420	RISING WOLF,MBR (APPEKUNNY ARGILLITE)		QTZ		210	NW	A	RGWF 01
AR	124	RISON,CLAY MBR (WHITE BLUFF FM)				43	SC	C	RSON 01
TX	112	RITA BLANCA,LAKE DEPOSIT		CL		24	NW	C	RBLC 01
NY	367+	RITCHIE,LS				13	EC	C	RTCH 03
NY	371	RITCHIE,LS							RTCH 04
OH	321	RITCHIE,RED BEDS (MONONGAHELA FM)							RTCH 01
WV	321	RITCHIE,RED BEDS (MONONGAHELA FM)				6	WC	A	RTCH 02
NM	124	RITITO,CGL				150	NC	C	RTTO 01

CA	112+	RITTER,FM		SS	460	SE	E	RTTR	01
CA	121	RITTER,FM						RTTR	02
OH	337	RITTMAN,CGL LENTIL (CUYAHOGA FM)			2	NE	A	RTMN	01
OH	337	RITTMAN,MBR (CUYAHOGA FM)						RTMN	02
CA	112	RIVERBANK,FM		CL	16	WC	C	RVBK	01
MO	326	RIVERTON,FM						RVRN	03
KS	326	RIVERTON,FM (CHEROKEE GP)		SH	12	SE	C	RVRN	01
MI	430	RIVERTON,IRON-FORMATION (PAINT RIVER GP)		U	180	NW	C	RVRN	05
WI	430	RIVERTON,IRON-FORMATION (PAINT RIVER GP)		U				RVRN	06
IN	321	RIVERVIEW,LS MBR (BOND FM)			<1	SW	E	RVRV	01
IA	364	RIVOLI,MBR (DUNLEITH FM)						RVOL	02
IL	364	RIVOLI,MBR (DUNLEITH FM)		DOL	2	NC	C	RVOL	01
KY	324	ROACH CREEK,SS						RCCK	02
TN	324	ROACH CREEK,SS (GRAVES GAP GP)			18	NE	C	RCCK	03
TN	324	ROACH CREEK,SS MBR (GRAVES GAP FM)						RCCK	07
TX	318	ROAD CANYON,FM		U	91	WC	D	RDCN	05
AK	347+	ROAD RIVER,FM		U	910	CAN	D	RDRV	05
AK	350	ROAD RIVER,FM		U				RDRV	07
AK	360	ROAD RIVER,FM		U				RDRV	16
AZ	211	ROADSIDE,FM		U	910	SC	D	RDSO	02
TN	400	ROAN,GNEISS				NE	A	ROAN	01
NC	410	ROARING FORK,SS (SNOWBIRD GP)		U				RGFK	01
TN	410	ROARING FORK,SS (SNOWBIRD GP)		U	2400	EC	C	RGFK	02
MT	112	ROARING MOUNTAIN,MBR (PLATEAU RHYOLITE)		U				RRGM	02
WY	112	ROARING MOUNTAIN,MBR (PLATEAU RHYOLITE)		U			NW	RRGM	01
CA	217	ROARING RIVER,MBR (BUDDEN CANYON FM)		CGL	260	NW	C	RGRV	07
MO	341	ROARING RIVER,SS [BED] (NOEL MBR OF CHATTANOOGA SH)			1	SW	C	RGRV	08
PA	364	ROARING SPRING,MBR (SALONA FM)		LS	23	SC	D	RGSP	03
AZ	123	ROBBERS ROOST,GRAVEL		U		NC	C	RBRR	01
KS	322	ROBBINS,MBR (LAWRENCE SH)		U	30	SE	A	RBNS	06
KS	322	ROBBINS,SH						RBNS	05
NE	322	ROBBINS,SH						RBNS	07
KS	322	ROBBINS,SH MBR (LAWRENCE FM)		U				RBNS	13
NE	322	ROBBINS,SH MBR (LAWRENCE FM)		U				RBNS	08
VA	324	ROBBINS CHAPEL,SS MBR (WISE FM)			24	SW	E	RBCP	02
TN	364	ROB CAMP,LS		U	46	NE	C	RBCP	03
VA	364	ROB CAMP,LS		U				RBCP	04
TN	364	ROB CAMP,LS (CHICKAMAUGA GP)						RBCP	05
IL	112	ROBEIN,SILT			1	NC	E	ROBN	02
LA	212	ROBERSON,SAND [MBR] (TOKIO FM)			12	NW	D	RBRS	04



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
GA	124	ROBERTA,SS MBR (BARNWELL FM)				12	WC	C	RBRT 01
CA	400	ROBERTS,FM		SCH		760	C	A	RBR5 06
SD	430	ROBERTS DRAW,LS	U				WC	E	RBRD 02
UT	347+	ROBERTS MOUNTAINS,DOL							RBRM 01
UT	350	ROBERTS MOUNTAINS,DOL							RBRM 02
ID	347+	ROBERTS MOUNTAINS,FM	U						RBRM 08
NV	347+	ROBERTS MOUNTAINS,FM	U			580	NC	C	RBRM 03
NV	350	ROBERTS MOUNTAINS,FM	U						RBRM 05
ID	351	ROBERTS MOUNTAINS,FM	U						RBRM 09
OR	227	ROBERTSON,FM (MOWICH GP)		SS		150	C	C	RBR5 05
VA	400	ROBERTSON RIVER,FM (VIRGINIA BLUE RIDGE COMPLEX)		GR			C	D	RBRV 01
TX	371	ROBERTS RANCH,MBR (DAGGER FLAT FM)		SH		170	WC	C	RBR5 01
PA	231	ROBESON,CGL				4600	SE	C	RBSN 01
CA	311+	ROBINSON,FM	U	TF		350	NC	A	RBNS 03
CA	317	ROBINSON,FM	U						RBNS 04
CO	324	ROBINSON,LS MBR (MINTURN FM)	U			120	C	A	RBNS 11
MO	325	ROBINSON BRANCH,FM (CABANISS GP)		SH		3	WC	C	RBBC 03
OK	325	ROBINSON BRANCH,FM (CABANISS GP)							RBBC 04
KS	325	ROBINSON BRANCH,FM (CHEROKEE GP)							RBBC 02
MO	325	ROBINSON BRANCH,FM (CHEROKEE GP)							RBBC 05
CA	122	ROBINSON CANYON,MBR (CHAMISAL FM)		SS	RD				RBSC 01
NV	121	ROBINSON CREEK,DACITE	U			61	NE	C	RBCK 01
NM	110	ROBINSON MOUNTAIN,FLOW (CLAYTON BASALT)					NE	C	RBSM 01
NM	110	ROBINSON MOUNTAIN,MBR (CLAYTON BASALT)]							RBSM 02
CA	210	ROBLAR,LEUCOGRANITE	U				SC	C	RBLR 01
IL	112	ROBY,SILT MBR (GLASFORD FM)				1	C	D	ROBY 01
KS	317	ROCA,SH (COUNCIL GROVE GP)	U						ROCA 01
NE	317	ROCA,SH (COUNCIL GROVE GP)	U			6	SE	A	ROCA 02
OK	317	ROCA,SH (COUNCIL GROVE GP)	U						ROCA 03
OK	317	ROCA,SH (VANOSS GP)							ROCA 04
NY	367	ROCHDALE,FM (WAPPINGER GP)				120	SE	A	RCDL 02
NY	367	ROCHDALE,LS	U						RCDL 01
OH	351	ROCHE DE BOEUF,MBR (TYMOCHTEE FM)		DOL		9	NW	E	RCBF 01
TX	321	ROCHELLE,CGL (CANYON GP)				15	C	A	RCLL 01
TX	321	ROCHELLE,CGL MBR (GRAFORD FM)							RCLL 03
IL	333	ROCHER,MBR (SALEM LS)				18	SC	C	RCHR 01
PA	354	ROCHESTER,MBR (HIFFLINTOWN FM)							RCSR 10
NV	237	ROCHESTER,RHYOLITE (KOIPATO GP)	U			610	NW	C	RCSR 01
WV	354	ROCHESTER,SH	U						RCSR 14
MD	354	ROCHESTER,SH (CLINTON GP)	U						RCSR 05

NY	354	ROCHESTER,SH (CLINTON GP)	U			WC	A	RCSR	07
PA	354	ROCHESTER,SH (CLINTON GP)						RCSR	11
WV	354	ROCHESTER,SH (CLINTON GP)						RCSR	12
MI	354	ROCHESTER,SH MBR (CLINTON FM)						RCSR	06
SD	430	ROCHFORD,FM (FLAG ROCK GP)	U	CH		WC	E	RCFD	02
ME	360	ROCKABEMA,QUARTZ DIORITE	U			NE	D	RKBM	01
MO	367	ROCKAWAY,CGL BEDS (LUTIE MBR OF THEODOSIA FM)				SC	C	RCKY	04
IA	322	ROCK BLUFF,MBR (DEER CREEK LS)	U					RKBF	01
KS	322	ROCK BLUFF,MBR (DEER CREEK LS)	U					RKBF	02
MO	322	ROCK BLUFF,MBR (DEER CREEK LS)	U					RKBF	03
NE	322	ROCK BLUFF,MBR (DEER CREEK LS)	U			1	SE	A	RKBF
IL	325	ROCK BRANCH,COAL MBR (MODESTO FM)				<1	C	C	RCKB
UT	123	/ROCK CANDY,AGGLOMERATE AND LATITE (BULLION CANYON SER)				180	SC	C	RCKC
UT	123	[ROCK CANDY,MBR (BULLION CANYON VOLCS)]							RCKC
TN	327	ROCKCASTLE,CGL (CRAB ORCHARD MOUNTAINS GP)				91	NC	A	RCKC
TN	327	ROCKCASTLE,CGL MBR (CRAB ORCHARD MOUNTAINS FM)							RCKC
KY	327	ROCKCASTLE,CGL MBR (LEE FM)	U						RCKC
GA	327	ROCKCASTLE,SS	U						RCKC
TN	327	ROCKCASTLE,SS (LEE GP)	U						RCKC
TN	327	ROCKCASTLE,SS MBR (CRAB ORCHARD MOUNTAINS FM)							RCKC
KY	327	ROCKCASTLE,SS MBR (LEE FM)	U						RCKC
TN	327	ROCKCASTLE,SS MBR (LEE FM)							RCKC
ID	122	/ROCK CREEK,FLOW (COLUMBIA RIVER BASALT)				110	WC	D	RKCK
IL	324	ROCK CREEK,LS (MCLEANSBORO GP)					C	A	RKCK
ID	200	ROCK CREEK,QUARTZ DIORITE GNEISS					SW	D	RKCK
WA	307	ROCKCUT,FM					NE	C	RCKC
TX	125	ROCKDALE,FM (WILCOX GP)							RCKD
MD	367	ROCKDALE RUN,FM (BEEKMANTOWN GP)	U	LS		500	EC	A	RCKR
PA	367	ROCKDALE RUN,FM (BEEKMANTOWN GP)	U			740	NC	C	RCKR
VA	367	ROCKDALE RUN,FM (BEEKMANTOWN GP)							RCKR
WV	367	ROCKDALE RUN,FM (BEEKMANTOWN GP)							RCKR
VA	364	ROCKDELL,LS	U			76	SW	C	RCKD
NV	122	ROCKET WASH,MBR (THIRSTY CANYON TUFF)	U			120	SC	E	RCKW
VA	420	ROCKFISH,CGL MBR (LYNCHBURG FM)	U			240	C	A	RCKF
VA	420	ROCKFISH,MBR (LYNCHBURG GNEISS)	U						RCKF
AL	307	ROCKFORD,GRANITE (PINCKNEYVILLE COMPLEX)					C	E	RCKF
GA	307	ROCKFORD,GRANITE (PINCKNEYVILLE COMPLEX)							RCKF
IN	339	ROCKFORD,LS	U			1	SC	A	RCKF
KY	339	ROCKFORD,LS	U						RCKF
IA	341	ROCK GROVE,MBR (SHELL ROCK FM)		LS		6	NC	A	RKGV

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 321	ROCKHILL,LS MBR (GRAFORD FM)				46	NE	A	RCKL 03
TN 347	ROCKHOUSE,MBR (ROSS FM)				8	WC	A	RCKS 04
TN 347	ROCKHOUSE,SH (LINDEN GP)	U						RCKS 05
KY 324	ROCKHOUSE VALLEY,SS MBR (WISE FM)							RCKV 10
VA 324	ROCKHOUSE VALLEY,SS MBR (WISE FM)				38	SW	E	RCKV 08
NH 304	ROCKINGHAM,MICA SCHIST					SE	C	RKGM 01
NH 304	ROCKINGHAM,SCHIST							RKGM 02
IL 325	ROCK ISLAND,COAL MBR (SPOON FM)				1	NW	C	RCKI 01
MO 323	ROCK LAKE,SH MBR (STANTON FM)							RKLK 03
IA 323	ROCK LAKE,SH MBR (STANTON LS)	U						RKLK 01
KS 323	ROCK LAKE,SH MBR (STANTON LS)	U						RKLK 02
NE 323	ROCK LAKE,SH MBR (STANTON LS)	U			2	EC	A	RKLK 04
ME 357+	ROCKLAND,FM	U	MSED	PR	290	SC	A	RCKD 22
ME 361	ROCKLAND,FM	U						RCKD 20
ME 364	ROCKLAND,FM	U						RCKD 16
NY 364	ROCKLAND,FM				18	CAN	A	RCKD 17
NY 364	ROCKLAND,LS (TRENTON GP)							RCKD 21
ID 121	ROCKLAND VALLEY,BASALT	U			76	SE	A	RCKV 03
VT 371	ROCKLEDGE,CGL (WOODS CORNERS GP)				12	NW	C	RCKG 02
VT 371	ROCKLEDGE,CGL MBR (SWEETSBURG FM)							RCKG 06
VT 371	ROCKLEDGE,FM (WOODS CORNERS GP)							RCKG 07
VT 371	ROCKLEDGE,LS BRECCIA							RCKG 03
MO 364	ROCK LEVEE,FM		LS		82	SE	C	RKLV 02
CA 217	ROCKLIN,GRANODIORITE					NW	C	RCKL 01
GA 364	ROCKMART,SLATE	U			910	NW	A	RCKM 05
OR 111	[ROCK MESA,OBSDIAN]						C	RCKM 07
OR 111	/ROCK MESA,OBSDIAN FLOW							RCKM 02
AL 307	ROCK MILLS,GRANITE (DADEVILLE COMPLEX)					EC	E	RCKM 06
TX 212	ROCK PENS,MBR (BOQUILLAS FM)		STS,MS		46	C	E	RCKP 04
AZ 231	ROCK POINT,MBR (WINGATE SS)	U		RD	100	NE	C	RCKP 06
NM 231	ROCK POINT,MBR (WINGATE SS)	U						RCKP 08
UT 231	ROCK POINT,MBR (WINGATE SS)	U						RCKP 09
ME 357	ROCKPORT,LS MBR (ROCKLAND FM)	U			150	SC	A	RCKP 14
MI 344	ROCKPORT QUARRY,LS (TRAVERSE GP)	U			12	EC	C	RKPQ 01
TX 124	ROCK PRAIRIE,SS (JACKSON GP)				18	EC	C	RCKP 02
MT 420	ROCK RABBIT,FM (MISSOULA GP)		MSED			WC	D	RKRB 01
OH 321	ROCK RIFFLE,LS MBR (CONEMAUGH FM)				1	SC	C	RKRF 01
VT 371	ROCK RIVER,DOL				120	NW	A	RKRV 04
VT 371	ROCK RIVER,FM							RKRV 05
WY 211	ROCK RIVER,FM (MESAVARDE GP)	U	SS		480	SE	E	RKRV 01

AZ	121+	/ROCK SPRINGS,BEDS				610	C	C	RKSP	07	
AZ	122	/ROCK SPRINGS,BEDS							RKSP	08	
UT	211	ROCK SPRINGS,FM (MESAVARDE GP)	U						RKSP	04	
WY	211	ROCK SPRINGS,FM (MESAVARDE GP)	U	SS		430	SW	A	RKSP	05	
AZ	121+	[ROCK SPRINGS,VOLCS]							RKSP	02	
AZ	122	[ROCK SPRINGS,VOLCS]							RKSP	03	
NY	341	/ROCK STREAM,FLAGSTONE MBR (CASHAQUA SH)				55	WC	C	RKSM	01	
NY	341	ROCK STREAM,STS (SONYEA GP)							RKSM	03	
NY	341	ROCK STREAM,STS MBR (SONYEA FM)	U						RKSM	02	
CO	211	ROCKVALE,SS MBR (VERMEJO FM)	U			20	C	A	RCKV	04	
PA	367	ROCKVIEW,MBR (AXEMANN LS)				76	C	D	RCKV	05	
IA	110+	ROCKVILLE,CGL				6	EC	A	RCKV	01	
IA	120	ROCKVILLE,CGL							RCKV	02	
MN	430	/ROCKVILLE,QUARTZ MONZONITE (STEARNS GP)						C	RCKV	07	
NY	354	ROCKWAY,DOL (CLINTON GP)				4	CAN	D	RCKY	05	
NY	354	ROCKWAY,DOL MBR (IRONDEQUOIT LS)							RCKY	01	
MD	337	ROCKWELL,FM (POCONO GP)	U						RCKL	04	
WV	337	ROCKWELL,FM (POCONO GP)	U	SS		160	NE	A	RCKL	05	
GA	354+	ROCKWOOD,FM							RCKD	06	
KY	354+	ROCKWOOD,FM	U						RCKD	08	
TN	354+	ROCKWOOD,FM	U	SH		460	EC	A	RCKD	09	
VA	354+	ROCKWOOD,FM	U						RCKD	10	
GA	357	ROCKWOOD,FM							RCKD	12	
KY	357	ROCKWOOD,FM	U						RCKD	13	
TN	357	ROCKWOOD,FM	U						RCKD	14	
VA	357	ROCKWOOD,FM	U						RCKD	15	
AL	331	/ROCKWOOD,OOLITE MBR (BANGOR LS)				17	NW	A	RCKD	03	
OR	112	ROCKY BUTTE,VOLCS						NW	C	RCKB	01
NV	210+	ROCKY CANYON,GRANITE						NW	A	RCKC	06
NV	220	ROCKY CANYON,GRANITE							RCKC	07	
TX	125	ROCKY CEDAR CREEK,LS LENTIL (PISGAH MBR OF KINCAID FM)				7	EC	C	RKCC	01	
WA	122	ROCKY COULEE,MBR (YAKIMA BASALT)				61	C	D	RKCC	02	
CO	112	ROCKY FLATS,ALLUVIUM							RCKF	01	
SD	122	ROCKYFORD,ASH MBR (SHARPS FM)	U			12	NC	C	RCKF	02	
VA	347	ROCKY GAP,SS (HELDERBERG GP)				30	SW	A	RKGP	01	
WV	347	ROCKY GAP,SS (HELDERBERG GP)							RKGP	02	
HI	112	ROCKY HILL,VOLCS (HONOLULU GP)	U			12	NC	A	RCKH	01	
TX	321	ROCKY MOUND,LS (GRAHAM GP)				11	NC	A	RCKM	03	
TX	321	ROCKY MOUND,LS MBR (GRAHAM FM)	U						RCKM	04	
MT	310+	ROCKY MOUNTAIN,FM				270	CAN	A	RCKM	08	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
MT	320	ROCKY MOUNTAIN,FM							RCKM 09
OR	123	/ROCKY POINT,BEDS					NW	C	RCKP 01
OK	325	ROCKY POINT,CGL [MBR] (DEESE FM)				21	SE	C	RCKP 12
OR	124	/ROCKY POINT,FM		MS		1800	SW	D	RCKP 19
OR	217	/ROCKY POINT,FM		SS			NW	C	RCKP 05
NC	211	ROCKY POINT,MBR (PEEDEE FM)		LS,SS		10	SE	E	RCKP 16
SC	211	ROCKY POINT,MBR (PEEDEE FM)							RCKP 03
OR	123	[ROCKY POINT,SS]							RCKP 18
CO	211	ROCKY RIDGE,SS MBR (PIERRE SH)	U			30	NC	A	RKRG 05
AL	327	ROCKY RIDGE,SS MBR (POTTSVILLE FM)	U			30	NC	A	RKRG 06
MD	371	ROCKY SPRINGS STATION,MBR (FREDERICK LS)				300	NC	E	RKSS 01
OK	331	ROD CLUB,SS (SPRINGER GP)	U			120	SE	A	RDCB 02
OK	331	ROD CLUB,SS MBR (GODDARD SH)							RDCB 04
OK	331	ROD CLUB,SS MBR (SPRINGER FM)							RDCB 03
CA	122	RODEO,SH (MONTEREY GP)	U			200	WC	A	RODO 01
MS	218	RODESSA,FM	U						RDSS 04
AR	218	RODESSA,FM (TRINITY GP)	U						RDSS 02
LA	218	RODESSA,FM (TRINITY GP)	U			150	NW	C	RDSS 03
MS	218	RODESSA,FM (TRINITY GP)							RDSS 13
TX	218	RODESSA,FM (TRINITY GP)	U						RDSS 05
TX	218	RODESSA,MBR (GLEN ROSE FM)							RDSS 06
AL	218	RODESSA,SS	U						RDSS 01
PA	364	RODMAN,LS (BLACK RIVER GP)	U			9	SC	A	RDMN 13
PA	364	RODMAN,MBR (NEALMONT FM)							RDMN 14
AZ	230	RODOLFO,FM	U	STS		730	SC	E	RDLF 01
TX	367	RODRIQUEZ TANK,SS				15	WC	C	RQZT 01
UT	123	[ROGER PARK,BASALT BRECCIA]				610	SC	C	RGPK 04
UT	123	/ROGER PARK,BASALTIC BRECCIA	U						RGPK 01
TX	212	ROGERS,CHALK LENS (TAYLOR MARL)				15	EC	A	RGRS 01
MI	344	ROGERS CITY,FM	U			22	EC	C	RGRC 01
MI	344	ROGERS CITY,LS	U						RGRS 02
AK	211	ROGERS CREEK,MBR (SCHRADER BLUFF FM)	U	SH		180	NC	C	RGCK 01
NV	330	ROGERS SPRING,LS	U			180	SE	A	RGSP 02
VA	374	ROGERSVILLE,SH	U						RGVL 05
TN	374	ROGERSVILLE,SH (CONASAUGA GP)	U			37	NE	A	RGVL 03
VA	374	ROGERSVILLE,SH (CONASAUGA GP)	U						RGVL 04
OR	221+	ROGUE,FM		MVOL		4600	SW	C	ROGU 01
OR	224	ROGUE,FM	U						ROGU 02
OR	111	[ROGUE RIVER,PUMICE]					SW	C	RGRV 09
OR	111	/ROGUE RIVER,PUMICE FLOWS							RGRV 02



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IL 325	ROODHOUSE, COAL MBR (CARBONDALE FM)				1	WC	C	RDHS 03
MT 337	ROONEY, CHERT MBR (MADISON LS)				180	NW	A	RONY 01
MT 337	ROONEY, LS							RONY 02
CA 124	ROOP, SS MBR (ALHAMBRA FM)				35	NW	C	ROOP 01
AL 307+	ROOPVILLE, FM (HEARD GP)							RPVL 01
GA 307+	ROOPVILLE, FM (HEARD GP)		SCH			WC	E	RPVL 02
AL 400	ROOPVILLE, FM (HEARD GP)							RPVL 03
GA 400	ROOPVILLE, FM (HEARD GP)							RPVL 04
AZ 420	ROOSEVELT, FM (APACHE GP)		CH	RD	9	C	C	RSVL 05
NY 400	ROOSTER HILL, FM		GN		250	EC	E	RRHL 01
MT 420	ROOSVILLE, FM (MISSOULA GP)		ARG		180	CAN	A	RSVL 06
IA 322	ROOT, SH (WABAUNSEE GP)							ROOT 02
KS 322	ROOT, SH (WABAUNSEE GP)	U			27	EC	C	ROOT 01
NE 322	ROOT, SH (WABAUNSEE GP)	U						ROOT 03
AK 221	ROOT GLACIER, FM	U	SED		1200	EC	E	RGLC 01
AL 307	ROPES CREEK, AMPHIBOLITE (DADEVILLE COMPLEX)					EC	E	RPCK 03
GA 307	ROPES CREEK, AMPHIBOLITE (DADEVILLE COMPLEX)							RPCK 04
NY 341	RORICKS GLEN, MBR (RHINESTREET FM)				12	C	D	RCKG 01
PA 341	RORICKS GLEN, MBR (RHINESTREET FM)							RCKG 04
NY 341	RORICKS GLEN, SH (WEST FALLS GP)							RCKG 05
ME 370	[ROSAIRE, FM]		QTZ, SL	BK		CAN	B	ROSR 06
ME 370	/ROSAIRE, GP							ROSR 04
CA 211	ROSARIO, FM		SED		550	MEX	D	ROSR 02
CA 211	ROSARIO, GP	U						ROSR 05
NE 122	ROSEBUD, FM							RSBD 03
SD 122	ROSEBUD, FM		SS	RD	92	SC	C	RSBD 04
OR 224	ROSEBUD, MBR (TROWBRIDGE SH)		MS		150	C	D	RSBD 02
OR 124+	ROSEBURG, FM		VSED		4500	SW	E	RBRG 01
OR 125	ROSEBURG, FM							RBRG 02
CA 124	ROSE CANYON, SH (LA JOLLA GP)				91	SE	A	RSCN 02
CA 124	ROSE CANYON, SH MBR (LA JOLLA FM)							RSCN 03
CA 122	ROSEDALE, SS MBR (FRUITVALE SH)				370	SC	D	RSDL 01
LA 123	ROSEFIELD, FM		CL			NC	C	RFLD 01
MD 354	ROSE HILL, FM	U			170	NW	A	RSHL 02
PA 354	ROSE HILL, FM	U						RSHL 10
VA 354	ROSE HILL, FM							RSHL 06
WV 354	ROSE HILL, FM	U						RSHL 11
MD 354	ROSE HILL, FM (CLINTON GP)							RSHL 03
PA 354	ROSE HILL, FM (CLINTON GP)							RSHL 05
WV 354	ROSE HILL, FM (CLINTON GP)							RSHL 07





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 367	ROUBIDOUX, FM (ARBUCKLE GP)	U						RBDX 06
ND 364	ROUGHLOCK, FM (WINNIPEG GP)							RGCK 04
SD 364	ROUGHLOCK, STS				9	WC	C	RGCK 02
WY 364	ROUGHLOCK, STS							RGCK 05
SD 364	ROUGHLOCK, STS MBR (WINNIPEG FM)							RGCK 03
WY 364	ROUGHLOCK, STS MBR (WINNIPEG FM)							RGCK 06
TX 321	ROUGH MOUNTAIN, CGL LENTIL (BROWNWOOD SH)				6	C	C	RGMN 01
OH 321	ROUND KNOB, SH MBR (CONEMAUGH FM)			RD	10	EC	A	RDKB 01
PA 321	ROUND KNOB, SH MBR (CONEMAUGH FM)							RDKB 02
CA 122	ROUND MOUNTAIN, SILT	U			65	SC	A	RNDM 01
WA 111	ROUND PASS, MUDFLOW				8	C	E	RDPS 01
OK 328	ROUND PRAIRIE, FM		SH		240	SE	C	RDRP 01
NV 122	ROUND ROCK, MBR (ESMERALDA FM)	U	VOL		240	C	A	RRCK 04
KY 337	ROUNDSTONE, BED (COWBELL MBR OF BORDEN FM)	U	STS		6	EC	D	RNDS 01
OR 111+	[ROUNDTOP, ANDESITE]				150	SW	C	RNDP 11
OR 112	[ROUNDTOP, ANDESITE]							RNDP 12
SD 324	ROUNDTOP, FM							RNDP 05
OR 111+	ROUNDTOP, LAVA							RNDP 02
OR 112	ROUNDTOP, LAVA							RNDP 04
WY 324	ROUNDTOP, MBR (HARTVILLE FM)		SH	VAR	46	SE	C	RNDP 06
NE 325+	ROUNDTOP, MBR (HARTVILLE FM)							RNDP 09
NE 326	ROUNDTOP, MBR (HARTVILLE FM)							RNDP 10
WY 400	ROUNDTOP MOUNTAIN, GREENSTONE	U			1500	WC	D	RDPM 01
CO 327	ROUND VALLEY, LS	U						RDVL 01
UT 327	ROUND VALLEY, LS	U			110	NE	C	RDVL 02
WY 327	ROUND VALLEY, LS	U						RDVL 03
CA 211	ROUND VALLEY PEAK, GRANODIORITE	U				C	D	RVPK 01
MN 430	ROVE, FM (ANIMIKIE GP)	U			790	CAN	A	ROVE 03
MN 430	ROVE, SLATE (ANIMIKIE GP)							ROVE 01
KS 325	ROVE, FM (CHEROKEE GP)		SH		7	SE	C	ROVE 01
MO 325	ROVE, FM (CHEROKEE GP)							ROVE 09
MO 325	ROVE, FM (KREBS GP)							ROVE 02
MA 367+	ROVE, SCHIST	U			1200	NW	A	ROVE 03
NY 367+	ROVE, SCHIST	U						ROVE 04
VT 367+	ROVE, SCHIST	U						ROVE 05
MA 370	ROVE, SCHIST	U						ROVE 06
NY 370	ROVE, SCHIST	U						ROVE 07
VT 370	ROVE, SCHIST	U						ROVE 08
NH 227+	ROWES, AGGLOMERATE (WHITE MOUNTAIN GP)					SC	C	ROWS 01
NH 231	ROWES, AGGLOMERATE (WHITE MOUNTAIN GP)							ROWS 02

OR	112	ROWLAND,FM		GVL		72	WC	E	RLND	G1	
KY	361	ROWLAND,MBR (DRAKES FM)		U	DOL	18	C	D	RLND	02	
WI	400	ROWLEY CREEK,SLATE				46	SC	A	RLCK	10	
PA	364	ROW PARK,FM (ST. PAUL GP)							RPRK	04	
MD	364	ROW PARK,LS (ST. PAUL GP)		U		49	NC	C	RPRK	01	
PA	364	ROW PARK,LS (ST. PAUL GP)		U					RPRK	02	
WV	364	ROW PARK,LS (ST. PAUL GP)		U					RPRK	03	
IL	112	ROXANA,SILT				14	SC	C	ROXN	01	
KY	112	ROXANA,SILT		U					ROXN	02	
WI	112	ROXANA,SILT		U					ROXN	03	
MA	301+	ROXBURY,CGL (BOSTON BAY GP)		U		1200	EC	A	RXBR	04	
MA	304	ROXBURY,CGL (BOSTON BAY GP)		U					RXBR	06	
TX	212	ROXTON,LS BED (GOBER TONGUE OF AUSTIN CHALK)						NE	A	RXTN	02
CA	123	ROXY,FM (LITTLE BUTTE VOLCS)		U						ROXY	01
OR	123	ROXY,FM (LITTLE BUTTE VOLCS)		U		30	SW	C	ROXY	02	
WV	327	ROYAL,SH (MBR) (POCAHONTAS FM)				1	SW	A	ROYL	02	
MO	420	ROYAL GORGE,RHYOLITE (MIDDLEBROOK GP)						SE	D	RLGG	01
NY	400	ROYAL MOUNTAIN,MBR (GREEN LAKE QTZ)			GN	760	EC	E	RLMN	01	
OK	371	ROYER,DOL (ARBUCKLE GP)		U		150	SC	A	ROYR	01	
OK	371	ROYER,MARBLE (ARBUCKLE GP)		U						ROYR	02
NY	341	ROYSTONE,COQUINITE (CONEWANGO GP)								RSTN	02
PA	341	ROYSTONE,COQUINITE (CONEWANGO GP)						NW	A	RSTN	04
NY	341	ROYSTONE,COQUINITE MBR (OSWAYO FM)								RSTN	03
PA	341	ROYSTONE,COQUINITE MBR (OSWAYO FM)								RSTN	05
PA	341	ROYSTONE,COQUINITE MBR (RICEVILLE SH)								RSTN	06
OR	122	ROZA,MBR (YAKIMA BASALT)								ROZA	02
WA	122	ROZA,MBR (YAKIMA BASALT)		U		33	C	D	ROZA	04	
CA	207+	RUBIO,DIORITE GNEISS						SC	A	RUBO	02
CA	301	RUBIO,DIORITE GNEISS								RUBO	05
NM	123	RUBIO PEAK,FM		U	VOL	180	SW	C	RBPK	01	
AZ	300	RUBY,DIORITE						SC	C	RUBY	02
AZ	210	RUBY ROAD,FM			VOL			SC	C	RBRD	01
AZ	125	RUBY STAR,GRANODIORITE		U				SC	E	RBSR	01
AR	331	RUDDELL,SH MBR (MOOREFIELD FM)		U		38	NC	C	RDDL	02	
WI	430	RUDOLPH,QTZ				120	C	A	RDLP	05	
VT	374	RUGG BROOK,DOL				6	NW	A	RGBK	02	
VT	374	RUGG BROOK,DOL CGL								RGBK	04
VT	374	RUGG BROOK,FM								RGBK	05
AZ	420	RUIN,GRANITE		U				EC	A	RUIN	01
KS	322	RULO,LS MBR (SCRANTON SH)		U						RULO	02

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MO	322	RULO,LS MBR (SCRANTON SH)	U						RULO 04
NE	322	RULO,LS MBR (SCRANTON SH)	U			<1	SE	A	RULO 06
MT	331+	RUNDLE,GP		LS		700	CAN	A	RNDL 10
MT	337	RUNDLE,GP							RNDL 11
PA	361	RUN GAP,SS MBR (JUNIATA FM)				76	SC	C	RNGP 01
NE	122	RUNNINGWATER,FM		SD,GVL			NW	C	RNGR 01
WY	122	RUNNINGWATER,FM							RNGR 02
KS	317	RUNNYMEDE,SS MBR (NINNESCAH' SH)				2	SC	C	RNMD 01
PA	341	RUSH,FM (SUSQUEHANNA GP)		LS		3	EC	A	RUSH 01
NY	341	RUSH CREEK,MBR (RUSHFORD LAKE FM)		SH		16	WC	D	RCRK 07
TX	212	RUSH CREEK,MBR (WOODBINE FM)		CL,SS			EC	D	RCRK 10
NY	341	RUSHFORD,MBR (CANADAWAY FM)					WC	A	RFRD 02
NY	341	RUSHFORD,SS	U						RFRD 03
NY	341	RUSHFORD,SS (CANADAWAY GP)							RFRD 04
NY	341	RUSHFORD LAKE,FM (CANADAWAY GP)		SS		46	WC	D	RFLK 01
WV	317	RUSH RUN,SS [MBR] (GREENE FM)				8	NC	A	RSRN 01
OK	311	RUSH SPRINGS,FM (WHITEHORSE GP)	U		RD	85	SC	A	RSPG 01
TX	313	RUSH SPRINGS,FM (WHITEHORSE GP)	U						RSPG 04
OK	311	RUSH SPRINGS,MBR (WHITEHORSE SS)							RSPG 02
TX	313	RUSH SPRINGS,MBR (WHITEHORSE SS)							RSPG 05
OK	311	RUSH SPRINGS,SS (WHITEHORSE GP)	U						RSPG 03
TX	313	RUSH SPRINGS,SS (WHITEHORSE GP)	U						RSPG 06
OH	337	RUSHVILLE,SH MBR (LOGAN FM)				7	C	A	RSVL 04
LA	218	RUSK,FM (TRINITY GP)							RUSK 01
TX	218	RUSK,FM (TRINITY GP)		LS		450	EC	C	RUSK 02
NY	400	RUSSELL,GABBRO					NC	C	RSSL 01
KS	325	RUSSELL CREEK,LS MBR (SENORA FM)							RLCK 07
OK	325	RUSSELL CREEK,LS MBR (SENORA FM)				1	NE	C	RLCK 09
MA	354	RUSSELL MOUNTAIN,FM		QTZ		34	WC	E	RSLM 01
WA	200+	RUSSELL RANCH,FM		IG,MET			SC	D	RLRC 02
WA	300	RUSSELL RANCH,FM							RLRC 03
NY	364	RUSSIA,LS MBR (DENMARK FM)				21	C	C	RUSS 01
NY	364	RUSSIA,MBR (DENLEY LS)							RUSS 02
NY	364	RUST,MBR (COBOURG LS)				35	C	C	RUST 01
NY	364	RUST,MBR (DENLEY LS)							RUST 02
NM	312	RUSTLER,FM	U						RSLR 01
TX	312	RUSTLER,FM	U			61	WC	A	RSLR 03
NM	312	RUSTLER,LS	U						RSLR 02
TX	312	RUSTLER,LS	U						RSLR 04
NM	123	RUSTLER CANYON,BASALT			BK	15	SW	C	RLRC 01



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
AZ	220	SACRAMENTO HILL,PORPHYRY					SE	C	SCMH 01
MN	440	SACRED HEART,GRANITE (MINNESOTA VALLEY GP)					SW	C	SCDH 01
VA	400	SADDLE,GNEISS	U				SW	C	SDDL 02
CA	122	SADDLEBACK,BASALT (TROPICO GP)	U			180	SE	C	SBCK 03
LA	124	SADDLE BAYOU,LENTIL (VERDA MBR OF YAZOO CLAY)		SD		6	WC	C	SDLB 01
TX	319	SADDLE CREEK,FM (PUEBLO GP)					4	C	A SDCK 13
TX	319	SADDLE CREEK,LS (WICHITA GP)							SDCK 35
TX	319	SADDLE CREEK,LS MBR (HARPERSVILLE FM)							SDCK 34
TX	319	SADDLE CREEK,LS MBR (PUEBLO FM)	U						SDCK 14
TX	313	SADDLEHORSE,GYPSUM LENTIL (QUARTERMASTER FM)	U			3	NC	A	SDLR 01
NV	123	/SADDLE MOUNTAIN,ANDESITE				76	EC	D	SDLM 06
OR	220	/SADDLE MOUNTAIN,DIORITE					SW	D	SDLM 07
CA	100	SADDLE MOUNTAIN,LAVA					NW	C	SDLM 01
OK	374	SADDLE MOUNTAIN,PORPHYRY (CARLTON GP)					SC	A	SDLM 08
OK	374	SADDLE MOUNTAIN,RHYOLITE (CARLTON GP)							SDLM 09
WA	121+	SADDLE MOUNTAINS,MBR (YAKIMA BASALT)	U				C	D	SDLM 03
WA	122	SADDLE MOUNTAINS,MBR (YAKIMA BASALT)	U						SDLM 05
AK	237+	SADLEROCHIT,GP	U	SS		91	NE	A	SDLC 01
AK	311	SADLEROCHIT,GP	U						SDLC 02
AK	317	SADLEROCHIT,GP	U						SDLC 03
NY	341	SAEGERSTOWN,MBR (CATTARAUGUS FM)							SGRS 01
PA	341	SAEGERSTOWN,MBR (CATTARAUGUS FM)				30	NW	A	SGRS 03
NY	341	SAEGERSTOWN,SH							SGRS 02
PA	341	SAEGERSTOWN,SH							SGRS 04
AZ	123	/SAFFORD,DACITE					SE	C	SFRD 03
AZ	123	SAFFORD,TUFF				100	SE	C	SFRD 04
NV	122+	SAFFORD CANYON,FM		TF		210	NE	C	SFDC 01
NV	123	SAFFORD CANYON,FM							SFDC 02
OH	337	SAGAMORE,STS MBR (BEDFORD SH)	U			7	NE	A	SGMR 02
MN	440	SAGANAGA,GRANITE	U				NE	A	SGNG 03
MN	440	SAGANAGA,TONALITE							SGNG 01
AK	121+	SAGAVANIRKTOK,FM	U	STS	RD	610	NC	C	SVKK 04
AK	122	SAGAVANIRKTOK,FM	U						SVKK 05
AK	123	SAGAVANIRKTOK,FM	U						SVKK 01
AK	124	SAGAVANIRKTOK,FM	U						SVKK 02
AK	125	SAGAVANIRKTOK,FM	U						SVKK 03
WY	371	SAGE,LS (GALLATIN GP)							SAGE 03
WY	371	SAGE,LS MBR (GALLATIN FM)							SAGE 04
MT	371	SAGE,LS MBR (RED LION FM)				53	SC	C	SAGE 01
MT	371	SAGE,LS MBR (SNOWY RANGE FM)	U						SAGE 02

WY	371	SAGE,LS MBR (SNOWY RANGE FM)	U						SAGE	06
MT	211	SAGE BREAKS,MBR (CARLILE SH)	U						SGBK	01
NE	211	SAGE BREAKS,MBR (CARLILE SH)	U						SGBK	05
SD	211	SAGE BREAKS,MBR (CARLILE SH)	U						SGBK	02
WY	211	SAGE BREAKS,MBR (CARLILE SH)	U						SGBK	03
WY	211	SAGE BREAKS,SH MBR (NIOBRARA FM)	U					99	NE	A
MT	123+	SAGE CREEK,FM		SS					SW	A
MT	124	SAGE CREEK,FM								
CA	210+	SAGE HEN,ADAMELLITE							C	D
CA	220	SAGE HEN,ADAMELLITE								
WY	217	SAGE JUNCTION,FM	U	CST		690			SW	E
UT	124	SAGE VALLEY,LS MBR (GOLDENS RANCH FM)							C	C
MI	324+	SAGINAW,FM	U	SS		120			SE	C
MI	327	SAGINAW,FM	U							
AK	320+	SAGINAW BAY,FM	U	VSED		200			SE	D
AK	330	SAGINAW BAY,FM	U							
AK	231	SAG RIVER,FM						13	NE	E
AK	231	SAG RIVER,SS	U							
AK	124+	SAGWON,MBR (SAGAVANIRKTOX FM)	U	SH		140			NE	E
AK	125	SAGWON,MBR (SAGAVANIRKTOX FM)	U							
CA	224+	SAILOR CANYON,FM	U	SL		1800			NC	A
CA	227	SAILOR CANYON,FM	U							
NM	400	SAIS,QTZ						180	C	C
NM	312	SALADO,FM	U							
TX	312	SALADO,FM	U					440	WC	A
NM	312	SALADO,HALITE								
TX	312	SALADO,HALITE								
NY	341	SALAMANCA,CGL MBR (CATTARAUGUS FM)	U					12	WC	A
PA	341	SALAMANCA,CGL MBR (CATTARAUGUS FM)	U							
PA	341	SALAMANCA,CGL MBR (CONEWANGO FM)	U							
NY	341	SALAMANCA,MBR (VENANGO FM)								
PA	341	SALAMANCA,MBR (VENANGO FM)								
NY	341	SALAMANCA,SS MBR (CATTARAUGUS FM)	U							
PA	341	SALAMANCA,SS MBR (CATTARAUGUS FM)	U							
IN	354	SALAMONIE,DOL						41	EC	D
KY	333	SALEM,FM	U							
MA	340	[SALEM,GABBRO]							NE	A
MA	340	/SALEM,GABBRO-DIORITE	U							
KS	331	SALEM,LS	U							
IA	333	SALEM,LS	U							

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IL 333	SALEM,LS	U						SLEM 03
IN 333	SALEM,LS				18	SC	A	SLEM 10
KY 333	SALEM,LS	U						SLEM 07
MO 333	SALEM,LS	U						SLEM 08
IN 333	SALEM,LS (SANDERS GP)							SLEM 04
GA 400	SALEM CHURCH,GRANITE					NW	C	SMCC 01
KS 317	SALEM POINT,SH MBR (GRENOLA LS)	U						SLMP 01
NE 317	SALEM POINT,SH MBR (GRENOLA LS)	U			3	SE	A	SLMP 02
OK 317	SALEM POINT,SH MBR (GRENOLA LS)	U						SLMP 03
TX 321	SALEM SCHOOL,LS MBR (GONZALES FM)				1	NC	C	SMSC 01
TX 321	SALEM SCHOOL,LS MBR (GRAHAM FM)	U						SMSC 02
AZ 211	SALERO,FM	U	VOL		1500	SE	E	SLRO 01
TX 321	SALESVILLE,FM (WHITT GP)		SS,SH		46	C	C	SLVL 15
AK 110+	SALIGVIK,GRAVEL	U			11	NC	D	SGVK 01
AK 120	SALIGVIK,GRAVEL	U						SGVK 02
IN 351	SALINA,FM	U						SLIN 08
MI 351	SALINA,FM	U						SLIN 03
NY 351	SALINA,FM	U	SH		300	C	A	SLIN 04
OH 351	SALINA,FM	U						SLIN 06
PA 351	SALINA,FM	U						SLIN 07
MI 351	SALINA,GP	U						SLIN 09
NY 351	SALINA,GP	U						SLIN 05
AR 124	SALINE,FM (WILCOX GP)	U	CL		110	C	C	SLIN 01
LA 124	SALINE BAYOU,MBR (COOK MOUNTAIN FM)		SD		16	NW	A	SLNB 02
TX 124	SALINE BAYOU,MBR (COOK MOUNTAIN FM)							SLNB 04
CA 377	SALINE VALLEY,FM	U	SS		260	EC	D	SLVL 12
NV 377	SALINE VALLEY,FM	U						SLVL 16
KS 211	SALINE VALLEY,MBR (BLUE HILL SH)					NC	D	SLVL 01
MD 112	SALISBURY,FM (COLUMBIA GP)		SD		93	SE	D	SLBR 01
NC 350	SALISBURY,GRANITE					C	C	SLBR 09
NM 231	SALITRAL,SH TONGUE (CHINLE FM)	U		VAR	30	NC	C	SLRL 01
OK 347	SALLISAW,FM	U	SS		3	EC	C	SLLS 02
KS 317	SALLYARDS,MBR (GRENOLA LS)	U			1	SE	A	SLRD 03
NE 317	SALLYARDS,MBR (GRENOLA LS)							SLRD 04
OK 317	SALLYARDS,MBR (GRENOLA LS)	U						SLRD 05
ME 351	SALLY MOUNTAIN,CGL				370	WC	D	SLMN 09
CA 340	SALMON,HORNBLLENDE SCHIST	U			1500	NW	A	SLMN 08
WA 200+	SALMON CREEK,GNEISS					NC	D	SMCK 05
WA 300	SALMON CREEK,GNEISS							SMCK 08
WA 200+	SALMON CREEK,SCHIST							SMCK 06





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA 321	SALTSBURG,SS MBR (CONEMAUGH FM)	U			12	WC	A	SLBG 07
WV 321	SALTSBURG,SS MBR (CONEMAUGH FM)	U						SLBG 10
CA 221	SALT SPRING,SLATE	U				C	D	SSPG 11
VA 347	SALTVILLE,CHERT (HELDERBERG GP)				18	SW	A	SLVL 11
AZ 221	SALT WASH,SS MBR (MORRISON FM)	U						SLWS 01
CO 221	SALT WASH,SS MBR (MORRISON FM)	U						SLWS 02
NM 221	SALT WASH,SS MBR (MORRISON FM)	U						SLWS 03
UT 221	SALT WASH,SS MBR (MORRISON FM)	U			53	EC	A	SLWS 04
WY 211	SALT WELLS CREEK,MBR (ROCK SPRINGS FM)		SS			SW	D	SWCK 01
KY 361	SALUDA,DOL MBR (DRAKES FM)	U						SLUD 02
IN 361	SALUDA,FM	U			20	SE	A	SLUD 01
KY 361	SALUDA,LS	U						SLUD 03
OH 361	SALUDA,LS MBR (WHITEWATER FM)							SLUD 05
IN 361	SALUDA,MBR (WHITEWATER FM)							SLUD 06
KY 364	SALVISA,BED (PERRYVILLE MBR OF LEXINGTON LS)	U			6	C	A	SLVS 03
NV 122	SALYER,FM	U	VOL		610	C	D	SLYR 01
AZ 120	SAMANIEGO,GRANITE					SE	C	SMNG 02
ID 341	SAMARIA,LS MBR (JEFFERSON FM)							SMRI 01
UT 341	SAMARIA,LS MBR (JEFFERSON FM)				180	NE	E	SMRI 02
OK 325	SAM CREEK,LS MBR (SAVANNA SS)	U			6	EC	A	SMCK 14
IN 332	SAMPLE,FM (WEST BADEN GP)							SMPL 02
IL 332	SAMPLE,SS							SMPL 07
IN 332	SAMPLE,SS	U						SMPL 08
KY 332	SAMPLE,SS	U			12	C	A	SMPL 05
IN 332	SAMPLE,SS (WEST BADEN GP)							SMPL 03
IL 332	SAMPLE,SS MBR (RIDENHOWER FM)							SMPL 06
MD 307	SAMS CREEK,METABASALT					NC	C	SMCK 19
NV 364	SAMS SPRING,FM (CLIPPER CANYON GP)		SED			C	C	SSPG 15
NM 313+	SAN ANDRES,FM				150	C	A	SADR 01
TX 313+	SAN ANDRES,FM							SADR 04
NM 318	SAN ANDRES,FM							SADR 07
TX 318	SAN ANDRES,FM							SADR 10
NM 313+	SAN ANDRES,GP							SADR 02
NM 318	SAN ANDRES,GP							SADR 08
NM 313+	SAN ANDRES,LS	U						SADR 03
TX 313+	SAN ANDRES,LS	U						SADR 06
NM 318	SAN ANDRES,LS	U						SADR 09
TX 318	SAN ANDRES,LS	U						SADR 12
TX 318	SAN ANGELO,FM (PEASE RIVER GP)				49	NC	A	SAGL 03
TX 318	SAN ANGELO,SS (PEASE RIVER GP)	U						SAGL 01

CA	112	SAN ANTONIO,FM	U	GVL	37	WC	A	SNAN	01
CA	300	[SAN ANTONIO CANYON,FM]		MET		SC	C	SNAC	01
CA	300	/SAN ANTONIO CANYON,GP						SNAC	02
NM	211	SANASTEE,SS MBR (MANCOS SH)			3	NW	C	SNST	02
PA	231	SANATOAGA,MBR (BRUNSWICK FM)		SH	61	SE	A	SNTG	03
KS	317	SANATORIUM,LS LENTIL (GEUDA SPRINGS MBR OF WELLINGTON FM)				SE	C	SNRM	02
CA	112+	SAN BENITO,GRAVEL			460	WC	A	SNBN	01
CA	121	SAN BENITO,GRAVEL						SNBN	02
CO	111+	SANBORN,FM	U					SNBR	19
NE	111+	SANBORN,FM						SNBR	17
CO	112	SANBORN,FM	U					SNBR	20
NE	112	SANBORN,FM						SNBR	18
KS	111+	SANBORN,GP	U	LOS	55	NW	A	SNBR	01
KS	112	SANBORN,GP	U					SNBR	02
TX	212	SAN CARLOS,FM	U	SS	430	WC	A	SCRL	02
TX	124	SANCHEZ,SS (JACKSON GP)			42	MEX	A	SNCZ	03
CA	122	SAN CLEMENTE,LENS (CAPISTRANO FM)		SD,CGL	12	SE	E	SCLM	01
AK	122	SANCTUARY,FM	U	SH	110	EC	E	SNCR	01
AK	120	SAND BAY,VOLCS	U		580	SW	C	SNDB	03
OK	331	SAND BRANCH,MBR (CANEY SH)			53	SE	C	SDBC	01
VA	112	SAND BRIDGE,FM		SD	6	SE	D	SDBG	01
WY	124	SAND BUTTE,BED (LANEY MBR OF GREEN RIVER FM)	U	LS,ST	270	SW	E	SNDB	04
NM	111	SAND CANYON,FM		ALV	15	NE	C	SNDC	01
NE	122	SAND CANYON,MBR (SHEEP CREEK FM)		SD	44	NW	C	SNDK	02
OR	111	/SAND CREEK,FLOWS				SW	C	SDCK	01
OR	111	[SAND CREEK,PUMICE]						SDCK	36
LA	123	SANDEL,FM		SD	5	WC	C	SNDL	02
AZ	101+	SANDERS,BASALT	U		61	WC	C	SDRS	01
AZ	112	SANDERS,BASALT	U					SDRS	02
IN	333+	SANDERS,GP		LS	50	SC	D	SDRS	03
IN	338	SANDERS,GP						SDRS	10
TX	321	SANDERS BRIDGE,LS [BED] (PALO PINTO FM)			5	NE	A	SDBG	02
KY	339	SANDERSON,MBR (NEW ALBANY SH)			3	SC	C	SDRS	05
GA	124	SANDERSVILLE,LS			6	C	B	SDVL	07
GA	124	SANDERSVILLE,LS MBR (BARNWELL FM)	U					SDVL	08
AL	331	SANDFALL,MBR (PRIDE MOUNTAIN FM)	U	SH	26	NW	C	SDFL	02
MS	331	SANDFALL,MBR (PRIDE MOUNTAIN FM)	U					SDFL	03
TN	324+	SAND GAP,SS (SLATESTONE GP)			30	NE	C	SDGP	01
TN	327	SAND GAP,SS (SLATESTONE GP)						SDGP	16
TN	324+	SAND GAP,SS MBR (SLATESTONE FM)						SDGP	17

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN	327	SAND GAP,SS MBR (SLATESTONE FM)							SDGP 18
NV	122	SANDGRASS,ANDESITE	U			150	C	A	SDGR 01
CO	111+	SAND HILLS,FM	U						SDHL 01
NE	111+	SAND HILLS,FM	U	SD		60	WC	A	SDHL 02
SD	111+	SAND HILLS,FM	U						SDHL 03
CO	112	SAND HILLS,FM	U						SDHL 04
NE	112	SAND HILLS,FM	U						SDHL 05
SD	112	SAND HILLS,FM	U						SDHL 06
CA	122	SANDHOLDT,MBR (MONTEREY FM)	U			240	WC	C	SDLD 09
CA	122	SANDHOLDT,SH							SDLD 10
CO	324	SANDIA,FM	U						SNDI 02
NM	324	SANDIA,FM (MAGDALENA GP)	U	SH		46	NC	A	SNDI 03
NM	420	/SANDIA,GRANITE					NC	E	SNDI 05
CA	121	SAN DIEGO,FM	U	SD		380	SE	C	SNDG 01
CA	112	SAN DIMAS,FM		ALV			SC	A	SDMS 01
OR	111	[SAND MOUNTAIN,BASALT]					WC	D	SNDM 09
OR	111	/SAND MOUNTAIN,FLAWS							SNDM 01
ID	211	SANDPOINT,CGL	U			1500	NW	A	SNDP 05
SC	112	SANDRIDGE,MBR (WICOMICO FM)		SD			SE	D	SDDG 01
CA	220	SANDS,GRANITE	U				SE	D	SNDS 01
NV	220	SANDS,GRANITE	U						SNDS 02
ID	112	SAND SPRINGS,BASALT (SNAKE RIVER GP)	U			150	SC	A	SSPG 01
NV	123	SANDSTORM,FM	U	RHY		120	C	A	SDRM 02
NC	410	SANDSUCK,FM (WALDEN CREEK GP)							SDCK 27
TN	410	SANDSUCK,FM (WALDEN CREEK GP)	U	SS		300	EC	A	SDCK 29
AZ	121	SANDTRAP,CGL	U		RD	610	WC	C	SDRP 01
AZ	200	SAND WELLS,FM	U	QTZ		1900	SC	D	SDWL 01
NJ	211	SANDY HOOK,MBR (RED BANK SAND)	U				EC	C	SDHK 01
WV	327	SANDY HUFF,SH [MBR] (NEW RIVER FM)				21	SW	A	SDHF 01
OR	121	SANDY RIVER,MUDSTONE	U			220	NW	D	SDRV 01
CA	123+	SAN EMIGDIO,FM	U	SS		300	SC	A	SEMG 02
CA	124	SAN EMIGDIO,FM	U						SEMG 03
CA	123+	SAN EMIGDIO,MBR (SAN LORENZO FM)							SEMG 04
CA	124	SAN EMIGDIO,MBR (SAN LORENZO FM)							SEMG 05
NC	231	SANFORD,FM (NEWARK GP)	U	CGL	RD	1500	C	A	SFRD 06
CA	230	SANFORD,QTZ							SFRD 05
UT	110	SAN FRANCISCO,ALLUVIUM					SW	C	SFCC 01
CA	124+	SAN FRANCISQUITO,FM	U	SH		2100	SE	D	SFCQ 01
CA	125	SAN FRANCISQUITO,FM	U						SFCQ 02
CA	400	SAN GABRIEL,COMPLEX		MET			SC	A	SGBL 02

CA	400	SAN GABRIEL,FM										SGBL	03
ME	354+	SANGERVILLE,FM			GYK		1000		C	E		SGVL	03
ME	357	SANGERVILLE,FM										SGVL	04
CA	200+	[SAN GORGONIO,COMPLEX]							SE	C		SGRG	12
CA	300	[SAN GORGONIO,COMPLEX]										SGRG	13
CA	200+	/SAN GORGONIO,IGNEOUS-METAMORPHIC COMPLEX										SGRG	06
CA	300	/SAN GORGONIO,IGNEOUS-METAMORPHIC COMPLEX										SGRG	07
CO	317+	SANGRE DE CRISTO,FM		U	CGL		4000		SC	A		SGDC	01
NM	317+	SANGRE DE CRISTO,FM		U								SGDC	02
CO	321	SANGRE DE CRISTO,FM		U								SGDC	03
NM	321	SANGRE DE CRISTO,FM		U								SGDC	04
CA	121	SAN GREGORIO,SS MBR (PURISIMA FM)					110		WC	C		SGRG	04
CA	217+	SANHEDRIN,FM					6100		NW	D		SNDR	02
CA	221	SANHEDRIN,FM										SNDR	03
CO	420	SAN ISABEL,GRANITE							SC	D		SIBL	02
CA	112+	[SAN JACINTO,FM]							SE	A		SNJC	05
CA	121	[SAN JACINTO,FM]										SNJC	06
CA	210+	/SAN JACINTO,GRANODIORITE							SE	C		SNJC	03
CA	220	/SAN JACINTO,GRANODIORITE										SNJC	04
CA	112+	/SAN JACINTO,SER										SNJC	01
CA	121	/SAN JACINTO,SER										SNJC	02
CA	121	SAN JOAQUIN,FM		U	CL		570		C	A		SNJQ	01
NM	112	SAN JON,FM			CL		15		EC	C		SNJN	01
CO	124	SAN JOSE,FM		U								SNJS	01
NM	124	SAN JOSE,FM		U	CL		400		NC	C		SNJS	02
CO	123	SAN JUAN,BRECCIA		U			910		SW	A		SNJN	03
CO	123	SAN JUAN,FM		U								SNJN	04
WA	220+	[SAN JUAN,FM]										SNJN	12
WA	230	[SAN JUAN,FM]										SNJN	13
WA	300	[SAN JUAN,FM]										SNJN	14
WA	220+	/SAN JUAN,GP										SNJN	05
WA	230	/SAN JUAN,GP										SNJN	07
WA	300	/SAN JUAN,GP										SNJN	09
CO	123	SAN JUAN,TUFF		U								SNJN	11
CA	123+	SAN JUAN BAUTISTA,FM (SAN LORENZO GP)			SS		460		WC	A		SJBS	01
CA	124	SAN JUAN BAUTISTA,FM (SAN LORENZO GP)										SJBS	02
MA	112	SANKATY,SAND		U			7		SE	A		SNKT	02
NY	112	SANKATY,SAND		U								SNKT	03
RI	112	SANKATY,SAND		U								SNKT	04
IL	112	SANKOTY,SAND MBR (BANNER FM)					91		NE	C		SNKT	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 123+	SAN LORENZO,FM	U	SH		700	WC	A	SLRZ 01
CA 124	SAN LORENZO,FM	U						SLRZ 03
CA 123+	SAN LORENZO,GP							SLRZ 02
CA 124	SAN LORENZO,GP							SLRZ 04
AZ 122	SAN MANUEL,FM	U	CGL		1500	SE	D	SNML 01
CA 210	SAN MARCOS,GABBRO	U				SE	C	SMRC 04
TX 218	SAN MARTINE,MBR (BORACHO LS)				79	WC	C	SNMR 01
CA 112	SAN MATEO,FM		SD		91	SE	A	SNMT 01
TX 212	SAN MIGUEL,FM	U	SS		240	SC	A	SMGL 06
CA 122+	SAN MIGUEL,VOLCS				720	SC	E	SMGL 03
CA 123	SAN MIGUEL,VOLCS							SMGL 04
CA 122	SAN ONOFRE,BRECCIA	U	SED		800	SE	A	SOFR 01
CA 122	SAN PABLO,FM	U	SS		460	WC	A	SPBL 01
CA 122	SAN PABLO,GP	U						SPBL 02
CA 112	SAN PEDRO,FM	U			1100	SC	A	SPDR 01
CA 112	SAN PEDRO,SAND	U						SPDR 02
AZ 112+	SAN PEDRO VALLEY,FM		CL			SE	C	SPDV 01
AZ 121	SAN PEDRO VALLEY,FM							SPDV 02
UT 211	SANPETE,FM (INDIANOLA GP)	U	SS,CGL		410	C	C	SNPT 01
WA 124	SANPOIL,VOLCS	U				NE	C	SNPL 03
AZ 224	SAN RAFAEL,GP	U						SRFL 07
CO 224	SAN RAFAEL,GP	U						SRFL 08
NM 224	SAN RAFAEL,GP	U						SRFL 09
UT 224	SAN RAFAEL,GP	U	SS			SE	A	SRFL 10
CA 122	SAN RAMON,SS	U			160	WC	A	SNRM 01
TX 371	SAN SABA,LS MBR (WILBERNS FM)	U			85	C	C	SNSB 01
CA 231	SANTA ANA,FM				8500	SE	A	SNAN 08
CA 231	SANTA ANA,LS							SNAN 09
CA 121	/SANTA ANA,SS					SE	A	SNAN 03
TX 319	SANTA ANNA,SH MBR (MORAN FM)	U			23	C	A	SNAN 10
TX 319	SANTA ANNA BRANCH,FM (PUTNAM GP)				46	C	A	SABC 01
TX 319	SANTA ANNA BRANCH,SH MBR (PUTNAM FM)	U						SABC 02
CA 112+	SANTA BARBARA,FM	U	MRL		300	SC	A	SBRB 01
CA 121	SANTA BARBARA,FM	U						SBRB 02
AZ 374	/SANTA CATALINA,FM		QTZ		130	SE	A	SNCL 01
NM 110	SANTA CLARA,BASALT					NC	C	SCLR 01
NY 400	SANTA CLARA,COMPLEX		SYN			NC	C	SCLR 13
CA 112+	SANTA CLARA,FM	U	GVL		150	WC	A	SCLR 03
CA 121	SANTA CLARA,FM	U						SCLR 04
CA 121+	SANTA CRUZ,MUDSTONE					WC	D	SCRZ 03



GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	124	SANTIAGO,FM	U	SS		220	SC	C	SNTG 02
CA	217+	SANTIAGO PEAK,VOLCS	U			910	SE	C	SGPK 03
CA	221	SANTIAGO PEAK,VOLCS	U						SGPK 04
OR	112	SANTIAM,BASALT				550	NW	C	SNTM 01
CA	121	SAN TIMOTEO,FM		SED			SE	A	SNTM 03
TX	324	SANTO,LS (STRAWN GP)				1	C	A	SNT0 03
TX	324	SANTO,LS MBR (GRINDSTONE CREEK FM)							SNT0 01
TX	324	SANTO,LS MBR (MILLSAP LAKE FM)							SNT0 02
CA	122+	SANTOS,SH MBR (TEMBLOR FM)	U			460	SC	A	SNTS 01
CA	123	SANTOS,SH MBR (TEMBLOR FM)	U						SNTS 02
NM	112	SANTO TOMAS,BASALT (POTRILLO VOLCS)					SC		STMS 02
AZ	374	SANUP PLATEAU,MBR (MUAV LS)				9	NW	C	SPPL 01
TX	212	SAN VICENTE,MBR (BOQUILLAS FM)		LS		120	SW	D	SNVC 02
AZ	124	SAN XAVIER,CGL				140	SC	C	SXVR 01
NM	318	SAN YSIDRO,MBR (YESO FM)	U	SS	RD	91	NC	C	SYDR 01
CO	123	SAPINERO MESA,TUFF	U			43	SW	E	SPRM 03
IA	112	SAPPA,FM	U						SAPP 01
KS	112	SAPPA,FM	U						SAPP 02
NE	112	SAPPA,FM	U	CL		9	SC	C	SAPP 03
SD	112	SAPPA,FM							SAPP 04
NE	112	SAPPA,MBR (SHERIDAN FM)							SAPP 05
MT	337+	SAPPINGTON,FM			YL	30	C	C	SPNG 01
MT	341	SAPPINGTON,FM							SPNG 05
MT	337+	SAPPINGTON,MBR (THREE FORKS FM)	U						SPNG 03
MT	341	SAPPINGTON,MBR (THREE FORKS FM)	U						SPNG 07
MT	337+	SAPPINGTON,MBR (THREE FORKS SH)	U						SPNG 04
MT	341	SAPPINGTON,MBR (THREE FORKS SH)	U						SPNG 08
MT	337+	SAPPINGTON,SS							SPNG 02
MT	341	SAPPINGTON,SS							SPNG 06
CA	377+	SARAGOSSA,QTZ	U			300	SE	A	SRGS 01
CA	410	SARAGOSSA,QTZ	U						SRGS 06
NY	400	SARANAC,COMPLEX		SYN			NE	C	SRNC 02
NY	400	SARANAC,FM							SRNC 01
AR	212	SARATOGA,CHALK	U			18	SW	A	SRTG 02
LA	212	SARATOGA,CHALK	U						SRTG 03
TX	212	SARATOGA,CHALK	U						SRTG 07
AR	212	SARATOGA,CHALK (TAYLOR GP)							SRTG 09
NY	371	SARATOGA SPRINGS,GP		DOL,SS		90	EC	D	SGSP 01
OR	121+	SARDINE,FM	U	LV		1800	NW	C	SRDN 03
OR	122	SARDINE,FM	U						SRDN 04





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CT 360	SAVIN,SCHIST				760	C	D	SVIN 01
MA 360	SAVOY,SCHIST	U			1500	NW	A	SVOY 01
VT 360	SAVOY,SCHIST	U						SVOY 02
CO 371	SAWATCH,QTZ	U			110	C	A	STCH 01
CO 371	SAWATCH,SS (HORSESHOE MOUNTAIN GP)							STCH 02
NY 341	SAWMILL CREEK,MBR (CASHAQUA FM)				72	C	C	SMCK 16
NY 341	SAWMILL CREEK,MBR (MIDDLESEX FM)							SMCK 17
NY 341	SAWMILL CREEK,SH (SONYEA GP)							SMCK 20
PA 341	SAWMILL RUN,MBR (CATSKILL FM)		SS	RD	130	EC	E	SMLR 06
ID 224	SAWTOOTH,FM	U						STTH 01
MT 224	SAWTOOTH,FM (ELLIS GP)	U	SS,LS		41	NW	C	STTH 02
UT 123	SAWTOOTH PEAK,FM		TF		91	SW	E	STPK 01
AL 301	SAWYER,LS				150	C	A	SWYR 05
AL 301	SAWYER,LS MBR (WAXAHATCHEE SLATE)	U						SWYR 01
NH 227+	SAWYER,QUARTZ SYENITE (WHITE MOUNTAIN GP)					SC	C	SWYR 02
NH 231	SAWYER,QUARTZ SYENITE (WHITE MOUNTAIN GP)							SWYR 03
VT 371	SAXE BROOK,DOL (WOODS CORNERS GP)				210	NW	C	SXBK 03
VT 371	SAXE BROOK,FM							SXBK 04
PA 341	SAXTON,CGL MBR (CHEMUNG FM)	U			31	SC	A	SXTN 02
MT 337	SAYPO,MBR (MADISON LS)				43	NW	A	SYPO 01
NJ 211	SAYREVILLE,SAND MBR (RARITAN FM)	U		WH	2	EC	C	SRVL 04
PA 211	SAYREVILLE,SAND MBR (RARITAN FM)							SRVL 16
NV 112	S BAR S,FM (LAHONTAN VALLEY GP)		ALV			NW	D	SBRS 01
NY 351	SCAJAQUADA,LS (BERTIE GP)				2	WC	A	SCJQ 01
NY 351	SCAJAQUADA,MBR (BERTIE FM)							SCJQ 03
NY 351	SCAJAQUADA,SH (BERTIE GP)							SCJQ 02
WI 361	SCALES,MBR (MAQUOKETA SH)							SCLS 10
IL 361	SCALES,SH (MAQUOKETA GP)				9	NW	D	SCLS 07
IN 361	SCALES,SH (MAQUOKETA GP)							SCLS 11
MI 420	[SCALES CREEK,BASALT (PORTAGE LAKE VOLCS)]				76	NW	C	SCCK 10
MI 420	/SCALES CREEK,FLOW (PORTAGE LAKE VOLCS)	U						SCCK 08
MO 325	SCAMMON,FM (CABANISS GP)							SCMN 04
OK 325	SCAMMON,FM (CABANISS GP)							SCMN 05
KS 325	SCAMMON,FM (CHEROKEE GP)		SH		10	SE	C	SCMN 03
MO 325	SCAMMON,FM (CHEROKEE GP)							SCMN 07
AZ 420	SCANLAN,FM (APACHE GP)				2	C	A	SCNL 02
AZ 420	SCANLAN,CGL MBR (PIONEER FM)	U						SCNL 03
OR 122+	SCAPPOOSE,FM	U	SH,SS		460	NW	C	SCPS 01
OR 123	SCAPPOOSE,FM	U						SCPS 02
ME 304+	SCARBORO,FM (CASCO BAY GP)	U	PHL		180	SW	A	SCRB 01

ME	307	SCARBORO,FM (CASCO BAY GP)	U							SCRB	02			
WA	124	SCATTER CREEK,FM	U							NE	C	SCCK	02	
WA	124	SCATTER CREEK,RHYODACITE	U									SCCK	03	
SD	123	SCENIC,MBR (BRULE FM)			CL			48		SW	C	SCNC	03	
NM	367	SCENIC DRIVE,FM (EL PASO GP)										SCDV	09	
TX	367	SCENIC DRIVE,FM (EL PASO GP)			DOL			61		WC	D	SCDV	10	
MT	420	SCENIC POINT,MBR (APPEKUNNY FM)			SS,CGL	VAR		210		NW	C	SCCP	04	
PA	371	SCHAEFFERTOWN,FM (CONOCOCHIEGUE GP)	U		LS			21		SE	C	SCFR	01	
NY	367+	SCHAGHTICOKE,SH	U					15		EC	A	SCGK	01	
VT	367+	SCHAGHTICOKE,SH	U									SCGK	02	
NY	371	SCHAGHTICOKE,SH	U									SCGK	03	
VT	371	SCHAGHTICOKE,SH	U									SCGK	04	
NY	364	SCHENECTADY,FM	U		SH			610		EC	A	SCCD	01	
VA	341	SCHERR,FM										SCRR	13	
WV	341	SCHERR,FM (CHEMUNG GP)			STS			350		EC	E	SCRR	15	
MD	341	SCHERR,FM (GREENLAND GAP GP)										SCRR	12	
PA	341	SCHERR,FM (GREENLAND GAP GP)										SCRR	18	
VA	341	SCHERR,FM (GREENLAND GAP GP)										SCRR	14	
WV	341	SCHERR,FM (GREENLAND GAP GP)										SCRR	16	
AZ	317	SCHERRER,FM (NACO GP)	U		SS			210		SE	C	SCRR	06	
NM	317	SCHERRER,FM (NACO GP)	U									SCRR	10	
AZ	317	SCHERRER,FM (SNYDER HILL GP)										SCRR	07	
AZ	211	SCHIEFFELIN,GRANODIORITE	U							SE	C	SCFL	01	
NY	377	SCHODACK,FM	U		SH	BK		60		EC	A	SCCK	06	
VT	377	SCHODACK,FM	U									SCCK	07	
NJ	347	SCHOHARIE,FM	U									SCHR	01	
NY	347	SCHOHARIE,FM	U		LS,SS			2		EC	A	SCHR	02	
PA	347	SCHOHARIE,FM	U									SCHR	03	
NY	347	SCHOHARIE,FM (TRISTATES GP)										SCHR	04	
NY	347	SCHOHARIE,GRIT (TRISTATES GP)										SCHR	05	
NY	341	SCHOLES,FM (CANADAWAY GP)			SS,SH			72		WC	D	SCLS	05	
CA	220	SCHOOL CANYON,GRANITE								SC	C	SCLC	01	
MI	354	SCHOOLCRAFT,DOL (MANISTIQUE GP)						18		C	C	SCCF	01	
WI	354	SCHOOLCRAFT,DOL (MANISTIQUE GP)										SCCF	05	
MI	354	SCHOOLCRAFT,FM (MANISTIQUE GP)										SCCF	02	
WI	354	SCHOOLCRAFT,MBR (MANISTIQUE DOL)										SCCF	06	
MI	354	SCHOOLCRAFT,MBR (MANISTIQUE FM)										SCCF	03	
CO	317	SCHOOLHOUSE,TONGUE (WEBER SS)						24		NW	C	SCLS	04	
MO	367	SCHOOL MINE LEDGE,BED (RICH FOUNTAIN FM)			DOL						C	C	SMLG	01
NV	320+	SCHOONOVER,FM			VSED			2700		NC	D	SCVR	02	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV 330	SCHOONOVER,FM							SCVR 01
AK 211	SCHRADER BLUFF,FM (COLVILLE GP)	U	SS		910	NC	C	SCBF 03
MN 420	SCHROEDER,BASALT (NORTH SHORE GP)				1200	NE	E	SCRD 01
KS 317	SCHROYER,MBR (WREFORD LS)	U			2	NE	A	SCRR 08
NE 317	SCHROYER,MBR (WREFORD LS)	U						SCRR 09
AL 221	SCHULER,FM (COTTON VALLEY GP)							SCLR 17
AR 221	SCHULER,FM (COTTON VALLEY GP)	U	SS		690	SC	C	SCLR 05
LA 221	SCHULER,FM (COTTON VALLEY GP)	U						SCLR 06
MS 221	SCHULER,FM (COTTON VALLEY GP)							SCLR 15
TX 221	SCHULER,FM (COTTON VALLEY GP)	U						SCLR 07
AZ 125	SCHULTZE,GRANITE	U				C	A	SCLZ 01
AK 211+	SCHULZE,FM	U	CH,SS		68	EC	E	SCLZ 02
AK 217	SCHULZE,FM	U						SCLZ 03
CA 211	SCHULZ RANCH,SS MBR (WILLIAMS FM)	U			61	SE	C	SCZR 01
CA 112+	SCHUMANN,FM		GVL		610	SC	A	SCMN 01
CA 121	SCHUMANN,FM							SCMN 02
PA 327	SCHUYLKILL,FM (POTTSVILLE GP)		CGL		91	EC	C	SCLK 01
PA 327	SCHUYLKILL,MBR (POTTSVILLE FM)	U						SCLK 02
IL 357	SCHWEIZER,MBR (WILHELMI FM)		DOL		8	NE	E	SCZR 02
TX 212	SCHWERTNER,MBR (DESSAU FM)		LS			EC	D	SCRR 05
KY 333	SCIENCE HILL,SS MBR (WARSAW FM)	U			13	SC	E	SCCH 01
OH 327	SCIOTOVILLE,CLAY MBR (POTTSVILLE FM)				2	SC	A	SCVL 02
CT 304+	SCITUATE,GRANITE GNEISS (STERLING GP)	U						SCTT 01
RI 304+	SCITUATE,GRANITE GNEISS (STERLING GP)	U				NC	C	SCTT 02
CT 330	SCITUATE,GRANITE GNEISS (STERLING GP)	U						SCTT 04
RI 330	SCITUATE,GRANITE GNEISS (STERLING GP)	U						SCTT 05
NY 354	SCONONDOA,FM (LOCKPORT GP)		LS		46	C	D	SCND 02
NY 354	SCONONDOA,MBR (LOCKPORT FM)							SCND 01
ID 331	SCORPION MOUNTAIN,FM (COPPER BASIN GP)		CGL		1100	SC	E	SCPM 02
NV 220	SCOSSA,SLATE					NW	A	SCSS 01
SD 125	SCOTCH CAP,SS [MBR] (LUDLOW FM)				11	NW	D	SCCP 02
CA 121	SCOTIA BLUFFS,SS (WILDCAT GP)				610	NW	C	SCBF 01
CT 307+	SCOTLAND,SCHIST	U				NE	A	SCLD 01
CT 347	SCOTLAND,SCHIST	U						SCLD 03
NY 364	SCOTT,MBR (DAY POINT LS)							SCTT 06
VT 364	SCOTT,MBR (DAY POINT LS)				13	NW	C	SCTT 07
TN 324	SCOTT,SH	U			180	NE	A	SCTT 03
NV 374+	SCOTT CANYON,FM	U	CH		1500	NC	C	SCCN 01
NV 377	SCOTT CANYON,FM	U						SCCN 02
ID 121	SCOTT CREEK,MBR (POISON CREEK FM)		SS		360	SW	E	SCKK 01

ID	331	SCOTT PEAK,FM	U	LS	690	C	D	SCPK	03	
ID	331	SCOTT PEAK,FM (WHITE KNOB GP)						SCPK	02	
IL	332	SCOTTSBURG,MBR (MENARD LS)						SCBG	11	
KY	332	SCOTTSBURG,MBR (MENARD LS)			10	SW	D	SCBG	12	
VT	377	SCOTTSMORE,QTZ MBR (BRIDGEMAN HILL FM)					NW	D	SCMR	07
IL	325	SCOTTVILLE,LS MBR (MODESTO FM)			2	C	C	SCVL	01	
NV	331	SCOTTY WASH,MBR (CHAINMAN FM)			300	EC	A	SCWS	02	
NV	331	SCOTTY WASH,QTZ						SCWS	01	
ID	410	SCOUT MOUNTAIN,MBR (POCATELLO FM)	U	QTZ	1200	SE	E	SCMN	06	
MI	420	[SCOVILLE POINT,BASALT (PORTAGE LAKE VOLCS)]			30	NW	E	SCVP	02	
MI	420	/SCOVILLE POINT,FLOW (PORTAGE LAKE VOLCS)	U					SCVP	01	
NH	340	SCRAG,GRANITE (NEW HAMPSHIRE GP)				C	A	SCRG	01	
IA	322	SCRANTON,SH (SHAWNEE GP)						SCRN	02	
KS	322	SCRANTON,SH (SHAWNEE GP)			38	EC	A	SCRN	04	
MO	322	SCRANTON,SH (SHAWNEE GP)						SCRN	06	
NE	322	SCRANTON,SH (SHAWNEE GP)						SCRN	08	
IA	322	SCRANTON,SH (WABAUNSEE GP)	U					SCRN	03	
KS	322	SCRANTON,SH (WABAUNSEE GP)	U					SCRN	05	
MO	322	SCRANTON,SH (WABAUNSEE GP)	U					SCRN	07	
NE	322	SCRANTON,SH (WABAUNSEE GP)	U					SCRN	09	
CT	307	SCRANTON MOUNTAIN,MBR (TAINIE MOUNTAIN FM)		SCH		NC	D	SCRM	04	
CA	124	SCRIPPS,FM (LA JOLLA GP)	U	SS	67	SE	E	SCRP	01	
OH	324	/SCRUBGRASS,SH MBR (ALLEGHENY FM)				SE	C	SCBG	04	
AK	211	SEABEE,FM (COLVILLE GP)	U	SS	460	NC	C	SEBE	01	
AK	211	SEABEE,MBR (SCHRADER BLUFF FM)						SEBE	02	
MN	430	SEAFORTH,GNEISS				SW	D	SFRT	01	
IA	325	SEAHORNE,LS (CHEROKEE GP)						SHRN	04	
IL	325	SEAHORNE,LS MBR (SPOON FM)			3	WC	A	SHRN	05	
AK	111	SEAL RIVER,FM		SED		SE	D	SLRV	01	
TX	321	SEAMAN RANCH,SH (BRAD GP)			61	C	A	SMRC	05	
TX	321	SEAMAN RANCH,SH (CANYON GP)						SMRC	08	
TX	321	SEAMAN RANCH,SH MBR (BRAD FM)						SMRC	06	
VT	377	SEARSBURG,CGL MBR (CAVENDISH FM)			53	SW	D	SRBG	06	
VT	377	SEARSBURG,CGL MBR (READSBORO SCHIST)						SRBG	05	
CA	121	SEARSVILLE,FM		SS	10	WC	C	SRVL	03	
CA	121	SEARSVILLE,MBR (SANTA CLARA FM)						SRVL	15	
CA	121	SEA VIEW,MBR (SHAVERS WELL FM)		SS	550	SE	E	SVIW	02	
ME	347	SEAWALL,METAFELSITE				SE	C	SWLL	01	
ME	347	SEBOOMOOK,FM	U			C	A	SBMK	01	
NH	347	SEBOOMOOK,FM						SBMK	05	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ME	347	SEBOOMOOK,SLATE							SBMK 02
VT	347	SEBOOMOOK,SLATE							SBMK 06
KY	324	SEBREE,SS MBR (CARBONDALE FM)				15	WC	A	SEBR 01
CA	230	SEBRINA,COMPLEX		SS		460	C	C	SBRN 02
PA	337	SECOND MOUNTAIN,MBR (POCONO FM)		SS			SC	C	SCDM 01
AZ	364	SECOND VALUE,DOL (MONTOKA GP)	U						SCDV 05
NM	364	SECOND VALUE,DOL (MONTOKA GP)	U			27	SW	C	SCDV 07
TX	364	SECOND VALUE,DOL (MONTOKA GP)	U						SCDV 11
NM	364	SECOND VALUE,MBR (MONTOKA DOL)							SCDV 08
NV	374	SECRET CANYON,SH	U			490	EC	A	SCRC 01
KS	337	SEDALIA,DOL	U						SDLI 03
MO	339	SEDALIA,DOL	U			12	C	A	SDLI 05
KS	337	SEDALIA,LS	U						SDLI 04
MO	339	SEDALIA,LS	U						SDLI 08
MO	339	SEDALIA,LS (CHOUTEAU GP)							SDLI 06
ID	377	SEDGWICK PEAK,MBR (BRIGHAM QTZ)	U			90	SE	E	SKPK 01
VA	121	SEDLEY,FM		SD,ST			SE	C	SDLY 01
TX	319	SEDWICK,FM (MORAN GP)				13	C	A	SDCK 15
TX	319	SEDWICK,LS MBR (MORAN FM)	U						SDCK 16
TN	324	SEEBER FLATS,SS (INDIAN BLUFF GP)				18	NE	C	SBFL 01
TN	324	SEEBER FLATS,SS MBR (INDIAN BLUFF FM)							SBFL 02
WI	430	SEELEY,SLATE	U			300	SC	A	SELY 01
IL	325	SEELYVILLE,COAL MBR (SPOON FM)							SLVL 04
IN	324	SEELYVILLE,COAL MBR (STAUNTON FM)					WC	C	SLVL 05
CO	211	SEGO,SS (MESAVERDE GP)	U						SEGO 01
UT	211	SEGO,SS (MESAVERDE GP)	U			64	EC	A	SEGO 02
TX	218	SEGOVIA,FM (EDWARDS GP)		LS		64	C	E	SGOV 01
TX	125	SEGUIN,FM (WILCOX GP)		SD		57	EC	C	SGUN 02
CA	111+	SEHOO,FM							SHOO 01
CA	112	SEHOO,FM							SHOO 05
NV	111+	SEHOO,FM (LAHONTAN VALLEY GP)	U	GVL		28	WC	D	SHOO 03
NV	112	SEHOO,FM (LAHONTAN VALLEY GP)	U						SHOO 04
ME		SEIGAS--SEE SIEGAS							
NY	364	SELBY,LS (TRENTON GP)				1	CAN	C	SLBY 03
NY	364	SELBY,MBR (ROCKLAND FM)							SLBY 01
NM	122	SELDEN,BASALT MBR (RINCON VALLEY FM)					SC	C	SLDN 01
AZ	317	SELIGMAN,MBR (TOROWEAP FM)		SED			NW	D	SLGM 03
PA	344	SELINGSGROVE,LS (ONONDAGA GP)				20	C	A	SLGV 02
PA	344	SELINGSGROVE,LS (ORISKANY GP)	U						SLGV 03
PA	344	SELINGSGROVE,LS MBR (ONONDAGA FM)							SLGV 01

IL	328	SELLERS,LS MBR (CASEYVILLE FM)						1	SE	C	SLRS	01	
IN	344	SELLERSBURG,LS	U					6	SE	A	SLBG	11	
KY	344	SELLERSBURG,LS	U								SLBG	12	
TN	211	SELMA,GP	U								SELM	03	
AL	212	SELMA,GP	U	LS			370		C	A	SELM	01	
MS	212	SELMA,GP	U								SELM	02	
IN	341	SELMIER,MBR (NEW ALBANY SH)		MS					SE	D	SLMR	04	
NM	211	SEMILLA,SS MBR (MANCOS SH)						21	NW	E	SMLL	02	
WY	400	SEMINOE,FM	U	QTZ				110	SC	A	SMNO	01	
KS	323	SEMINOLE,FM									SMNL	02	
OK	323	SEMINOLE,FM (SKIATOOK GP)	U	CGL				46	EC	A	SMNL	01	
NY	344	SENECA,MBR (ONONDAGA LS)	U					8	C	A	SENC	04	
NM	110	SENECA,TONGUE (CLAYTON BASALT)							NE	C	SENC	02	
AR	325	SENORA,FM									SNOR	03	
KS	325	SENORA,FM									SNOR	02	
MO	325	SENORA,FM (CABANISS GP)									SNOR	04	
OK	325	SENORA,FM (CABANISS GP)	U	SS			150		EC	A	SNOR	01	
CA	410	SENTINEL,DOL (TELESCOPE GP)			WH		30		EC	A	SNNL	04	
CA	211	SENTINEL,GRANODIORITE (TUOLUMNE GP)	U							C	A	SNNL	01
ND	125	SENTINEL BUTTE,FM (FORT UNION GP)		SH,SS			99		SW	A	SNLB	06	
MT	125	SENTINEL BUTTE,MBR (FORT UNION FM)	U								SNLB	01	
ND	125	SENTINEL BUTTE,MBR (FORT UNION FM)	U								SNLB	02	
SD	125	SENTINEL BUTTE,MBR (FORT UNION FM)									SNLB	05	
AK	211	SENTINEL HILL,MBR (SCHRADER BLUFF FM)	U	VSED			320		NC	C	SLHL	01	
UT	370	[SENTINELL,FM]									SNNL	05	
UT	370	/SENTINELL,LS						30	NW	C	SNNL	02	
UT	370	/SENTINELL,QTZ						>30	NW	C	SNNL	03	
NV	344	SENTINEL MOUNTAIN,DOL MBR (NEVADA FM)						180	EC	C	SNLM	01	
OR	111+	[SENTINEL ROCK,ANDESITE]	U					120	SW	C	SRCK	16	
OR	112	[SENTINEL ROCK,ANDESITE]									SRCK	17	
OR	111+	SENTINEL ROCK,LAVA									SRCK	02	
OR	112	SENTINEL ROCK,LAVA									SRCK	04	
MT	124	SEPULCHER,FM (WASHBURN GP)	U	VSED			910		NW	E	SPLC	02	
WY	124	SEPULCHER,FM (WASHBURN GP)	U								SPLC	03	
AL	361	SEQUATCHIE,FM	U								SQTC	01	
GA	361	SEQUATCHIE,FM	U								SQTC	02	
TN	361	SEQUATCHIE,FM	U	SH	RD		99		NE	A	SQTC	03	
VA	361	SEQUATCHIE,FM	U								SQTC	04	
TX	124	SERBIN,SAND LENTIL (MOUNT TABOR MBR OF COOK MTN FM)							EC	C	SRBN	01	
CA	125	SERRANO,CLAY BED (SILVERADO FM)	U		WH		<1		SC	C	SRRN	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO 121	SERVILLETA,FM	U						SRVL 01
NM 121	SERVILLETA,FM	U	ALV		460	NC	C	SRVL 02
NM 121	SERVILLETA,MBR (HINSDALE FM)							SRVL 14
CA 122+	SESPE,FM	U	CGL		1100	SC	A	SESP 01
CA 123	SESPE,FM	U						SESP 02
CA 124	SESPE,FM	U						SESP 03
WV 324	SETH,LS [BED] (KANAWHA FM)				3	SW	A	SETH 01
DE 410	SETTERS,FM (GLENARM GP)	U						STRS 05
MD 410	SETTERS,FM (GLENARM GP)	U	SCH		340	NC	A	STRS 06
PA 410	SETTERS,FM (GLENARM GP)	U						STRS 07
ID 231+	SEVEN DEVILS,GP				3000	WC	A	SVDV 03
OR 231+	SEVEN DEVILS,GP							SVDV 07
ID 310	SEVEN DEVILS,GP							SVDV 04
OR 310	SEVEN DEVILS,GP							SVDV 08
ID 231+	SEVEN DEVILS,VOLCS	U						SVDV 01
OR 231+	SEVEN DEVILS,VOLCS	U						SVDV 05
ID 310	SEVEN DEVILS,VOLCS	U						SVDV 02
OR 310	SEVEN DEVILS,VOLCS	U						SVDV 06
NM 313	SEVEN RIVERS,FM (ARTESIA GP)	U	SH,GYP		49	SE	A	SVRV 04
TX 313	SEVEN RIVERS,FM (ARTESIA GP)	U						SVRV 05
TX 313	SEVEN RIVERS,FM (CARLSBAD GP)							SVRV 06
TX 120	SEVEN SPRINGS,FM (MCCUTCHEON GP)		VOL		210	WC	C	SVSX 01
ME 360+	SEVEN TREE,QTZ MBR (ST. GEORGE FM)				120	SC	D	SVTR 01
ME 370	SEVEN TREE,QTZ MBR (ST. GEORGE FM)							SVTR 02
NV 122+	SEVENTY SIX,BASALT	U			61	NE	D	SVSX 01
NV 123	SEVENTY SIX,BASALT	U						SVSX 03
MO 354	SEVENTY-SIX,SH MBR (BAINBRIDGE FM)			RD	<1	EC	E	SVSX 02
IL 354	SEVENTY-SIX,SH MBR (BAINBRIDGE LS)							SVSX 04
MO 322	SEVERY,FM (WABAUNSEE GP)							SVRY 06
OK 322	SEVERY,SH (ADA GP)							SVRY 07
IA 322	SEVERY,SH (WABAUNSEE GP)	U						SVRY 01
KS 322	SEVERY,SH (WABAUNSEE GP)	U			23	SE	A	SVRY 02
MO 322	SEVERY,SH (WABAUNSEE GP)	U						SVRY 03
NE 322	SEVERY,SH (WABAUNSEE GP)	U						SVRY 04
OK 322	SEVERY,SH (WABAUNSEE GP)	U						SVRY 05
GA 364	SEVIER,FM	U						SVIR 02
TN 364	SEVIER,FM	U			460	EC	A	SVIR 06
GA 364	SEVIER,SH	U						SVIR 03
TN 364	SEVIER,SH	U						SVIR 07
VA 364	SEVIER,SH	U						SVIR 09

UT	112+	SEVIER RIVER,FM	U	CGL	240	C	C	SVRV	01	
UT	121	SEVIER RIVER,FM	U					SVRV	02	
UT	122	SEVIER RIVER,FM	U					SVRV	07	
KS	325	SEVILLE,FM (CHEROKEE GP)						SVLL	03	
MO	325	SEVILLE,FM (CHEROKEE GP)						SVLL	05	
MO	325	SEVILLE,FM (KREBS GP)						SVLL	04	
KS	325	[SEVILLE,LS BED (KREBS FM)]						SVLL	06	
IA	325	SEVILLE,LS MBR (CHEROKEE SH)						SVLL	01	
IL	325	SEVILLE,LS MBR (SPOON FM)			6	WC	A	SVLL	02	
NM	400	SEVILLETA,FM			1400	C	C	SVLT	01	
NM	400	SEVILLETA,METARHYOLITE						SVLT	02	
NM	400	SEVILLETA,RHYOLITE						SVLT	03	
NV	344+	SEVY,DOL	U					SEVY	01	
UT	344+	SEVY,DOL	U		140	WC	A	SEVY	02	
NV	347	SEVY,DOL	U					SEVY	03	
UT	347	SEVY,DOL	U					SEVY	04	
TN	327	SEWANEE,CGL	U		49	SC	A	SEWN	04	
GA	327	SEWANEE,CGL (CRAB ORCHARD MOUNTAINS GP)						SEWN	01	
TN	327	SEWANEE,CGL (CRAB ORCHARD MOUNTAINS GP)						SEWN	03	
GA	327	SEWANEE,MBR (CRAB ORCHARD MOUNTAINS FM)	U					SEWN	02	
TN	327	SEWANEE,MBR (CRAB ORCHARD MOUNTAINS FM)	U					SEWN	05	
GA	327	SEWANEE,SS						SEWN	06	
NE	112	SEWARD,FM		ST	61	SE	C	SWRD	01	
MT	341	SEWARD,MBR (DUPEROW FM)		LS,DOL	69	CAN		SWRD	02	
VA	327	SEWELL,MBR (NEW RIVER FM)	U					SWLL	02	
WV	327	SEWELL,MBR (NEW RIVER FM)	U	SED	200	SC	A	SWLL	03	
CO	234+	SEWEMUP,MBR (MOENKOPI FM)	U	STS	140	WC	C	SWMP	01	
UT	234+	SEWEMUP,MBR (MOENKOPI FM)	U					SWMP	02	
CO	237	SEWEMUP,MBR (MOENKOPI FM)	U					SWMP	03	
UT	237	SEWEMUP,MBR (MOENKOPI FM)	U					SWMP	04	
PA	321	/SEWICKLEY,COAL BED (MONONGAHELA FM)					SW	A	SCKL	16
MD	321	[SEWICKLEY,MBR (PITTSBURGH FM)]							SCKL	19
OH	321	[SEWICKLEY,MBR (PITTSBURGH FM)]							SCKL	19
PA	321	SEWICKLEY,MBR (PITTSBURGH FM)	U	LS	15	SW	A	SCKL	10	
WV	321	SEWICKLEY,MBR (PITTSBURGH FM)	U						SCKL	17
OH	321	/SEWICKLEY,RED-BED MBR (MONONGAHELA FM)							SCKL	05
PA	321	/SEWICKLEY,SS (MONONGAHELA GP)			11	SW	A	SCKL	11	
MD	321	/SEWICKLEY,SS MBR (MONONGAHELA FM)							SCKL	04
OH	321	/SEWICKLEY,SS MBR (MONONGAHELA FM)	U						SCKL	08
PA	321	/SEWICKLEY,SS MBR (MONONGAHELA FM)	U						SCKL	12



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
IL 357	SEXTON CREEK,LS				21	SC	A	SXCK 04
IN 357	SEXTON CREEK,LS							SXCK 06
MO 357	SEXTON CREEK,LS							SXCK 05
TX 112	SEYMOUR,FM	U	CL		15	NC	A	SYMR 01
AK 217+	SEYMOUR CANAL,FM (STEPHENS PASSAGE GP)	U	ARG		2400	SE	D	SMCL 01
AK 221	SEYMOUR CANAL,FM (STEPHENS PASSAGE GP)	U						SMCL 02
AL 327	SHADES,SS MBR (POTTSVILLE FM)	U			61	NC	A	SHDS 01
AZ 110	SHADOW MOUNTAIN,BASALT					NC	C	SDMN 01
UT 374	SHADSCALE,FM	U	LS		160	WC	D	SDCL 01
AL 377	SHADY,DOL	U						SHDY 01
GA 377	SHADY,DOL	U						SHDY 02
NC 377	SHADY,DOL	U						SHDY 04
TN 377	SHADY,DOL	U			240	NE	A	SHDY 05
VA 377	SHADY,DOL	U						SHDY 06
GA 377	SHADY,FM	U						SHDY 03
PA 371	SHADYGROVE,FM (CONOCOCHIEGUE GP)		LS		200	SC	D	SDGV 01
IN 324	SHADY LANE,COAL MBR (MANSFIELD FM)				1	WC	E	SDLN 01
TX 218	SHAFTER,LS (TRINITY GP)	U			210	WC	A	SFTR 02
ME 347+	SHAGG POND,FM (WOODSTOCK GP)		GN		910	SW	D	SGPD 01
ME 351	SHAGG POND,FM (WOODSTOCK GP)							SGPD 02
UT 124	SHAGGY PEAK,RHYOLITE	U				NC	A	SGPK 02
CA 210	SHAKE FLAT,QUARTZ MONZONITE					C	D	SKFL 01
IA 367	SHAKOPEE,DOL (PRAIRIE DU CHIEN GP)	U						SHKP 01
IL 367	SHAKOPEE,DOL (PRAIRIE DU CHIEN GP)	U						SHKP 02
MI 367	SHAKOPEE,DOL (PRAIRIE DU CHIEN GP)	U						SHKP 03
MN 367	SHAKOPEE,DOL (PRAIRIE DU CHIEN GP)	U			21	SC	A	SHKP 04
WI 367	SHAKOPEE,DOL (PRAIRIE DU CHIEN GP)	U						SHKP 05
MN 367	SHAKOPEE,FM (PRAIRIE DU CHIEN GP)							SHKP 07
WI 367	SHAKOPEE,FM (PRAIRIE DU CHIEN GP)							SHKP 06
AK 211	SHALE WALL,MBR (SEABEE FM)	U	SH		420	NC	D	SLWL 01
CO 123	SHALLOW CREEK,QUARTZ LATITE	U			210	SW	D	SLCK 04
MT 211	SHANNON,MBR (EAGLE SS)							SNNN 05
MT 211	SHANNON,SS MBR (CODY SH)							SNNN 04
WY 211	SHANNON,SS MBR (CODY SH)	U			52	C	A	SNNN 01
WY 211	SHANNON,SS MBR (STEELE SH)							SNNN 02
VA 364	SHANNONDALE,LS MBR (BENBOLT FM)				24	SW	C	SNDL 04
ME 347	SHAPLEIGH,GP		MET		3200	SW	E	SPLG 01
NJ 124	SHARK RIVER,FM				4	EC	A	SKRV 09
MD 124	SHARK RIVER,MARL	U						SKRV 05
NJ 124	SHARK RIVER,MARL	U						SKRV 06

PA	327	/SHARON,COAL BED (POTTSVILLE FM)					WC	A	SHRN	17	
NY	327	SHARON,FM (POTTSVILLE GP)							SHRN	19	
PA	327	SHARON,FM (POTTSVILLE GP)	U	CGL		6	WC	A	SHRN	10	
WV	327	SHARON,MBR (POCAHONTAS FM)	U						SHRN	20	
OH	327	SHARON,MBR (POTTSVILLE FM)	U						SHRN	09	
PA	327	SHARON,MBR (POTTSVILLE FM)	U						SHRN	11	
PA	327	SHARON,SS (POTTSVILLE GP)							SHRN	18	
MA	307+	SHARON,SYENITE	U					C	A	SHRN	03
MA	340	SHARON,SYENITE	U							SHRN	13
CT	400	SHARON MOUNTAIN,QUARTZ DIORITE						NW	A	SRNM	01
CO	211	SHARON SPRINGS,MBR (PIERRE SH)	U							SSPG	03
KS	211	SHARON SPRINGS,MBR (PIERRE SH)	U				47	WC	A	SSPG	04
MT	211	SHARON SPRINGS,MBR (PIERRE SH)	U							SSPG	05
NE	211	SHARON SPRINGS,MBR (PIERRE SH)	U							SSPG	07
SD	211	SHARON SPRINGS,MBR (PIERRE SH)	U							SSPG	08
WY	211	SHARON SPRINGS,MBR (PIERRE SH)	U							SSPG	10
PA	324	SHARP MOUNTAIN,FM (POTTSVILLE GP)		CGL		85	EC	C	SRPM	01	
PA	324	SHARP MOUNTAIN,MBR (POTTSVILLE FM)	U							SRPM	02
MA	307+	SHARPNERS POND,TONALITE	U					NE	D	SPPD	04
MA	350	SHARPNERS POND,TONALITE	U							SPPD	02
MA	400	SHARPNERS POND,TONALITE	U							SPPD	05
NE	122	SHARPS,FM								SRPS	05
SD	122	SHARPS,FM (ARIKAREE GP)		ST		100	SW	B	SRPS	03	
MO	364	SHARPSBORO,MBR (DUTCHTOWN FM)		LS		3	SE	D	SRPB	02	
IL	364	SHARPSBORO,MBR (DUTCHTOWN LS)								SRPB	01
CO	324	SHARPSDALE,FM		SS		120	SC	C	SPDL	02	
OH	337	SHARPSVILLE,SS (CUYAHOGA GP)	U							SPVL	01
PA	337	SHARPSVILLE,SS (CUYAHOGA GP)	U				18	NW	A	SPVL	03
OH	337	SHARPSVILLE,SS MBR (CUYAHOGA FM)								SPVL	02
CA	217	SHASTA BALLY,QUARTZ DIORITE						NW	C	SSBL	01
NM	313	SHATTUCK,MBR (QUEEN FM)		SS		30	SC	C	STCK	03	
TX	313	SHATTUCK,MBR (QUEEN FM)								STCK	04
CA	112+	SHAVERS WELL,FM		SS		770	SE	E	SVWL	01	
CA	121	SHAVERS WELL,FM								SVWL	02
OR	224	SHAW,MBR (TROWBRIDGE SH)				230		C	D	SHAW	02
NJ	354+	SHAWANGUNK,CGL	U							SN GK	01
NY	354+	SHAWANGUNK,CGL	U			150	SE	A	SN GK	03	
NJ	357	SHAWANGUNK,CGL	U							SN GK	05
NY	357	SHAWANGUNK,CGL	U							SN GK	07
NJ	361	SHAWANGUNK,CGL	U							SN GK	09

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY 361	SHAWANGUNK,CGL	U						SNGK 11
NJ 354+	SHAWANGUNK,FM	U						SNGK 02
NY 354+	SHAWANGUNK,FM							SNGK 13
PA 354+	SHAWANGUNK,FM	U						SNGK 04
NJ 357	SHAWANGUNK,FM	U						SNGK 06
NY 357	SHAWANGUNK,FM							SNGK 14
PA 357	SHAWANGUNK,FM	U						SNGK 08
NJ 361	SHAWANGUNK,FM	U						SNGK 10
NY 361	SHAWANGUNK,FM							SNGK 15
PA 361	SHAWANGUNK,FM	U						SNGK 12
VT 354	SHAW MOUNTAIN,FM	U	CGL		270	C C		SMNN 07
VT 354	SHAW MOUNTAIN,FM (ST. FRANCIS GP)							SMNN 11
IA 322	SHAWNEE,GP							SHWN 01
KS 322	SHAWNEE,GP	U	LS			EC A		SHWN 02
MO 322	SHAWNEE,GP	U						SHWN 03
NE 322	SHAWNEE,GP	U						SHWN 04
NJ 347	SHAWNEE ISLAND,MBR (COEYMANS FM)	U						SILD 01
PA 347	SHAWNEE ISLAND,MBR (COEYMANS FM)	U	LS		17	EC D		SILD 02
IL 325	SHAWNEETOWN,COAL MBR (CARBONDALE FM)				2	SE C		SNTN 07
PA 337	SHAWS,SS MBR (CUYAHOGA FM)				5	NW A		SHWS 01
WI 371	SHAWTOWN,FM		SS		4	WC D		SHTN 01
WI 371	SHAWTOWN,MBR (EAU CLAIRE SS)							SHTN 02
CA 200+	SHAY MOUNTAIN,COMPLEX		SCH			SE D		SMNN 05
CA 300	SHAY MOUNTAIN,COMPLEX							SMNN 06
AZ 430	SHEA,BASALT (ASH CREEK GP)	U			610	C C		SHEA 01
AZ 430	SHEA,DIABASE							SHEA 02
IL 112	SHEBOYGAN,MBR (LAKE MICHIGAN FM)		CL		1	NE E		SBGN 01
MI 112	SHEBOYGAN,MBR (LAKE MICHIGAN FM)							SBGN 02
WI 112	SHEBOYGAN,MBR (LAKE MICHIGAN FM)							SBGN 03
ID 311	SHEDHORN,SS	U						SDRN 01
MT 311	SHEDHORN,SS	U			29	SC C		SDRN 02
WY 311	SHEDHORN,SS	U						SDRN 03
ID 420	SHEDROOF,CGL (WINDERMERE GP)	U						SDRF 01
WA 420	SHEDROOF,CGL (WINDERMERE GP)	U			3400	NE C		SDRF 02
AK 300	SHEEP BAY,GRANITE	U				SE A		SPBY 01
TX 123	SHEEP CANYON,BASALT (BUCK HILL GP)				71	WC C		SPCN 01
AZ 420	SHEEP CANYON,GRANITE					SE C		SPCN 02
NE 122	SHEEP CREEK,FM	U	CL		30	NW A		SPCK 04
NE 122	SHEEP CREEK,FM (HEMINGFORD GP)							SPCK 05
WY 122	SHEEP CREEK,FM (HEMINGFORD GP)							SPCK 07

AK	330	SHEEP CREEK,MBR (TOTATLANIKA SCHIST)	U			1500	EC	E	SPCK	23
AZ	122	SHEEP CROSSING,FM		SD		3	EC	E	SPCG	01
CO	123	SHEEP MOUNTAIN,ANDESITE	U				SC	A	SPMN	01
CO	123	SHEEP MOUNTAIN,FM							SPMN	04
MT	420	SHEEP MOUNTAIN,QTZ (MISSOULA GP)			RD	700	WC	A	SPMN	03
NV	124	SHEEP PASS,FM	U	SL,STS		980	NE	C	SPPS	01
TX	123	SHEEP PASTURE,FM		RHY		160	WC	E	SPPR	02
NM	231	SHEEP PEN,SS (DOCKUM GP)				21	NE	A	SPPN	01
UT	410+	SHEEPROCK,GP		MET		300	WC	C	SPCK	27
UT	420	SHEEPROCK,GP							SPCK	28
IA	341	SHEFFIELD,FM (YELLOW SPRING GP)		SH		27	NC	A	SFLD	01
IN	324	SHELBURN,FM	U	SS		76	SW	A	SLBR	15
IN	324	SHELBURN,FM (MCLEANSBORO GP)							SLBR	05
VT	112	/SHELBURNE,DRIFT					C	C	SLBR	02
VT	367	SHELBURNE,FM (BEEKMANTOWN GP)				>60	NW	A	SLBR	12
MA	367	SHELBURNE,FM (STOCKBRIDGE GP)							SLBR	10
VT	367	SHELBURNE,FM (STOCKBRIDGE GP)	U						SLBR	13
MA	367	SHELBURNE,MARBLE (STOCKBRIDGE GP)	U						SLBR	11
VT	367	SHELBURNE,MARBLE (STOCKBRIDGE GP)	U						SLBR	14
VT	112	/SHELBURNE,TILL							SLBR	03
IL	323	/SHELBYVILLE,COAL MBR (MATTOON FM)				1	C	C	SLBV	03
MO	322	SHELDON,LS MBR (TOPEKA FM)							SLDN	04
IA	322	SHELDON,MBR (TOPEKA LS)	U						SLDN	02
KS	322	SHELDON,MBR (TOPEKA LS)	U						SLDN	03
NE	322	SHELDON,MBR (TOPEKA LS)	U			1	SE	A	SLDN	05
AK	224	SHELIKOF,FM	U	SH,SS	BK	2100	SC	A	SLKF	02
WY	217	SHELL CREEK,SH					NC	C	SLCK	08
OK	323	SHELL CREEK,SS MBR (NELLIE BLY FM)					NE	E	SLCK	22
AZ	217	SHELLENBERGER CANYON,FM (BISBEE GP)	U	SH,STS		1300	SE	D	SBGC	01
PA	337	SHELLHAMMER HOLLOW,FM	U	STS,MS		2	NW	C	SLMH	01
IA	341	SHELL ROCK,FM				20	NC	A	SRCK	09
IA	341	SHELL ROCK,LS							SRCK	10
AK	217	SHELTER,FM	U	CGL		400	SE	C	SLTR	01
NC	400	SHELTON,GRANITE GNEISS					NC	A	SLTN	05
VA	400	SHELTON,GRANITE GNEISS							SLTN	06
TX	123	[SHELY,FM]		VOL			WC	C	SHLY	02
TX	123	/SHELY,GP							SHLY	01
PA	337	SHENANGO,FM	U	SH,SS		23	NW	A	SNNG	12
OH	337	SHENANGO,FM (POCONO GP)							SNNG	03
PA	337	SHENANGO,FM (POCONO GP)							SNNG	04

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MT 420	SHEPARD, FM (MISSOULA GP)	U	DOL, LS		210	NW	A	SPRD 10
CA 211	SHEPARD CREEK, FM	U	SH, SS			WC	D	SPCK 12
PA 121	SHEPHERDSTOWN, GRAVEL							SPRD 02
WV 121	SHEPHERDSTOWN, GRAVEL					NE	A	SPRD 03
WA 124	SHEPPARD, GRANITE	U				CAN	A	SPRD 05
MN 111+	SHERACK, FM		CL		9	NW	E	SRCK 20
ND 111+	SHERACK, FM							SRCK 19
MN 112	SHERACK, FM							SRCK 21
ND 112	SHERACK, FM							SRCK 14
MN 111+	SHERACK, MBR (COLEHARBOR FM)							SRCK 12
MN 112	SHERACK, MBR (COLEHARBOR FM)							SRCK 22
NY 341	/SHERBURNE, FLAGSTONE MBR (GENESEE FM)	U			34	C	A	SRBR 05
NY 341	SHERBURNE, FM							SRBR 06
NY 341	[SHERBURNE, MBR (GENESEE FM)]							SRBR 10
NY 341	SHERBURNE, STS (GENESEE GP)							SRBR 09
NE 112	SHERIDAN, FM		CL			C	A	SRDN 01
WY 122	SHERMAN, DIORITE	U				NW	A	SRMN 03
CO 420	/SHERMAN, GRANITE	U						SRMN 08
WY 420	/SHERMAN, GRANITE	U		RD		SE	A	SRMN 09
VT 377	SHERMAN, MARBLE MBR (READSBORO SCHIST)				180	SE	A	SRMN 07
PA 341	SHERMAN CREEK, MBR (CATSKILL FM)		SH, SS		1100	SE	D	SMCK 18
NY 364	SHERMAN FALL, FM (TRENTON GP)		LS		32	C	A	SMFL 01
PA 344	SHERMAN RIDGE, FM (HAMILTON GP)		SH		170	EC	C	SMRG 04
PA 344	SHERMAN RIDGE, MBR (MAHANTANGO FM)							SMRG 05
CA 112	SHERWIN, TILL	U			140	C	C	SHRN 01
NV 112	SHERWIN, TILL							SHRN 02
IA 364	SHERWOOD, MBR (DUNLEITH FM)							SHRD 02
IL 364	SHERWOOD, MBR (DUNLEITH FM)		DOL		3	NC	C	SHRD 01
KY 332	SHETLERVILLE, MBR (RENAULT FM)							SLVL 09
IL 332	SHETLERVILLE, MBR (RENAULT LS)				9	SE	A	SLVL 07
ND 112	SHEYENNE VALLEY, DRIFT				27	EC	D	SNVL 01
TN 410	SHIELDS, FM (WALDEN CREEK GP)	U	SS, CGL		760	EC	C	SLDS 02
NJ 122	SHILOH, MARL MBR (KIRKWOOD FM)	U			5	SW	A	SHLH 01
TX 318	SHIMER, DOL BED (VAN VACTER MBR OF BLAINE FM)							SHMR 04
KS 317	SHIMER, GYPSUM MBR (BLAINE FM)	U			7	SC	A	SHMR 05
OK 317	SHIMER, GYPSUM MBR (BLAINE FM)	U						SHMR 02
KS 317	SHIMER, MBR (BLAINE GYPSUM)							SHMR 01
AZ 231	SHINARUMP, MBR (CHINLE FM)	U						SRMP 01
NM 231	SHINARUMP, MBR (CHINLE FM)	U						SRMP 02
NV 231	SHINARUMP, MBR (CHINLE FM)	U						SRMP 03

UT	231	SHINARUMP,MBR (CHINLE FM)	U	CGL	YL	30	SC	A	SRMP	04
ME	364+	SHIN BROOK,FM	U	VSED		280	NE	D	SBRK	04
ME	367	SHIN BROOK,FM	U						SBRK	05
NV	364+	SHINGLE,LS (POGONIP GP)				350	EC	D	SNGL	05
NV	367	SHINGLE,LS (POGONIP GP)							SNGL	07
NV	410	SHINGLE CREEK,QTZ (MCCOY CREEK GP)	U			150	EC	D	SGCK	12
UT	324	SHINGLE MILL,LS MBR (OQUIRRH FM)				140	NC	E	SGLM	01
NV	123	SHINGLE PASS,TUFF	U			40	EC	C	SGLP	06
AZ	420	SHINUMO,QTZ (UNKAR GP)	U			480	NC	A	SHNM	01
MD	364	SHIPPENSBURG,FM							SPBG	03
PA	364	SHIPPENSBURG,FM		LS		150	SC	C	SPBG	04
MS	124	SHIPPS CREEK,SH MBR (COOK MOUNTAIN FM)				13	C	C	SPCK	09
CO	124	SHIRE,MBR (WASATCH FM)	U	CLS	PR	180	NW	E	SHIR	01
AZ	237	SHNABKAIB,SH MBR (MOENKOPI FM)	U						SBKB	02
NV	237	SHNABKAIB,SH MBR (MOENKOPI FM)	U						SBKB	04
UT	237	SHNABKAIB,SH MBR (MOENKOPI FM)	U			190	SW	A	SBKB	06
VA	400	SHOAL,GNEISS	U				SW	C	SHOL	01
UT	122	SHOAL CREEK,BRECCIA		VOL		91	SW	C	SLCK	02
IL	323	SHOAL CREEK,LS	U			5	SC	A	SLCK	15
IN	321	SHOAL CREEK,LS MBR (BOND FM)							SLCK	21
IL	323	SHOAL CREEK,LS MBR (BOND FM)							SLCK	16
FL	122	SHOAL RIVER,FM (ALUM BLUFF GP)	U	MRL,CL			NW	A	SLRV	02
PA	361	SHOCHARY,SS (MARTINSBURG GP)				230	EC	C	SCRY	03
NJ	361	SHOCHARY,SS MBR (MARTINSBURG FM)							SCRY	02
PA	361	SHOCHARY,SS MBR (MARTINSBURG FM)							SCRY	04
PA	361	SHOCHARY RIDGE,MBR (MARTINSBURG FM)		GYK		91	EC	D	SCRG	02
CA	112	SHOEMAKER,GRAVEL	U				SC	C	SMKR	01
NE	322	SHOEMAKER,MBR (CASS LS)				3	SE	A	SMKR	02
NY	341	SHOHOLA,FM							SHHL	03
PA	341	SHOHOLA,FM (WALTON GP)		SS		220	NE	A	SHHL	01
PA	341	SHOHOLA,MBR (CATSKILL FM)	U						SHHL	02
AR	221	SHONGALOO,MBR (SCHULER FM)	U						SHNL	02
LA	221	SHONGALOO,MBR (SCHULER FM)	U	SH,SS		300	NW	C	SNGL	03
MS	221	SHONGALOO,MBR (SCHULER FM)							SNGL	06
TX	221	SHONGALOO,MBR (SCHULER FM)	U						SNGL	04
CA	350	SHOO FLY,FM	U	MET		2400	NC	A	SFLY	01
NY	364	SHOREHAM,FM (TRENTON GP)							SHRM	01
VT	364	SHOREHAM,LS (TRENTON GP)				11	WC	C	SHRM	05
NY	364	SHOREHAM,MBR (SHERMAN FALL FM)							SHRM	02
VT	364	SHOREHAM,MBR (GLEN FALLS LS)							SHRM	06

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MI 112	SHOREWOOD,TILL							SHRD 04
IL 112	SHOREWOOD,TILL MBR (WEDRON FM)							SHRD 03
WI 112	SHOREWOOD,TILL MBR (WEDRON FM)					1 SE E		SHRD 05
KS 331	SHORT CREEK,OOLITE MBR (BOONE FM)	U			2	SE A		SRCK 06
OK 331	SHORT CREEK,OOLITE MBR (BOONE FM)	U						SRCK 08
MO 333	SHORT CREEK,OOLITE MBR (BOONE FM)	U						SRCK 07
MO 333	SHORT CREEK,OOLITE MBR (KEOKUK LS)							SRCK 13
AZ 125	SHORTS RANCH,ANDESITE				120	SC C		SRRC 01
CA 121	SHOSHONE,VOLCS				900	EC E		SHSN 02
WY 125	SHOTGUN,MBR (FORT UNION FM)	U	CLS		860	WC C		STGN 01
NJ 211	SHREWSBURY,MBR (RED BANK SAND)					EC C		SRBR 04
WV 347	SHRIVER,CHERT	U						SRVR 10
MD 347	SHRIVER,CHERT (ORISKANY GP)	U			30	NW A		SRVR 04
PA 347	SHRIVER,CHERT (ORISKANY GP)	U						SRVR 06
MD 347	SHRIVER,CHERT MBR (ORISKANY FM)							SRVR 05
PA 347	SHRIVER,CHERT MBR (ORISKANY FM)							SRVR 07
WV 347	SHRIVER,FM (HELDERBERG GP)							SRVR 21
PA 347	SHRIVER,FM (ORISKANY GP)							SRVR 24
AK 231+	SHUBLIK,FM	U	LS,SH		410	NC A		SBLK 01
AK 234	SHUBLIK,FM	U						SBLK 02
AK 237	SHUBLIK,FM	U						SBLK 03
MS 124	SHUBUTA,CLAY MBR (YAZOO FM)				76	EC C		SHBT 03
AL 124	SHUBUTA,MBR (YAZOO CLAY)	U						SHBT 01
MS 124	SHUBUTA,MBR (YAZOO CLAY)	U						SHBT 02
AL 124	SHUBUTA HILL,CLAY					SW C		SBHL 01
WA 237+	SHUKSAN,FM		SS,SH			NC C		SKSN 01
WA 310	SHUKSAN,FM							SKSN 02
IL 364	SHULLSBURG,MBR (QUIMBYS MILL FM)		DOL		2	NC C		SLBG 13
MO 364	SHULLSBURG,MBR (QUIMBYS MILL FM)							SLBG 17
TX 318	SHULTZ,LS MBR (TALPA FM)				1	C A		SLTZ 01
AK 211	SHUMAGIN,FM	U	GYK		3000	SC D		SMGN 01
NY 341	SHUMLA,SS (CANADAWAY GP)				9	WC A		SHML 01
NY 341	SHUMLA,STS (CANADAWAY GP)							SHML 02
NY 341	SHUMLA,STS MBR (CANADAWAY FM)							SHML 03
OR 122	SHUMURAY RANCH,BASALT				46	EC D		SMRC 02
IL 322	SHUMWAY,LS MBR (MATTOON FM)				<1	EC C		SHMY 05
WY 211	SHURTLIFF,MBR (HILLIARD SH)	U			240	SW D		SRLF 01
UT 231	SHURTZ,TONGUE (NAVAJO SS)	U		RD	34	SW C		SRTZ 02
OR 112+	SHUTLER,FM		GVL,DTM			NC A		STLR 02
OR 121	SHUTLER,FM							STLR 01

CT	231	SHUTTLE MEADOW,FM (MERIDEN GP)		SH		94	C	C	SLMD	06
CT	231	SHUTTLE MEADOW,FM (NEWARK GP)							SLMD	03
NV	374	SHWIN,FM	U	MET		610	C	D	SHWN	05
MI	430	SIAMO,SLATE (MENOMINEE GP)	U			380	NC	A	SIMO	01
IN	332	SIBERIA,LS MBR (MENARD FM)				53	SC	A	SIBR	01
LA	111	SICILY ISLAND,FM		SED		23	NC	C	SCIO	01
CA	230	SIDEWINDER,VOLCS				910	SE	C	SDDR	01
CO	122	SIDNEY,FM (OGALLALA GP)							SDNY	01
NE	122	SIDNEY,FM (OGALLALA GP)				6	WC	C	SDNY	04
CO	122	SIDNEY,GRAVEL (OGALLALA GP)							SDNY	02
NE	122	SIDNEY,GRAVEL (OGALLALA GP)							SDNY	05
KS	122	SIDNEY,GRAVEL BED (KIMBALL MBR OF OGALLALA FM)							SDNY	03
NE	122	SIDNEY,MBR (KIMBALL FM)							SDNY	06
CA	124	SIDNEY FLAT,SH MBR (MARKLEY FM)				210	WC	C	SDFL	01
NV	122	SIEBERT,TUFF	U			210	C	A	SBRT	02
ME	357	SIEGAS,FM		CGL		1	CAN	C	SIGS	01
MI	420	SIEMENS CREEK,FM (POWDER MILL GP)	U	BAS		1300	NW	E	SMCK	22
WI	420	SIEMENS CREEK,FM (POWDER MILL GP)	U						SMCK	21
CA	124	SIERRA BLANCA,LS	U			61	SC	A	SBLC	02
NM	120	SIERRA BLANCA,VOLCS				100	C	D	SBLC	01
CA	340	SIERRA BUTTES,FM		VSED		1500	NC	C	SRBS	05
NM	110	/SIERRA GRANDE,FLOW (CLAYTON BASALT)					NE	C	SRGD	01
NM	110	[SIERRA GRANDE,MBR (CLAYTON BASALT)]							SRGD	02
NM	121	SIERRA NEGRA,BASALT				27	NW	C	SRNG	01
NV	123	SIERRA SPRINGS,TUFF MBR (PINTO PEAK RHYOLITE)	U			180	EC	E	SSPG	16
AZ	220	SIERRITA,GRANITE					SC	C	SRRT	03
NM	367	SIERRITE,FM (EL PASO GP)				51	SW	C	SRRT	01
TX	367	SIERRITE,FM (EL PASO GP)							SRRT	04
NM	367	SIERRITE,LS (EL PASO GP)							SRRT	02
CA	122	SIESTA,FM (CONTRA COSTA GP)	U	CGL		61	WC	A	SIST	02
CA	121	SIGNAL HILL,FM		SED			SC	C	SGLH	01
OK	371	SIGNAL MOUNTAIN,FM (ARBUCKLE GP)	U			56	SC	A	SGLM	02
OK	371	SIGNAL MOUNTAIN,LS (ARBUCKLE GP)							SGLM	03
TN	327	SIGNAL POINT,SH (GIZZARD GP)				16	SC	C	SGLP	09
GA	327	SIGNAL POINT,SH MBR (GIZZARD FM)	U						SGLP	07
TN	327	SIGNAL POINT,SH MBR (GIZZARD FM)	U						SGLP	08
AK	317	SIKSIKPUK,FM	U	SH,STS VAR		110	NC	C	SKKK	02
OR	124	SILETZ RIVER,VOLCS	U			1500	WC	C	SZRV	01
OH	344	SILICA,FM				3	NW	A	SILC	01
MI	344	SILICA,FM (TRAVERSE GP)							SILC	04



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OH 344	SILICA,SH							SILC 02
PA 337	SILKMILL RUN,MBR (POCONO FM)		SS			C	D	SKMR 01
WY 124	SILLEM,MBR (FOWKES FM)	U	SED		122	SW	E	SLLM 01
AZ 104	SIL MURK,FM	U	VSED		510	SC	D	SLMK 01
AZ 200	SIL NAKYA,FM	U	TF		2400	SC	D	SLNK 01
GA 310	SILOAM,GRANITE					NC	E	SLOM 01
CA 125	SILVERADO,FM	U	CL		450	SE	C	SLVD 02
AZ 211	SILVER BELL,FM		VOL		61	SC	C	SLVB 01
FL 112	SILVER BLUFF,FM		SED			EC	D	SVBF 01
GA 112	SILVER BLUFF,FM							SVBF 03
SC 112	SILVER BLUFF,FM							SVBF 02
ID 210	SILVER CITY,GRANITE					SW	A	SLVC 03
UT 124	/SILVER CITY,MONZONITE					C	A	SLVC 01
IN 344	SILVER CREEK,FM				5	SE	A	SVCK 04
IN 344	SILVER CREEK,MBR (NORTH VERNON LS)							SVCK 08
IN 344	SILVER CREEK,MBR (SELLERSBURG LS)	U						SVCK 05
KY 344	SILVER CREEK,MBR (SELLERSBURG LS)	U						SVCK 06
CO 112	SILVER CREEK,TILL					NC	C	SVCK 01
MT 374	SILVER HILL,FM	U	SH		100	WC	A	SLVH 02
CA 122	[SILVER HILL,VOLCS]					C	D	SLVH 03
CA 122	/SILVER HILL,VOLC SER							SLVH 01
NV 344	SILVERHORN,DOL	U		VAR	910	EC	A	SLVR 06
CA 374	SILVER KING,DOL MBR (BONANZA KING FM)				76	SE	A	SVKG 03
NV 374	SILVER KING,DOL MBR (BONANZA KING FM)							SVKG 04
AZ 100+	/SILVER KING,QUARTZ MONZONITE PORPHYRY					C	C	SVKG 01
AZ 200	/SILVER KING,QUARTZ MONZONITE PORPHYRY							SVKG 02
IA 322	SILVER LAKE,MBR (SCRANTON SH)	U						SVLK 03
KS 322	SILVER LAKE,MBR (SCRANTON SH)	U			11	NE	A	SVLK 05
MO 322	SILVER LAKE,MBR (SCRANTON SH)	U						SVLK 07
NE 322	SILVER LAKE,MBR (SCRANTON SH)	U						SVLK 09
IA 322	SILVER LAKE,SH (WABAUNSEE GP)							SVLK 02
MO 322	SILVER LAKE,SH MBR (SCRANTON FM)							SVLK 10
MO 420	SILVER MINE,GRANITE (BEVOS GP)			RD		SE	C	SLVM 02
WA 124	SILVER PASS,VOLCS					C	C	SLVP 01
CA 121	SILVER PEAK,ANDESITE					C	C	SVPK 01
CO 420	SILVER PLUME,GRANITE	U				NC	A	SVPM 01
CO 420	SILVER PLUME,QUARTZ MONZONITE	U						SVPM 02
WA 124	SILVER POINT,QUARTZ MONZONITE	U				NE	E	SLVP 03
UT 231	SILVER REEF,SS MBR (CHINLE FM)					SW	C	SVRF 02
MD 307	SILVER RUN,LS	U		BL		NC	C	SLVR 02



ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
WY	231	SIPS CREEK, MBR (JELM FM)	U	SS		96	SC	E	SPCK 18
CA	124	/SISAR, BLACK SH					SC	C	SISR 01
CA	124	[SISAR, SH]							SISR 02
CT	360	SISCOWIT, GRANITE							SSCT 01
NY	360	SISCOWIT, GRANITE					SE	C	SSCT 02
CA	220	SISKIYOU, GRANODIORITE					NW	A	SSKY 01
CA	121+	SISQUOC, FM	U	ST, SS		360	SC	A	SSQC 01
CA	122	SISQUOC, FM	U						SSQC 02
CA	211	SITES, FM		SS		1200	NW	C	SITS 01
AZ	122	SITGREAVES, TUFF	U			91	WC	A	SGRV 01
AK	217+	SITKA, GRAYWACKE	U			910	SE	D	SITK 02
AK	221	SITKA, GRAYWACKE	U						SITK 04
AK	123+	SITKALIDAK, FM	U	SS, STS		3000	SC	E	SKDK 01
AK	124	SITKALIDAK, FM	U						SKDK 02
AK	123	SITKINAK, FM	U	STS, SS		1500	SC	E	SKNK 01
AK	112	SITKIN POINT, FM	U	VSED		140	SW	C	SKNP 01
WA	120	SIWASH, FM		TF		350	NE	E	SWSH 01
TX	212	SIX FLAGS, LS BED (WOODBINE FM)				1	EC	D	SXFG 02
TX	400	SIXMILE, GRANITE					C	A	SXML 03
UT	211	SIXMILE CANYON, FM (INDIANOLA GP)	U	SS, CGL		830	C	C	SXMC 01
MT	121+	SIXMILE CREEK, FM (BOZEMAN GP)	U	CGL, SS		1800	C	D	SXCK 01
MT	122	SIXMILE CREEK, FM (BOZEMAN GP)	U						SXCK 02
MI	440	SIX-MILE LAKE, AMPHIBOLITE (DICKINSON GP)	U			910	WC	C	SXML 04
TX	213+	SIXSHOOTER, GP		LS		110	WC	C	SXSR 02
TX	218	SIXSHOOTER, GP							SXSR 01
AZ	420	SIXTY MILE, FM (CHUAR GP)		SS		36	NC	E	SXML 02
WA	300	/SKAGIT, GNEISS				1500	NC	A	SKGT 03
WA	107	SKAGIT, VOLCS	U			1200	NC	A	SKGT 04
AK	341+	SKAJIT, LS (BAIRD GP)	U			1200	NC	A	SKJT 01
AK	344	SKAJIT, LS (BAIRD GP)	U						SKJT 02
AK	347	SKAJIT, LS (BAIRD GP)	U						SKJT 03
AK	350	SKAJIT, LS (BAIRD GP)	U						SKJT 04
WA	122	SKAMANIA, VOLCS				240	SC	C	SKMN 01
NY	344	SKANEATELES, FM (HAMILTON GP)				130	C	A	SKLS 02
NY	344	SKANEATELES, SH (HAMILTON GP)	U						SKLS 01
WA	123+	[SKATE CREEK, LAHAR]					SC	C	SKCK 19
WA	124	[SKATE CREEK, LAHAR]							SKCK 20
WA	123+	/SKATE CREEK, LAHARIC BRECCIA							SKCK 07
WA	124	/SKATE CREEK, LAHARIC BRECCIA							SKCK 08
VT	371	SKEELS CORNERS, FM (WOODS CORNERS GP)				120	NW	C	SKLC 01



ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM	110	SLAGLE,TRACHYTE					NE	C	SLGL 01
AK	317+	SLANA SPUR,FM (MANKOMEN GP)	U	VOL		1400	EC	E	SLSP 01
AK	321	SLANA SPUR,FM (MANKOMEN GP)	U						SLSP 02
AK	324	SLANA SPUR,FM (MANKOMEN GP)	U						SLSP 03
CT	361+	SLASHERS LEDGES,FM (HARTLAND GP)		SCH		1200	NW	D	SLDG 01
CT	364	SLASHERS LEDGES,FM (HARTLAND GP)							SLDG 02
AK	200	SLATE CREEK,GRANODIORITE PORPHYRY					EC	D	SLCK 06
KS	317	SLATE CREEK,LS MBR (WELLINGTON FM)		CST		4	SC	C	SLCK 13
KY	324	SLATER,SS MBR (MINGO FM)	U			30	SE	A	SLTR 02
TN	324	SLATER,SS MBR (MINGO FM)	U						SLTR 03
TN	324+	SLATESTONE,FM		SH,SS		190	NE	C	SLSN 02
TN	327	SLATESTONE,FM							SLSN 03
TN	324+	SLATESTONE,GP							SLSN 01
TN	327	SLATESTONE,GP							SLSN 04
LA	125	SLAUGHTER CREEK,MBR (PENDLETON FM)		SD,CL	BK	14	WC	C	SGCK 04
TX	125	SLAUGHTER CREEK,MBR (PENDLETON FM)							SGCK 08
NV	341+	SLAVEN,CHERT	U			1200	NC	C	SLVN 02
NV	344	SLAVEN,CHERT	U						SLVN 07
CO	224	SLICK ROCK,MBR (ENTRADA SS)	U			37	WC	D	SKRK 01
UT	224	SLICK ROCK,MBR (ENTRADA SS)	U						SKRK 02
NV	122	SLIDE CREEK,GRAVEL	U				NE	D	SDCK 06
OR	122	SLIDE CREEK,MBR (STRAWBERRY VOLCS)	U				EC	D	SDCK 07
NY	341	SLIDE MOUNTAIN,CGL			WH	300	SE	A	SLDM 01
NY	341	SLIDE MOUNTAIN,FM (WEST FALLS GP)							SLDM 02
ID	224	SLIDEROCK,MBR (TWIN CREEK LS)	U						SDCK 10
UT	224	SLIDEROCK,MBR (TWIN CREEK LS)	U						SDCK 11
WY	224	SLIDEROCK,MBR (TWIN CREEK LS)	U			91	SW	D	SDCK 12
AR	219	SLIGO,FM	U						SLGO 01
LA	219	SLIGO,FM	U	SH		91	NW	C	SLGO 02
MS	219	SLIGO,FM							SLGO 03
TX	219	SLIGO,FM	U						SLGO 04
LA	219	SLIGO,FM (NUEVO LEON GP)							SLGO 05
TX	219	SLIGO,FM (NUEVO LEON GP)							SLGO 13
TX	219	SLIGO,MBR (TRAVIS PEAK FM)							SLGO 12
SD	124	SLIM BUTTES,FM		SS	VAR	12	NW	D	SLMB 01
MT	211	SLIM SAM,FM	U	SS		370	C	C	SMSM 04
VA	307	SLIPPERY CREEK,GREENSTONE (EVINGTON GP)				910	SC	C	SPCK 20
PA	112	SLIPPERY ROCK,TILL				6	WC	E	SPRK 01
TX	327	SLOAN,FM (MARBLE FALLS GP)				25	C	C	SLON 01
TX	327	SLOAN,MBR (MARBLE FALLS LS)							SLON 02

CO	231	SLOAN CANYON,FM (DOCKUM GP)								SLNC	02
NM	231	SLOAN CANYON,FM (DOCKUM GP)								SLNC	01
CO	237	SLOANE PEAK,MBR (STATE BRIDGE FM)	U	SH	VAR	46	NE	A		SLPK	01
NY	341	SLOAT BROOK,FM		SS		76	WC	E		SLBK	02
PA	341	SLOAT BROOK,FM								SLBK	01
CO	112	SLOCUM,ALLUVIUM	U	SH,STS		72	NE	E		SLCM	01
MT	124	SLOUGH CREEK,TUFF MBR (MOUNT WALLACE FM)	U			210	SC	E		SGCK	07
WY	124	SLOUGH CREEK,TUFF MBR (MOUNT WALLACE FM)	U							SGCK	09
NM	341	SLY GAP,FM	U	STS,SH		35	SC	C		SLGP	02
AL	221	SMACKOVER,FM	U							SMKV	01
AR	221	SMACKOVER,FM	U			210	SC	C		SMKV	03
LA	221	SMACKOVER,FM	U							SMKV	05
MS	221	SMACKOVER,FM	U							SMKV	07
TX	221	SMACKOVER,FM	U							SMKV	09
AL	221	SMACKOVER,LS								SMKV	02
TX	221	SMACKOVER,LS								SMKV	10
LA	221	SMACKOVER,LS								SMKV	06
ME	350	SMALLS FALLS,FM	U	ARG				WC	C	SMLF	01
NH	341	SMARTS MOUNTAIN,GRANITE (OLIVERIAN GP)						WC	C	SMRM	02
TX	124	SMETANA,SS (YEGUA GP)			RD	42	EC	C		SMTN	02
NY	367	SMITH BASIN,FM		DOL		27	EC	C		SMBS	01
WI	112	SMITHBORO,TILL								SMBR	03
IL	112	SMITHBORO,TILL MBR (GLASFORD FM)				4	SC	E		SMBR	02
WI	112	SMITHBORO,TILL MBR (GLASFORD FM)								SMBR	04
AL	307	/SMITH MOUNTAIN,COMPLEX (DADEVILLE COMPLEX)						EC	E	SMMN	01
AL	307	[SMITH MOUNTAIN,PERIDOTITE (DADEVILLE COMPLEX)]								SMMN	05
ID	112	SMITH PRAIRIE,BASALT	U			120	SW	E		SMPR	01
WY	217	SMITHS,FM	U	SH,SS		210	SW	E		SMTS	01
PA	231	SMITHS CORNER,MBR (LOCKATONG FM)		ARG	RD	15	SE	C		SMCR	01
AR	367	SMITHVILLE,FM	U	LS		61	NC	A		SMVL	17
KS	367	SMITHVILLE,FM	U							SMVL	18
MO	367	SMITHVILLE,FM	U							SMVL	19
TX	324	SMITHWICK,GP				120	C	A		SMCK	12
TX	324	SMITHWICK,SH (BEND GP)	U							SMCK	13
NV	371	SMOKY,MBR (NOPAH FM)	U	DOL		330	SC	D		SMKY	01
TX	122	SMOKY CREEK,MBR (DELAHO FM)		SS		330	SW	E		SKCK	06
CO	211	SMOKY HILL,CHALK MBR (NIOBRARA FM)	U							SMKH	01
KS	211	SMOKY HILL,CHALK MBR (NIOBRARA FM)	U				NW	A		SMKH	04
NE	211	SMOKY HILL,CHALK MBR (NIOBRARA FM)	U							SMKH	05
SD	211	SMOKY HILL,CHALK MBR (NIOBRARA FM)	U							SMKH	08

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO	211	SMOKY HILL, MARL MBR (NIOBRARA FM)	U						SMKH 02
NM	211	SMOKY HILL, MARL MBR (NIOBRARA FM)	U						SMKH 07
CO	211	SMOKY HILL, SH MBR (NIOBRARA FM)	U						SMKH 03
NE	211	SMOKY HILL, SH MBR (NIOBRARA FM)	U						SMKH 06
UT	211	SMOKY HOLLOW, MBR (STRAIGHT CLIFFS FM)		MS, SS		35	SC	E	SMKH 09
NY	344	SMYRNA, BED (TULLY LS)				<1	C	E	SMRN 01
ME	350	SMYRNA MILLS, FM	U	SED		1800	NE	D	SMML 01
NE	122	SNAKE CREEK, FM (OGALLALA GP)		SD			NW	A	SKCK 03
WY	122	SNAKE CREEK, FM (OGALLALA GP)							SKCK 04
NY	364	SNAKE HILL, FM	U			910	EC	A	SKHL 02
NY	364	SNAKE HILL, SH							SKHL 03
NM	367	SNAKE HILLS, FM (EL PASO GP)		LS			SW	D	SKHL 04
TX	367	SNAKE HILLS, FM (EL PASO GP)							SKHL 05
MT	111+	[SNAKE RIVER, BASALT]							SKRV 10
MT	112	[SNAKE RIVER, BASALT]							SKRV 11
ID	111+	SNAKE RIVER, GP	U	BAS		76	SW	A	SKRV 01
MT	111+	SNAKE RIVER, GP							SKRV 02
ID	112	SNAKE RIVER, GP	U						SKRV 03
MT	112	SNAKE RIVER, GP							SKRV 04
MA	410	SNEECH POND, SCHIST	U						SCPD 01
RI	410	SNEECH POND, SCHIST (BLACKSTONE GP)	U						SCPD 02
AZ	104	SNEED, ANDESITE	U			910	NC	C	SNED 01
AR	364	SNEEDS, DOL MBR (EVERTON FM)				15	SC	C	SNED 02
AR	364	SNEEDS, LENTIL (EVERTON FM)	U				NW	A	SND5 04
TN	340+	SNEEDVILLE, LS							SND5 03
TN	350	SNEEDVILLE, LS							SDVL 05
CO	123	SNEFFELS, MBR (SAN JUAN TUFF)	U			610	NE	A	SDVL 06
WA	120+	SNEHUMPTION, GRANODIORITE					SW	A	SFLS 01
WA	200	SNEHUMPTION, GRANODIORITE					NC	D	SNMP 01
GA	400	SNELSON, GRANITE	U						SNMP 02
KS	323	SNIABAR, MBR (HERTHA LS)					WC	C	SNLS 01
MO	323	SNIABAR, MBR (HERTHA LS)							SNBR 03
IL	112	SNIDER, TILL MBR (WEDRON FM)				4	WC	A	SNBR 05
IN	112	SNIDER, TILL MBR (WEDRON FM)				5	EC	E	SNDR 01
MO	325	SNI MILLS, LS MBR (LENAPAH FM)							SNDR 09
KS	325	SNI MILLS, MBR (LENAPAH LS)				<1	NW	A	SMLS 02
WA	121+	SNIPES, CGL							SMLS 01
WA	122	SNIPES, CGL				73	SC	C	SNPS 01
PA	371	SNITZ CREEK, FM (CONOCOCHEAQUE GP)	U	DOL		110	SE	C	SNPS 02
PA	371	SNITZ CREEK, MBR (CONOCOCHEAQUE FM)							SZCK 01
									SZCK 02

OK	322	SNOMAC,LS MBR (ADA FM)				WH	14	EC	C	SNMC	03
WA	121+	SNOQUALMIE,GRANODIORITE	U					C	A	SQLM	01
WA	122	SNOQUALMIE,GRANODIORITE	U							SQLM	02
MN	430	SNOWBANK,GRANITE	U						NC	SNBK	01
NC	410	SNOWBIRD,GP (OCOEE SUPERGROUP)	U	QTZ			1500		NW	ABRD	02
TN	410	SNOWBIRD,GP (OCOEE SUPERGROUP)	U							ABRD	03
NV	367	SNOW CANYON,FM (VALMY GP)		CH			370		NE	SNCN	01
WA	123	SNOW CREEK,FM (KEECHELUS GP)		VOL			1500		C	SCRK	06
MT	124	SNOW CREEK,PORPHYRY	U						C	SCRK	07
MT	124	SNOWCREST,GRANITE							SW	SCRS	01
VA	377	SNOWDEN,MBR (HARPERS FM)		QTZ			15		C	SNDN	01
SC	211	SNOW HILL,BEDS (PEDEE FM)								SNHL	07
NC	211	SNOW HILL,MARL MBR (BLACK CREEK FM)	U						EC	SNHL	01
SC	211	SNOW HILL,MARL MBR (BLACK CREEK FM)	U							SNHL	02
ND	112	SNOW SCHOOL,FM		ST,SD			.7		C	SSCL	01
OR	224+	SNOWSHOE,FM	U	SH,SS			850		C	SNSH	01
OR	227	SNOWSHOE,FM	U							SNSH	02
CO	123	SNOWSHOE MOUNTAIN,QUARTZ LATITE	U				1800		SW	SNSM	05
CO	123	SNOWSHOE MOUNTAIN,TUFF								SNSM	06
MT	420	SNOWSLIP,FM (MISSOULA GP)	U	QTZ		GN,RD	.430		NW	SSLP	01
MT	371	SNOWY RANGE,FM (GALLATIN GP)	U	SH			79		SC	SNRG	01
WY	371	SNOWY RANGE,FM (GALLATIN GP)	U							SNRG	03
WY	371	SNOWY RANGE,MBR (BOYSEN FM)								SNRG	04
WY	371	SNOWY RANGE,MBR (GALLATIN LS)								SNRG	05
WY	400	/SNOWY RANGE,SER		MSED			7300		SE	SNRG	07
AK	221	SNUG HARBOR,STS MBR (NAKNEK FM)	U				260		EC	SGHB	01
PA	364	SNYDER,FM							SC	SNDR	08
PA	364	SNYDER,LS					29			SNDR	04
VA	364	SNYDER,LS								SNDR	06
WV	364	SNYDER,LS								SNDR	07
PA	364	SNYDER,MBR (BENNER LS)								SNDR	05
MO	341	SNYDER CREEK,SH	U			GN,BL	15		C	SDCK	25
AZ	317	SNYDER HILL,FM		LS			150		SC	SDHL	08
AZ	317	SNYDER HILL,GP								SDHL	09
IA	322	SNYDERVILLE,SH MBR (OREAD LS)	U							SDVL	01
KS	322	SNYDERVILLE,SH MBR (OREAD LS)	U							SDVL	02
MO	322	SNYDERVILLE,SH MBR (OREAD LS)	U							SDVL	03
NE	322	SNYDERVILLE,SH MBR (OREAD LS)	U							SDVL	04
AZ	121+	/S O,VOLCS	U				3		SE	SO	01
AZ	122	/S O,VOLCS	U				1100		SE	SO	02



ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MT	211	SOAP CREEK,BENTONITE BED (BELLE FOURCHE MBR OF CODY SH)	U		GN	2	SE	C	SPCK 13
WY	211	SOAP CREEK,BENTONITE BED (BELLE FOURCHE MBR OF CODY SH)	U						SPCK 15
MT	211	SOAP CREEK,BENTONITE BED (FRONTIER FM)	U						SPCK 14
WY	211	SOAP CREEK,BENTONITE BED (FRONTIER FM)	U						SPCK 16
UT	331	SOAPSTONE,FM		SH		170	C	D	SPSN 01
CA	122	SOBRANTE,SS (MONTEREY GP)	U			120	WC	A	SBRN 01
NC	112	SOCASSEE,FM							SCST 04
SC	112	SOCASSEE,FM		SD,CL		5	EC	E	SCST 03
CA	122+	SODA LAKE,FM				370	SE	C	SDLK 01
CA	123	SODA LAKE,FM							SDLK 04
CA	122+	SODA LAKE,SH MBR (VAQUEROS FM)	U						SDLK 02
CA	123	SODA LAKE,SH MBR (VAQUEROS FM)	U						SDLK 05
CA	220+	SODA MOUNTAINS,FM		VSED	VAR	2100	SE	C	SDMN 02
CA	230	SODA MOUNTAINS,FM							SDMN 03
NV	221	SOD HOUSE,TUFF (PONY TRAIL GP)	U		WH	91	NC	D	SDHS 01
NY	354	SODUS,SH (CLINTON GP)	U		GN	7	C	A	SDUS 01
IA	112	SOETMELK,MBR (DE FOREST FM)	U	ST,SD		3	WC	D	SMLK 01
CA	120	SOLANO,DIABASE					WC	D	SOLN 01
MI	440	SOLBERG,SCHIST (DICKINSON GP)	U			910	WC	C	SLBG 14
ID	121+	SOLDIER CAP,OLIVINE BASALT (REYNOLDS BASIN GP)				270	SW	E	SDCP 01
ID	122	SOLDIER CAP,OLIVINE BASALT (REYNOLDS BASIN GP)							SDCP 02
KS	322	SOLDIER CREEK,FM (WABAUNSEE GP)				12	NE	A	SDCK 18
IA	322	SOLDIER CREEK,SH (WABAUNSEE GP)							SDCK 17
NE	322	SOLDIER CREEK,SH (WABAUNSEE GP)							SDCK 20
MO	322	SOLDIER CREEK,SH MBR (BERN FM)							SDCK 33
KS	322	SOLDIER CREEK,SH MBR (BERN LS)	U						SDCK 19
NV	122	SOLDIER MEADOW,TUFF	U			120	NW	E	SDMD 01
TX	324	SOLDIERS,LS MBR (BIG SALINE FM)				61	C	C	SLDR 02
UT	124	SOLDIER SUMMIT,MBR (GREEN RIVER FM)		SH		140	NC	E	SDSM 01
NJ	231	SOLEBURY,MBR (STOCKTON FM)		CGL		120	NW	C	SLBR 06
TX	122	SOLEDAD,CGL MBR (CATAHOULA TUFF)	U			17	SC	A	SLDD 01
NM	123	SOLEDAD,RHYOLITE				760	SC	A	SLDD 02
WA	124	SOLEDUCK,FM		SS,SH		6000	NW	A	SDCK 05
AZ	107+	SOLITUDE,GRANITE	U				EC	A	SLTD 01
AZ	211	SOLITUDE,GRANITE	U						SLTD 02
AK	370+	SOLOMON,SCHIST	U				NC	A	SLMN 12
AK	400	SOLOMON,SCHIST	U						SLMN 13
TX	125	SOLOMON CREEK,MBR (WILLS POINT FM)		CL,SD		30	EC	A	SMCK 04
AZ	112+	SOLOMONSVILLE,MBR (GILA CGL)				610	SE	C	SLMV 01
AZ	121	SOLOMONSVILLE,MBR (GILA CGL)							SLMV 02

IA	344	SOLON,LS MBR (CEDAR VALLEY FM)				8	EC	A	SOLN	05
MN	344	SOLON,MBR (CEDAR VALLEY FM)							SOLN	07
IL	344	SOLON,MBR (CEDAR VALLEY LS)							SOLN	06
MN	420	SOLOR CHURCH,FM (KEWEENAWAN SUPERGROUP)		SS,STS RD		>590	SC	E	SLCC	01
NM	321	SOL SE METE,MBR (WILD COW FM)		CLS		90	C	E	SLSM	01
NY	344	SOLSVILLE,MBR (MARCELLUS FM)		SH,SS		15	C	A	SLVL	10
VA	400	SOMERVILLE,GRANITE					NE	A	SMVL	20
ME	341	SONGO,GRANODIORITE (NEW HAMPSHIRE GP)					SW	D	SONG	01
AZ	211	SONOITA,GP		CGL		1200	SE	C	SONT	01
CA	121	SONOMA,VOLCS	U			1200	WC	A	SONM	02
IL	333	SONORA,SS				2	WC	A	SONR	03
AZ	231	SONSELA,SS BED (PETRIFIED FOREST MBR OF CHINLE FM)	U			61	NE	C	SNSL	01
NM	231	SONSELA,SS BED (PETRIFIED FOREST MBR OF CHINLE FM)	U						SNSL	02
NY	341	SONYEA,FM	U	SH		56	WC	A	SONY	01
NY	341	SONYEA,GP							SONY	02
OR	122	SOOKE,FM	U						SOOK	02
WA	122	SOOKE,FM	U	SS		45	NW	A	SOOK	03
OK	218	SOPER,LS MBR (BOKCHITO FM)				1	SE	E	SOPR	02
WA	210	SOPHIE MOUNTAIN,FM		CGL			CAN	A	SPMN	06
CA	122	SOQUEL,MBR (PUENTE FM)	U	SS		760	SE	C	SQUL	01
IL	323	SORENTO,LS MBR (BOND FM)				<1	C	C	SRNT	01
MN	440	SOUDAN,IRON-FORMATION	U			300	NC	A	SUDN	01
MN	440	SOUDAN,IRON-FORMATION (KEEWATIN GP)							SUDN	02
AL	307	SOUGAHATCHEE,GRANITE					EC	A	SGTC	01
NH	347	SOUHEGAN,MBR (LITTLETON FM)				2000	SC	E	SHGN	01
CA	410	SOUR DOUGH,LS (TELESCOPE GP)		SCH		18	EC	A	SRDG	06
CA	410	SOUR DOUGH,LS MBR (KINGSTON PEAK FM)							SRDG	10
OR	122	SOURDOUGH BASIN,BASALT MBR (DEER BUTTE FM)					SE	D	SDGB	02
MT	341+	SOURIS RIVER,FM	U						SRRV	02
ND	341+	SOURIS RIVER,FM	U	DOL		94	WC	C	SRRV	03
SD	341	SOURIS RIVER,FM	U						SRRV	04
WY	341	SOURIS RIVER,FM	U						SRRV	06
MT	344	SOURIS RIVER,FM	U						SRRV	07
ND	344	SOURIS RIVER,FM	U						SRRV	08
ND	341+	SOURIS RIVER,FM (BEAVERHILL LAKE GP)							SRRV	12
ND	344	SOURIS RIVER,FM (BEAVERHILL LAKE GP)							SRRV	13
ND	341+	SOURIS RIVER,FM (MANITOBA GP)							SRRV	10
ND	344	SOURIS RIVER,FM (MANITOBA GP)							SRRV	11
NJ	211	[SOUTH AMBOY,CLAY MBR (RARITAN FM)]				8	NE	C	SAMB	02
NJ	211	/SOUTH AMBOY,FIRE CLAY MBR (RARITAN FM)	U						SAMB	01

ST.	GEOLOGIC AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK	317	SOUTHARD,DOL BED (DOG CREEK SH)				<1	NC	D	STRD 01
MO	323	SOUTH BEND,LS MBR (STANTON FM)							SBND 03
KS	323	SOUTH BEND,MBR (STANTON LS)	U						SBND 02
NE	323	SOUTH BEND,MBR (STANTON LS)	U			3	SE	A	SBNQ 04
TX	212	SOUTH BOSQUE,FM (EAGLE FORD GP)				76	EC	A	SBSQ 04
TX	212	SOUTH BOSQUE,MARL (EAGLE FORD GP)							SBSQ 02
TX	212	SOUTH BOSQUE,SH (EAGLE FORD GP)							SBSQ 06
CT	350+	SOUTHBRIDGE,FM	U						SBDG 04
MA	350+	SOUTHBRIDGE,FM	U	GN,SCH		4100	C	E	SBDG 06
CT	360	SOUTHBRIDGE,FM	U						SBDG 05
MA	360	SOUTHBRIDGE,FM	U						SBDG 07
CO	237+	SOUTH CANYON CREEK,MBR (STATE BRIDGE FM)	U	DOL		2	WC	C	SCCK 09
CO	311	SOUTH CANYON CREEK,MBR (STATE BRIDGE FM)	U						SCCK 05
ID	331	SOUTH CREEK,FM	U	LS,CH		91	C	D	SCRK 20
ID	331	SOUTH CREEK,FM (WHITE KNOB GP)							SCRK 13
AZ	371	SOUTHERN BELLE,MBR (ABRIGO FM)	U	QTZ	WH	8	SE	A	SRBL 02
UT	211	SOUTH FLAT,FM		SS,CGL		870	C	C	STFL 01
IA	322	SOUTH FORK,LS							SFRK 02
NE	322	SOUTH FORK,LS				<1	SE	A	SFRK 04
KS	322	SOUTH FORK,MBR (BURLINGAME LS)							SFRK 03
NE	322	SOUTH FORK,MBR (BURLINGAME LS)							SFRK 05
CA	211	SOUTH FORK MOUNTAIN,SCHIST	U				NW	C	SFKM 01
IL	112	SOUTH HAVEN,MBR (LAKE MICHIGAN FM)		CL		1	NE	E	SHVN 01
MI	112	SOUTH HAVEN,MBR (LAKE MICHIGAN FM)							SHVN 02
WI	112	SOUTH HAVEN,MBR (LAKE MICHIGAN FM)							SHVN 03
NV	344	SOUTH HILL,SS MBR (NEVADA FM)	U			61	EC	E	STHL 01
CT	361+	SOUTHINGTON MOUNTAIN,SCHIST (HARTLAND GP)	U				C	D	SNGM 01
CT	364	SOUTHINGTON MOUNTAIN,SCHIST (HARTLAND GP)	U						SNGM 03
CT	361+	SOUTHINGTON MOUNTAIN,SCHIST MBR (HARTLAND FM)							SNGM 02
CT	364	SOUTHINGTON MOUNTAIN,SCHIST MBR (HARTLAND FM)							SNGM 04
KS	323	SOUTH MOUND,SH MBR (SEMINOLE FM)				3	SE	D	SMND 01
CO	125	SOUTH PARK,FM		GVL		2400	C	E	SPRK 13
CA	410	SOUTH PARK,MBR (KINGSTON PEAK FM)		SS		300	EC	C	SPRK 07
WY	121+	SOUTH PASS,FM	U	CGL		110	WC	D	STPS 01
WY	122	SOUTH PASS,FM	U						STPS 02
CO	217	SOUTH PLATTE,FM (DAKOTA GP)	U	SH,SS		110	C	C	STPL 01
CA	124	SOUTH POINT,FM		SS		1000	SC	E	STPN 01
NV	317	SOUTH RIDGE,SS					C	C	SRDG 02
TX	123	SOUTH RIM,FM (BIG BEND PARK GP)		VSED		300	SW	D	STRM 01
ND	124	SOUTH ROSS,CLAY [BED] (GOLDEN VALLEY FM)			WH	5	NW	C	STRS 02

TX	212	SOUTH TYLER,FM		SD,SH	120	EC	C	STLR	10	
NY	341	SOUTH WALES,MBR (PERRYSBURG FM)	U		20	WC	C	SWLS	05	
NY	341	SOUTH WALES,SH (CANADAWAY GP)						SWLS	06	
AL	331	SOUTHWARD SPRING,SS MBR (PRIDE MOUNTAIN FM)	U					SSPG	13	
MS	331	SOUTHWARD SPRING,SS MBR (PRIDE MOUNTAIN FM)	U		9	NE	A	SSPG	14	
TX	313	SOUTH WELLS,LS MBR (CHERRY CANYON FM)	U		23	WC	C	SWLS	02	
NV	123	SOUTH WILLOW,FM		VOL	910	NW	E	STWL	02	
AK	360	SOWIK,LS	U		300	NC	A	SOWK	01	
AZ	111	/S. P.,BASALT			15	NC	D	SP	01	
CA	122	SPADRA,FELSOPHYRE MBR (GLENORA VOLCS)			110	SC	C	SPDR	07	
NY	344	SPAFFORD,MBR (LUDLOWVILLE FM)		SH	8		C	SPFD	01	
OK	325	SPANIARD,LS MBR (SAVANNA SS)	U		3	EC	A	SPRD	06	
WA	227+	SPANISH CAMP,GNEISS				NC	E	SPCP	01	
WA	230	SPANISH CAMP,GNEISS						SPCP	02	
CA	122	SPANISH CANYON,FM	U	SS,CGL	91	SE	C	SPSC	01	
GA	400	SPARKS,SCHIST	U			WC	C	SPRK	05	
IL	333	SPAR MOUNTAIN,SS MBR (STE. GENEVIEVE LS)			5	SE	C	SPRM	04	
PA	341	SPARROW BUSH,FM		SS,STS	13	NE	E	SPRB	02	
LA	124	SPARTA,FM (CLAIBORNE GP)			170	NW	A	SPRT	03	
TX	124	SPARTA,FM (CLAIBORNE GP)						SPRT	07	
AR	124	SPARTA,SAND (CLAIBORNE GP)	U					SPRT	02	
LA	124	SPARTA,SAND (CLAIBORNE GP)	U					SPRT	04	
MS	124	SPARTA,SAND (CLAIBORNE GP)	U					SPRT	06	
TX	124	SPARTA,SAND (CLAIBORNE GP)	U					SPRT	08	
NH	341	SPAULDING,QUARTZ DIORITE (NEW HAMPSHIRE GP)	U			SW	C	SPDG	01	
OK	420	SPAVINAW,GRANITE				RD	NE	A	SPVN	01
MT	230+	SPEARFISH,FM	U					SPRF	01	
ND	230+	SPEARFISH,FM	U					SPRF	02	
NE	230+	SPEARFISH,FM	U					SPRF	03	
SD	230+	SPEARFISH,FM	U	CL,SH	RD	150	WC	A	SPRF	04
WY	230+	SPEARFISH,FM	U					SPRF	05	
MT	311	SPEARFISH,FM	U					SPRF	06	
ND	311	SPEARFISH,FM	U					SPRF	07	
NE	311	SPEARFISH,FM	U					SPRF	08	
SD	311	SPEARFISH,FM	U					SPRF	09	
WY	311	SPEARFISH,FM	U					SPRF	10	
NV	122	SPEARHEAD,MBR (THIRSTY CANYON TUFF)	U		24		C	A	SPRD	01
NM	123	SPEARS,FM (DATIL GP)		VSED	400		C	C	SPRS	06
WI	364	SPECHTS FERRY,FM						SPCF	06	
IA	364	SPECHTS FERRY,FM (GALENA GP)			3	NE	A	SPCF	07	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IL 364	SPECHTS FERRY,FM (GALENA GP)							SPCF 02
MO 364	SPECHTS FERRY,FM (GALENA GP)							SPCF 08
IA 364	SPECHTS FERRY,SH MBR (DECORAH FM)	U						SPCF 01
IL 364	SPECHTS FERRY,SH MBR (DECORAH FM)	U						SPCF 03
WI 364	SPECHTS FERRY,SH MBR (DECORAH FM)	U						SPCF 05
PA 337+	SPECHTY KOPF,FM		SS		730	EC D		SPKP 05
PA 341	SPECHTY KOPF,FM							SPKP 06
PA 337+	SPECHTY KOPF,MBR (CATSKILL FM)							SPKP 01
PA 341	SPECHTY KOPF,MBR (CATSKILL FM)							SPKP 03
PA 337+	SPECHTY KOPF,MBR (POCONO FM)							SPKP 02
PA 341	SPECHTY KOPF,MBR (POCONO FM)							SPKP 04
CO 122+	SPECIMEN MOUNTAIN,GP					NC C		SPMM 03
CO 123	SPECIMEN MOUNTAIN,GP							SPMM 04
CO 122+	SPECIMEN MOUNTAIN,VOLCS							SPMM 01
CO 123	SPECIMEN MOUNTAIN,VOLCS							SPMM 02
ME 341	SPECKLED MOUNTAIN,QUARTZ MONZONITE (NEW HAMPSHIRE GP)					WC D		SPKM 04
TX 321	SPECK MOUNTAIN,FM (THRIFTY GP)					1 C	A	SPKM 02
TX 321	SPECK MOUNTAIN,LS MBR (THRIFTY FM)	U						SPKM 03
WA 311	SPECTACLE,FM (ANARCHIST GP)		STS		4500	NC E		SPCC 01
IN 344	SPEED,FM					<1 SE	C	SPED 01
IN 344	SPEED,MBR (NORTH VERNON LS)							SPED 03
IN 344	SPEED,MBR (SELLERSBURG LS)	U						SPED 02
KS 317	SPEISER,SH (COUNCIL GROVE GP)	U						SPSR 01
NE 317	SPEISER,SH (COUNCIL GROVE GP)	U				14 SE	A	SPSR 02
NY 367	SPELLMAN,FM (BEEKMANTOWN GP)		LS		8	NE D		SPLM 04
ID 374	SPENCE,SH MBR (LANGSTON DOL)					9 SE	A	SPNC 01
UT 374	SPENCE,SH MBR (LANGSTON DOL)							SPNC 03
ID 374	SPENCE,TONGUE (LEAD BELL SH)	U						SPNC 02
UT 374	SPENCE,TONGUE (LEAD BELL SH)	U						SPNC 04
OR 124	SPENCER,FM	U	SS,SH		1000	WC C		SPCR 01
AZ 374	SPENCER CANYON,MBR (MUAUV LS)				12	NW C		SPCC 02
RI 330	SPENCER HILL,VOLCS (EAST GREENWICH GP)	U					C	SPCH 01
IA 333	SPERGEN,FM		DOL		7	SE C		SPRG 09
MT 124	SPHINX,CGL	U			900	SC A		SPNX 01
ME 347+	SPIDER LAKE,FM		VOL		3200	NC E		SPLK 02
ME 351	SPIDER LAKE,FM							SPLK 03
WA 217	SPIEDEN,FM		CGL		600	NW A		SPDN 01
WA 124	SPIKETON,FM (PUGET GP)	U	SS		1100	WC E		SPKN 02
TX 124	SPILLER,SAND MBR (COOK MOUNTAIN FM)				32	EC C		SPLR 01
TX 124	SPILLER,SAND MBR (CROCKETT FM)							SPLR 02

AZ	122	SPILLWAY,BRECCIA		VSED			NW	C	SPLL	01
NV	122	SPILLWAY,BRECCIA							SPLL	02
WA	110	SPIRAL BUTTE,ANDESITE					SC	E	SPLB	01
OK	325	SPIRO,SS MBR (SAVANNAH FM)				6	EC	C	SPRO	01
PA	230	SPITZENBERG,CGL					SE	C	SPZB	01
AK	123	SPLIT CREEK,SS MBR (KATALLA FM)	U			300	C	A	SPCK	08
CA	122	SPLIT MOUNTAIN,FM				820	SE	C	SPLM	01
WY	122	SPLIT ROCK,FM				700	C	D	SPRK	11
WA	112	SPOKANE,DRIFT					EC	A	SPKN	01
MT	420	SPOKANE,FM (RAVALLI GP)	U			460	C	A	SPKN	03
MT	420	SPOKANE,SH (RAVALLI GP)	U						SPKN	04
IL	325	SPOON,FM (KEWANEE GP)	U	SH		110	WC	C	SPON	01
MT	341	SPOTTED BEAR,MBR (JEFFERSON LS)				38	NW	A	SPDB	01
OR	320	SPOTTED RIDGE,FM	U	CGL		460	C	C	SPRG	02
NE	122	SPOTTEDTAIL,MBR (SHEEP CREEK FM)				52	NW	C	SPDL	01
AL	331	SPOUT SPRING,OOLITE [MBR] (BANGOR LS)				15	NW	C	SPSP	02
TX	318	SPRABERRY,SS				270	C	C	SPRB	01
ME	357	SPRAGUEVILLE,FM	U	STS		1200	NE	D	SPGV	06
NY	364	SPRAKERS,SH MBR (CANAJOHARIE SH)					EC	A	SPRK	04
MT	234+	SPRAY RIVER,FM				730	CAN	A	SPRV	03
MT	237	SPRAY RIVER,FM							SPRV	04
MO	322	SPRING BRANCH,LS MBR (LECOMPTON FM)							SPGB	03
IA	322	SPRING BRANCH,MBR (LECOMPTON LS)							SPGB	01
KS	322	SPRING BRANCH,MBR (LECOMPTON LS)	U			2	EC	A	SPGB	02
NE	322	SPRING BRANCH,MBR (LECOMPTON LS)							SPGB	04
UT	211	/SPRING CANYON,MBR (BLACKHAWK FM)				30	EC	C	SPGC	03
UT	211	/SPRING CANYON,MBR (FRONTIER FM)				>100	NC	C	SPGC	04
UT	211	SPRING CANYON,MBR (STAR POINT SS)				61	EC	A	SPGC	05
NM	123	/SPRING CANYON,MBR (WALKER ANDESITE BRECCIA)				21	C	E	SPGC	01
UT	211	SPRING CANYON,TONGUE (STAR POINT SS)	U						SPGC	06
TX	324	SPRING CREEK,BED (STRAWN FM)				91	C	A	SPCK	22
AR	331	SPRING CREEK,LS MBR (MOOREFIELD FM)	U						SPCK	30
AZ	231	SPRINGDALE,SS MBR (MOENAVE FM)	U						SPGD	01
UT	231	SPRINGDALE,SS MBR (MOENAVE FM)	U			55	SW	C	SPGD	02
OK	328+	SPRINGER,FM (NOBLE RANCH GP)				1800	SE	A	SPRG	03
OK	331	SPRINGER,FM (NOBLE RANCH GP)							SPRG	06
OK	328+	SPRINGER,GP	U						SPRG	04
OK	331	SPRINGER,GP	U						SPRG	07
OK	328+	SPRINGER,SH							SPRG	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 331	SPRINGER,SH							SPRG 08
VT 370	SPRINGFIELD,CGL					SC	A	SPGF 07
IL 325	/SPRINGFIELD,COAL MBR (CARBONDALE FM)				2	C	C	SPGF 03
IN 324	/SPRINGFIELD,COAL MBR (PETERSBURG FM)							SPGF 08
OH 354	SPRINGFIELD,DOL	U		BL	14	WC	A	SPGF 04
OH 354	SPRINGFIELD,DOL (DURBIN GP)							SPGF 05
OH 354	SPRINGFIELD,LS	U						SPGF 06
NY 344	SPRINGFIELD CENTER,MBR (ONONDAGA FM)		LS		9	C	C	SPGC 07
IA 344	SPRING GROVE,MBR (WAPSIPINICON LS)				6	EC	A	SPGV 03
IL 344	SPRING GROVE,MBR (WAPSIPINICON LS)							SPGV 07
KS 323	SPRING HILL,MBR (PLATTSBURG LS)	U			7	EC	A	SPGH 02
MO 323	SPRING HILL,MBR (PLATTSBURG LS)							SPGH 03
NE 323	SPRING HILL,MBR (PLATTSBURG LS)	U						SPGH 04
IL 325	SPRING LAKE,COAL MBR (CARBONDALE FM)				<1	NC	E	SPLK 01
PA 361	SPRING MOUNT,SS MBR (BALD EAGLE FM)					C	C	SPGM 03
NV 317	SPRING MOUNTAIN,FM		LS		1400	SE	C	SPGM 01
ME 304+	SPRING POINT,FM (CASCO BAY GP)	U	GNS			SW	A	SPGP 01
ME 307	SPRING POINT,FM (CASCO BAY GP)	U						SPGP 03
CA 217	SPRINGS ROAD,SS					91	C	D
IL 338	SPRINGVILLE,SH					30	SC	A
OR 112	SPRINGWATER,FM	U	GVL			61	NW	D
TX 212	SPRINKLE,FM		CLS			100	EC	D
MT 112	SPROLE,SILT	U				30	NE	D
NC 300	SPRUCE PINE,ALASKITE						NW	C
ME 340+	SPRUCE TOP,GREENSTONE	U				460	NE	D
ME 350	SPRUCE TOP,GREENSTONE	U						SPTP 02
ME 360	SPRUCE TOP,GREENSTONE	U						SPTP 03
AZ 430	SPUD MOUNTAIN,VOLCS (BIG BUG GP)	U			4000	C	C	SPDM 03
MT 430	SPUHLER PEAK,FM		MET				SW	E
ME 304+	SPURWINK,LS (CASCO BAY GP)	U				61	SW	A
ME 307	SPURWINK,LS (CASCO BAY GP)	U						SPRK 08
NJ 124	SQUANKUM,MBR (SHARK RIVER FM)		SD			1	EC	A
MA 301+	SQUANTUM,TILLITE (BOSTON BAY GP)					180	EC	A
MA 304	SQUANTUM,TILLITE (BOSTON BAY GP)							SQNM 05
MA 301+	SQUANTUM,TILLITE MBR (ROXBURY CGL)							SQNM 04
MA 304	SQUANTUM,TILLITE MBR (ROXBURY CGL)							SQNM 06
ME 347	SQUARE LAKE,LS	U					NE	A
TX 120	SQUARE PEAK,VOLCS	U				1100	WC	C
MI 341	SQUAW BAY,LS (TRAVERSE GP)	U				2	EC	C
WA 122	SQUAW CREEK,DIATOMITE BED (FRENCHMAN SP'GS MBR,YAKIMA BASALT)					5	C	C

ID	200+	/SQUAW CREEK,SCHIST (RIGGINS GP)	U		1800	WC	D	SQCK	03	
ID	300	/SQUAW CREEK,SCHIST (RIGGINS GP)	U					SQCK	05	
AZ	220	SQUAW GULCH,GRANITE	U				SE	E	SQGC	02
MA	112	SQUIBNOCKET CLIFF,PEAT			2	SE	D	SQCB	01	
CA	121	SQUIRE,MBR (PISMO FM)	U	SS	170	SC	E	SQUR	01	
WA	100+	SQUIRE CREEK,QUARTZ DIORITE				NC	C	SQCK	01	
WA	200	SQUIRE CREEK,QUARTZ DIORITE						SQCK	04	
CO	123	SQUIRREL GULCH,LATITE	U		150	SC	A	SQGC	01	
PA	371	STACY,DOL MBR (GATESBURG FM)	U		150	SC	A	STCY	01	
CA	124	STADIUM,CGL (POWAY GP)	U		50	SE	E	STDM	01	
TX	367	STAENDEBACH,MBR (TANYARD FM)	U	LS	91	C	C	SDBC	02	
TX	321	STAFF,LS (CANYON GP)			3	C	A	STFF	03	
TX	321	STAFF,LS (GRAFORD GP)						STFF	01	
TX	321	STAFF,LS MBR (GRAFORD FM)	U					STFF	02	
NY	344	STAFFORD,LS MBR (SKANEATELES SH)			1	WC	A	SFRD	07	
VA	304	STAFFORD STORE,QUARTZ MONZONITE				EC	A	SFDS	01	
NY	344	STAGHORN POINT,BED (OTISCO MBR OF LUDLOWVILLE FM)		LS	1	C	A	SGRP	01	
VT	374	ST. ALBANS,SLATE	U		910	NW	A	SALB	01	
VT	374	ST. ALBANS,SLATE (WOODS CORNERS GP)						SALB	02	
VT	374	ST. ALBANS,SLATE MBR (SWEETSBURG FM)						SALB	03	
MI	430	STAMBAUGH,FM (PAINT RIVER GP)	U	MS		WC	C	SMBG	01	
WI	430	STAMBAUGH,FM (PAINT RIVER GP)						SMBG	02	
MA	400	STAMFORD,GRANITE GNEISS	U					SMFD	01	
VT	400	STAMFORD,GRANITE GNEISS	U			SW	A	SMFD	03	
WA	123+	STAMPEDE,TUFF (KEECHELUS GP)				C	D	SMPD	01	
WA	124	STAMPEDE,TUFF (KEECHELUS GP)						SMPD	02	
KY	364	STAMPING GROUND,MBR (LEXINGTON LS)			3	C	E	SPGG	01	
OR	111	[STAMS MOUNTAIN,COMPLEX]				SW	D	SMSM	06	
OR	111	/STAMS MOUNTAIN,VOLC COMPLEX						SMSM	02	
UT	231	STANAKER,FM		SH,SS	150	NE	C	SNKR	01	
UT	231	STANAKER,MBR (ANKAREH FM)						SNKR	02	
UT	231	STANAKER,MBR (CHINLE FM)						SNKR	03	
WY	120	STANDARD PEAK,ANDESITE				NW	D	SDPK	01	
VT	347+	STANDING POND,AMPHIBOLITE MBR (MEMPHREMAGOG FM)			91	C	C	SDGP	05	
VT	351	STANDING POND,AMPHIBOLITE MBR (MEMPHREMAGOG FM)						SDGP	11	
VT	347+	STANDING POND,AMPHIBOLITE MBR (WAITS RIVER FM)						SDGP	06	
VT	351	STANDING POND,AMPHIBOLITE MBR (WAITS RIVER FM)						SDGP	12	
VT	347+	STANDING POND,MBR (WAITS RIVER FM)						SDGP	14	
VT	351	STANDING POND,MBR (WAITS RIVER FM)						SDGP	15	
MA	347+	STANDING POND,VOLCS						SDGP	19	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NH 347+	STANDING POND,VOLCS							SDGP 04
VT 347+	STANDING POND,VOLCS	U						SDGP 07
MA 351	STANDING POND,VOLCS							SDGP 20
NH 351	STANDING POND,VOLCS							SDGP 10
VT 351	STANDING POND,VOLCS	U						SDGP 13
TX 318	STANDPIPE,LS (CLEAR FORK GP)					1	C	A SDPP 03
TX 318	STANDPIPE,LS MBR (ARROYO FM)	U						SDPP 01
TX 318	STANDPIPE,LS MBR (CLEAR FORK FM)							SDPP 02
CA 122	STANISLAUS,FM			VOL	450	C	D	SSLS 01
NV 122	STANISLAUS,FM							SSLS 02
CA 122	STANISLAUS,GP	U						SSLS 04
NV 122	STANISLAUS,GP	U						SSLS 03
CA 210+	STANISLAUS MEADOW,ADAMELLITE						C	D SLMD 01
CA 220	STANISLAUS MEADOW,ADAMELLITE							SLMD 02
AK 217+	STANIUKOVICH,FM	U		SH	300	SC	A	SKVC 01
AK 221	STANIUKOVICH,FM	U						SKVC 02
AR 331	STANLEY,GP							STNL 03
OK 331	STANLEY,GP	U				1900	SE	A STNL 05
AR 331	STANLEY,SH	U						STNL 04
OK 331	STANLEY,SH	U						STNL 06
TX 331	STANLEY,SH	U						STNL 16
UT 341	STANSBURY,FM			CGL	520	NW	C	SSBR 01
MO 323	STANTON,FM (LANSING GP)							STNN 05
IA 323	STANTON,LS (LANSING GP)	U						STNN 02
KS 323	STANTON,LS (LANSING GP)	U				9	EC	A STNN 04
MO 323	STANTON,LS (LANSING GP)	U						STNN 06
NE 323	STANTON,LS (LANSING GP)	U						STNN 08
CA 122	STANTON RANCH,MBR (SANTA CRUZ ISLAND VOLCS)			AND	400	SC	E	SNRC 04
OK 328	STAPP,CGL MBR (UNION VALLEY FM)				1	SE	C	STPP 01
TX 354	STARCKE,LS						C	D SRCK 11
NY 400	STARK,COMPLEX	U		SYN			NE	C STRK 08
OK 323	STARK,SH MBR (COFFEEVILLE FM)							STRK 09
IA 323	STARK,SH MBR (DENNIS LS)							STRK 02
KS 323	STARK,SH MBR (DENNIS LS)	U				3	SE	A STRK 03
MO 323	STARK,SH MBR (DENNIS LS)							STRK 04
NE 323	STARK,SH MBR (DENNIS LS)	U						STRK 05
OK 323	STARK,SH MBR (HOGSHOOTER FM)							STRK 06
ID 121	STARLIGHT,FM	U		TF	240	SE	D	SRLG 04
TX 120	STAR MOUNTAIN,RHYOLITE (MCCUTCHEON GP)				150	WC	C	SRMN 02
NV 231+	STAR PEAK,GP	U		QTZ	3000	NW	A	SRPK 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ID 112+	STEAMBOAT ROCK,BASALT	U			180	SW	E	SBRK 08
ID 121	STEAMBOAT ROCK,BASALT	U						SBRK 09
MN 430	[STEARNS,GP]						C	SRNS 04
MN 430	/STEARNS,MAGMA SER							SRNS 03
KS 317	STEARNS,SH (COUNCIL GROVE GP)	U						SRNS 01
NE 317	STEARNS,SH (COUNCIL GROVE GP)				5	SE	A	SRNS 02
TX 212	ST. EDWARDS,TUFF [MBR] (BURDITT MARL)					EC	C	SEDD 01
WY 211	STEELE,SH	U			910	SC	A	STEL 01
CA 221	STEELE VALLEY,GRANODIORITE					SE	A	SLVL 02
OR 122	STEENS,BASALT	U			910	SE	A	STNS 02
OR 122	STEENS MOUNTAIN,VOLCS	U			910	SE	A	SNSM 04
LA 121	STEEP GULLY,MBR (FOLEY FM)	U	SD,CL		220	WC	C	SPGL 01
MO 400	STEGALL,RHYOLITE (MIDDLEBROOK GP)					SE	D	STGL 01
CO 331	STE. GENEVIEVE,LS	U						SGVV 01
GA 331	STE. GENEVIEVE,LS	U						SGVV 02
KS 331	STE. GENEVIEVE,LS	U						SGVV 06
OK 331	STE. GENEVIEVE,LS	U						SGVV 11
IL 332+	STE. GENEVIEVE,LS	U						SGVV 16
IN 332+	STE. GENEVIEVE,LS	U						SGVV 19
KY 332+	STE. GENEVIEVE,LS	U						SGVV 14
MO 332+	STE. GENEVIEVE,LS	U				EC	A	SGVV 17
TN 332+	STE. GENEVIEVE,LS	U						SGVV 18
IA 333	STE. GENEVIEVE,LS	U						SGVV 03
IL 333	STE. GENEVIEVE,LS	U						SGVV 04
IN 333	STE. GENEVIEVE,LS	U						SGVV 13
KY 333	STE. GENEVIEVE,LS	U						SGVV 07
MO 333	STE. GENEVIEVE,LS	U						SGVV 10
TN 333	STE. GENEVIEVE,LS	U						SGVV 12
IN 332+	STE. GENEVIEVE,LS (BLUE RIVER GP)							SGVV 20
IN 333	STE. GENEVIEVE,LS (BLUE RIVER GP)							SGVV 05
KY 332+	STE. GENEVIEVE,MBR (MONTEAGLE LS)	U						SGVV 15
KY 333	STE. GENEVIEVE,MBR (MONTEAGLE LS)	U						SGVV 08
KY 331	STE. GENEVIEVE,MBR (NEWMAN LS)	U						SGVV 09
WA 112	STEILACOOM,GRAVEL	U			8	WC	A	SLCM 02
NM 120	STEINS MOUNTAIN,QUARTZ LATITE PORPHYRY					SW	C	SNSM 01
NV 410	STELLA LAKE,QTZ (MCCOY CREEK GP)				240	EC	D	SLLK 09
IN 324	STENDAL,LS MBR (PETERSBURG FM)			BK	1	SW	E	SNDL 03
WA 420	STENSGAR,DOL (DEER TRAIL GP)	U				NE	A	SSGR 01
WA 420	STENSGAR,DOL MBR (DEER TRAIL ARGILLITE)							SSGR 02
AK 317	STEP,CGL	U			600	NE	E	STEP 03

TN	324+	STEPHENS,SS (SLATESTONE GP)				12	EC	C	SPNS	01
TN	327	STEPHENS,SS (SLATESTONE GP)							SPNS	02
TN	324+	STEPHENS,SS MBR (SLATESTONE FM)							SPNS	03
TN	327	STEPHENS,SS MBR (SLATESTONE FM)							SPNS	04
AK	217+	STEPHENS PASSAGE,GP							SPPG	01
AK	221	STEPHENS PASSAGE,GP							SPPG	02
KY	332	[STEPHENSPORT,FM]							SPPR	05
IN	332	STEPHENSPORT,GP							SPPR	04
AK	123	STEPOVAK,FM (BEAVER BAY GP)							SPVK	01
NV	374	STEP RIDGE,MBR (HIGHLAND PEAK FM)							SPRG	10
AK	121	STERLING,FM (KENAI GP)							SRLG	03
CT	304+	[STERLING,GP]							SRLG	14
RI	304+	[STERLING,GP]							SRLG	15
CT	330	[STERLING,GP]							SRLG	16
RI	330	[STERLING,GP]							SRLG	17
CT	304+	/STERLING,PLUTONIC GP							SRLG	06
RI	304+	/STERLING,PLUTONIC GP							SRLG	08
CT	330	/STERLING,PLUTONIC GP							SRLG	09
RI	330	/STERLING,PLUTONIC GP							SRLG	11
IL	112	STERLING,TILL MBR (GLASFORD FM)							SRLG	02
NY	364	STE. THERESE,STS (CHAZY GP)							STRS	09
NY	364	STEBEN,LS MBR (COBOURG FM)							STBN	01
TX	324	STEUSSY,SH MBR (LAZY BEND FM)							STSS	01
TX	324	STEUSSY,SH MBR (MILLSAP LAKE FM)							STSS	02
AZ	227+	STEVENS MOUNTAIN,RHYOLITE							SVSM	01
AZ	231	STEVENS MOUNTAIN,RHYOLITE							SVSM	02
WA	122+	STEVENS RIDGE,FM							SVRG	03
WA	123	STEVENS RIDGE,FM							SVRG	05
WA	122+	STEVENS RIDGE,RHYODACITE							SVRG	04
WA	123	STEVENS RIDGE,RHYODACITE							SVRG	06
NY	367	STEVES FARM,LS MBR (BALDWIN CORNER FM)							SVFM	01
IA	364	STEWARTVILLE,MBR (GALENA DOL)							SRVL	06
WI	364	STEWARTVILLE,MBR (GALENA DOL)							SRVL	11
MN	364	STEWARTVILLE,MBR (GALENA FM)							SRVL	10
IA	364	STEWARTVILLE,MBR (WISE LAKE FM)							SRVL	12
IL	364	STEWARTVILLE,MBR (WISE LAKE FM)							SRVL	08
MO	364	STEWARTVILLE,MBR (WISE LAKE LS)							SRVL	13
VT	347+	ST. FRANCIS,GP							SFRC	05
VT	350	ST. FRANCIS,GP							SFRC	11
CA	121	ST. GEORGE,FM							SGRG	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
ME 360+	/ST. GEORGE,FM		MET			SC	D	SGRG 09
ME 370	/ST. GEORGE,FM							SGRG 10
ME 347	/ST. GEORGE,GRANITE					CAN	B	SGRG 11
CA 121	ST. HELENA,RHYOLITE				610	NW	A	SHLN 01
CA 121	ST. HELENA,RHYOLITE MBR (SONOMA VOLCS)	U						SHLN 02
MN 112	ST. HILAIRE,FM		ST,SD		1	NW	E	SHLR 03
ND 112	ST. HILAIRE,FM							SHLR 02
MN 112	ST. HILAIRE,MBR (COLEHARBOR FM)							SHLR 01
MI 351	ST. IGNACE,DOL (SALINA GP)				91	EC	C	SIGC 01
MI 351	ST. IGNACE,FM	U						SIGC 02
MI 351	ST. IGNACE,FM (BASS ISLANDS GP)							SIGC 03
VT 377	STILES,PHYLLITE	U			300	SW	A	STLS 15
WA 112	STILLAGUAMISH,SAND MBR (VASHON DRIFT)	U			91	NC	C	SLGM 01
IA 364	STILLMAN,MBR (GRAND DETOUR FM)							SLMN 14
IL 364	STILLMAN,MBR (GRAND DETOUR FM)		LS		2	NC	C	SLMN 11
MO 364	STILLMAN,MBR (GRAND DETOUR FM)							SLMN 15
NM 217	STILL RIDGE,FM (BISBEE GP)		CGL		200	SW	C	SRDG 01
MT 440	STILLWATER,COMPLEX	U	INTR		6100	SC	A	STLR 07
AK 124	STILLWATER,FM	U	SH,SS		300	SC	A	STLR 03
OK 317	STILLWATER,FM		SS,SH	RD	240	NE	A	STLR 05
WA 124	STILLWATER CREEK,MBR (COWLITZ FM)		SH		1600	SW	C	SLCK 05
KS 317	STINE,BED (HAMLIN MBR OF JANESVILLE SH)	U						STIN 01
NE 317	STINE,BED (HAMLIN MBR OF JANESVILLE SH)	U			5	SE	A	STIN 03
KY 361	STINGY CREEK,MBR (ASHLOCK FM)	U	LS,STS		5	C	D	SGCK 11
NV 104	STINKING SPRING,CGL				130	EC	D	SKSP 01
CA 410	STIRLING,QTZ	U						SRLG 12
NV 410	STIRLING,QTZ	U			1100	SE	A	SRLG 13
NY 374+	STISSING,DOL	U			61	SE	A	SSNG 01
NY 377	STISSING,DOL	U						SSNG 02
IA 364	ST. JAMES,MBR (DUNLEITH FM)							SJMS 02
IL 364	ST. JAMES,MBR (DUNLEITH FM)		DOL		5	NC	C	SJMS 01
MO 364	ST. JAMES,MBR (DUNLEITH FM)							SJMS 03
MO 338	ST. JOE,GP							STJO 05
KS 337	ST. JOE,LS							STJO 03
MO 338	ST. JOE,LS							STJO 06
AR 337	ST. JOE,LS MBR (BOONE FM)	U		RD	30	NC	A	STJO 02
KS 337	ST. JOE,LS MBR (BOONE FM)	U						STJO 10
OK 337	ST. JOE,LS MBR (BOONE FM)	U						STJO 08
MO 338	ST. JOE,LS MBR (BOONE FM)	U						STJO 11
KS 337	ST. JOE,MBR (FERN GLEN LS)	U						STJO 09

ID 112+	ST. JOE VALLEY,BASALT				NW	D	SJVL	01	
ID 121	ST. JOE VALLEY,BASALT						SJVL	02	
LA 124	ST. JOHNS,BENTONITE BED (COOK MOUNTAIN FM)	U			NC	D	SJNS	01	
AK 340	ST. JOSEPH ISLAND,VOLCS	U		3000	SE	E	SJPI	01	
CO 420	ST. KEVIN,GRANITE	U				C	D	SKVN	01
MO 344	ST. LAURENT,LS	U		84	EC	A	SLRN	04	
IA 371	ST. LAWRENCE,FM	U					SLRC	03	
MN 371	ST. LAWRENCE,FM	U	LS	61	SC	A	SLRC	06	
WI 371	ST. LAWRENCE,FM	U					SLRC	08	
IA 371	ST. LAWRENCE,MBR (TREMPEALEAU FM)	U					SLRC	09	
MI 371	ST. LAWRENCE,MBR (TREMPEALEAU FM)	U					SLRC	05	
VT 112	ST. LAWRENCE LOWLAND,DRIFT					C	D	SLCL	02
MD 122	ST. LEONARD,MBR (CHOPTANK FM)		SD	7	SE	E	SLRD	01	
VA 122	ST. LEONARD,MBR (CHOPTANK FM)						SLRD	02	
MI 420	ST. LOUIS,CGL [BED] (PORTAGE LAKE VOLCS)	U			NW	A	STLS	16	
CO 331	ST. LOUIS,LS	U					STLS	03	
GA 331	ST. LOUIS,LS						STLS	04	
KS 331	ST. LOUIS,LS	U					STLS	08	
OK 331	ST. LOUIS,LS	U					STLS	12	
IA 333	ST. LOUIS,LS	U					STLS	05	
IL 333	ST. LOUIS,LS	U					STLS	06	
KY 333	ST. LOUIS,LS	U					STLS	09	
MO 333	ST. LOUIS,LS	U		91	EC	A	STLS	11	
TN 333	ST. LOUIS,LS	U					STLS	13	
IN 333	ST. LOUIS,LS (BLUE RIVER GP)	U					STLS	07	
KY 333	ST. LOUIS,MBR (NEWMAN LS)	U					STLS	10	
VA 364	ST. LUKE,LS MBR (EDINBURG FM)			27	NC	C	STLK	01	
FL 122	ST. MARKS,FM		LS	20	NC	B	SMRK	01	
MT 211	ST. MARY RIVER,FM	U	CL	300	CAN	A	SMRV	03	
NC 122	ST. MARYS,FM						SMRS	03	
DE 122	ST. MARYS,FM (CHESAPEAKE GP)	U					SMRS	01	
MD 122	ST. MARYS,FM (CHESAPEAKE GP)	U	CL	43	SE	A	SMRS	02	
VA 122	ST. MARYS,FM (CHESAPEAKE GP)	U					SMRS	04	
IN 112	ST. MAURICE,TILL MBR (JESSUP FM)			2	EC	E	SMRC	01	
IN 327	ST. MEINRAD,COAL BED (MANSFIELD FM)			1	SC	E	SMRD	01	
MT 224	STOCKADE BEAVER,MBR (SUNDANCE FM)						SKBV	05	
SD 224	STOCKADE BEAVER,SH MBR (SUNDANCE FM)	U					SKBV	01	
WY 224	STOCKADE BEAVER,SH MBR (SUNDANCE FM)	U		19	NE	C	SKBV	03	
NV 122	STOCKADE WASH,MBR (PAINTBRUSH TUFF)	U		88	SC	D	SCKW	02	
MA 367+	STOCKBRIDGE,FM	U		VAR	430	WC	A	SKBG	05

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY 367+	STOCKBRIDGE,FM	U						SKBG 37
MA 370	STOCKBRIDGE,FM	U						SKBG 13
NY 370	STOCKBRIDGE,FM	U						SKBG 38
MA 367+	STOCKBRIDGE,GP	U						SKBG 06
VT 367+	STOCKBRIDGE,GP	U						SKBG 09
MA 370	STOCKBRIDGE,GP	U						SKBG 14
VT 370	STOCKBRIDGE,GP	U						SKBG 17
CT 367+	STOCKBRIDGE,LS	U						SKBG 03
NY 367+	STOCKBRIDGE,LS	U						SKBG 07
VT 367+	STOCKBRIDGE,LS	U						SKBG 10
CT 370	STOCKBRIDGE,LS	U						SKBG 11
NY 370	STOCKBRIDGE,LS	U						SKBG 15
VT 370	STOCKBRIDGE,LS	U						SKBG 18
CT 367+	STOCKBRIDGE,MARBLE							SKBG 04
CT 370	STOCKBRIDGE,MARBLE							SKBG 12
TN 324	STOCKSTILL,SS (INDIAN BLUFF GP)					24	EC C	SCKL 15
TN 324	STOCKSTILL,SS MBR (INDIAN BLUFF FM)							SCKL 18
NJ 231	STOCKTON,FM (NEWARK GP)	U	ARK	VAR	1500		C A	SCKN 01
NY 231	STOCKTON,FM (NEWARK GP)	U						SCKN 02
PA 231	STOCKTON,FM (NEWARK GP)	U						SCKN 03
TX 319	STOCKWETHER,FM (PUEBLO GP)					8	C A	SCKR 01
TX 319	STOCKWETHER,LS (WICHITA GP)							SCKR 03
TX 319	STOCKWETHER,LS MBR (PUEBLO FM)	U						SCKR 02
WI 367	STODDARD,MBR (ONEOTA DOL)					40	SC C	SDDC 01
CA 122	STODDARD CANYON,QUARTZ MONZONITE						SE C	SDDC 01
NV 364	STONEBERGER,SH (POGONIP GP)						C C	SBRG 01
OK 317	STONEBREAKER,SH (VANOSS GP)					5	NE A	SBRK 07
NV 123	STONE CABIN,FM	U		RD	210		EC C	SNCB 01
NV 123	STONE CABIN,TUFF							SNCB 02
TX 124	STONE CITY,FM (CLAIBORNE GP)		LS		19		EC C	STNC 03
TX 124	STONE CITY,MBR (CROCKETT FM)							STNC 04
LA 125	STONE COAL BLUFF,[CBED] (SLAUGHTER CREEK MBR,PENDLETON FM)		LGN		2		WC C	SCBF 02
CO 317	STONE CORRAL,FM							SCRL 03
NE 317	STONE CORRAL,FM	U						SCRL 06
KS 317	STONE CORRAL,FM (SUMNER GP)	U	LS		2		C C	SCRL 04
KS 317	STONE CORRAL,MBR (HARPER STS)							SCRL 05
NE 317	STONE CORRAL,MBR (SALT FORK FM)							SCRL 12
IL 325	STONEFORT,LS MBR (SPOON FM)	U				1	SE A	SNFR 03
KY 324	STONEFORT,LS MBR (TRADEWATER FM)	U						SNFR 02
PA 367	STONEHENGE,FM (BEEKMANTOWN GP)				150		SC A	SNNG 07





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
KY 331	STONY GAP,SS MBR (PENNINGTON FM)	U						SNGP 03
VA 331	STONY GAP,SS MBR (PENNINGTON FM)							SNGP 06
NY 344	STONY HOLLOW,MBR (MARCELLUS FM)				30	SE	C	SNHL 04
NJ 344	STONY HOLLOW,MBR (MARCELLUS SH)							SNHL 03
PA 344	STONY HOLLOW,MBR (MARCELLUS SH)	U						SNHL 05
MT 361	STONY MOUNTAIN,FM (BIGHORN GP)	U	DOL			CAN	A	SNMN 04
ND 361	STONY MOUNTAIN,FM (BIGHORN GP)	U						SNMN 05
SD 361	STONY MOUNTAIN,FM (BIGHORN GP)	U						SNMN 06
WY 361	STONY MOUNTAIN,FM (BIGHORN GP)	U						SNMN 08
VT 364	STONY POINT,FM (TRENTON GP)							SNPN 06
NY 364	STONY POINT,SH (TRENTON GP)			BK	150	NE	A	SNPN 03
VT 364	STONY POINT,SH (TRENTON GP)							SNPN 05
NV 350	STORFF,FM		PHL		1200	NC	D	STRF 01
NY 420	STORM KING,GRANITE					SE	A	SMKG 01
KS 322	STORMONT,BED (WAMEGO MBR OF ZEANDALE LS)				1	EC	C	SRMN 10
KS 322	STORMONT,LS MBR (PIERSON POINT SH)							SRMN 05
NJ 347	STORMVILLE,MBR (COEYMANS FM)	U						SMVL 08
PA 347	STORMVILLE,MBR (COEYMANS FM)	U			5	NE	A	SMVL 13
NJ 347	STORMVILLE,SS							SMVL 10
UT 211	STORRS,TONGUE (STAR POINT SS)	U			5	EC	A	STRS 03
NM 321	STORY,FM (HANSONBURG GP)		LS		18	C	C	STRY 01
MO 322	STOTLER,FM (WABAUNSEE GP)							STLR 09
KS 322	STOTLER,LS (WABAUNSEE GP)	U			11	EC	C	STLR 06
NE 322	STOTLER,LS (WABAUNSEE GP)							STLR 12
PA 367	STOUFFERSTOWN,FM (BEEKMANTOWN GP)				68	SC	C	SFRS 04
MD 367	STOUFFERSTOWN,MBR (STONEHENGE LS)	U						SFRS 01
PA 367	STOUFFERSTOWN,MBR (STONEHENGE LS)	U						SFRS 02
WV 367	STOUFFERSTOWN,MBR (STONEHENGE LS)	U						SFRS 03
ND 361	STOUGHTON,MBR (STONY MOUNTAIN FM)		SH		15	CAN	D	STGN 05
MO 420	STOUTS CREEK,RHYOLITE (VAN EAST GP)			PR		EC	D	SCRK 17
KS 317	STOVALL,MBR (WINFIELD LS)	U			1	EC	A	STVL 03
NE 317	STOVALL,MBR (WINFIELD LS)	U						STVL 05
PA 364	STOVER,LS				28	SC	C	STVR 03
WV 364	STOVER,LS							STVR 07
PA 364	STOVER,MBR (BENNER LS)							STVR 04
PA 364	STOVER,MBR (LINDEN HALL FM)							STVR 09
VT 367	STOWE,FM	U	SCH		1000	NC	C	STOW 01
MD 364	ST. PAUL,GP	U	LS		150	NC	C	STPL 02
PA 364	ST. PAUL,GP	U						STPL 03
WV 364	ST. PAUL,GP	U						STPL 04



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IL 364	STRAWBRIDGE, MBR (QUIMBYS MILL FM)		DOL		1	NC	C	SBDG 03
MO 364	STRAWBRIDGE, MBR (QUIMBYS MILL FM)							SBDG 09
MA 301	STRAW HOLLOW, DIORITE	U				C	A	SRHL 01
TX 321+	STRAWN, FM		SH		910	C	A	STRN 04
TX 324	STRAWN, FM							STRN 05
TX 321+	STRAWN, GP	U						STRN 03
TX 324	STRAWN, GP	U						STRN 02
ND 112	STREETER, DRIFT					SC	D	STRR 01
ID 420	ST. REGIS, FM (RAVALLI GP)	U	SS	GN, PR	240	NW	A	SRGS 03
MT 420	ST. REGIS, FM (RAVALLI GP)	U						SRGS 04
WA 420	ST. REGIS, FM (RAVALLI GP)	U						SRGS 05
NY 400	ST. REGIS, GRANITE					NE	C	SRGS 02
AK 317	STRELNA, FM	U	TF		3000	C	A	SRLN 01
TX 344+	STRIBLING, FM	U	LS		3	C	C	SBLG 01
TX 347	STRIBLING, FM	U						SBLG 02
KS 317	STRICKLER, MBR (DONEGAL LS)				1	NE	A	SCKL 02
ID 420	STRIPED PEAK, FM (MISSOULA GP)	U	SS	GN, PR	300	NW	A	SPPK 02
MT 420	STRIPED PEAK, FM (MISSOULA GP)	U						SPPK 03
WA 420	STRIPED PEAK, FM (MISSOULA GP)	U						SPPK 04
NC 410	STRIPED ROCK, GRANITE							SPRK 09
VA 420	STRIPED ROCK, GRANITE	U				SW	C	SPRK 06
VT 367	STRITES POND, FM (BEEKMANTOWN GP)				30	NW	A	SRPD 03
VT 367	STRITES POND, LS							SRPD 04
KY 361	STRODES CREEK, MBR (LEXINGTON LS)				9	NC	E	SDCK 26
AZ 123	STRONGHOLD, GRANITE	U				SE	C	SGLD 03
OH 337	STRONGSVILLE, MBR (CUYAHOGA FM)		SH			NE	C	SGVL 02
VA 330	STROUBLES, FM		SH	RD	480	SC	D	SRBL 01
OK 325	STUART, SH (CABANISS GP)	U			85	EC	A	STRT 02
WA 112	STUART, TILL					C	C	STRT 01
TX 218	STUART CITY, FM (ATASCOSA GP)		SED			SC	D	STRC 01
CA 230+	STUART FORK, FM	U	QTZ			NW	D	SRFK 01
CA 300	STUART FORK, FM	U						SRFK 02
WA 112	STUCK, DRIFT	U			12	WC	C	STCK 01
WA 112	STUCK, TILL	U						STCK 02
KS 322	STULL, MBR (KANWAKA SH)	U			9	EC	A	STLL 01
MO 322	STULL, MBR (KANWAKA SH)	U						STLL 02
NE 322	STULL, MBR (KANWAKA SH)	U						STLL 03
ID 221	STUMP, SS	U			180	SE	A	STMP 01
UT 221	STUMP, SS	U						STMP 02
WY 221	STUMP, SS	U						STMP 03

KS	112	STUMP ARROYO, MBR (CROOKED CREEK FM)	U	SD		3	SW	C	SMPA	01
AL	304	STUMPS CREEK, FM		SL	GN	370		C	E	SPCK 29
AL	304	STUMPS CREEK, TONGUE (WASH CREEK SLATE)								SPCK 24
MI	430	STURGEON, QTZ (CHOCOLAY GP)	U			150	NW	A	ASRG	01
AK	112	STURGEON RIVER, DRIFT						SC	E	SGRV 08
KY	321	STURGIS, FM	U	SS		650	WC	E	STRG	01
AK	341	STUVER, MBR (KANAYUT CGL)	U			260	NC	A	STVR	01
NY	377	STUYVESANT, CGL [MBR] (METTAWEE FM)					EC	C	STVS	02
NY	377	STUYVESANT, CGL [MBR] (NASSAU FM)								STVS 01
NY	367	STUYVESANT FALLS, FM		ARG	GN	120	SE	D	SVFL	02
IN	321	ST. WENDELL, SS MBR (BOND FM)				17	SW	E	SWDL	03
ID	321+	SUBLETT, MBR (WELLS FM)		SS, LS		>470	SC	C	SBLT	01
ID	324	SUBLETT, MBR (WELLS FM)								SBLT 02
ID	122	SUCKER CREEK, FM								SKCK 18
OR	122	SUCKER CREEK, FM		PCL			SE	C	SKCK	05
MN	420	SUCKER RIVER, BASALT (NORTH SHORE GP)				1500	EC	E	SKRV	08
VT	364	SUDBURY, MARBLE	U		WH		WC	A	SDBR	01
TX	218	SUE PEAKS, FM		LS		82	SW	D	SPKS	01
ID	112	SUGAR BOWL, GRAVEL (SNAKE RIVER GP)	U			6	SW	D	SGBL	01
LA	124	SUGAR CREEK, LENTIL (COCKFIELD FM)		GLC			NC	D	SGCK	01
NH	341	SUGAR HILL, QUARTZ MONZONITE (NEW HAMPSHIRE GP)						C	A	SGHL 02
WA	121+	SUGARLOAF, ANDESITE						C	C	SGLF 05
WA	122	SUGARLOAF, ANDESITE								SGLF 06
HI	112	SUGAR LOAF, BASALT (HONOLULU GP)	U			12	NC	A	SGLF	04
MA	231	SUGARLOAF, FM	U	ARK		910	NW	A	SGLF	09
CT	231	SUGARLOAF, FM (NEWARK GP)								SGLF 08
WY	400	SUGARLOAF, QTZ (LIBBY CREEK GP)					SE	A	SGLF	15
AZ	211	/SUGARLOAF, QUARTZ LATITE	U			460	SE	C	SGLF	07
AZ	122	/SUGARLOAF, SER					SE	C	SGLF	01
AZ	122	[SUGARLOAF, VOLCS]								SGLF 19
MD	370	SUGARLOAF MOUNTAIN, QTZ	U		WH	150	NC	C	SGFM	02
NM	123	SUGARLUMP, TUFF	U		VAR	430	SW	C	SGMP	01
NY	364	SUGAR RIVER, LS (TRENTON GP)				12	NC	E	SGRV	07
IL	354	SUGAR RUN, FM		DOL		8	NE	E	SGRR	01
UT	231	SUICIDE, GRIT [MBR (ANKAREH FM)]					NC	C	SUCD	02
MO	371	SULLIVAN, STS MBR (BONNETERRE DOL)				7	C	E	SLVN	20
AZ	122+	SULLIVAN BUTTES, LATITE	U					C	E	SLVB 03
AZ	123	SULLIVAN BUTTES, LATITE	U							SLVB 04
TX	319	SULLIVAN PEAK, MBR (SKINNER RANCH FM)	U	CGL		76	WC	D	SVPK	03
SD	211	SULLY, MBR (PIERRE SH)				100	C	C	SLLY	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT 211	SULPHUR CANYON,SS BED (NESLEN FM)	U			8	EC	A	SLPC 01
UT 211	SULPHUR CANYON,SS BED (PRICE RIVER FM)							SLPC 02
UT 211	SULPHUR CANYON,SS MBR (NESLEN FM)	U						SLPC 03
MT 211	SULPHUR FLATS,SS MBR (MINER CREEK FM)	U			49	SC	D	SLPF 01
UT 123	SULPHUR PEAK,MBR (BULLION CANYON VOLCS)		AND		300	SW	E	SPPK 05
TX 112	SULPHUR RIVER,FM		ALV			NE	D	SPRV 01
IL 339	SULPHUR SPRINGS,FM	U						SPSP 03
MO 339+	SULPHUR SPRINGS,FM	U	SS,SH		9	EC	A	SPSP 05
MO 341	SULPHUR SPRINGS,FM	U						SPSP 07
MO 339+	SULPHUR SPRINGS,GP	U						SPSP 06
MO 341	SULPHUR SPRINGS,GP	U						SPSP 08
CA 107	SULPHUR SPRINGS MOUNTAIN,ANDESITE	U				NW	C	SPSM 01
KY 364	SULPHUR WELL,MBR (LEXINGTON LS)	U			10	C	C	SLPW 01
CA 341+	SULTAN,LS	U						SLTN 01
NV 341+	SULTAN,LS	U			230	SE	A	SLTN 02
CA 344	SULTAN,LS	U						SLTN 03
NV 344	SULTAN,LS	U						SLTN 04
WA 112	/SUMAS,DRIFT	U			46	NW	D	SUMS 02
WA 211	/SUMAS,SHALES (CHUCKANUT FM)			RD		NW	C	SUMS 03
WA 211	[SUMAS,SH MBR (CHUCKANUT FM)]							SUMS 04
WA 270+	SUMAS MOUNTAIN,SERPENTINITE					NC	D	SMSM 03
WA 220	SUMAS MOUNTAIN,SERPENTINITE							SMSM 05
OH 321	SUMMERFIELD,LS BED (CONEMAUGH FM)					EC	A	SMFD 04
PA 321	SUMMERHILL,SS MBR (CONEMAUGH FM)	U			18	SW	A	SMRL 02
ID 367	SUMMERHOUSE,FM	U	SS		310	SC	E	SMRS 12
AZ 224	SUMMERVILLE,FM (SAN RAFAEL GP)	U						SMVL 02
CO 224	SUMMERVILLE,FM (SAN RAFAEL GP)	U						SMVL 03
NM 224	SUMMERVILLE,FM (SAN RAFAEL GP)	U						SMVL 04
UT 224	SUMMERVILLE,FM (SAN RAFAEL GP)	U	SS		50	SE	A	SMVL 05
WA 121+	SUMMIT,CGL				61	C	C	SMMT 01
WA 122	SUMMIT,CGL							SMMT 02
CA 200	SUMMIT,GABBRO					SC	C	SMMT 03
ID 301	SUMMIT CREEK,BRECCIA		QTZ		240	SC	E	SMCK 11
NV 122	SUMMIT LAKE,TUFF	U			30	NW	E	SMLK 04
NV 317	SUMMIT SPRINGS,EVAPORITE MBR (PEQUOP FM)				300	EC	C	SSPG 12
CO 123	SUMMITVILLE,ANDESITE	U			910	SC	A	SMVL 01
IL 325	SUMMUM,COAL MBR (CARBONDALE FM)				<1	WC	C	SMMM 01
KS 317	SUMNER,GP	U	SH		240	SC	A	SMNR 01
ID 112	SUNBEAM,FM	U	ST		30	SE	D	SNBM 01
MT 217	SUNBURST,SS MBR (KOOTENAI FM)				8	NC	A	SBR5 02

OH	337	SUNBURY,MBR (ORANGEVILLE SH)	U		BK		5	C	A	SNBR	09
PA	337	SUNBURY,MBR (ORANGEVILLE SH)	U							SNBR	11
KY	337	SUNBURY,SH	U							SNBR	07
MI	337	SUNBURY,SH	U							SNBR	08
OH	337	SUNBURY,SH	U							SNBR	10
IN	339	SUNBURY,SH	U							SNBR	14
OR	112	[SUN CREEK,DACITE]						SW	C	SCRK	24
OR	112	/SUN CREEK,DACITE FLOW								SCRK	03
CO	221+	SUNDANCE,FM	U							SNDC	03
MT	221+	SUNDANCE,FM	U							SNDC	05
NE	221+	SUNDANCE,FM	U							SNDC	07
SD	221+	SUNDANCE,FM	U	SH	GN		120	WC	A	SNDC	09
WY	221+	SUNDANCE,FM	U							SNDC	11
CO	224	SUNDANCE,FM	U							SNDC	24
MT	224	SUNDANCE,FM	U							SNDC	20
NE	224	SUNDANCE,FM	U							SNDC	15
SD	224	SUNDANCE,FM	U							SNDC	16
WY	224	SUNDANCE,FM	U							SNDC	22
MT	221+	SUNDANCE,GP								SNDC	06
WY	221+	SUNDANCE,GP								SNDC	12
MT	224	SUNDANCE,GP								SNDC	21
WY	224	SUNDANCE,GP								SNDC	23
MI	430	SUNDAY,QTZ (CHOCOLAY GP)	U				46	NW	A	SNDY	01
WI	430	SUNDAY,QTZ (CHOCOLAY GP)	U							SNDY	02
CA	340+	SUNDAY CANYON,FM	U	STS,SH			210	C	D	SNDC	13
CA	350	SUNDAY CANYON,FM	U							SNDC	14
NH	364	[SUNDAY MOUNTAIN,MBR (ORFORDVILLE FM)]					120	WC	C	SNDM	08
VT	364	SUNDAY MOUNTAIN,MBR (ORFORDVILLE FM)								SNDM	07
NH	364	/SUNDAY MOUNTAIN,VOLC MBR (ORFORDVILLE FM)	U							SNDM	02
VT	364	/SUNDAY MOUNTAIN,VOLC MBR (ORFORDVILLE FM)	U							SNDM	04
NH	364	SUNDAY MOUNTAIN,VOLCS								SNDM	03
VT	364	SUNDAY MOUNTAIN,VOLCS								SNDM	05
PA	341	SUNFISH,FM (CONNEAUT GP)		SS,SH	RD,GN		460	NE	D	SNFS	01
NV	310+	SUNFLOWER,FM		CGL			1400	NE	D	SFLR	01
NV	320	SUNFLOWER,FM								SFLR	02
MT	124	SUNLIGHT,GP (ABSAROKA SUPERGROUP)	U							SNLG	02
WY	124	SUNLIGHT,GP (ABSAROKA SUPERGROUP)	U	VOL			2400	NW	E	SNLG	03
FL	217	SUNNILAND,LS	U				84	SE	C	SNLD	04
FL	217	SUNNILAND,LS (OCEAN REEF GP)								SNLD	02
CA	224	SUNNYBROOK,VOLCS	U				460	C	C	SBRK	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT 211	SUNNYSIDE,MBR (BLACKHAWK FM)		SS		23	EC C		SNSD 02
NV 227	SUNRISE,FM	U	SH		370	C A		SNRS 04
MT 331	SUN RIVER,MBR (CASTLE REEF DOL)				130	NC C		SRVR 03
AZ 111	SUNSET,ASH					NC D		SNST 01
OH 361	SUNSET,MBR (ARNHEIM FM)							SNST 05
KY 361	SUNSET,MBR (BULL FORK FM)	U	LS		5	NE A		SNST 04
AZ 112+	SUNSET BUTTES,BASALT					NC D		SSBS 01
AZ 121	SUNSET BUTTES,BASALT							SSBS 03
AZ 111	SUNSET CRATER,BASALT					NC D		SCRR 01
WI 371	SUNSET POINT,FM					SC C		SNSP 01
MN 371	SUNSET POINT,MBR (JORDAN SS)							SNSP 03
WI 371	SUNSET POINT,MBR (JORDAN SS)							SNSP 02
AZ 230	SUNSHINE,FM		VOL		210	SC D		SNSN 03
CO 122	SUNSHINE PEAK,TUFF	U				SW A		SSPK 01
CA 121	SUNSHINE RANCH,MBR (PICO FM)		SS		910	SC C		SSRC 01
CA 121	SUNSHINE RANCH,MBR (SAUGUS FM)	U						SSRC 02
AK 122	SUNTRANA,FM	U	SS		390	EC E		SNRN 01
CA 317+	SUPAI,FM							SUPI 02
NM 317+	SUPAI,FM	U						SUPI 03
NV 317+	SUPAI,FM	U						SUPI 04
UT 317+	SUPAI,FM	U						SUPI 05
CA 320	SUPAI,FM							SUPI 07
NM 320	SUPAI,FM	U						SUPI 08
NV 320	SUPAI,FM	U						SUPI 09
UT 320	SUPAI,FM	U						SUPI 10
AZ 317+	SUPAI,GP	U	SS,SH		430	NC A		SUPI 11
AZ 321	SUPAI,GP	U						SUPI 12
AZ 324	SUPAI,GP	U						SUPI 13
AZ 327	SUPAI,GP	U						SUPI 14
AZ 122	SUPERIOR,DACITE					SE D		SPRR 02
MN 112	SUPERIOR,DRIFT			RD		C D		SPRR 05
MN 112	SUPERIOR,TILL							SPRR 01
AZ 122	SUPERSTITION,TUFF	U		RD	1000	C E		SPRS 04
OR 227	SUPLEE,FM (MOWICH GP)		LS		46	C C		SUPL 01
CA 207+	[SUR,FM]		SCH		3000	WC A		SUR 04
CA 224	[SUR,FM]							SUR 05
CA 300	[SUR,FM]							SUR 06
CA 207+	/SUR,SER							SUR 01
CA 224	/SUR,SER							SUR 02
CA 300	/SUR,SER							SUR 03





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
NV 374	SWASEY,LS						SWSY 01
UT 374	SWASEY,LS	U			120	WC C	SWSY 02
ID 420	SWAUGER,FM	U	QTZ	PR,WH	3000	C C	SWGR 01
WA 124+	SWAUK,FM	U	SS		2400	C A	SWUK 01
WA 125	SWAUK,FM	U					SWUK 02
WA 211	SWAUK,FM	U					SWUK 03
CA 231	SWEARINGER,SLATE	U			61	NC A	SRGR 01
SD 430	SWEDE GULCH,FM	U	GYK			WC E	SDGC 01
NY 400	SWEDE POND,QTZ				120	NE A	SDPD 01
IL 357	SWEENEY,FM				17	NW E	SWNY 01
NH 340	SWEEPSTAKE,NORITE (HILLSBORO GP)					SE E	SPSK 01
NH 340	SWEEPSTAKE,QUARTZ DIORITE (HILLSBORO GP)						SPSK 02
CT 307	SWEETHEART MOUNTAIN,MBR (COLLINSVILLE FM)		SCH			NC D	SRMN 04
IA 341	SWEETLAND CREEK,SH	U			15	EC A	SDCK 23
IL 341	SWEETLAND CREEK,SH	U					SDCK 22
IL 341	SWEETLAND CREEK,SH (NEW ALBANY GP)						SDCK 24
VT 371+	SWEETSBURG,FM		SL			CAN A	SBRG 03
VT 374	SWEETSBURG,FM						SBRG 04
CA 124	SWEETWATER,FM		SS		>35	SE E	STTR 06
WY 123	[SWEETWATER,FM (WHITE RIVER GP)]		SH		430	C A	STTR 04
WY 123	/SWEETWATER,MBR (WHITE RIVER GP)						STTR 10
ID 122	[SWEETWATER CREEK,BED (COLUMBIA RIVER BASALT)]		CST			WC D	SRCK 15
ID 122	/SWEETWATER CREEK,INTERBED (COLUMBIA RIVER BASALT)		CST				SRCK 18
CA 112	SWEITZER,FM		CGL		3	SE C	STZR 01
NV 123	SWETT,IGNIMBRITE MBR (CONDOR CANYON FM)						SWTT 03
NV 123	SWETT,TUFF MBR (CONDOR CANYON FM)	U					SWTT 01
UT 123	SWETT,TUFF MBR (CONDOR CANYON FM)	U			14	SW C	SWTT 02
UT 123	SWETT,TUFF MBR (QUICHAPA FM)						SWTT 04
MT 221+	SWIFT,FM (ELLIS GP)	U			41	NW C	SWFT 01
ND 221+	SWIFT,FM (ELLIS GP)						SWFT 08
WY 221+	SWIFT,FM (ELLIS GP)						SWFT 06
MT 224	SWIFT,FM (ELLIS GP)	U					SWFT 10
ND 224	SWIFT,FM (ELLIS GP)						SWFT 09
WY 224	SWIFT,FM (ELLIS GP)						SWFT 13
MT 221+	SWIFT,FM (SUNDANCE GP)						SWFT 02
WY 221+	SWIFT,FM (SUNDANCE GP)						SWFT 07
MT 224	SWIFT,FM (SUNDANCE GP)						SWFT 11
WY 224	SWIFT,FM (SUNDANCE GP)						SWFT 14
MT 221+	SWIFT,SS (ELLIS GP)						SWFT 03
MT 224	SWIFT,SS (ELLIS GP)						SWFT 12

WV	420	SWIFT RUN,FM		U						SFRN	05	
MD	420	SWIFT RUN,FM		U						SFRN	01	
VA	420	SWIFT RUN,FM		U	TF,ARK	120		C	C	SFRN	03	
AZ	341	SWISSHELM,FM			SS,STS	180		SE	C	SSLM	01	
CO	324	SWISSVALE,GYPSUM MBR (MINTURN FM)				30		C	C	SSVL	02	
MT	371+	SWITCHBACK,LS				30		NW	A	SCBK	01	
MT	374	SWITCHBACK,LS								SCBK	03	
MT	371+	SWITCHBACK,SH		U						SCBK	02	
MT	374	SWITCHBACK,SH		U						SCBK	04	
AZ	121	SWITZERS MESA,BASALT							NC	D	SZRM	01
IA	323	SWOPE,LS (KANSAS CITY GP)		U						SWOP	01	
KS	323	SWOPE,LS (KANSAS CITY GP)		U						SWOP	02	
MO	323	SWOPE,LS (KANSAS CITY GP)		U			7	WC	A	SWOP	03	
NE	323	SWOPE,LS (KANSAS CITY GP)		U						SWOP	04	
WY	317	SYBILLE,MBR (GOOSE EGG FM)			SS		6	SC	A	SBLL	01	
CA	121	SYCAMORE,CGL					180	SC	C	SCMR	01	
OK	337	/SYCAMORE,LS		U			49	SC	A	SCMR	05	
TX	218	SYCAMORE,SAND					15	C	A	SCMR	04	
TX	218	SYCAMORE,SAND MBR (TRAVIS PEAK FM)								SCMR	03	
CA	122	SYCAMORE CANYON,FM			CGL,SD	1200		SC	C	SCMC	01	
CA	122	SYCAMORE CANYON,MBR (PUENTE FM)		U						SCMC	02	
WY	217	SYKES MOUNTAIN,FM			STS,SS		41	NC	C	SKSM	01	
AL	367	SYLACAUGA,MARBLE MBR (TALLADEGA SLATE)		U			150	C	A	SLCG	01	
MO	341	SYLAMORE,FM (CHAMP CLARK GP)								SLMR	05	
IL	341	SYLAMORE,SS (NEW ALBANY GP)								SLMR	03	
AR	341	SYLAMORE,SS MBR (CHATTANOOGA SH)		U			12	NC	A	SLMR	02	
MO	341	SYLAMORE,SS MBR (CHATTANOOGA SH)		U						SLMR	06	
OK	341	SYLAMORE,SS MBR (CHATTANOOGA SH)		U						SLMR	07	
KS	361	SYLVAN,SH		U						SLVN	16	
OK	361	SYLVAN,SH		U		GN	15	SE	A	SLVN	17	
OK	361	SYLVAN,SH (PATTERSON RANCH GP)								SLVN	18	
NV	220	SYLVANIA,ADAMELLITE							C	D	SLVN	01
MI	344	SYLVANIA,FM		U						SLVN	03	
MI	344	SYLVANIA,SS		U						SLVN	04	
OH	344	SYLVANIA,SS		U			6	NW	A	SLVN	09	
MI	344	SYLVANIA,SS (DETROIT RIVER GP)								SLVN	05	
OH	344	SYLVANIA,SS (DETROIT RIVER GP)								SLVN	10	
MI	344	SYLVANIA,SS MBR (AMHERSTBURG FM)		U						SLVN	06	
NY	351	SYRACUSE,FM (SALINA GP)					91	C	A	SRCS	03	
NY	351	SYRACUSE,SALT (SALINA GP)		U						SRCS	04	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY 351	SYRACUSE,SALT MBR (SALINA FM)							SRCS 06
NM 321	SYRENA,FM (MAGDALENA GP)	U	SH		120	SW	A	SYRN 01
UT 124	TABBYUNE CREEK,TONGUE (COLTON FM)		SS		94	C	E	TBCK 01
UT 112	[TABERNACLE,BASALT]				91	WC	C	TBCL 02
UT 112	/TABERNACLE,FLOW	U						TBCL 01
NV 123	TABLE BUTTE,TUFF MBR (LEACH CANYON FM)	U						TBLB 01
UT 123	TABLE BUTTE,TUFF MBR (LEACH CANYON FM)	U			200	SW	D	TBLB 02
NV 122	TABLE MOUNTAIN,ANDESITE							TBLM 16
CA 101	/TABLE MOUNTAIN,FM				30	SE	A	TBLM 06
CA 101	/TABLE MOUNTAIN,GRAVEL							TBLM 07
CA 122	TABLE MOUNTAIN,LATITE (STANISLAUS GP)	U			61	C	D	TBLM 11
NV 122	TABLE MOUNTAIN,LATITE (STANISLAUS GP)	U						TBLM 17
CA 122	TABLE MOUNTAIN,LATITE MBR (STANISLAUS FM)							TBLM 12
CO 125	TABLE MOUNTAIN,SHOSHONITE	U			270	NC	C	TBLM 14
TX 124	TABOR,MBR (CROCKETT FM)		SD		14	EC	C	TBOR 01
AK 101	TACHILNI,FM	U	SED		61	SC	D	TCLN 01
NY 364	TACKAWASICK,LS					EC	A	TCKK 02
KS 323	TACKET,FM (PLEASANTON GP)		SH		18	SE	D	TCKT 01
NM 123	TADPOLE RIDGE,QUARTZ LATITE				600	SW	E	TPRG 05
CA 221	TAFT,GRANITE	U				C	A	TAFT 01
OK 325	TAFT,SS MBR (BOGGY SH)	U			15	EC	A	TAFT 02
MT 217	TAFT HILL,MBR (BLACKLEAF FM)	U	STS		73	NC	C	TFHL 01
WV 331	TAGGARD,FM (GREENBRIER GP)		LS,SH	WH	5	SC	A	TGRD 10
KY 331	[TAGGARD,MBR (GREENBRIER LS)]							TGRD 01
VA 331	TAGGARD,MBR (GREENBRIER LS)							TGRD 04
WV 331	TAGGARD,MBR (GREENBRIER LS)							TGRD 07
KY 331	/TAGGARD,RED MBR (GREENBRIER LS)							TGRD 02
VA 331	/TAGGARD,RED MBR (GREENBRIER LS)	U						TGRD 05
WV 331	/TAGGARD,RED MBR (GREENBRIER LS)	U						TGRD 08
VA 331	TAGGARD,SH MBR (GREENBRIER LS)							TGRD 06
CA 121	TAHANA,MBR (PURISIMA FM)		MS		650	WC	C	TAHN 01
AK 317	TAHKANDIT,LS	U			160	NE	A	TKND 01
OK 331	TAHLEQUAH,MBR (MOOREFIELD FM)		LS		9	NE	C	THLQ 01
CA 112	TAHOE,DRIFT	U				NC	A	THOE 01
NV 112	TAHOE,DRIFT							THOE 03
CA 112	TAHOE,TILL							THOE 02
NV 112	TAHOE,TILL	U						THOE 04
NM 112	TAHOKA,CLAY							THOK 01
TX 112	TAHOKA,CLAY				11	NC	C	THOK 02
TX 112	TAHOKA,FM							THOK 03

WA	112	TAHOLAH,FM		SD		460	WC	C	THLH	01
CT	307	TAINÉ MOUNTAIN,FM		SCH			NW	D	TNMM	02
AK	344	TAKOTNA,FM		LS			C	A	TKTN	01
UT	410	TALAWAG,MBR (MUTUAL FM)	U	QTZ		220	WC	C	TLWG	01
FL	112	TALBOT,FM	U						TLBT	02
GA	112	TALBOT,FM	U						TLBT	03
MD	112	TALBOT,FM (COLUMBIA GP)	U	SED		15	EC	A	TLBT	04
VA	112	TALBOT,FM (COLUMBIA GP)	U						TLBT	07
CT	231	TALCOTT,BASALT (NEWARK GP)	U				C	A	TLCT	01
CT	231	TALCOTT,FM (NEWARK GP)	U						TLCT	05
CT	231	TALCOTT,LAVA MBR (MERIDEN FM)	U						TLCT	02
WV	331	TALCOTT,SH MBR (BLUEFIELD FM)	U			8	SC	A	TLCT	04
CA	221	[TALIAFERRO,COMPLEX]					NW	E	TLFR	02
CA	221	/TALIAFERRO,METAMORPHIC COMPLEX							TLFR	01
UT	327	TALISMAN,QTZ	U			120	SW	A	TLSM	01
AK	227	TALKEETNA,FM	U	VOL		910	C	A	TLKN	01
AL	301+	TALLADEGA,FM	U			9000	C	A	TLDG	17
AL	304	TALLADEGA,FM	U						TLDG	01
GA	304	TALLADEGA,FM	U						TLDG	03
NC	304	TALLADEGA,FM	U						TLDG	05
TN	304	TALLADEGA,FM	U						TLDG	07
AL	301+	TALLADEGA,GP	U						TLDG	25
AL	304	TALLADEGA,GP	U						TLDG	09
AL	301+	TALLADEGA,SLATE	U						TLDG	18
AL	304	TALLADEGA,SLATE	U						TLDG	02
GA	304	TALLADEGA,SLATE	U						TLDG	04
NC	304	TALLADEGA,SLATE	U						TLDG	06
TN	304	TALLADEGA,SLATE	U						TLDG	08
FL	124	TALLAHASSEE,LS	U			200	NC	C	TLLS	01
FL	124	TALLAHASSEE,LS (CLAIBORNE GP)	U						TLLS	02
CO	123	TALLAHASSEE CREEK,CGL	U			110	C	E	TLCK	12
AL	124	TALLAHATTA,FM (CLAIBORNE GP)	U	LS		37	WC	A	TLLT	01
FL	124	TALLAHATTA,FM (CLAIBORNE GP)	U						TLLT	05
GA	124	TALLAHATTA,FM (CLAIBORNE GP)	U						TLLT	02
MS	124	TALLAHATTA,FM (CLAIBORNE GP)	U						TLLT	03
MS	124	TALLAHATTA,STS (CLAIBORNE GP)	U						TLLT	04
OK	323	TALLANT,FM (OCHELATA GP)	U	SS		61	NE	C	TLNT	01
AL	304	TALLASSEE,METAQUARTZITE (JACKSONS GAP GP)	U				EC	E	TLLS	07
OK	323	TALL CHIEF,MBR (WANN FM)	U	SH		61	NE	E	TLCF	01
VA	331	/TALLERY,LS MBR (HINTON FM)	U						TLLR	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WV 331	/TALLERY,LS MBR (HINTON FM)				<1	SC	A	TLLR 04
VA 331	[TALLERY,MBR (HINTON FM)]							TLLR 08
WV 331	[TALLERY,MBR (HINTON FM)]							TLLR 09
VA 331	TALLERY,SH MBR (HINTON FM)							TLLR 02
WV 331	TALLERY,SH MBR (HINTON FM)				7	SC	A	TLLR 05
VA 331	/TALLERY,SS MBR (HINTON FM)	U						TLLR 03
WV 331	/TALLERY,SS MBR (HINTON FM)	U			8	SC	A	TLRR 06
NV 237	TALLMAN,FANGLOMERATE	U			1500	NC	C	TLMN 05
GA 377+	TALLULAH FALLS,FM					NC	A	TLLF 03
GA 400	TALLULAH FALLS,FM							TLLF 04
GA 377+	TALLULAH FALLS,QTZ							TLLF 01
GA 400	TALLULAH FALLS,QTZ							TLLF 02
TX 318	TALPA,FM (CLYDE GP)				120	C	A	TALP 01
TX 318	TALPA,LS MBR (CLYDE FM)	U						TALP 02
OK 325	TAMAHA,SS MBR (MCALESTER FM)	U			6	EC	A	TAMH 01
CA 210+	TAMARACK,ADAMELLITE					C	D	TMCK 01
CA 220	TAMARACK,ADAMELLITE							TMCK 03
CA 371	TAMARACK CANYON,DOL	U			280	C	D	TMCK 01
NM 312	TAMARISK,MBR (RUSTLER FM)	U	ANH		35	SE	D	TMRK 02
FL 121	TAMIAMI,FM	U	LS		5	SE	C	TMIM 01
NJ 354	TAMMANY,MBR (SHAWANGUNK FM)	U	SS		460	NW	E	TMMN 01
PA 354	TAMMANY,MBR (SHAWANGUNK FM)	U						TMMN 02
FL 122	TAMPA,FM			WH	9	C	A	TAMP 01
GA 122	TAMPA,FM							TAMP 03
FL 122	TAMPA,LS	U						TAMP 02
GA 122	TAMPA,LS	U						TAMP 04
SC 122	TAMPA,LS	U						TAMP 05
MT 224	TAMPICO,SH MBR (PIPER FM)				26	NE	C	TMPC 04
ND 224	TAMPICO,SH MBR (PIPER FM)							TMPC 05
NH 341	TAMWORTH,GRANITE (NEW HAMPSHIRE GP)					C	C	TMRT 01
AK 112	TANANA,FM	U	SED		1	EC	E	TANN 01
WA 122	TANEUM,ANDESITE	U			91	C	A	TNUM 01
KY 361+	TANGLEWOOD,MBR (LEXINGTON LS)	U			18	C	D	TGLD 01
KY 364	TANGLEWOOD,MBR (LEXINGTON LS)	U						TGLD 02
NV 367	TANK HILL,LS	U			140	EC	A	TKHL 01
NV 367	TANK HILL,LS (POGONIP GP)	U						TKHL 02
AZ 420	TANNER,MBR (GALEROS FM)		SH		200	NC	E	TNNR 01
NM 313	TANSILL,ANHYDRITE (ARTESIA GP)	U			38	SE	C	TNSL 01
TX 313	TANSILL,ANHYDRITE (ARTESIA GP)	U						TNSL 04
NM 313	TANSILL,FM (ARTESIA GP)	U						TNSL 02

TX	313	TANSILL,FM (ARTESIA GP)	U							TNSL	05
TX	313	TANSILL,FM (CARLSBAD GP)								TNSL	07
TX	313	TANSILL,FM (WHITEHORSE GP)	U							TNSL	06
HI	111+	TANTALUS,BASALT (HONOLULU GP)	U			90	NC	A		TNLS	01
HI	112	TANTALUS,BASALT (HONOLULU GP)	U							TNLS	02
TX	367	TANYARD,FM (ELLENBURGER GP)	U	LS		-170	C	C		TNRD	05
AL	331	TANYARD BRANCH,MBR (PRIDE MOUNTAIN FM)	U	SS		11	NW	C		TDBC	01
MS	331	TANYARD BRANCH,MBR (PRIDE MOUNTAIN FM)	U							TDBC	02
CA	374+	TAPEATS,SS	U							TPTS	02
NV	374+	TAPEATS,SS	U							TPTS	03
UT	374+	TAPEATS,SS	U							TPTS	04
CA	377	TAPEATS,SS	U							TPTS	06
NV	377	TAPEATS,SS	U							TPTS	07
UT	377	TAPEATS,SS	U							TPTS	08
AZ	374+	TAPEATS,SS (TONTO GP)	U			87	NC	A		TPTS	01
AZ	377	TAPEATS,SS (TONTO GP)	U							TPTS	05
WY	211	TAPERS RANCH,SS MBR (HAYSTACK MOUNTAINS FM)	U			83	SC	E		TPRC	01
NM	124	TAPICITOS,MBR (SAN JOSE FM)		SH,SS	VAR	150	NW	D		TPCS	01
AZ	112	TAPPAN,BASALT						NC	C	TPPN	01
TX	218	TARANTULA,FM		SED		210	WC	C		TRNL	02
TX	120	/TARANTULA,GRAVEL				120	WC	C		TRNL	01
OK	328	TARGET,LS MBR (SPRINGER FM)				2	SE	C		TRGT	01
IA	322	TARKIO,LS (WABAUNSEE GP)								TRKO	08
NE	322	TARKIO,LS (WABAUNSEE GP)								TRKO	04
IA	322	TARKIO,MBR (ZEANDALE LS)	U							TRKO	01
KS	322	TARKIO,MBR (ZEANDALE LS)	U			3	EC	A		TRKO	02
MO	322	TARKIO,MBR (ZEANDALE LS)	U							TRKO	03
ME	347	TARRATINE,FM (MOOSE RIVER GP)	U	SS		3000	WC	D		TRTN	02
IN	332	TAR SPRINGS,FM	U							TSPG	06
KY	332	TAR SPRINGS,FM	U			21	C	A		TSPG	08
MO	332	TAR SPRINGS,FM	U							TSPG	11
IL	332	TAR SPRINGS,SS	U							TSPG	04
IN	332	TAR SPRINGS,SS	U							TSPG	07
KY	332	TAR SPRINGS,SS	U							TSPG	09
MO	332	TAR SPRINGS,SS	U							TSPG	12
KY	332	TAR SPRINGS,SS MBR (LEITCHFIELD FM)	U							TSPG	16
IL	326	TARTER,COAL MBR (ABBOTT FM)				1	WC	C		TRTR	01
TX	123	TASCOTAL,FM (BUCK HILL GP)		TF		240	WC	C		TSCL	02
AZ	230	TASCUELA,RED BEDS	U			610	SC	D		TSCL	03
CA	112+	TASSAJARA,FM	U	SS,SH		1200	WC	A		TSJR	01

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	121	TASSAJARA,FM	U						TSJR 02
AZ	120	[TASSIA WASH,FM]		LS,SS		110	NW	C	TSWS 01
AZ	120	/TASSIA WASH,GP							TSWS 04
OH	361	TATE,FM		SH		9	SW	A	TATE 02
KY	361	TATE,MBR (ASHLOCK FM)	U						TATE 01
OH	361	TATE,MBR (MCMILLAN FM)							TATE 03
AK	360	ETATINA,FM]		LS		1500	C	A	TTIN 03
AK	360	/TATINA,GP	U						TTIN 02
MT	124	TATMAN,FM	U						TTMN 01
WY	124	TATMAN,FM	U						TTMN 02
ME	227	TATNIC,COMPLEX (WHITE MOUNTAIN GP)	U	SS,SH GAB		260	NC SW	A D	TTNC 01
CT	364+	TATNIC HILL,FM (PUTNAM GP)	U	GN		1700	EC	D	TCHL 01
CT	367	TATNIC HILL,FM (PUTNAM GP)	U						TCHL 02
CT	370	TATNIC HILL,FM (PUTNAM GP)	U						TCHL 03
UT	374	TATOW,FM	U			50	WC	C	TTOW 03
UT	374	TATOW,LS							TTOW 01
UT	374	TATOW,MBR (PIOCHE FM)							TTOW 02
AL	122+	TATUM,LS MBR (CATAHOULA SS)	U						TTUM 01
FL	122+	TATUM,LS MBR (CATAHOULA SS)	U						TTUM 02
LA	122+	TATUM,LS MBR (CATAHOULA SS)	U						TTUM 04
MS	122+	TATUM,LS MBR (CATAHOULA SS)	U			50	SC	D	TTUM 05
AL	123	TATUM,LS MBR (CATAHOULA SS)	U						TTUM 06
FL	123	TATUM,LS MBR (CATAHOULA SS)	U						TTUM 07
LA	123	TATUM,LS MBR (CATAHOULA SS)	U						TTUM 09
MS	123	TATUM,LS MBR (CATAHOULA SS)	U						TTUM 10
NY	344	TAUGHANNOCK FALLS,BED (TULLY LS)				2	C	E	TGKF 01
MO	371	TAUM SAUK,LS MBR (BONNETERRE DOL)				9	SE	C	TMSK 02
CA	330	TAYLOR,FM		MVOL	GN	300	NC	A	TYLR 26
AR	212	TAYLOR,GP							TYLR 20
TX	212	TAYLOR,GP				370	EC	A	TYLR 04
LA	212	TAYLOR,MARL	U						TYLR 03
TX	212	TAYLOR,MARL	U						TYLR 05
CA	330	/TAYLOR,META-ANDESITE	U						TYLR 14
PA	317	TAYLOR,SS [MBR] (GREENE FM)				50	SW	A	TYLR 07
WV	317	TAYLOR,SS [MBR] (GREENE FM)							TYLR 08
IA	322	TAYLOR BRANCH,LS							TLBC 01
KS	322	TAYLOR BRANCH,MBR (BURLINGAME LS)							TLBC 04
NE	322	TAYLOR BRANCH,MBR (BURLINGAME LS)				1	SE	A	TLBC 06
ME	370	TAYLOR BROOK,FM		GN		1100	SE	C	TLBK 01
NV	354	TAYLOR CANYON,FM		STS		350	NE	D	TLRC 02

NM	123	TAYLOR CREEK,RHYOLITE					SW	E	TLCK	04
TX	319	TAYLOR RANCH,MBR (HESS FM)	U	LS		12	WC	D	TLRC	01
CO	324	TAYLOR RIVER,LS MBR (GOTHIC FM)				64	WC	E	TLRV	02
CA	350	TAYLORSVILLE,FM	U	SL		550	NC	A	TLVL	01
PA	367	TEA CREEK,DOL (BELLEFONTE GP)				61	C	D	TCRK	18
PA	367	TEA CREEK,MBR (BELLEFONTE DOL)							TCRK	19
AZ	125	TEA CUP,GRANODIORITE	U				SE	E	TCUP	01
WA	124	TEANAWAY,BASALT	U		BK	1500	C	A	TNWY	02
WY	211	TEAPOT,MBR (PARKMAN SS)				15	EC	C	TPOT	01
WY	211	TEAPOT,SS MBR (MESAVERDE FM)	U						TPOT	01
AZ	125	TEAPOT MOUNTAIN,PORPHYRY	U				SE	A	TPMN	02
MO	325	TEBO,FM (CABANISS GP)		SH		3	WC	C	TEBO	02
KS	325	TEBO,FM (CHEROKEE GP)							TEBO	01
MO	325	TEBO,FM (CHEROKEE GP)							TEBO	03
WY	211	TECKLA,SAND MBR (LEWIS SH)				34	EC	E	TCKL	01
CA	112	TECOLOTE,MBR (SANTA ROSA ISLAND FM)		CL		18	SC	C	TCLT	01
CA	374+	TECOPA,SH				340	EC	C	TCOP	01
NV	374+	TECOPA,SH							TCOP	02
CA	377	TECOPA,SH							TCOP	03
NV	377	TECOPA,SH							TCOP	04
TX	231	TECOVAS,FM (DOCKUM GP)	U	SH		67	NC	A	TCVS	01
UT	231	TECUMSEH,BED (SILVER REEF SS MBR OF CHINLE FM)				12	SW	C	TCMS	01
IA	322	TECUMSEH,SH (SHAWNEE GP)	U						TCMS	02
KS	322	TECUMSEH,SH (SHAWNEE GP)	U			23	NE	A	TCMS	03
MO	322	TECUMSEH,SH (SHAWNEE GP)	U						TCMS	04
NE	322	TECUMSEH,SH (SHAWNEE GP)	U						TCMS	05
CA	122+	TECUYA,FM	U	SS		700	SC	A	TCUY	01
CA	123	TECUYA,FM	U						TCUY	02
CA	124	TECUYA,FM	U						TCUY	03
WY	121	TEEWINOT,FM	U	LS	WH	1400	NW	C	TWNT	01
CA	112+	TEHACHAPI,FM		ALV		76	SC	A	THCP	01
CA	121	TEHACHAPI,FM							THCP	03
CA	121	TEHAMA,FM	U	CL		610	NW	A	TEHM	01
TX	125	TEHUACANA,LS MBR (KINCAID FM)	U			15	EC	A	THCN	01
CA	124	TEJON,FM	U	SS		1300	SC	A	TJON	01
CA	124	TEJON,GP							TJON	02
CA	210+	TEJON LOOKOUT,GRANITE					SC	C	TJLK	02
CA	221	TEJON LOOKOUT,GRANITE							TJLK	01
AK	221	TELAVIRAK,FM	U	SS		1500	NC	D	TLVK	03
NV	344	TELEGRAPH CANYON,FM (NEVADA GP)		DOL		610	NC	C	TGPC	03



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.	
NV 344	TELEGRAPH CANYON, MBR (NEVADA FM)							TGPC 02	
WY 211	TELEGRAPH CREEK, FM							TPCK 10	
MT 211	TELEGRAPH CREEK, FM (MONTANA GP)	U			98	SC	A	TPCK 01	
MT 211	TELEGRAPH CREEK, MBR (CODY SH)	U						TPCK 02	
WY 211	TELEGRAPH CREEK, MBR (CODY SH)							TPCK 11	
MT 211	TELEGRAPH CREEK, MBR (COLORADO SH)	U						TPCK 03	
TX 218	TELEPHONE CANYON, FM (FREDERICKSBURG GP)		LS		23	SW	D	TLPC 02	
CA 410	TELESCOPE, GP		LS		460	EC	A	TLCP 01	
CA 211	TELEVISION, SS (PANOCHÉ GP)				30	C	C	TLVS 01	
GA 364	TELLICO, FM	U						TLLC 01	
TN 364	TELLICO, FM	U			1300	SE	A	TLLC 05	
GA 364	TELLICO, SS	U						TLLC 02	
TN 364	TELLICO, SS	U						TLLC 06	
CO 124	TELLURIDE, CGL	U			300	SW	A	TLRD 01	
CO 124	TELLURIDE, FM	U						TLRD 02	
CA 122+	TEMBLOR, FM	U			460	SC	A	TMBL 01	
CA 123	TEMBLOR, FM	U						TMBL 04	
CA 122+	TEMBLOR, SS	U						TMBL 03	
CA 123	TEMBLOR, SS	U						TMBL 06	
CA 112	TEMECULA, ARKOSE				180	SE	C	TMCL 01	
CA 112	TEMESCAL, FM	U	ALV		4	WC	A	TMCL 02	
CA 220	TEMESCAL WASH, DACITE PORPHYRY						SC	C	TMCW 01
CA 220	TEMESCAL WASH, QUARTZ LATITE PORPHYRY	U						TMCW 02	
NC 300+	TEMPE, SCHIST						NW	C	TEMP 01
NC 400	TEMPE, SCHIST								TEMP 02
AZ 341	TEMPLE BUTTE, LS	U			29	NC	A	TMPB 01	
UT 220	TEMPLE CAP, MBR (NAVAJO SS)	U			64	SW	C	TPCP 01	
WY 111	TEMPLE LAKE, TILL						NC	C	TPLK 02
WA 104+	TEMPLE MOUNTAIN, ANDESITE						C	C	TMPM 01
WA 124	TEMPLE MOUNTAIN, ANDESITE								TMPM 02
UT 231	TEMPLE MOUNTAIN, MBR (CHINLE FM)	U	STS		10	SE	C	TMPM 03	
NM 230	TEMPLES PEAK, FM		CGL		6	NE	C	TPPK 02	
OK 212	TEMPLETON, MBR (WOODBINE FM)								TMPL 16
TX 212	TEMPLETON, MBR (WOODBINE FM)	U	SH		24	NE	C	TMPL 02	
AZ 217	TEMPORAL, FM	U	VOL		600	SE	E	TMPL 03	
CA 112	TENAYA, TILL	U					C	D	TENY 01
CO 237	TENDERFOOT, MBR (MOENKOPI FM)	U							TDRF 01
UT 237	TENDERFOOT, MBR (MOENKOPI FM)	U	SS		88	SE	C	YDRF 02	
IL 112	TENERIFFE, SILT				3	WC	E	TNRF 02	
WA 124	TENINO, SS [MBR] (MCINTOSH FM)				76	C	D	TNNO 01	

OK	357	TENKILLER,FM		LS		6	NE	D	TKLR	01
CO	430	TENMILE,GRANITE	U				SW	A	TNML	05
ID	112	TENMILE,GRAVEL				150	SW	C	TNML	01
OR	124	/TENMILE,MBR (LOOKINGGLASS FM)		SS		970	SW	E	TNML	06
OH	344	TENMILE CREEK,DOL (TRAVERSE GP)				12	NW	C	TMCK	07
AR	331	TENMILE CREEK,FM (STANLEY GP)							TMCK	08
OK	331	TENMILE CREEK,FM (STANLEY GP)	U	SS		1700	SE	C	TMCK	06
AR	331	TENMILE CREEK,MBR (STANLEY SH)	U						TMCK	09
NV	360+	TENNESSEE MOUNTAIN,FM		LS		3700	NE	D	TNSM	01
NV	370	TENNESSEE MOUNTAIN,FM							TNSM	02
AZ	231	TENNEY CANYON,TONGUE (KAYENTA FM)	U						TNCN	01
UT	231	TENNEY CANYON,TONGUE (KAYENTA FM)	U	STS		37	SE	C	TNCN	02
CT	304+	TEN ROD,GRANITE GNEISS (STERLING GP)							TNRD	01
RI	304+	TEN ROD,GRANITE GNEISS (STERLING GP)	U				WC	C	TNRD	02
CT	330	TEN ROD,GRANITE GNEISS (STERLING GP)							TNRD	03
RI	330	TEN ROD,GRANITE GNEISS (STERLING GP)	U						TNRD	04
MT	320	TENSLEEP,FM							TSLP	02
WY	317+	TENSLEEP,SS	U			61	NC	A	TSLP	01
WY	321	TENSLEEP,SS	U						TSLP	03
WY	324	TENSLEEP,SS	U						TSLP	04
OK	317	TEPEE CREEK,FM		CST		14	C	C	TPCK	08
WY	124	TEPEE TRAIL,FM (THOROFARE CREEK GP)	U	VOL		610	NW	C	TPTL	01
CA	122	TEQUEPIS,SS				300	SC	A	TQPS	01
NM	331	TERERRO,FM (ARROYO PENASCO GP)	U	LS		36	NE	C	TRRR	01
TX	212	TERLINGUA,CLAY	U			300	SW	A	TRLG	02
TX	212	TERLINGUA,GP							TRLG	04
MN	420	TERRACE POINT,BASALT (NORTH SHORE GP)				49	NE	E	TRCP	01
KS	217	TERRA COTTA,CLAY MBR (DAKOTA FM)	U			52	C	C	TRCT	01
KS	217	TERRA COTTA,SH MBR (ELLSWORTH FM)							TRCT	02
LA	112	TERREBONNE,SH				320	SC	E	TRBN	01
KY	361	TERRILL,MBR (ASHLOCK FM)	U	MS		5	EC	D	TRRL	03
WV	331	TERRY,LS [BED] (HINTON FM)				<1	SW	A	TRRY	04
VA	331	TERRY,MBR (HINTON FM)							TRRY	03
WV	331	[TERRY,MBR (HINTON FM)]							TRRY	10
WV	331	/TERRY,SH MBR (HINTON FM)				15	SW	A	TRRY	05
CO	211	TERRY,SS MBR (PIERRE SH)	U			5	NC	A	TRRY	02
LA	221	TERRYVILLE,SS (COTTON VALLEY GP)				230	NW	D	TRVL	01
TX	221	TERRYVILLE,SS (COTTON VALLEY GP)							TRVL	02
CA	124+	TESLA,FM	U	SD		610	WC	C	TESL	01
CA	125	TESLA,FM	U						TESL	02

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX	320+	TESNUS,FM	U	SS		100	WC	A	TSNS 01
TX	330	TESNUS,FM	U						TSNS 02
TX	312	TESSEY,LS	U			430	WC	A	TSSY 01
NM	121+	TESUQUE,FM (SANTA FE GP)	U	SS		3000	C	C	TSUQ 01
NM	122	TESUQUE,FM (SANTA FE GP)	U						TSUQ 02
IL	357	TETE DES MORTS,FM							TDMR 02
IA	357	TETE DES MORTS,MBR (EDGEWOOD DOL)	U			7	EC	C	TDMR 01
AK	317+	TETELNA,VOLCS	U				EC	A	TTLN 01
AK	320	TETELNA,VOLCS	U						TTLN 02
UT	331	TETRO,LS			BL	110	NC	A	TTRO 01
UT	331	TETRO,MBR (DESERET LS)	U						TTRO 02
CA	211	TEUTONIA,QUARTZ MONZONITE	U				SE	C	TUTN 01
NV	211	TEUTONIA,QUARTZ MONZONITE	U						TUTN 02
UT	374	TEUTONIC,LS	U			180	NC	A	TTNC 02
UT	374	TEUTONIC,LS (HARTMANN GP)							TTNC 03
NM	112	TEWA,GP	U	VOL			NC	D	TEWA 01
AZ	124	TEXAS CANYON,QUARTZ MONZONITE					SE	D	TXSC 01
AK	210+	TEXAS CREEK,GRANODIORITE	U				SE	A	TXCK 01
AK	220	TEXAS CREEK,GRANODIORITE	U						TXCK 02
AZ	430	TEXAS GULCH,FM	U	TF			C	C	TXGC 01
NJ	347	THACHER,MBR (MANLIUS LS)	U						THCR 01
NY	347	THACHER,MBR (MANLIUS LS)	U			15	C	C	THCR 02
AK	224+	THANE,VOLC GP	U			1500	SE	A	THNE 01
AK	227	THANE,VOLC GP	U						THNE 02
AK	224+	[THANE,VOLCS]							THNE 03
AK	227	[THANE,VOLCS]							THNE 04
CO	211	THATCHER,LS MBR (GRANEROS SH)	U			1	SE	C	TTCR 01
NM	211	THATCHER,LS MBR (GRANEROS SH)							TTCR 02
CO	237	THAYNES,FM	U						TYNS 01
ID	237	THAYNES,FM	U						TYNS 02
MT	237	THAYNES,FM							TYNS 05
NV	237	THAYNES,FM	U						TYNS 06
UT	237	THAYNES,FM	U			360	NC	A	TYNS 07
WY	237	THAYNES,FM	U						TYNS 09
ID	237	THAYNES,GP	U						TYNS 03
ID	237	THAYNES,LS	U						TYNS 04
UT	237	THAYNES,LS	U						TYNS 08
WY	237	THAYNES,LS	U						TYNS 10
IL	361	THEBES,SS	U			30	SC	A	THBS 01
MO	361	THEBES,SS	U						THBS 02



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
WY 124	THOROFARE CREEK,GP (ABSAROKA SUPERGROUP)	U	VSED		1800	NW	E	TFCK 03
NY 357	THOROLD,SS (ALBION GP)	U			3	CAN	A	TRLD 04
NY 357	THOROLD,SS (CLINTON GP)							TRLD 04
NY 357	THOROLD,SS (MEDINA GP)							TRLD 03
NM 341	THOROUGHGOOD,FM		SS,STS		4	SC	C	TGGD 01
VT 367	THORP POINT,MBR (CASSIN FM)		LS		32	NW	D	TRPP 02
TX 218	THORP SPRINGS,MBR (GLEN ROSE LS)				6	EC	A	TPSP 01
NV 121	THOUSAND CREEK,FM		SED		120	NW	A	TDCK 01
OR 121	THOUSAND CREEK,FM							TDCK 02
AZ 221+	THOUSAND POCKETS,TONGUE (NAVAJO SS)	U						TPCK 04
AZ 224	THOUSAND POCKETS,TONGUE (NAVAJO SS)	U						TPCK 06
UT 224	THOUSAND POCKETS,TONGUE (NAVAJO SS)	U			69	SE	D	TPCK 07
ID 112	THOUSAND SPRINGS,BASALT (SNAKE RIVER GP)	U			30	SC	A	TSPG 01
TX 367	THREADGILL,LS				85	C	C	TDGL 01
TX 367	THREADGILL,MBR (TANYARD FM)	U						TDGL 02
AZ 374	THREE C,MBR (ABRIGO FM)	U	SS		100	SC	D	THRC 02
MT 337+	THREE FORKS,FM	U			69	SC	A	TRFK 03
ID 341	THREE FORKS,FM	U						TRFK 12
MT 341	THREE FORKS,FM	U						TRFK 13
UT 341	THREE FORKS,FM	U						TRFK 18
WY 341	THREE FORKS,FM	U						TRFK 20
MT 337+	THREE FORKS,LS	U						TRFK 04
MT 341	THREE FORKS,LS	U						TRFK 14
UT 341	THREE FORKS,LS	U						TRFK 19
WY 341	THREE FORKS,LS	U						TRFK 21
MT 337+	THREE FORKS,SH	U						TRFK 05
MT 341	THREE FORKS,SH	U						TRFK 15
ND 341	THREE FORKS,SH	U						TRFK 16
SD 341	THREE FORKS,SH	U						TRFK 17
AZ 104	THREELINKS,CGL	U			38	SE	D	TRLK 01
KS 317	THREEMILE,LS (CHASE GP)				3	NE	A	TRML 02
KS 317	THREEMILE,MBR (WREFORD LS)	U						TRML 03
CA 230	THREE RIVERS,SCHIST (KAWEAH GP)				3000	C	C	TRRV 02
TX 321	THRIFTY,FM (CISCO GP)	U	LS		30	C	A	TRFT 01
TX 321	THRIFTY,GP							TRFT 02
NV 122	THUMB,FM	U	SS		910	SE	C	THMB 01
MI 344	THUNDER BAY,LS (TRAVERSE GP)	U			4	EC	A	TDRB 02
NC 410	THUNDERHEAD,SS (GREAT SMOKY GP)	U						TDRD 02
TN 410	THUNDERHEAD,SS (GREAT SMOKY GP)	U			910	EC	A	TDRD 04
WI 400	THUNDER MOUNTAIN,QTZ						D	TDRM 01

AZ	337	THUNDER SPRINGS,MBR (REDWALL LS)	U		42	NC	D	TSPG	14	
UT	337	THUNDER SPRINGS,MBR (REDWALL LS)	U					TSPG	15	
NM	122+	/THURMAN,FM		TF	640	SW	C	TRMN	01	
NM	123	/THURMAN,FM						TRMN	02	
OK	325	THURMAN,SS (CABANISS GP)	U		61	EC	A	TRMN	03	
UT	354	THURSDAY,DOL	U		100	WC	C	TRSD	01	
KS	325	TIAWAH,LS BED (CABANISS FM)						TIWH	07	
KS	325	TIAWAH,LS BED (SCAMMON FM)						TIWH	01	
OK	325	TIAWAH,LS BED (SCAMMON FM)		PK	1	NE	A	TIWH	04	
KS	325	TIAWAH,LS MBR (CABANISS FM)						TIWH	02	
MO	325	TIAWAH,LS MBR (SCAMMON FM)						TIWH	06	
OK	325	TIAWAH,LS MBR (SENORA FM)						TIWH	05	
UT	211	TIBBET CANYON,MBR (STRAIGHT CLIFFS FM)		SS	32	SC	E	TBCN	01	
VT	377	[TIBBIT HILL,MBR (PINNACLE FM)]		GN		CAN	C	TBHL	07	
VT	377	TIBBIT HILL,SCHIST						TBHL	03	
VT	377	/TIBBIT HILL,VOLC MBR (PINNACLE FM)						TBHL	06	
UT	120	TIBBLE,FM	U	CGL	760	NC	D	TBBL	01	
CA	122	TICE,SH (MONTEREY GP)	U		140	WC	A	TICE	01	
NY	344	TICHENOR,LS MBR (LUDLOWVILLE FM)	U		<1	WC	A	TCNR	02	
CA	122	TICK CANYON,FM		CL	180	SC	C	TCKC	01	
VT	347	TICKLENAKED,FM		SCH		NE	C	TCKK	01	
UT	124	TICKVILLE,RHYOLITE	U			NC	A	TCKV	02	
VT	371	TICONDEROGA,DOL						TCDG	04	
NY	371	TICONDEROGA,FM		DOL	27	NE	C	TCDG	01	
VT	371	TICONDEROGA,FM						TCDG	02	
AK	351	TIDAL,FM	U	ARG	3100	EC	D	TIDL	01	
PA	337	TIDIOUTE,SH MBR (KNAPP FM)			7	NW	A	TOUT	02	
CO	367	TIE GULCH,DOL MBR (MANITOU FM)	U		20	WC	C	TGLC	03	
NM	337	TIERRA BLANCA,MBR (LAKE VALLEY LS)	U		15	SW	C	TBLC	02	
CA	211	TIERRA LOMA,SH MBR (MORENO FM)			370	C	C	TRLM	01	
CA	122	TIERRA REDONDA,FM	U	SS	500	C	E	TRDD	01	
WA	112	TIETON,ANDESITE	U		61	C	A	TTON	01	
OK	331	TIFF,MBR (GODDARD FM)		CLS	12	SE	C	TIFF	01	
CO	125	TIFFANY,FM		CL	90	SW	A	TIFF	01	
WA	112	TIFLIS,MBR (WAHLUKE FM)		SED	5	C	C	TFLS	01	
AK	410	[TIGARAH, SCHIST]			910	NC	A	TGRH	02	
AK	410	/TIGARAH, SCHIST (KIGLUAIK GP)	U					TGRH	01	
WA	120	TIGER,FM	U	SS	300	NE	C	TIGR	01	
WA	124	TIGER MOUNTAIN,FM (PUGET GP)	U	SS	610	C	D	TGRM	01	
WI	400	TIGERTON,ANORTHOISITE					C	D	TGRN	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 330	TIGHTNER, FM	U	SCH		2100	NC A		TGNR 01
CA 320	TIMVIPAH, LS	U			61	EC C		THVP 01
NM 400	TIJERAS, GREENSTONE			GN		NC E		TJRS 01
MT 370	TILDEN, FM		LS		130	SW A		TLDN 03
SD 211	TILFORD, LENS (NEWCASTLE SS)				5	WC C		TLFD 01
OR 124	TILLAMOOK, VOLCS	U			300	NW C		TLMK 01
NC 370	TILLERY, FM (ALBEMARLE GP)	U	MET			C D		TLLR 07
OK 420	TILLMAN, GRAYWACKE				1000	SC D		TLMN 07
WA 231	TILLMAN MOUNTAIN, TONALITE (TOATS COULEE GP)					NC E		TLMM 01
IL 112	TILTON, TILL MBR (BANNER FM)				3	EC E		TLTN 01
CA 112	TIMBER CANYON, FANGLOMERATE					SC A		TMBC 03
OR 111+	[TIMBER CRATER, BASALT]					SW C		TMBC 06
OR 112	[TIMBER CRATER, BASALT]							TMBC 07
OR 111+	/TIMBER CRATER, BASALT FLOW							TMBC 01
OR 112	/TIMBER CRATER, BASALT FLOW							TMBC 04
OK 371	TIMBERED HILLS, GP	U	SS			SC A		TMBH 01
KS 323	TIMBER HILL, STS BED (STANTON FM)				1	SE E		TMBH 02
NM 120	TIMBERLAKE, FANGLOMERATE				150	SW D		TMBK 01
ND 211	TIMBER LAKE, MBR (FOX HILLS FM)							TBLK 01
SD 211	TIMBER LAKE, MBR (FOX HILLS SS)				27	NC C		TBLK 01
NV 122	TIMBER MOUNTAIN, TUFF (PIAPI CANYON GP)	U			530	EC D		TMBM 02
AZ 101+	TIMES, PORPHYRY	U				WC A		TIMS 01
AZ 104	TIMES, PORPHYRY	U						TIMS 02
CA 112	TIMMS POINT, FM				9	SC A		TMSP 01
CA 112	TIMMS POINT, SILT							TMSP 02
CA 112	TIMMS POINT, SILT MBR (SAN PEDRO FM)	U						TMSP 03
ID 237	TIMOTHY, FM				240	SE A		TMTY 01
UT 237	TIMOTHY, FM							TMTY 04
WY 237	TIMOTHY, FM							TMTY 07
ID 237	TIMOTHY, SS	U						TMTY 02
UT 237	TIMOTHY, SS	U						TMTY 05
WY 237	TIMOTHY, SS	U						TMTY 08
ID 237	TIMOTHY, SS MBR (THAYNES FM)	U						TMTY 03
UT 237	TIMOTHY, SS MBR (THAYNES FM)	U						TMTY 06
WY 237	TIMOTHY, SS MBR (THAYNES FM)	U						TMTY 09
AZ 237	TIMPOWEAP, MBR (MOENKOPI FM)							TMPP 03
NV 237	TIMPOWEAP, MBR (MOENKOPI FM)	U						TMPP 02
UT 237	TIMPOWEAP, MBR (MOENKOPI FM)	U	SH		52	SW C		TMPP 01
OR 121+	TIMS PEAK, BASALT	U			76	EC C		TMPK 01
OR 122	TIMS PEAK, BASALT	U						TMPK 02

CA	121	TINAQUAIC,SS MBR (SISQUOC FM)	U		430	SC	C	TNQC	01
AZ	374	TINCANEBITS,MBR (LYNDON LS)	U	DOL	9	NW	C	TCBS	01
AZ	374	TINCANEBITS,TONGUE (BRIGHT ANGEL SH)	U					TCBS	02
CO	123+	TINCUP,QUARTZ MONZONITE PORPHYRY	U				C	C	TNCP
CO	124	TINCUP,QUARTZ MONZONITE PORPHYRY	U						TNCP
CO	125	TINCUP,QUARTZ MONZONITE PORPHYRY	U						TNCP
AK	410	[TINDIR,FM]	U	SED	5800	NE	A	TNDR	03
AK	410	/TINDIR,GP	U						TNDR
CA	227	TINEMAHA,GRANODIORITE	U				C	D	TNMH
OH	112	TINKERS CREEK,MBR	U	WH		NE	D	TKCK	01
NY	344	TINKERS FALLS,MBR (TULLY LS)	U		2	C	A	TKFL	01
CA	337	TIN MOUNTAIN,LS	U		145	EC	C	TNMN	03
UT	374+	TINTIC,QTZ	U		2100	C	A	TNTC	01
UT	377	TINTIC,QTZ	U						TNTC
NJ	211	TINTON,SAND (MONMOUTH GP)	U		7	EC	A	TNTN	03
OH	344	TIOGA,BENTONITE BED (COLUMBUS LS)	U						TIOG
IL	344	TIOGA,BENTONITE BED (GRAND TOWER LS)	U						TIOG
MD	344	TIOGA,BENTONITE BED (ONONDAGA LS)	U						TIOG
PA	344	TIOGA,BENTONITE BED (ONONDAGA LS)	U		<1	NC	C	TIOG	06
VA	344	TIOGA,BENTONITE BED (ONONDAGA LS)	U						TIOG
WV	344	TIOGA,BENTONITE BED (ONONDAGA MBR OF ROMNEY SH)	U						TIOG
NY	344	TIOGA,BENTONITE BED (SENECA MBR OF ONONDAGA LS)	U						TIOG
IN	344	TIOGA,BENTONITE BED (VERNON FORK MBR OF JEFFERSONVILLE LS)	U						TIOG
CA	112	TIOGA,DRIFT	U				C	A	TIOG
NV	112	TIOGA,DRIFT	U						TIOG
MD	344	/TIOGA,METABENTONITE BED (HAMILTON GP)	U						TIOG
OH	324	TIONESTA,CLAY [BED] (POTTSVILLE FM)	U		2	NW	A	TNST	01
TN	125	TIPPAH,SAND LENTIL (PORTERS CREEK CLAY)	U						TPPH
MS	125	TIPPAH,SAND MBR (PORTERS CREEK CLAY)	U		30	NE	A	TPPH	01
NV	317+	TIPPIPAH,LS	U		1200	SC	C	TPPP	01
NV	321	TIPPIPAH,LS	U						TPPP
NV	324	TIPPIPAH,LS	U						TPPP
NV	327	TIPPIPAH,LS	U						TPPP
CO	124	TIPTON,SH MBR (GREEN RIVER FM)	U						TPTN
UT	124	TIPTON,SH MBR (GREEN RIVER FM)	U						TPTN
WY	124	TIPTON,SH MBR (GREEN RIVER FM)	U		99	SW	A	TPTN	05
CO	124	TIPTON,TONGUE (GREEN RIVER FM)	U						TPTN
UT	124	TIPTON,TONGUE (GREEN RIVER FM)	U						TPTN
WY	124	TIPTON,TONGUE (GREEN RIVER FM)	U						TPTN
NV	364	TISER,LS	U		27	NE	E	TISR	01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 420	TISHOMINGO,GRANITE	U				SE	A	TSMG 01
IL 112	TISKILWA,TILL MBR (WEDRON FM)				46	NC	E	TSKL 01
WI 112	TISKILWA,TILL MBR (WEDRON FM)							TSKL 02
CA 123	TITUS CANYON,FM	U	SS		670	SC	A	TSCN 02
NV 123	TITUS CANYON,FM	U						TSCN 03
PA 112	TITUSVILLE,TILL				8	NW	D	TSVL 01
NV 122	TIVA CANYON,MBR (PAINTBRUSH TUFF)	U			240	SC	D	TVCN 02
NV 122	TIVA CANYON,MBR (PIAPI CANYON FM)							TVCN 03
GA 124	TIVOLA,MBR (OCALA LS)				12	C	A	TVOL 01
GA 124	TIVOLA,TONGUE (OCALA LS)	U						TVOL 02
AK 100	TLEVAK,BASALT	U			30	SE	E	TLVK 01
WA 231	[TOATS COULEE,GP]					NC	E	TSCL 17
WA 231	/TOATS COULEE,MAGMA SER							TSCL 16
NV 237	TOBIN,FM	U	SH		300	NC	C	TOBN 01
MI 420	[TOBIN HARBOR,BASALT (PORTAGE LAKE VOLCS)]				15	NW	E	TBHB 02
MI 420	/TOBIN HARBOR,FLOW (PORTAGE LAKE VOLCS)	U						TBHB 01
OK 325	TOBUCKSY,SS MBR (HARTSHORNE FM)				61	EC	A	TBCK 09
NM 211	TOCITO,MBR (GALLUP SS)				11	NW	A	TOCT 02
CO 211	TOCITO,SS LENTIL (MANCOS SH)							TOCT 01
NE 112	TODD VALLEY,FM	U			58	EC	A	TDVL 01
NE 112	TODD VALLEY,MBR (PEORIA FM)							TDVL 03
NE 112	TODD VALLEY,SAND	U						TDVL 02
AZ 224	TODILTO,FM (SAN RAFAEL GP)							TDLT 01
CO 224	TODILTO,FM (SAN RAFAEL GP)							TDLT 04
NM 224	TODILTO,FM (SAN RAFAEL GP)	U			61	NW	A	TDLT 08
UT 224	TODILTO,FM (SAN RAFAEL GP)							TDLT 15
AZ 224	TODILTO,LS (SAN RAFAEL GP)	U						TDLT 02
CO 224	TODILTO,LS (SAN RAFAEL GP)	U						TDLT 05
NM 224	TODILTO,LS (SAN RAFAEL GP)	U						TDLT 09
UT 224	TODILTO,LS (SAN RAFAEL GP)	U						TDLT 16
CA 121+	TODOS SANTOS,CLAYSTONE MBR (SISQUOC FM)	U			460	SC	C	TDSS 01
CA 122	TODOS SANTOS,CLAYSTONE MBR (SISQUOC FM)	U						TDSS 02
WA 420	TOGO,FM (DEER TRAIL GP)	U	MSED			NE	C	TOGO 01
AZ 211	TOHACHI,FM (MESAVERDE GP)	U						THCH 01
NM 211	TOHACHI,FM (MESAVERDE GP)	U	SH		340	NW	A	THCH 02
NV 122	TOIYABE,QUARTZ LATITE	U			460	C	C	TOYB 01
AR 212	TOKIO,FM	U	SD		46	SW	A	TOKO 01
LA 212	TOKIO,FM	U						TOKO 02
OK 212	TOKIO,FM	U						TOKO 03
AR 212	TOKIO,FM (AUSTIN GP)							TOKO 08

CA	210+	TOKOPAH,GRANODIORITE						C	C	TKPH	01
CA	220	TOKOPAH,GRANODIORITE								TKPH	02
AK	123+	TOKUN,FM								TKUN	01
AK	124	TOKUN,FM		U	SH		760	EC	A	TKUN	02
CA	121	TOLAY,VOLCS								TOLY	01
AZ	110	TOLCHACO,GRAVEL								TLCC	01
ID	121+	TOLL GATE,OLIVINE BASALT (REYNOLDS BASIN GP)								TLGT	01
ID	122	TOLL GATE,OLIVINE BASALT (REYNOLDS BASIN GP)								TLGT	02
CA	122	TOLLHOUSE FLAT,MBR (EUREKA VALLEY TUFF)								TLFL	03
NV	122	TOLLHOUSE FLAT,MBR (EUREKA VALLEY TUFF)		U						TLFL	02
CA	124	TOLMAN,FM								TLMN	03
AK	344+	TOLOVANA,LS		U						TLVN	01
AK	347	TOLOVANA,LS		U						TLVN	03
AK	350	TOLOVANA,LS		U						TLVN	02
AK	124+	TOLSTOI,FM (BEAVER BAY GP)								TLST	01
AK	125	TOLSTOI,FM (BEAVER BAY GP)								TLST	02
NM	123	TOLTEC,ANDESITE MBR (TREASURE MOUNTAIN TUFF)								TLTC	01
NC	360	TOLUCA,QUARTZ MONZONITE		U						TLUC	01
SC	360	TOLUCA,QUARTZ MONZONITE		U						TLUC	02
MN	371	TOMAH,MBR (FRANCONIA FM)								TOMH	02
WI	371	TOMAH,MBR (FRANCONIA SS)								TOMH	01
CA	112	TOMALES,FM								TMLS	01
TN	211	TOMBIGBEE,SAND MBR (EUTAW FM)		U						TBGB	04
AL	212	TOMBIGBEE,SAND MBR (EUTAW FM)		U						TBGB	01
GA	212	TOMBIGBEE,SAND MBR (EUTAW FM)		U						TBGB	02
MS	212	TOMBIGBEE,SAND MBR (EUTAW FM)		U						TBGB	03
NV	324	TOMERA,FM								TOMR	03
NV	324	TOMERA,FM (ELY GP)								TOMR	01
NV	324	TOMERA,MBR (ELY LS)								TOMR	02
ME	347	TOMHEGAN,FM (MOOSE RIVER GP)		U						TMGN	01
NJ	124	TOMS RIVER,MBR (SHARK RIVER FM)								TMRV	01
MD	377	TOMSTOWN,DOL		U						TMSN	05
PA	377	TOMSTOWN,DOL		U						TMSN	07
VA	377	TOMSTOWN,DOL		U						TMSN	15
WV	377	TOMSTOWN,DOL		U						TMSN	14
PA	377	TOMSTOWN,FM		U						TMSN	06
VA	377	TOMSTOWN,FM								TMSN	08
WV	377	TOMSTOWN,FM								TMSN	09
WA	123	TOM THUMB,TUFF MBR (KLONDIKE MOUNTAIN FM)		U						TMTB	01
WA	200+	TONASKET,GNEISS								TNSK	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WA 300	TONASKET,GNEISS							TNSK 02
SC 112	TONY BAY,MBR (WICOMICO FM)					EC	D	TNYB 01
WA 304+	TONGA,FM		SED			C	C	TONG 01
WA 307	TONGA,FM		CGL					TONG 02
KS 322	TONGANOXIE,SS MBR (STRANGER FM)	U			9	NE	A	TNGX 01
MO 322	TONGANOXIE,SS MBR (STRANGER FM)	U						TNGX 02
MT 125	TONGUE RIVER,FM (FORT UNION GP)							TGRV 01
ND 125	TONGUE RIVER,FM (FORT UNION GP)							TGRV 03
MT 125	TONGUE RIVER,MBR (FORT UNION FM)	U						TGRV 02
ND 125	TONGUE RIVER,MBR (FORT UNION FM)	U						TGRV 04
SD 125	TONGUE RIVER,MBR (FORT UNION FM)	U						TGRV 05
WY 125	TONGUE RIVER,MBR (FORT UNION FM)	U	SS			NE	A	TGRV 06
NV 327+	TONKA,FM		CGL		610	NE	C	TONK 01
NV 331	TONKA,FM							TONK 02
AK 224	TONNIE,STS MBR (CHINITNA FM)	U			360	C	C	TONN 01
PA 351	TONOLOWAY,FM							TNLY 10
VA 351	TONOLOWAY,FM							TNLY 11
WV 351	TONOLOWAY,FM				120	NW	A	TNLY 08
VA 351	/TONOLOWAY,FM (CAYUGA GP)							TNLY 09
MD 351	TONOLOWAY,LS							TNLY 14
PA 351	TONOLOWAY,LS							TNLY 15
VA 351	TONOLOWAY,LS							TNLY 12
WV 351	TONOLOWAY,LS							TNLY 13
MD 351	/TONOLOWAY,LS (CAYUGA GP)	U						TNLY 04
PA 351	/TONOLOWAY,LS (CAYUGA GP)	U						TNLY 05
VA 351	/TONOLOWAY,LS (CAYUGA GP)	U						TNLY 06
WV 351	/TONOLOWAY,LS (CAYUGA GP)	U						TNLY 07
NV 122	TONOPAH,FM	U	RHY		300	C	A	TNPH 01
IL 364	TONTI,MBR (ST. PETER SS)				61	NC	D	TONT 01
MO 364	TONTI,MBR (ST. PETER SS)							TONT 05
WI 364	TONTI,MBR (ST. PETER SS)							TONT 02
AZ 374+	TONTO,GP	U	SH		270	NC	A	TONT 03
AZ 377	TONTO,GP	U						TONT 04
AK 320+	[TONZONA,FM]		ARG		1500	C	A	TNZN 05
AK 330	[TONZONA,FM]							TNZN 06
AK 340	[TONZONA,FM]							TNZN 07
AK 350	[TONZONA,FM]							TNZN 08
AK 320+	/TONZONA,GP	U						TNZN 01
AK 330	/TONZONA,GP	U						TNZN 02
AK 340	/TONZONA,GP	U						TNZN 03

AK	350	/TONZONA,GP	U							TNZN	04
UT	337+	TOPACHE,LS	U			460	SW	A		TPCH	01
UT	341	TOPACHE,LS	U							TPCH	02
AK	217	TOPAGORUK,FM	U	SH		780	NC	C		TPGK	01
CA	122	TOPANGA,FM	U	SS		1800	SC	A		TPNG	02
UT	121+	/TOPAZ MOUNTAIN,RHYOLITE	U			240	WC	D		TPZM	01
UT	122	/TOPAZ MOUNTAIN,RHYOLITE	U							TPZM	03
UT	121+	TOPAZ MOUNTAIN,TUFF	U							TPZM	02
UT	122	TOPAZ MOUNTAIN,TUFF	U							TPZM	04
MO	322	TOPEKA,FM (SHAWNEE GP)	U							TOPK	03
OK	322	TOPEKA,LS	U							TOPK	05
IA	322	TOPEKA,LS (SHAWNEE GP)	U							TOPK	01
KS	322	TOPEKA,LS (SHAWNEE GP)	U			17	NE	A		TOPK	02
MO	322	TOPEKA,LS (SHAWNEE GP)	U							TOPK	06
NE	322	TOPEKA,LS (SHAWNEE GP)	U							TOPK	04
UT	331	TOPLIFF,LS MBR (GREAT BLUE FM)	U			140	C	D		TPLF	01
NV	122	TOPOPAH SPRING,MBR (PAINTBRUSH TUFF)	U			270	SC	D		TPPS	02
NV	122	TOPOPAH SPRING,MBR (PIAPI CANYON FM)	U							TPPS	03
MA	304	TOPSFIELD,GRANODIORITE	U		RD			NE	D	TPFD	01
AK	122+	TOPSY,FM	U	STS		370	EC	D		TPSY	01
AK	123	TOPSY,FM	U							TPSY	02
GA	364	TOQUA,SS MBR (BLOCKHOUSE SH)	U							TOQU	02
TN	364	TOQUA,SS MBR (BLOCKHOUSE SH)	U			120	SE	C		TOQU	01
NV	361+	TOQUIMA,FM	U	SCH		1200	C	A		TQUM	01
NV	364	TOQUIMA,FM	U							TQUM	02
NV	367	TOQUIMA,FM	U							TQUM	03
NV	347	TOR,LS	U					C	C	TOR	01
TX	219	TORCER,FM	U	LS		250	WC	A		TRCR	02
MT	211	TORCHLIGHT,SS MBR (FRONTIER FM)	U							TCLG	01
WY	211	TORCHLIGHT,SS MBR (FRONTIER FM)	U			9	NC	A		TCLG	02
TX	124	TORDILLA,SS MBR (WHITSETT FM)	U			9	SC	C		TRDL	03
AK	224	TORDRILLO,FM	U	SH				C	A	TRDL	08
AZ	211	TOREVA,FM (MESAVERDE GP)	U	SS		95	NE	C		TORV	01
TX	124+	TORNILLO,CLAY	U		VAR	210	SW	A		TRNL	11
TX	125	TORNILLO,CLAY	U							TRNL	12
TX	212	TORNILLO,CLAY	U							TRNL	06
TX	124+	TORNILLO,GP	U							TRNL	07
TX	125	TORNILLO,GP	U							TRNL	08
TX	212	TORNILLO,GP	U							TRNL	10
CA	217+	TORO,FM	U	SH		900	SC	A		TORO	06

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA 221	TORO,FM	U						TORO 07
AK 217	TOROK,FM	U	SH		1800	NC	C	TORK 01
IA 322	TORONTO,MBR (OREAD LS)	U						TRNT 14
KS 322	TORONTO,MBR (OREAD LS)	U			3	SE	A	TRNT 15
MO 322	TORONTO,MBR (OREAD LS)	U						TRNT 16
NV 317	TOROWEAP,FM	U						TRWP 04
AZ 317	TOROWEAP,FM (AUBREY GP)	U	SS,LS		100	NW	C	TRWR 01
NV 317	TOROWEAP,FM (AUBREY GP)	U						TRWP 02
UT 317	TOROWEAP,FM (AUBREY GP)	U						TRWP 03
OK 323	TORPEDO,FM (OCHELATA GP)	U			9	NE	A	TRPD 06
OK 323	TORPEDO,SS (OCHELATA GP)	U						TRPD 01
OK 323	TORPEDO,SS MBR (OCHELATA FM)							TRPD 02
OK 323	TORPEDO,SS MBR (WANN FM)							TRPD 03
AZ 125	TORREJON,FM	U						TRJN 01
NM 125	TORREJON,FM (NACIMIENTO GP)	U	SH		84	NW	A	TRJN 02
NM 318	TORRES,MBR (YESO FM)	U	SS		180	C	C	TRRS 01
UT 234+	TORREY,MBR (MOENKOPI FM)		SS	RD	82	SE	E	TRRY 07
UT 237	TORREY,MBR (MOENKOPI FM)							TRRY 08
CA 124	TORREY,SS (LA JOLLA GP)	U			61	SE	A	TRRY 01
CA 124	TORREY,SS MBR (LA JOLLA FM)							TRRY 09
FL 122	TORREYA,FM		SD	BL,GN	30	NC	E	TRRY 06
WY 211	TORRINGTON,MBR (LANCE FM)		SED		30	SE	A	TRNG 01
NM 211	TORRIVIO,MBR (GALLUP SS)			PK	17	NW	E	TRRV 03
AZ 211	TORTILLA,QUARTZ DIORITE	U					SC	E TRTL 01
NM 112	TORTUGAS,ALLUVIUM						SC	D TRGS 01
ID 311	TOSI,CHERT MBR (PHOSPHORIA FM)	U						TOSI 01
MT 311	TOSI,CHERT MBR (PHOSPHORIA FM)	U						TOSI 03
UT 311	TOSI,CHERT MBR (PHOSPHORIA FM)	U						TOSI 04
WY 311	TOSI,CHERT MBR (PHOSPHORIA FM)	U			10	WC	C	TOSI 06
ID 311	TOSI,TONGUE (PHOSPHORIA FM)	U						TOSI 02
MT 311	TOSI,TONGUE (PHOSPHORIA FM)	U						TOSI 09
UT 311	TOSI,TONGUE (PHOSPHORIA FM)	U						TOSI 05
WY 311	TOSI,TONGUE (PHOSPHORIA FM)	U						TOSI 07
AK 330	TOTATLANIKA,SCHIST	U			910	EC	A	TLNK 01
NM 121	TOTAVI,LENTIL (PUYE FM)	U	CGL		16	NC	D	TOTV 01
WA 112	TOUCHET,SILT				30	SE	C	TCHT 01
IL 112	TOULON,MBR (GLASFORD FM)			ST,SD	3	NC	E	TULN 01
WA 123+	TOUTLE,FM	U	SED		170	SW	C	TUTL 01
WA 124	TOUTLE,FM	U						TUTL 02
WA 111	TOUTLE RIVER,MUDFLOW					SW	C	TLRV 01

PA	341	TOWAMENSING,MBR (CATSKILL FM)		SS		58	EC	E	TMSG	01	
NY	341	TOWANDA,FM (CANADAWAY GP)							TWND	04	
PA	341	TOWANDA,FM (CANADAWAY GP)		SS		90	NE	A	TWND	03	
KS	317	TOWANDA,LS MBR (DOYLE SH)		U		3	SE	A	TWND	01	
NE	317	TOWANDA,LS MBR (DOYLE SH)							TWND	02	
CO	211	TOW CREEK,SS MBR (ILES FM)		U		34	NW	A	TCRK	02	
CO	211	TOW CREEK,SS MBR (MESAVERDE FM)							TCRK	03	
MT	112	TOWER CREEK,GRAVEL		U					TRCK	02	
WY	112	TOWER CREEK,GRAVEL		U			NW	A	TRCK	03	
MT	200	/TOWER PEAK,PORPHYRITIC SYENITE					C	C	TRPK	03	
MT	200	[TOWER PEAK,SYENITE]							TRPK	06	
KS	317	TOWLE,MBR (ONAGA SH)		U					TOWL	02	
NE	317	TOWLE,MBR (ONAGA SH)		U					TOWL	04	
KS	317	TOWLE,SH (ADMIRE GP)				4	SE	A	TOWL	01	
NE	317	TOWLE,SH (ADMIRE GP)							TOWL	03	
WY	400	TOWNER,GREENSTONE (LIBBY CREEK GP)					SE	A	TWNR	02	
TX	400	TOWN MOUNTAIN,GRANITE					C	A	TMMN	04	
WA	123	TOWNSEND,SH				20	WC	C	TNSD	01	
CA	300	TOWNSEND GULCH,SCHIST					NW	D	TDGC	01	
ME	347	TOWOW,FM		U	SL	91	SW	A	TOWW	01	
ME	347	TOWOW,FM (SHAPLEIGH GP)							TOWW	02	
CA	121+	TOWSLEY,FM		U	CGL	1200	SC	C	TSLY	01	
CA	122	TOWSLEY,FM		U					TSLY	02	
TX	110	TOY,LS MBR (GOZAR GRAVEL)				5	WC	D	TOY	01	
NV		TOYABE--SEE TOIYABE									
CA	211	TRABUCO,FM		U	CGL	RD	61	SE	A	TRBC	01
AR	324	TRACE CREEK,MBR (BLOYD SH)		U			38	NW	D	TCCK	03
AR	324	TRACE CREEK,SH MBR (BLOYD FM)		U					TCCK	05	
CO	123	TRACY CREEK,ANDESITE						SW	A	TCCK	01
CO	123	TRACY CREEK,QUARTZ LATITE		U					TCCK	02	
MI	430	/TRADERS,IRON-BEARING MBR (VULCAN FM)		U			52	C	A	TRDR	02
MI	430	[TRADERS,MBR (VULCAN FM)]							TRDR	04	
KY	324	TRADEWATER,FM		U	SH	210	WC	A	TRDR	01	
IN	112	TRAFALGAR,FM			TL	8	C	C	TFLG	01	
CA	224	TRAIL,FM		U	SH	880	NC	A	TRIL	02	
ID	317	TRAIL CANYON,LS						SE	E	TRLC	03
ND	211	TRAIL CITY,MBR (FOX HILLS FM)							TRLC	01	
SD	211	TRAIL CITY,MBR (FOX HILLS SS)		U	SH	27	NC	C	TRLC	02	
ID	354	TRAIL CREEK,FM		U	SS	150	SC	A	TLCK	09	
OR	124	TRAIL CROSSING,BASALT		U				C	A	TLCG	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
UT 374	TRAILER,LS	U			120	WC	D	TRLR 01
UT 231	TRAIL HILL,SS [MBR] (CHINLE FM)				8	SW	C	TLHL 01
NV 122	TRAIL RIDGE,MBR (THIRSTY CANYON TUFF)	U			30	SC	D	TRDG 01
HI 112	TRAINING SCHOOL,VOLCS (HONOLULU GP)	U			15	NC	A	TGSC 01
OR 217	TRAMWAY,TRONDHEMITE . . . . .					NE	D	TRMY 01
CA 122	TRANQUILLON,VOLCS				370	SC	C	TRQL 01
CT 361+	TRAP FALLS,FM (HARTLAND GP)		GN,SCH			SW	E	TPFL 01
CT 364	TRAP FALLS,FM (HARTLAND GP)							TPFL 02
ME 347	TRAVELLER,RHYOLITE				2600	NC	C	TRVL 06
MI 341+	TRAVERSE,FM . . . . .		LS		180	C	A	TRVR 06
MI 344	TRAVERSE,FM							TRVR 08
IN 344	TRAVERSE,FM (MUSCATATUCK GP)							TRVR 10
MI 341+	TRAVERSE,GP	U						TRVR 07
MI 344	TRAVERSE,GP	U						TRVR 09
UT 121	TRAVERSE,VOLCS (SALT LAKE GP) . . . . .				910	NC	C	TRVR 01
CO 231	TRAVESSER,FM (DOCKUM GP)							TRVR 13
NM 231	TRAVESSER,FM (DOCKUM GP)		STS		75	NE	C	TRVR 05
TX 218	TRAVIS PEAK,FM (TRINITY GP)	U	SS		91	C	A	TVPK 01
AK 217+	TREADWELL,FM	U			2100	SE	A	TRDL 04
AK 220	TREADWELL,FM . . . . .	U						TRDL 06
AK 217+	TREADWELL,SLATE	U						TRDL 05
AK 220	TREADWELL,SLATE	U						TRDL 07
NM 123	TREASURE MOUNTAIN,RHYOLITE							TRRM 07
CO 123	TREASURE MOUNTAIN,TUFF	U			460	SC	A	TRRM 02
NM 123	TREASURE MOUNTAIN,TUFF . . . . .	U						TRRM 05
LA 212	TREES CITY,SAND [MBR] (TOKIO FM)				23	NW	D	TRSC 03
NY 341	TREMAN,MBR (ITHACA FM)		SED			C	D	TRMN 04
IA 371	TREMPEALEAU,FM	U						Tmpl 08
MI 371	TREMPEALEAU,FM	U						Tmpl 10
WI 371	TREMPEALEAU,FM . . . . .	U	SH		44	WC	A	Tmpl 12
NC 123	TRENT,MARL	U			30	EC	A	TRNT 01
MI 364	TRENTON,FM							TRNN 12
NY 364	TRENTON,FM				30	C	A	TRNN 15
VT 364	TRENTON,FM							TRNN 27
NY 364	TRENTON,GP . . . . .	U						TRNN 16
PA 364	TRENTON,GP	U						TRNN 21
VT 364	TRENTON,GP							TRNN 28
WV 364	TRENTON,GP	U						TRNN 30
GA 364	TRENTON,LS	U						TRNN 05
IN 364	TRENTON,LS . . . . .	U						TRNN 08





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MN 430	TROMMALD,FM	U	FE		150	C	D	TMLD 01
MN 430	TROMMALD,FM (ANIMIKIE GP)							TMLD 02
UT 211	TROPIC,SH	U			430	SC	A	TRPC 04
CA 122+	TROPICO,GP	U	VSED		850	SC	C	TRPC 01
CA 123	TROPICO,GP	U						TRPC 02
CO 122	TROUBLESOME,FM	U	SD,CL		290	NC	C	TBLM 13
WY 231	TROUBLESOME CREEK,SS MBR (JELM FM)				50	SC	C	TBCK 03
PA 331	TROUGH CREEK,LS MBR (MAUCH CHUNK FM)	U			15	SC	A	TGCK 01
OR 122	TROUT CREEK,FM		ASH			SE	A	TRCK 09
CO 211	TROUT CREEK,SS MBR (ILES FM)	U			23	NW	A	TRCK 10
OR 121	TROUTDALE,FM	U	SD		340	NW	C	TRDL 01
WA 121	TROUTDALE,FM	U						TRDL 02
IL 357	TROUTMAN,MBR (KANKAKEE DOL)				8	NE	E	TRMN 05
WY 124	TROUT PEAK,TRACHYANDESITE (SUNLIGHT GP)	U			300	NW	E	TRPK 02
ME 344+	TROUT VALLEY,FM	U	SH		460	NC	D	TRVL 05
ME 347	TROUT VALLEY,FM	U						TRVL 07
IL 322	TROWBRIDGE,COAL MBR (MATTOON FM)				<1	EC	C	TBDG 08
OR 224	TROWBRIDGE,SH	U		BK	1200	C	C	TBDG 07
OK 420	TROY,GRANITE					SE	A	TROY 04
NY 377	TROY,MBR (SCHODACK FM)				30	EC	A	TROY 01
AZ 420	TROY,QTZ	U			120	C	A	TROY 03
NY 377	TROY,SH							TROY 02
CA 121+	TRUCKEE,FM							TRCK 04
NV 121+	TRUCKEE,FM	U	SD		1200	WC	C	TRCK 05
CA 122	TRUCKEE,FM							TRCK 23
NV 122	TRUCKEE,FM	U						TRCK 19
CA 121	TRUCKHAVEN,RHYOLITE				30	SE	C	TCKV 01
TX 231	TRUJILLO,FM (DOCKUM GP)	U	SS		76	NW	A	TRJL 01
NY 400	TRUMBULL,GNEISS					NC	A	TMBL 08
CO 121+	TRUMP,CGL				150	C	C	TRMP 01
CO 122	TRUMP,CGL							TRMP 02
AK 123	TSADAKA,FM	U	CGL		210	SC	C	TSDK 01
NM 112	TSANKAWI,PUMICE BED (TSHIREGE MBR OF BANDELIER TUFF)				1	NC	E	TSNK 01
NM 121	TSCHICOMA,FM (POLVADERA GP)	U	VOL		790	NC	D	TCCM 01
AZ 111	TSEGI,FM					NE	C	TSGI 01
NM 112	TSHIREGE,MBR (BANDELIER TUFF)	U	CL,ST		300	NC	D	TSRG 01
OR 112	TUALATIN,GRAVEL				61	NW	C	TLTN 02
ID 112	TUANA,GRAVEL (IDAHO GP)	U			61	SC	D	TUAN 01
NV 122	TUB SPRING,MBR (BELTED RANGE TUFF)	U			76	SC	D	TBSP 01
TN 324	TUB SPRINGS,SS (CROSS MOUNTAIN GP)				15	EC	C	TBSP 04

TN	324	TUB SPRINGS,SS MBR (CROSS MOUNTAIN FM)										TBSP	05
OR	231	TUCKER CREEK,FM (CLOVER CREEK GP)			GNS				NE	D		TKCK	03
AZ	211	TUCSON MOUNTAIN,CHAOS			CGL				SE	C		TCSM	01
AZ	122	TUCSON WASH,MBR (SAN MANUEL FM)	U		CGL	300			SE	D		TCSW	01
NM	217	TUCUMCARI,SH . . . . .	U			18			NE	A		TCMC	01
NM	110	TUERTO,GRAVEL				46			NC	C		TURT	01
MA	301+	TUFTS,QTZ MBR (CAMBRIDGE SLATE)	U			12			NE	A		TFTS	02
MA	304	TUFTS,QTZ MBR (CAMBRIDGE SLATE)	U									TFTS	03
AK	121	TUGIDAK,FM	U		SS,STS	1500			SC	E		TGDK	01
AK	217	TUKTU,FM (NANUSHUK GP) . . . . .	U		SS	310			NC	C		TUKT	01
WA	124	TUKWILA,FM (PUGET GP)	U		VSED	760			C	D		TKWL	02
CA	112+	TULARE,FM	U		SD	300			C	A		TULR	01
CA	121	TULARE,FM	U									TULR	02
NM	123	TULAROSA CANYON,RHYOLITE				40			WC	E		TLRC	03
TX	112	TULE,FM . . . . .	U		SD	46			NC	A		TULE	01
CA	220+	[TULE CREEK,COMPLEX]								NW	E	TLCK	16
CA	230	[TULE CREEK,COMPLEX]										TLCK	17
CA	220+	/TULE CREEK,GRANITE COMPLEX	U									TLCK	14
CA	230	/TULE CREEK,GRANITE COMPLEX	U									TLCK	15
TX	123	TULE MOUNTAIN,TRACHYANDESITE MBR (CHISOS FM) . . . . .							SW	C		TLMN	02
AZ	320+	TULE SPRING,LS	U			150			SE	A		TSPG	02
AZ	337	TULE SPRING,LS	U									TSPG	13
OK	364	TULIP CREEK,FM (SIMPSON GP)	U		SH	180			SC	A		TPCK	09
TX	364	TULIP CREEK,FM (SIMPSON GP)										TPCK	12
ND	125	TULLOCK,FM . . . . .										TLCK	10
MT	125	TULLOCK,FM (FORT UNION GP)			SS	81			EC	A		TLCK	11
MT	125	TULLOCK,MBR (FORT UNION FM)	U									TLCK	05
SD	125	TULLOCK,MBR (FORT UNION FM)	U									TLCK	06
WY	125	TULLOCK,MBR (FORT UNION FM)	U									TLCK	08
LA	124	TULLOS,MBR (YAZOO CLAY) . . . . .				53			WC	C		TLLS	03
PA	344	TULLY,FM										TLLY	03
NY	344	TULLY,LS	U			11			C	A		TLLY	01
PA	344	TULLY,LS	U									TLLY	02
WV	344	TULLY,LS										TLLY	06
MD	344	TULLY,LS (HAMILTON GP) . . . . .	U									TLLY	04
PA	344	TULLY,LS MBR (HARRELL FM)										TLLY	05
PA	344	TULLY,LS MBR (RUSH FM)										TLLY	07
NY	344	TULLY VALLEY,BED (TULLY LS)				<1			C	E		TLVL	02
AK	211	TULUVAK,TONGUE (PRINCE CREEK FM)	U		SED	370			NC	C		TLVK	02
WA	110	TUMAC MOUNTAIN,OLIVINE BASALT . . . . .							SC	E		TMCM	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VA 364	TUMBEZ,LS				37	SW	C	TMBZ 01
ME 300	TUMBLEDOWN,GNEISS					WC	C	TMBD 01
PA 327	TUMBLING RUN,FM (POTTSVILLE GP)		CGL		160	EC	C	TBGR 01
PA 327	TUMBLING RUN,MBR (POTTSVILLE FM)	U						TBGR 02
CA 300+	TUMCO,FM		ARK			SE	C	TUMC 01
CA 400	TUMCO,FM							TUMC 02
CA 123	TUMEY,FM		SS		270	C	A	TUMY 01
CA 123	TUMEY,SS LENTIL (KREYENHAGEN FM)							TUMY 02
NY 341	TUNANGWANT,CGL MBR (CATTARAUGUS FM)				4	WC	B	TNNG 01
VT 340	TUNBRIDGE,GRANITE					C	A	TBDG 09
CA 210	TUNGSTEN HILLS,QUARTZ MONZONITE	U				C	D	TGHL 01
AZ 400	TUNGSTEN KING,GRANITE	U				SE	D	TGKG 01
NV 125	TUNGSTONIA,GRANITE					EC	E	TNGS 01
CA 121	TUNITAS,SS MBR (PURISIMA FM)				120	WC	C	TNTS 01
ME 341	TUNK LAKE,GRANITE					NW	D	TKLK 03
WI 371	TUNNEL CITY,GP		SED			C	D	TNLC 01
OR 112	TUNNEL CREEK,TILL					WC	C	TLCK 01
CA 120	TUNNEL PEAK,BRECCIA					C	C	TLPK 01
CA 120	TUNNEL PEAK,DACITE							TLPK 02
OR 123	TUNNEL POINT,FM				370	SW	A	TNLP 01
OR 123	TUNNEL POINT,SS	U						TNLP 02
UT 123	TUNNEL SPRING,TUFF	U		WH	350	WC	E	TSPG 17
WY 124	TUNP,MBR (WASATCH FM)	U	MS,CGL		>150	SW	E	TUNP 01
UT 211	TUNUNK,MBR (MANCOS SH)				120	SC	A	TNNK 01
CA 211	[TUOLUMNE,GP]					C	A	TLMN 08
CA 211	/TUOLUMNE,INTRUSIVE SER	U						TLMN 04
MS 212	TUPELO,TONGUE (COFFEE SAND)	U			30	NE	A	TUPL 01
AK 331	TUPIK,FM (LISBURNE GP)	U	LS		41	NC	D	TUPK 01
CA 121	TUPMAN,SH MBR (ETCHEGOIN FM)	U			400	SC	E	TPMN 01
NY 400	TUPPER,COMPLEX	U				NE	A	TPPR 01
NY 400	TUPPER,SYENITE							TPPR 02
TX 324	TURKEY CREEK,SS MBR (MINERAL WELLS FM)	U			3	C	A	TKCK 04
CO 430	TURKEY CREEK CANYON,FM		GN			NC	E	TKCC 01
VT 377	TURKEY MOUNTAIN,MBR (HOOSAC FM)		GNS		300	EC	C	TRKM 03
PA 344	TURKEY RIDGE,SS MBR (MAHANTANGO FM)				61	SC	A	TKRG 02
PA 344	TURKEY RIDGE,SS MBR (MARCELLUS SH)							TKRG 01
OK 322	TURKEY RUN,LS (ADA GP)				1	NE	A	TRKR 02
OK 322	TURKEY RUN,LS MBR (PAWHUSKA FM)	U						TRKR 01
AZ 123	TURKEY TRACK,ANDESITE				30	SE	D	TKTK 04
AZ 123	TURKEY TRACK,PORPHYRY							TKTK 05



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
MS 212	TUSCALOOSA,GP	U						TSCL 10
TN 211	TUSCALOOSA,GRAVEL	U						TSCL 14
CA 121	TUSCAN,FM	U	TF		300	NW	A	TSCN 01
OH 321	TUSCARAWAS,SH [BED] (ALLEGHENY FM)				<1	C	D	TSCR 02
PA 357	TUSCARORA,FM				460	SC	A	TCRR 10
VA 357	TUSCARORA,FM							TCRR 08
MD 357	TUSCARORA,QTZ	U						TCRR 11
PA 357	TUSCARORA,QTZ	U						TCRR 02
VA 357	TUSCARORA,QTZ	U						TCRR 04
MD 357	TUSCARORA,SS	U						TCRR 01
PA 357	TUSCARORA,SS	U						TCRR 03
VA 357	TUSCARORA,SS	U						TCRR 09
WV 357	TUSCARORA,SS	U						TCRR 06
UT 211	TUSCHER,FM (MESAVERDE GP)	U	SS		180	EC	A	TSCR 01
AL 331	TUSCUMBIA,LS	U			46	NW	A	TCMB 01
UT 123+	TUSHAR,CGL				20	SW	C	TSHR 01
UT 124	TUSHAR,CGL							TSHR 02
OK 331	TUSKAHOMA,MBR (STANLEY SH)					SE	C	TSKM 01
OK 331	[TUSKAHOMA,SH MBR (TENMILE CREEK FM)]							TSKM 04
OK 331	/TUSKAHOMA,SILICEOUS SH MBR (TENMILE CREEK FM)							TSKM 02
AZ 217	TUSONIMO,LS [BED] (PACHETA MBR OF LOWELL FM)				2	SE	C	TSNM 01
GA 377	TUSQUITEE,QTZ	U						TSQT 01
NC 377	TUSQUITEE,QTZ	U		WH	150	WC	A	TSQT 02
TN 377	TUSQUITEE,QTZ	U						TSQT 03
ID 317	TUSSING,SS				800	SE	E	TSNG 01
TX 124	TUTTLE,SS MBR (MANNING FM)				15	EC	C	TTTL 01
AK 224	TUXEDNI,GP	U	SS		340	C	A	TXDN 02
WI 430	TWELVE FOOT FALLS,QUARTZ DIORITE					NE	D	TVFF 01
UT 224	TWELVMILE CANYON,MBR (ARAPIEN SH)	U			2100	C	C	TVMC 02
CO 211	TWENTYMILE,SS (MESAVERDE GP)				61	NW	A	TNML 02
CO 211	TWENTYMILE,SS MBR (WILLIAM FORK FM)	U						TNML 03
GA 124	TWIGGS,CLAY	U			30	C	A	TGGS 01
CO 430	TWILIGHT,GNEISS	U				SW	A	TLGT 03
NY 341	TWILIGHT PARK,CGL				12	EC	C	TGPK 01
WY 124	TWIN BUTTES,MBR (BRIDGER FM)		SED			SW	A	TNBS 01
NV 377	TWIN CANYON,MBR (OSGOOD MOUNTAIN QTZ)	U	SH,QTZ		760	NC	D	TNCN 03
MN 112	TWIN CITIES,FM		TL		8	SE	D	TNCS 01
ID 224	TWIN CREEK,FM							TCRK 10
UT 224	TWIN CREEK,FM	U						TCRK 12
WY 224	TWIN CREEK,FM				1200	SW	A	TCRK 14



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
OR 124	TYEE MOUNTAIN, MBR (TYEE FM)		SS		460	WC	E	TMNN 01
IL 332	TYGETT, SS MBR (CLORE FM)				8	SC	D	TGTT 01
ND 327	TYLER, FM							TYLR 25
MT 327	TYLER, FM (AMSDEN GP)	U	SS		80	C	A	TYLR 11
MI 430	TYLER, FM (BARAGA GP)	U						TYLR 15
WI 430	TYLER, FM (BARAGA GP)	U			3400	NC	A	TYLR 16
TX 124	TYLER, GREENSAND MBR (SPARTA SAND)				15	EC	A	TYLR 01
OH 321	TYLER, RED BEDS (MONONGAHELA FM)				16	NC	A	TYLR 09
MI 430	TYLER, SLATE (BARAGA GP)	U						TYLR 23
WI 430	TYLER, SLATE (BARAGA GP)	U						TYLR 24
MT 327	TYLER, SS MBR (HEATH FM)							TYLR 12
MT 327	TYLER, SS MBR (QUADRANT FM)							TYLR 13
CT 304	TYLER LAKE, GRANITE					NW	D	TLLK 02
OH 351	TYMOCHTEE, FM (BASS ISLANDS GP)	U	SH		7	NC	A	TMCT 03
MI 351	TYMOCHTEE, FM (SALINA GP)							TMCT 02
SD 112	TYNDALL, SAND			WH	8	SE	E	TNDL 01
OK 361+	TYNER, FM	U	SS		30	NE	A	TYNR 01
OK 364	TYNER, FM	U						TYNR 02
AK 122	TYONEK, FM	U	SS		2300	C	A	TYNK 01
AK 122	TYONEK, FM (KENAI GP)							TYNK 01
MA 420	TYRINGHAM, GNEISS					WC	A	TRGM 01
KY 364	TYRONE, LS (HIGH BRIDGE GP)	U			27	C	A	TYRN 03
VA 364	TYRONE, MBR (HIGH BRIDGE LS)							TYRN 02
VT 377	TYSON, FM (CAMELS HUMP GP)		CGL		180	WC	C	TYSN 06
IL 364	TYSON, MBR (KINGS LAKE FM)							TYSN 04
MO 364	TYSON, MBR (KINGS LAKE FM)		LS		2	EC	D	TYSN 01
VT 377	TYSON, MBR (MONASTERY FM)							TYSN 03
TX 124	TYUS, MBR (WECHES FM)		MRL		5	EC	C	TYUS 01
NM 217	U-BAR, FM	U	LS		610	SW	C	UBAR 03
AZ 217	U-BAR, FM (BISBEE GP)							UBAR 01
NM 217	U-BAR, FM (BISBEE GP)							UBAR 02
AL 307	UCHEE, COMPLEX			MSED		EC	E	UCHE 01
GA 307	UCHEE, COMPLEX							UCHE 02
WY 111	UCROSS, FM	U	GVL			NC	C	UCRS 01
KS 317	UDALL, LS LENTIL (GEUDA SPRINGS MBR OF WELLINGTON FM)				1	SE	C	UDLL 01
PA 321	UFFINGTON, SH MBR (CONEMAUGH FM)	U						UFNG 05
WV 321	UFFINGTON, SH MBR (CONEMAUGH FM)	U			9	NC	A	UFNG 08
AZ 101	UINKARET, BASALT					NW	E	UNKR 01
UT 110	UINKARET, BASALT							UNKR 02
CO 124	UINTA, FM	U						UINT 01

UT	124	UINTA,FM	U	SH		550	NE	A	UINT	02
UT	420	UINTA MOUNTAIN,GP	U	QTZ	RD	>6300	NE	A	UNMN	02
CO	420	/UINTA MOUNTAIN,GP (UNDIVIDED)	U						UNMN	01
IL	333+	ULLIN,LS				240	SC	D	ULLN	01
IN	333+	ULLIN,LS							ULLN	02
IL	338	ULLIN,LS							ULLN	04
IN	338	ULLIN,LS							ULLN	03
MT	124	ULM,FM							ULM	01
WY	124	ULM,FM		SH,SS		30	NC	A	ULM	02
AR	218	ULTIMA THULE,GRAVEL MBR (HOLLY CREEK FM)	U			12	SW	A	ULMT	01
HI	112	ULUPAU,TUFF (HONOLULU GP)	U			150	NC	A	ULUP	01
WA	122	UMATILLA,MBR (YAKIMA BASALT)				87	SC	D	UMTL	01
ME	361	UMBAGOG,GRANODIORITE							UBGG	01
NH	361	UMBAGOG,GRANODIORITE (HIGHLANDCROFT GP)					NE	D	UBGG	02
VT	364	UMBRELLA HILL,FM	U	CGL		30	NC	C	UMBH	01
VT	364	UMBRELLA HILL,MBR (MISSISQUOI FM)							UMBH	02
CA	124	UMPQUA,FM	U						UMPQ	01
OR	124	UMPQUA,FM	U	SS,SH		550	SW	A	UMPQ	02
NY	341	UNADILLA,FM (GENESEE GP)		SS,SH			C	A	UNDL	01
AK	104+	UNALASKA,FM	U	VSED		17000	SC	D	ULSK	02
AK	107	UNALASKA,FM	U						ULSK	03
AK	112	UNALUK,DRIFT					C	D	UNLK	01
UT	331	UNCLE JOE,MBR (DESERET LS)	U			170	C	D	UCLJ	01
AZ	211	UNCLE SAM,PORPHYRY	U				SE	C	UCSM	01
CO	420+	UNCOMPAGRE,FM	U	QTZ		2400	SW	A	UMPG	01
CO	430	UNCOMPAGRE,FM	U						UMPG	02
NV	123	UNDERDOWN,TUFF				490	C	E	UDRD	02
VT	377	UNDERHILL,FM (CAMELS HUMP GP)	U	SCH			NC	D	UDRL	01
IN	339	UNDERWOOD,BED (CLEGG CREEK MBR OF NEW ALBANY SH)				<1	SE	C	UDRD	07
KY	339	UNDERWOOD,[BED] (NEW ALBANY SH)							UDRD	06
IN	339	UNDERWOOD,FM							UDRD	03
IN	339	UNDERWOOD,MBR (NEW ALBANY SH)							UDRD	04
MT	112	UNDINE FALLS,BASALT							UDFL	01
WY	112	UNDINE FALLS,BASALT	U			6	NW	E	UDFL	02
AK	122	UNGA,CGL MBR (BEAR LAKE FM)	U			61	SC	A	UNGA	01
AK	211+	UNGALIK,CGL	U			910	C	A	UGLK	01
AK	217	UNGALIK,CGL	U						UGLK	02
NC	377	UNICOI,FM (CHILHOWEE GP)	U						UNCO	03
TN	377	UNICOI,FM (CHILHOWEE GP)	U	SS		300	NE	A	UNCO	01
VA	377	UNICOI,FM (CHILHOWEE GP)	U						UNCO	02



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
WV 331	UNION,LS (GREENBRIER GP)				84	SC	A	UNON 09
ME 360+	UNION,MARBLE MBR (ST. GEORGE FM)					SC	D	UNON 06
ME 370	UNION,MARBLE MBR (ST. GEORGE FM)							UNON 07
VA 331	UNION,MBR (GREENBRIER LS)							UNON 03
LA 124	[UNION CHURCH,BEDS (TULLOS MBR OF YAZOO CLAY)]		ST		6	NC	C	UCRC 01
LA 124	/UNION CHURCH,TRANSITION PHASE (TULLOS MBR OF YAZOO CLAY)							UCRC 02
NV 344	UNION MOUNTAIN,FM (NEVADA GP)		DOL		250	NE	C	UNNM 02
NV 344	UNION MOUNTAIN,MBR (NEVADA FM)							UNNM 01
OR 112+	UNION PEAK,LAVA					SW	C	UNPK 01
OR 121	UNION PEAK,LAVA							UNPK 02
NY 344	UNION SPRINGS,MBR (MARCELLUS SH)	U			5	C	A	USPG 01
PA 344	UNION SPRINGS,MBR (MARCELLUS SH)	U						USPG 02
MO 323	UNION STATION,MBR (CHANUTE SH)				8	NW	C	UNNS 01
MD 321	[UNIONTOWN,FM]							UNNN 22
PA 321	UNIONTOWN,FM (MONONGAHELA GP)	U	SS,SH		19	SW	A	UNNN 10
WV 321	UNIONTOWN,FM (MONONGAHELA GP)	U						UNNN 20
OH 321	[UNIONTOWN,FM (MONONGAHELA GP)]							UNNN 21
OH 321	/UNIONTOWN,LS MBR (MONONGAHELA FM)							UNNN 05
WV 321	/UNIONTOWN,LS MBR (MONONGAHELA FM)							UNNN 16
OH 321	/UNIONTOWN,RED-BED MBR (MONONGAHELA FM)							UNNN 06
MD 321	/UNIONTOWN,SS MBR (MONONGAHELA FM)							UNNN 03
OH 321	/UNIONTOWN,SS MBR (MONONGAHELA FM)							UNNN 09
WV 321	/UNIONTOWN,SS MBR (MONONGAHELA FM)							UNNN 18
OK 328	UNION VALLEY,FM (SPRINGER GP)				74	EC	A	UNVL 02
OK 328	UNION VALLEY,MBR (GODDARD SH)							UNVL 04
OK 328	UNION VALLEY,SS							UNVL 05
OK 328	UNION VALLEY,SS MBR (WAPANUCKA LS)							UNVL 03
MT 211	UNIONVILLE,GRANODIORITE	U				WC	C	UNVL 01
AZ 400	UNITED VERDE,DIORITE					C	A	UDVD 01
NH 341	/UNITY,GP					SW	C	UNTY 01
NH 341	[UNITY,QUARTZ DIORITE (OLIVERIAN GP)]							UNTY 04
IN 324	UNIVERSAL,LS MBR (DUGGER FM)	U			1	WC	C	UVR L 01
LA 112	UNIVERSITY,SAND				48	C	E	UVR S 02
TX 218	UNIVERSITY MESA,MARL (FREDERICKSBURG GP)				15	WC	A	UVR M 01
AZ 420	UNKAR,GP (GRAND CANYON SUPERGROUP)	U	VSED	RD	210	NC	A	UNKR 03
SD 221	UNKPAPA,SS	U		VAR	69	SW	A	UKPP 01
WY 221	UNKPAPA,SS	U						UKPP 02
NM 364	UPHAM,DOL (MONTOKA GP)				24	SW	C	UPHM 06
TX 364	UPHAM,DOL (MONTOKA GP)	U						UPHM 04
NM 364	UPHAM,MBR (MONTOKA DOL)	U						UPHM 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 124	URBENO,FM		SH	RD,GN	91	SC	D	URBN 01
ID 374	UTE,LS	U						UTE 01
UT 374	UTE,LS	U			610	NC	A	UTE 02
NM 211	UTE CANYON,TONGUE (CLIFF HOUSE SS)	U			110	NW	C	UCNN 01
CO 123	UTE RIDGE,TUFF	U			200	SW	E	URDG 01
PA 361+	UTICA,FM							UTIC 14
PA 364	UTICA,FM							UTIC 15
MI 361+	UTICA,SH	U						UTIC 03
NY 361+	UTICA,SH	U		BK	23	C	A	UTIC 04
PA 361+	UTICA,SH	U						UTIC 07
MI 364	UTICA,SH	U						UTIC 09
NY 364	UTICA,SH	U						UTIC 10
PA 364	UTICA,SH	U						UTIC 13
WI 400	UTLEY,METARHYOLITE				30	SC	A	UTLY 01
MO 322	UTOPIA,LS MBR (HOWARD FM)	U						UTOP 03
IA 322	UTOPIA,MBR (HOWARD LS)							UTOP 01
KS 322	UTOPIA,MBR (HOWARD LS)	U			1	SE	A	UTOP 02
NE 322	UTOPIA,MBR (HOWARD LS)	U						UTOP 04
AK 337	UTUKOK,FM (LISBURNE GP)	U	LS		760	NC	D	UTKK 01
NV 107	UVADA,GRANITE					EC	E	UVAD 01
TX 121	UVALDE,GRAVEL	U			15	SC	A	UVLD 01
NM 123	UVAS,BASALT				44	SC	C	UVAS 01
CA 124	UVAS,CGL MBR (TEJON FM)	U			34	SC	C	UVAS 03
HI 111+	UWEKAHUNA,ASH [MBR] (PUNA BASALT)	U			2	SE	C	UKHN 01
HI 112	UWEKAHUNA,ASH [MBR] (PUNA BASALT)	U						UKHN 02
NC 370	UWHARRIE,FM	U	TF		6100	C	D	UHRR 01
AK 230	UYAK,FM	U	SH		6000	SC	E	UYAK 01
NM 312	VACA TRISTE,SS MBR (SALADO FM)			RD	3	SE	C	VCTR 03
TX 312	VACA TRISTE,SS MBR (SALADO FM)							VCTR 04
CA 124	VACAVILLE,SH		MS		120	WC	C	VCVL 01
NM 400	VADITO,FM		SCH		1400	NC	C	VDTO 01
NY 364	VALCOUR,FM (CHAZY GP)							VLCR 01
VT 364	VALCOUR,FM (CHAZY GP)				76	WC	A	VLCR 03
NY 364	VALCOUR,LS (CHAZY GP)							VLCR 02
VT 364	VALCOUR,LS (CHAZY GP)							VLCR 04
VT 364	VALCOUR,MBR (CHAZY LS)							VLCR 05
NV 367	VALDER,FM		VSED		30	NE	D	VLDR 01
WI 112	VALDERS,TILL			RD		EC	B	VLDR 02
AK 210	[VALDEZ,FM]		MET			EC	A	VLDZ 03
AK 210	/VALDEZ,GP	U						VLDZ 01

TX	318	VALE,FM (CLEAR FORK GP)	U	SH	RD	120	C	A	VALE	01
CA	341	VALENTINE,DOL MBR (SULTAN LS)							VLNN	07
NV	341	VALENTINE,DOL MBR (SULTAN LS)	U			120	SE	A	VLNN	09
NE	122	VALENTINE,FM (OGALLALA GP)		SS		69	NC	A	VLNN	02
SD	122	VALENTINE,FM (OGALLALA GP)							VLNN	04
PA	364	VALENTINE,MBR (BENNER FM)		LS		27	C	A	VLNN	18
PA	364	VALENTINE,MBR (CURTIN FM)							VLNN	16
PA	364	VALENTINE,MBR (LINDEN HALL FM)							VLNN	17
KS	122	VALENTINE,MBR (OGALLALA FM)							VLNN	01
NE	122	VALENTINE,MBR (OGALLALA FM)							VLNN	03
SD	122	VALENTINE,MBR (OGALLALA FM)							VLNN	05
CA	341	VALENTINE,MBR (SULTAN LS)							VLNN	08
NV	341	VALENTINE,MBR (SULTAN LS)	U						VLNN	10
TX	318	VALERA,SH (BELLE PLAINS GP)				12	C	A	VLER	01
TX	318	VALERA,SH MBR (BELLE PLAINS FM)	U						VLER	02
NM	121	VALLECITO,BASALT					NC	C	VLCT	01
CO	430	VALLECITO,CGL	U			610	SW	A	VLCT	02
NM	400	VALLECITOS,RHYOLITE				1200	NC	C	VLCS	01
NM	112	VALLE GRANDE,MBR (VALLES RHYOLITE)					NC	E	VLGD	01
CO	123+	VALLEJO,FM		ST,CL	RD	150	SC	C	VLLJ	01
CO	124	VALLEJO,FM							VLLJ	02
AK	344	VALLENAR,FM	U	LS		60	SE	A	VLNR	01
NM	112	VALLES,RHYOLITE (TEWA GP)	U				NC	D	VLLS	01
WV	341	VALLEY HEAD,SS				30	EC	A	VLHD	02
NY	112	VALLEY HEADS,DRIFT					WC	C	VLHD	01
TX	420	VALLEY SPRING,GNEISS (LLANO GP)	U			1800	C	A	VSPG	02
CA	122+	VALLEY SPRINGS,FM	U	VSED		160	C	A	VSPG	01
CA	123	VALLEY SPRINGS,FM	U						VSPG	03
GA	370	VALLEYTOWN,FM	U						VLTN	01
NC	370	VALLEYTOWN,FM	U	SCH		370	WC	A	VLTN	02
TN	370	VALLEYTOWN,FM	U						VLTN	03
PA	364	VALLEY VIEW,MBR (BENNER FM)				16	C	C	VLLV	03
PA	364	VALLEY VIEW,MBR (CURTIN LS)							VLLV	01
PA	364	VALLEY VIEW,MBR (LINDEN HALL FM)							VLLV	02
NM	361	VALMONT,DOL				69	SC	C	VLMM	03
CA	122	VALMONTE,DIATOMITE MBR (MONTEREY SH)	U			230	SC	A	VLMM	01
NV	361+	VALMY,FM	U	QTZ		910	NC	C	VLMY	01
NV	364	VALMY,FM	U						VLMY	02
NV	367	VALMY,FM	U						VLMY	03
NV	361+	VALMY,GP							VLMY	04

ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NV	364	VALMY,GP							VLMY 05
NV	367	VALMY,GP							VLMY 06
KS	322	VAHOOSA,FM	U						VMOS 01
OK	322	VAHOOSA,FM	U	CGL	RD	79	EC	A	VMOS 02
AZ	123	VANAR HILLS,VOLCS					SE	C	VRHL 01
CO	217	VAN BIBBER,SH MBR (SOUTH PLATTE FM)	U			15	NC	C	VBBR 01
AR	367	VAN BUREN,FM	U						VNBR 01
MO	367	VAN BUREN,FM (ARBUCKLE GP)	U			72	SE	A	VNBR 06
KS	367	VAN BUREN,FM (ARBUCKLE GP)	U						VNBR 02
OK	367	VAN BUREN,FM (ARBUCKLE GP)	U						VNBR 04
KS	367	VAN BUREN,MBR (GASCONADE DOL)							VNBR 03
MO	367	VAN BUREN,MBR (GASCONADE DOL)							VNBR 07
OK	367	VAN BUREN,MBR (GASCONADE DOL)							VNBR 05
OH	337	VANCEBURG,SS MBR (CUYAHOGA FM)				46	SC	A	VCBG 04
OH	337	VANCEBURG,STS MBR (LOGAN FM)							VCBG 05
NM	110	/VAN CLEVE,FLOW (CAPULIN BASALT)					NE	C	VCLV 01
NM	110	/VAN CLEVE,FLOW (CLAYTON BASALT)							VCLV 02
NM	110	[VAN CLEVE,MBR (CAPULIN BASALT)]							VCLV 03
NM	110	[VAN CLEVE,MBR (CLAYTON BASALT)]							VCLV 04
WI	112	VANDALIA,TILL							VNDL 03
IL	112	VANDALIA,TILL MBR (GLASFORD FM)				15	C	E	VNDL 02
WI	112	VANDALIA,TILL MBR (GLASFORD FM)							VNDL 04
SD	400	VANDERLEHR,FM	U	SCH		610	SW	E	VDRL 01
TN	327	VANDEVER,FM (CRAB ORCHARD MOUNTAINS GP)				61	C	A	VDVR 02
GA	327	VANDEVER,MBR (CRAB ORCHARD MOUNTAINS FM)	U						VDVR 01
TN	327	VANDEVER,MBR (CRAB ORCHARD MOUNTAINS FM)							VDVR 05
TN	327	VANDEVER,SH (LEE GP)	U						VDVR 04
OH	324	VANDUSEN,SH [MBR] (POTTSVILLE FM)				7	C	C	VNDS 01
NV	324	VAN DUZER,LS	U			2100	NC	D	VDZR 01
MO	420	VAN EAST,GP		IG			SE	D	VNES 01
OK	111+	VANHEM,FM	U						VNHM 02
OK	112	VANHEM,FM	U						VNHM 04
KS	111+	VANHEM,FM (SANBORN GP)	U	ST		21	SW	C	VNHM 01
KS	112	VANHEM,FM (SANBORN GP)	U						VNHM 03
AK	112	VAN HORN,FM		GVL		90	SE	D	VNHR 01
TX	400	VAN HORN,SS	U		RD	150	WC	A	VNHR 02
NC	410	VANN,QTZ (OCOEE SUPERGROUP)				430	NW	C	VANN 01
WI	371	VAN OSER,[BED] (JORDAN MBR OF TREMPPEALEU FM)							VOSR 03
MN	371	VAN OSER,MBR (JORDAN SS)				12	SC	C	VOSR 01
WI	371	VAN OSER,MBR (JORDAN SS)							VOSR 02

OK	322	VANOSS,FM (PONTOTOC GP)	U	CGL	200	SE	A	VNSS	01
OK	322	VANOSS,GP						VNSS	02
PA	324	VANPORT,LS (ALLEGHENY GP)	U		5	WC	A	VNPR	06
MD	324	VANPORT,LS MBR (ALLEGHENY FM)	U					VNPR	10
OH	324	VANPORT,LS MBR (ALLEGHENY FM)	U					VNPR	05
PA	324	VANPORT,LS MBR (ALLEGHENY FM)	U					VNPR	07
WV	324	VANPORT,LS MBR (ALLEGHENY FM)	U					VNPR	09
KY	324	VANPORT,LS MBR (BREATHITT FM)	U					VNPR	02
PA	324	VANPORT,LS MBR (CLARION FM)	U					VNPR	08
KY	324	VANPORT,LS MBR (CONEMAUGH FM)	U					VNPR	01
WA	122	VANTAGE,SS MBR (YAKIMA BASALT)	U		11	C	D	VNTG	01
OK	317	VAN VACTER,GYPSUM MBR (BLAINE FM)			15	C	C	VVCR	01
TX	318	VAN VACTER,GYPSUM MBR (BLAINE FM)						VVCR	02
TX	123	VAN VLECK,SAND			880	SE	C	VVCK	01
CA	122+	VAQUEROS,FM	U		610	WC	A	VQRS	01
CA	123	VAQUEROS,FM	U					VQRS	03
CA	122+	VAQUEROS,SS	U					VQRS	02
CA	123	VAQUEROS,SS	U					VQRS	04
CA	112+	VARIAN RANCH,BEDS (PASO ROBLES FM)		SD,GV	460	C	D	VRRC	01
CA	121	VARIAN RANCH,BEDS (PASO ROBLES FM)						VRRC	02
WA	112	VASHON,DRIFT	U		30	WC	A	VSHN	01
WA	112	VASHON,TILL						VSHN	03
CA	122+	VASQUEZ,FM	U	CGL	4000	SC	A	VSQZ	01
CA	123	VASQUEZ,FM	U					VSQZ	02
ME	340+	VASSALBORO,FM	U	SS		SC	A	VLBR	01
ME	350	VASSALBORO,FM	U					VLBR	02
MT	217	VAUGHN,MBR (BLACKLEAF FM)	U	CL,SS	30	NC	C	VGHN	01
LA	221	VAUGHN,TONGUE (TERRYVILLE SS)			28	NW	D	VGHN	03
CA	340+	VAUGHN GULCH,LS	U		460	EC	D	VGGC	01
CA	350	VAUGHN GULCH,LS	U					VGGC	02
MA	320	VAUGHN HILLS,MBR (WORCESTER FM)	U	QTZ		C	C	VGHL	01
WA	320+	VEDDER,GREENSTONE				CAN	A	VDDR	04
WA	330	VEDDER,GREENSTONE						VDDR	06
CA	122	VEDDER,SAND	U		26	SC	A	VDDR	01
AK	104	VEGA BAY,FM	U	VOL	610	SW	D	VGBY	01
AZ	211	VEKOL,FM	U	CGL	91	SC	D	VKOL	01
TX	124	VELENO,MBR (COOK MOUNTAIN FM)		SH,SS	240	SC	C	VLNO	02
IN	324	VELPEN,LS (CARBONDALE GP)			<1	SW	C	VLPN	01
IN	324	VELPEN,LS MBR (LINTON FM)						VLPN	02
CA	211	VENADO,FM		SS	100	NW	C	VNDO	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY 341	VENANGO,FM (CONEWANGO GP)							VNNG 01
PA 341	VENANGO,FM (CONEWANGO GP)		CGL			NW	A	VNNG 02
OH 344	VENICE,MBR (COLUMBUS LS)				6	NC	A	VNIC 01
TX 321	VENTIONER,BEDS (BRAD FM)		SS,SH		91	NC	A	VNNR 01
WA 211	VENTURA,FM		SS,SH	RD	610	NC	A	VNTR 03
LA 124	VERDA,MBR (YAZOO CLAY)				61	WC	C	VERD 02
AZ 121	VERDE,FM	U	SED		610	C	A	VERD 01
TX 310	VERDEN,SS	U						VRDN 05
OK 311	VERDEN,SS MBR (MARLOW FM)	U		RD	3	C	A	VRDN 04
IA 333	VERDI,MBR (ST. LOUIS LS)				30	SE	A	VRDI 02
MO 325	VERDIGRIS,FM (CABANISS GP)							VRDG 04
OK 325	VERDIGRIS,FM (CABANISS GP)				2	NE	A	VRDG 06
MO 325	VERDIGRIS,FM (CHEROKEE GP)							VRDG 08
KS 325	VERDIGRIS,LS MBR (CABANISS FM)	U						VRDG 02
KS 325	VERDIGRIS,LS MBR (CHEROKEE SH)							VRDG 03
OK 325	VERDIGRIS,LS MBR (SENORA FM)	U						VRDG 07
CO 112	VERDOS,ALLUVIUM	U				C	C	VRDS 01
NM 321	VEREDAS,GP		SED		38	C	C	VRDS 02
SD 211	VERENDRYE,BEDS (SULLY MBR OF PIERRE SH)				55	C	C	VRDR 01
SD 211	VERENDRYE,MBR (PIERRE SH)	U						VRDR 02
IL 325	VERGENNES,SS MBR (SPOON FM)	U			14	SC	A	VRGS 03
CO 211	VERMEJO,FM	U						VRMJ 01
NM 211	VERMEJO,FM	U	SS,SH		130	NE	A	VRMJ 02
MN 440	VERMILION,GRANITE	U				NC	A	VRML 01
IL 325	VERMILIONVILLE,SS LENTIL (CARBONDALE FM)	U			11	NC	A	VMLV 02
IL 325	VERMILIONVILLE,SS MBR (CARBONDALE FM)							VMLV 03
CA 221	VERMONT,QUARTZ DIORITE					SC	C	VRMN 01
CO 420	VERNAL MESA,QUARTZ MONZONITE	U				WC	A	VRML 01
MI 324	VERNE,LS MBR (SAGINAW FM)				1	SE	C	VERN 01
NY 351	VERNON,SH (SALINA GP)	U			46	C	A	VRNN 03
NY 351	VERNON,SH MBR (SALINA FM)							VRNN 04
IL 344	VERNON FORK,MBR (GRAND TOWER LS)							VRFK 02
IN 344	VERNON FORK,MBR (JEFFERSONVILLE LS)		DOL		5	WC	E	VRFK 01
VT 347	VERSHIRE,SCHIST	U				C	A	VRSR 01
NY 344	VESPER,BED (TULLY LS)		STS		<1	C	E	VSPR 01
OR 231	VESTER,FM	U	CGL		2400	C	D	VSTR 01
NV 224	VETA GRANDE,FM		VSED		1700	WC	D	VGRD 02
CO 321	VETA PASS,LS MBR (SANGRE DE CRISTO FM)				640	SC	A	VTPS 01
UT 110	VEYO,BASALT				18	SW	E	VEYO 01
AL 218	VICK,FM	U	SS,CL	RD	30	C	C	VICK 01





GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TX 324	VILLAGE BEND,LS MBR (MINERAL WELLS FM)							VGBD 01
TX 324	VILLAGE BEND,MBR (EAST MOUNTAIN FM)							VGBD 02
TX 124	VILLA NUEVA,SS (JACKSON GP)				19	SC A		VNLV 02
ME 347	VINALHAVEN,GRANITE					SC A		VNLV 01
ME 347	VINALHAVEN,RHYOLITE	U						VNLV 02
DE 125	VINCENTOWN,FM (RANCOCAS GP)	U						VNCN 04
MD 125	VINCENTOWN,FM (RANCOCAS GP)	U						VNCN 01
NJ 125	VINCENTOWN,FM (RANCOCAS GP)	U	SD,GLC		30	C A		VNCN 02
NV 123	VINDICATOR,RHYOLITE	U			61	C A		VOCR 02
CA 125	VINE HILL,SS				370	NW C		VNHL 01
MA 112	VINEYARD,FM	U	SED			SE A		VNRD 01
NY 112	VINEYARD,FM	U						VNRD 02
NV 361+	VININI,FM	U	SED			NC C		VINN 11
NV 364	VININI,FM	U						VINN 09
NV 367	VININI,FM	U						VINN 10
VA 231	VINITA,FM (NEWARK GP)		SH	BK	610	SE A		VINT 01
KS 322	VINLAND,SH MBR (STRANGER FM)	U			15	EC A		VNLD 01
MO 322	VINLAND,SH MBR (STRANGER FM)	U						VNLD 02
TX 212	VINSON,CHALK MBR (ATCO FM)							VNSN 01
TX 212	VINSON,FM (AUSTIN GP)							VNSN 02
MD 377	VINTAGE,DOL	U						VNTG 05
PA 377	VINTAGE,DOL	U			200	SE A		VNTG 02
VA 377	VINTAGE,DOL	U						VNTG 03
PA 377	VINTAGE,FM							VNTG 04
OH 337	VINTON,MBR (LOGAN FM)		SS		30	SC A		VNTN 02
KS 361+	VIOLA,LS	U						VIOL 01
OK 361+	VIOLA,LS	U			230	SE A		VIOL 02
KS 364	VIOLA,LS	U						VIOL 04
OK 364	VIOLA,LS	U						VIOL 05
OK 361+	VIOLA,LS (PATTERSON RANCH GP)							VIOL 03
OK 364	VIOLA,LS (PATTERSON RANCH GP)							VIOL 06
CA 121+	VIOLIN,BRECCIA (RIDGE BASIN GP)				8200	SC C		VOLN 01
CA 122	VIOLIN,BRECCIA (RIDGE BASIN GP)							VOLN 02
AZ 211	VIOPULI,IGNIMBRITE MBR (ROSKRUGE VOLCS)			RD		SC D		VPUL 02
UT 320+	VIPONT,LS				30	NW C		VPNT 01
UT 330	VIPONT,LS							VPNT 02
NM 211	VIRDEN,FM		SED		1200	NW C		VRDN 02
MT 211	VIRGELLE,MBR (EAGLE SS)	U			67	NC A		VRGL 02
WY 211	VIRGELLE,MBR (EAGLE SS)							VRGL 09
MT 211	VIRGELLE,SS (MONTANA GP)	U						VRGL 01

VA	400	/VIRGILINA,GP						SC	A	VRGL	06			
NC	400	VIRGILINA,GREENSTONE								VRGL	04			
VA	400	VIRGILINA,GREENSTONE								VRGL	07			
AZ	237	VIRGIN,FM								VRGN	03			
UT	237	VIRGIN,FM					65	SW	A	VRGN	05			
AZ	237	VIRGIN,LS MBR (MOENKOPI FM)	U							VRGN	04			
NV	237	VIRGIN,LS MBR (MOENKOPI FM)								VRGN	09			
UT	237	VIRGIN,LS MBR (MOENKOPI FM)	U							VRGN	06			
SD	211	VIRGIN CREEK,MBR (PIERRE SH)					68	NC	C	VGCK	01			
MN	430	VIRGINIA,ARGILLITE (ANIMIKIE GP)	U						NC	A	VRGN	10		
MN	430	VIRGINIA,FM (ANIMIKIE GP)									VRGN	08		
CA	201	VIRGINIA,QUARTZ HYPERSTHENE NORITE							SE	A	VRGN	01		
VA	400	VIRGINIA BLUE RIDGE,COMPLEX							SC	C	VGBR	01		
WA	210	VIRGINIAN RIDGE,FM							STS	NC	C	VGRG	01	
NV	122	VIRGIN VALLEY,FM					3700		NC	C	VGRG	01		
OR	122	VIRGIN VALLEY,FM					610		VSED,SH VAR	NW	A	VGVL	02	
AZ	430	VISHNU,SCHIST	U				300			NC	A	VSHN	02	
NM	120	/VISTA,GRANODIORITE PORPHYRY								SW	C	VIST	01	
CO	123	VISTA,MBR (WHITE RIVER FM)							ST	29	NE	C	VIST	03
NM	120	/VISTA,MONZONITE											VIST	02
CA	230	VITREFRAX,FM							SCH		SE	C	VRFX	01
WV	327	VIVIAN,SS [MBR] (POCOHONTAS FM)						11		SW	A	IVIV	02	
NY	367	VLY SUMMIT,MBR (GREAT MEADOWS FM)						13		NE	D	VLSM	01	
CA	211	VOLTA,FM (ORESTIMBA GP)							SED		C	C	VOLT	01
OR	221	VONDERGREEN HILL,PERIDOTITE					610			SW	D	VDGH	01	
TX	318	VOSS,SH MBR (BELLE PLAINS FM)	U				15			C	C	VOSS	01	
TN	324	VOWELL MOUNTAIN,FM						120		NE	C	VLMN	04	
TN	324	VOWELL MOUNTAIN,GP										VLMN	02	
MI	430	VULCAN,IRON-FORMATION (MENOMINEE GP)	U							WC	A	VLCN	01	
HI	112	WAAWAA,VOLCS MBR (HUALALAI BASALT)	U				270			SE	C	WAAW	02	
IN	354	WABASH,FM					55			SW	A	WBSH	01	
ME	340	WABASSUS,QUARTZ MONZONITE	U							EC	D	WBSS	01	
IA	322	WABAUNSEE,GP	U									WBNS	01	
KS	322	WABAUNSEE,GP	U						LS,SH	180	EC	A	WBNS	02
MO	322	WABAUNSEE,GP	U										WBNS	03
NE	322	WABAUNSEE,GP	U										WBNS	04
OK	322	WABAUNSEE,GP											WBNS	05
NC	121+	WACCAMAW,FM	U										WCCM	01
SC	121+	WACCAMAW,FM	U					4		EC	A		WCCM	02
NC	122	WACCAMAW,FM	U										WCCM	03

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
SC	122	WACCAMAW,FM	U						WCCM 04
AK	331+	WACHSMUTH,LS (LISBURNE GP)	U			370	NC	C	WCSM 01
AK	337	WACHSMUTH,LS (LISBURNE GP)	U						WCSM 02
KY	354	WACO,MBR (CRAB ORCHARD FM)		LS		1	EC	A	WACO 01
AL	400	WACOOCHEE,COMPLEX		SCH,GN			EC	E	WCCH 01
GA	400	WACOOCHEE,COMPLEX							WCCH 02
TX	364	WADDELL,SS				27	WC	C	WDDL 01
TX	364	WADDELL,SS MBR (MCLISH FM)							WDDL 02
MN	112	WADENA,DRIFT					WC	D	WDEN 01
MN	112	WADENA,TILL							WDEN 02
NC	410	WADING BRANCH,FM (SNOWBIRD GP)	U	STS		460	NW	C	WGBC 01
TN	410	WADING BRANCH,FM (SNOWBIRD GP)	U						WGBC 02
AK	341+	WADLEIGH,LS	U			300	SE	E	WDLG 01
AK	344	WADLEIGH,LS	U						WDLG 02
IL	112	WADSWORTH,TILL MBR (WEDRON FM)				2	NE	E	WDSR 01
SD	112	WAGNER,FM		SD	PK	18	SE	E	WGNR 02
AL	331	WAGNON,MBR (PRIDE MOUNTAIN FM)	U	LS,SH		21	NW	C	WGNN 01
MS	331	WAGNON,MBR (PRIDE MOUNTAIN FM)	U						WGNN 02
WY	124	WAGON BED,FM	U	SS		210	C	D	WGBD 01
UT	124	WAGONHOUND,MBR (UINTA FM)		SED			NE	A	WGND 01
CO	122	WAGONTONGUE,FM		SS,CL		150	C	C	WGNL 01
CA	123	WAGONWHEEL,FM	U	SS		140	SC	A	WGNL 01
TX	318	WAGON YARD,GYPSUM					NC	A	WGYD 01
TX	318	WAGON YARD,GYPSUM MBR (DOG CREEK SH)							WGYD 02
WA	112	WAHLUKE,FM		SD		5	C	C	WHLK 01
NV	122	WAHMONIE,FM	U	VOL		1100	C	C	WHMN 01
AK	324+	WAHOO,LS (LISBURNE GP)	U			420	NC	D	WHOO 04
AK	327	WAHOO,LS (LISBURNE GP)	U						WHOO 02
AK	331	WAHOO,LS (LISBURNE GP)	U						WHOO 03
TX	319	WAHS CREEK,SH [MBR] (MORAN FM)				8	NC	A	WCRK 05
NV	367	WAH WAH,LS (POGONIP GP)							WHWH 01
UT	367	WAH WAH,LS (POGONIP GP)	U			69	WC	C	WHWH 02
NV	123	WAH WAH SPRINGS,TUFF MBR (NEEDLES RANGE FM)							WHSP 02
UT	123	WAH WAH SPRINGS,TUFF MBR (NEEDLES RANGE FM)	U			240	SW	C	WHSP 01
UT	371	WAH WAH SUMMIT,FM		LS		300	SW	E	WWSM 01
UT	211	WAHWEAP,FM				400	SC	A	WHWP 01
UT	211	WAHWEAP,SS	U						WHWP 02
HI	112	[WAI AAKA,ANDESITE (HANA GP)]				9	EC	C	WAIK 02
HI	112	[WAI AAKA,BASALTIC ANDESITE (HANA GP)]	U						WAIK 01
HI	112+	[WAI ANAE,BASALT]				1200	NC	A	WINE 03



ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
TN	410	WALDEN CREEK,GP (OCOEE SUPERGROUP)	U	QTZ		2400	EC	C	WDCK 16
ME	347	WALDO,GRANITE					SC	C	WLDO 03
ME	340	WALDOBORO,GRANITE					SC	D	WLDB 01
TX	319	WALDRIP,SH (WICHITA GP)				61	C	A	WLDP 02
TX	319	WALDRIP,SH MBR (PUEBLO FM)	U						WLDP 01
TN	354	WALDRON,CLAY MBR (WAYNE FM)	U			2	EC	A	WLDR 12
IN	354	WALDRON,FM							WLDR 15
IN	354	WALDRON,SH	U						WLDR 10
KY	354	WALDRON,SH	U						WLDR 11
TN	354	WALDRON,SH (WAYNE GP)							WLDR 14
AK	367+	[WALES,FM]		LS		910	SE	A	WLES 05
AK	370	[WALES,FM]							WLES 04
AK	400	[WALES,FM]							WLES 06
AK	367+	/WALES,GP	U						WLES 02
AK	370	/WALES,GP	U						WLES 01
AK	400	/WALES,GP	U						WLES 03
UT	123	WALES CANYON,TUFF MBR (DRY HOLLOW FM)				200	SW	E	WLSC 01
IA	364	WALGREEN,MBR (GRAND DETOUR FM)							WLGR 02
IL	364	WALGREEN,MBR (GRAND DETOUR FM)		LS		2	NC	C	WLGR 01
MO	364	WALGREEN,MBR (GRAND DETOUR FM)							WLGR 03
AZ	410	WALHALLA,FM		SH	BK	61	NC	C	WLLL 01
NM	123	WALKER,ANDESITE BRECCIA (SIERRA BLANCA VOLCS)			RD	720	C	E	WLKR 03
CA	122+	WALKER,FM	U	SD,SH	GN	610	SC	A	WLKR 01
CA	123	WALKER,FM	U						WLKR 02
CA	124	WALKER,FM	U						WLKR 04
VA	364	WALKER MOUNTAIN,SS MBR (MOCCASIN FM)				4	SW	C	WLKM 01
CA	122	WALKER PLAIN,BASALT					NC	C	WLKP 01
CA	124	WALKUP,CLAY					NW	A	WLKP 02
IA	364	WALL,MBR (DUNLEITH FM)							WALL 02
IL	364	WALL,MBR (DUNLEITH FM)		DOL		3	NC	C	WALL 01
ID	420	WALLACE,FM (BELT SUPERGROUP)	U	QTZ		1200	NW	A	WLLC 02
MT	420	WALLACE,FM (BELT SUPERGROUP)	U						WLLC 03
WA	420	WALLACE,FM (BELT SUPERGROUP)	U						WLLC 04
VT	367	WALLACE CREEK,FM (BEEKMANTOWN GP)		LS,SH		76	NW	A	WCCK 10
AR	331	WALLACE CREEK,SH MBR (MARCELLA FM)			BK	18	NC	E	WCCK 06
WY	211	WALLACE CREEK,TONGUE (CODY SH)	U			55	C	D	WCCK 03
VT	377	WALLACE LEDGE,FM		SL	PR	30	WC	C	WCLG 01
UT	123	WALLACES PEAK,TUFF MBR (NEEDLES RANGE FM)				67	SW	E	WCPK 04
SD	211	WALL CREEK,MBR (CARLILE SH)							WLCK 12
WY	211	WALL CREEK,MBR (CARLILE SH)				30	NE	A	WLCK 13

WY	211	WALL CREEK,SS MBR (FRONTIER FM)	U						WLCK	14
VT	371	WALLINGFORD,DOL	U			91	SW	A	WGFD	01
VT	371	WALLINGFORD,MBR (DANBY FM)							WGFD	02
NY	354	WALLINGTON,LS (CLINTON GP)				5	WC	C	WLNG	04
NM	122	WALL LAKE,LATITE					SW	E	WLLK	03
CO	123	WALL MOUNTAIN,TUFF	U			27		C	WLMN	02
CT	361+	WALLOOMSAC,FM							WLMC	16
MA	361+	WALLOOMSAC,FM	U						WLMC	18
NY	361+	WALLOOMSAC,FM	U						WLMC	14
VT	361+	WALLOOMSAC,FM	U			240	SW	A	WLMC	10
CT	364	WALLOOMSAC,FM							WLMC	17
MA	364	WALLOOMSAC,FM	U						WLMC	05
NY	364	WALLOOMSAC,FM	U						WLMC	07
VT	364	WALLOOMSAC,FM	U						WLMC	09
NY	361+	WALLOOMSAC,SLATE	U						WLMC	15
NY	364	WALLOOMSAC,SLATE	U						WLMC	08
PA	351	[WALLPACK CENTER,FM]							WPKC	03
NJ	351	WALLPACK CENTER,MBR (DECKER FM)	U	SS		25	NC	D	WPKC	01
PA	351	WALLPACK CENTER,MBR (DECKER FM)	U						WPKC	02
AR	337	WALLS FERRY,LS	U			<1	NC	D	WLFR	01
AR	218	WALNUT,CLAY (FREDERICKSBURG GP)	U						WLNT	13
LA	218	WALNUT,CLAY (FREDERICKSBURG GP)	U						WLNT	14
OK	218	WALNUT,CLAY (FREDERICKSBURG GP)	U						WLNT	01
TX	218	WALNUT,CLAY (FREDERICKSBURG GP)	U			40	EC	A	WLNT	04
TX	218	WALNUT,FM (FREDERICKSBURG GP)	U						WLNT	12
OK	218	WALNUT,MARL (FREDERICKSBURG GP)							WLNT	02
TX	218	WALNUT,MARL (FREDERICKSBURG GP)							WLNT	05
TX	218	WALNUT,SHALY MBR (GOODLAND LS)	U						WLNT	06
NE	112	WALNUT CREEK,FM		ALV		7	SE	D	WLCK	02
AZ	220+	WALNUT GAP,FM	U			110	SE	D	WLGP	07
AZ	230	WALNUT GAP,FM	U						WLGP	08
AZ	220+	WALNUT GAP,VOLCS	U						WLGP	06
AZ	230	WALNUT GAP,VOLCS	U						WLGP	01
IL	344	WALNUT GROVE,LS MBR (LINGLE FM)				9	SC	E	WLGV	02
NM	120	WALNUT WELLS,MONZONITE					SW	C	WLWL	01
ND	111	WALSH,FM		CL,SD		7	NE	E	WLSH	01
DE	121	WALSTON,SILT	U						WLSN	05
MD	121	WALSTON,SILT	U			17	SE	C	WLSN	01
KS	325	WALTER JOHNSON,SS MBR (NOWATA SH)				3	SE	C	WLRJ	01
MO	325	WALTER JOHNSON,SS MBR (NOWATA SH)							WLRJ	02

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 325	WALTER JOHNSON,SS MBR (NOWATA SH)							WLRJ 03
IL 332	WALTERSBURG,FM	U			21	SE	A	WLBG 04
IN 332	WALTERSBURG,FM	U						WLBG 07
KY 332	WALTERSBURG,FM	U						WLBG 09
KY 332	WALTERSBURG,MBR (BUFFALO WALLOW FM)	U						WLBG 10
IL 332	WALTERSBURG,SS	U						WLBG 05
IN 332	WALTERSBURG,SS	U						WLBG 08
KY 332	WALTERSBURG,SS	U						WLBG 11
KY 332	WALTERSBURG,SS MBR (LEITCHFIELD FM)	U						WLBG 19
OR 121	WALTERS HILL,FM	U	CGL		120	NW	D	WLHL 02
MA 400	WALTHAM,GNEISS	U				NC	A	WLTM 02
CA 211	WALTHAM,SH (PANOCHÉ GP)					WC	C	WLTM 01
CA 211	WALTHAM,SH MBR (WALTHAM CANYON FM)							WLTM 03
CA 211	WALTHAM CANYON,FM		MS		1700	WC	D	WLMC 02
WY 125	WALTMAN,SH MBR (FORT UNION FM)	U			200	C	D	WLMN 01
NY 341	WALTON,FM		SS		550	SE	D	WLTN 01
PA 341	WALTON,GP							WLTN 03
MO 322	WAMEGO,SH MBR (ZEANDALE FM)							WMGO 05
KS 322	WAMEGO,SH MBR (ZEANDALE LS)	U			5	NE	C	WMGO 02
MA 320	WAMSUTTA,FM	U	SS	RD	300	C	A	WMST 01
RI 320	WAMSUTTA,FM	U						WMST 02
NY 344	WANAKAH,FM				9	WC	A	WNKH 03
CO 224	WANAKAH,FM (SAN RAFAEL GP)	U	SH		38	SW	A	WNKH 01
NM 224	WANAKAH,FM (SAN RAFAEL GP)	U						WNKH 02
NY 344	WANAKAH,SH MBR (LUDLOWVILLE FM)							WNKH 04
OK 323	WANN,FM (OCHELATA GP)	U	SH		82	NE	A	WANN 01
UT 123	WANRHODES,TUFF				150	NC	C	WRDS 01
UT 211	WANSHIP,FM		SS,SH		640	NC	C	WNPS 02
OK 324+	WAPANUCKA,LS	U		WH	61	SE	A	WPCK 07
OK 328	WAPANUCKA,LS	U						WPCK 01
OK 324+	WAPANUCKA,MBR (GODDARD SH)							WPCK 06
OK 328	WAPANUCKA,MBR (GODDARD SH)							WPCK 05
ID 111	[WAPI,BASALT]					SC	D	WAPI 02
ID 111	/WAPI,LAVA FLOW							WAPI 01
MT 211	WAPIABI,FM		SH		640	CAN	A	WPIB 01
MT 124	WAPITI,FM (SUNLIGHT GP)	U						WPIT 01
WY 124	WAPITI,FM (SUNLIGHT GP)	U	VOL,CST		1160	NW	E	WPIT 02
NY 367+	WAPPINGER,GP				300	SE	B	WPGR 01
NY 371	WAPPINGER,GP							WPGR 02
NY 367+	WAPPINGER,LS							WPGR 03

NY	371	WAPPINGER,LS											WPGR	04
IA	344	WAPSIPINICON,LS											WPPC	05
IL	344	WAPSIPINICON,LS											WPPC	06
CT	307	WARAMAUG,FM											WRMG	02
TN	364	WARD,MBR (CANNON LS)											WARD	02
VA	364	WARD COVE,LS (CLIFFFIELD GP)											WDCV	03
VA	364	WARD COVE,LS MBR (CLIFFFIELD FM)											WDCV	04
TN	364	WARDELL,FM											WRDL	03
VA	364	WARDELL,FM											WRDL	04
VA	364	WARDELL,LS											WRDL	05
WA	121+	WARD GAP,MBR (YAKIMA BASALT)											WDGP	02
WA	122	WARD GAP,MBR (YAKIMA BASALT)											WDGP	04
UT	320+	WARDLAW,SH											WRDL	01
UT	330	WARDLAW,SH											WRDL	02
MA	307	WARE,SCHIST											WARE	01
WV	324	WAR EAGLE,SS [MBR] (KANAWHA FM)											WEGL	03
AL	307	WARESVILLE,FM (DADEVILLE COMPLEX)											WRVL	08
GA	307	WARESVILLE,FM (DADEVILLE COMPLEX)											WRVL	09
SC	124	WARLEY HILL,FM (ORANGEBURG GP)											WLHL	03
SC	124	WARLEY HILL,MARL											WLHL	04
MN	430	WARMAN,QUARTZ MONZONITE											WRMN	03
MT	211	WARM CREEK,SH (COLORADO GP)											WMCK	02
NM	324	WARMINGTON,LS MBR (ELEPHANT BUTTE FM)											WRMG	01
ID	200	WARM LAKE,QUARTZ MONZONITE											WMLK	02
CA	237	WARM SPRING,FM											WSPG	14
OR	224	WARM SPRINGS,MBR (SNOWSHOE FM)											WSPG	13
CA	121	WARM SPRINGS,TUFF MBR (ALTURAS FM)											WSPG	07
CA	121	WARNER,BASALT											WRNR	01
KS	325	WARNER,FM (CHEROKEE GP)											WRNR	05
MO	325	WARNER,FM (CHEROKEE GP)											WRNR	09
MO	325	WARNER,FM (KREBS GP)											WRNR	06
KS	325	WARNER,SS MBR (KREBS FM)											WRNR	10
OK	325	WARNER,SS MBR (MCALESTER FM)											WRNR	07
OK	325	WARNER,SS MBR (MCALESTER SH)											WRNR	08
TN	327	WARREN POINT,SS (GIZZARD GP)											WRNP	02
GA	327	WARREN POINT,MBR (GIZZARD FM)											WRNP	01
TN	327	WARREN POINT,SS MBR (GIZZARD FM)											WRNP	05
MO	323	WARRENSBURG,SS [MBR] (PLEASANTON FM)											WRBG	02
AZ	104	WARRENS RANCH,LATITE											WRRC	01
VA	420	WARRENTON,AGGLOMERATE MBR (CATOCTIN FM)											WRNN	01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
PA 371	WARRIOR,LS	U		BL	370	C	A	WRRR 01
IL 333	WARSAW,FM	U				WC	A	WRSW 02
KY 333	WARSAW,FM	U						WRSW 10
KS 331	WARSAW,LS	U						WRSW 05
IA 333	WARSAW,LS	U						WRSW 01
IL 333	WARSAW,LS	U						WRSW 03
KY 333	WARSAW,LS	U						WRSW 06
MO 333	WARSAW,LS	U						WRSW 07
TN 333	WARSAW,LS	U						WRSW 09
IL 333	WARSAW,SH	U						WRSW 04
MO 333	WARSAW,SH	U						WRSW 08
TN 324	WARTBURG,SS	U			12	C	A	WRBG 03
TN 324	WARTBURG,SS (CROOKED FORK GP)							WRBG 04
TN 324	WARTBURG,SS MBR (BRICEVILLE FM)							WRBG 05
CO 124+	WASATCH,FM	U						WSTC 02
ID 124+	WASATCH,FM							WSTC 03
MT 124+	WASATCH,FM	U						WSTC 04
UT 124+	WASATCH,FM	U	SD,CL	VAR	1500	NC	A	WSTC 06
WY 124+	WASATCH,FM	U						WSTC 08
CO 125	WASATCH,FM	U						WSTC 11
ID 125	WASATCH,FM							WSTC 12
MT 125	WASATCH,FM	U						WSTC 13
UT 125	WASATCH,FM	U						WSTC 15
WY 125	WASATCH,FM	U						WSTC 17
IL 112	WASCO,MBR (HENRY FM)		SD,GVL		5	NE	E	WSCO 01
WY 124	WASHAKIE,FM	U	CL,SD			SC	A	WSHK 01
WY 112	WASHAKIE POINT,TILL	U			7	WC	D	WSPK 01
WI 420	WASHBURN,BEDS (CHEQUAMEGON SS)					NW	A	WSBR 20
MT 124	WASHBURN,GP (ABSAROKA SUPERGROUP)	U						WSBR 02
WY 124	WASHBURN,GP (ABSAROKA SUPERGROUP)	U	VOL		910	NW	E	WSBR 03
AL 301	WASH CREEK,SLATE	U			1500	C	A	WCRK 04
AL 301	WASH CREEK,SLATE (TALLADEGA GP)							WCRK 14
OR 111	WASHINGTON,ASH					SW	D	WSNG 05
WA 111	WASHINGTON,ASH							WSNG 06
OH 317	WASHINGTON,FM (DUNKARD GP)	U						WSNG 12
PA 317	WASHINGTON,FM (DUNKARD GP)	U	SH,SS		57	SW	A	WSNG 15
WV 317	WASHINGTON,FM (DUNKARD GP)	U						WSNG 18
MA 420	WASHINGTON,GNEISS	U			600	SW	A	WSNG 23
ME 350	WASHINGTON,QTZ				370	SC	D	WSNG 21
NV 121	WASHINGTON HILL,RHYOLITE	U				WC	C	WGHL 02

OK	323	WASHINGTON IRVING,SS MBR (WANN FM)			27	NE	C	WGIV	01		
MI	420	[WASHINGTON ISLAND,BASALT (PORTAGE LAKE VOLCS)]			60	NW	E	WGID	02		
MI	420	/WASHINGTON ISLAND,FLOW (PORTAGE LAKE VOLCS)	U					WGID	01		
OH	324	WASHINGTONVILLE,MBR (ALLEGHENY FM)		SH				WGVL	03		
PA	324	WASHINGTONVILLE,MBR (ALLEGHENY FM)				2	NE	A	WGVL	04	
WV	324	WASHINGTONVILLE,MBR (ALLEGHENY FM)						WGVL	05		
AR	213+	WASHITA,GP	U					WSHT	01		
OK	213+	WASHITA,GP	U	LS,SS			SE	A	WSHT	03	
TX	213+	WASHITA,GP	U					WSHT	04		
AR	218	WASHITA,GP	U					WSHT	05		
OK	218	WASHITA,GP	U					WSHT	07		
TX	218	WASHITA,GP	U					WSHT	08		
WA	111	WASHTUCNA,GRAVEL					SE	D	WSCN	01	
CO	123	WASON PARK,TUFF	U			210	SW	D	WPRK	01	
TX	123	WASP SPRING,FLOW BRECCIA MBR (SOUTH RIM FM)				110	SW	D	WPSP	01	
SC	121	WASSAMASSAW SWAMP,MBR (WICOMICO FM)		SD				SE	D	WMSP	01
ME	364	WASSATAQUOIK,CHERT	U			460	EC	D	WSGK	02	
CA	123	WASSON,FM (LITTLE BUTTE VOLCS)							WSSN	14	
OR	123	WASSON,FM (LITTLE BUTTE VOLCS)	U			240	SW	C	WSSN	01	
IA	339	WASSONVILLE,LS MBR (HAMPTON FM)				11	SE	A	WSVL	02	
NV	122	WASSUK,GP		SED		2500	WC	C	WSSK	02	
VA	364	WASSUM,FM		MBL		46	SW	C	WSSM	01	
AZ	324+	WATAHOMIGI,FM (SUPAI GP)	U	LS		66	NW	E	WTMG	01	
AZ	327	WATAHOMIGI,FM (SUPAI GP)	U						WTMG	02	
OR	112	WATCHMAN,ANDESITE				150	SW	C	WCMN	01	
KS	331	WATCHORN,FM	U	LS		210	SW	C	WCRN	01	
NJ	231	WATCHUNG,BASALT (NEWARK GP)	U				NE	A	WCNG	01	
NY	231	WATCHUNG,BASALT (NEWARK GP)	U						WCNG	02	
AK	121+	WATERBOOT,BASALT	U		BK	30	C	C	WTRB	01	
AK	122	WATERBOOT,BASALT	U						WTRB	02	
CT	400	WATERBURY,GNEISS	U					C	A	WRBR	01
ID	347	WATER CANYON,FM	U							WRCN	01
UT	347	WATER CANYON,FM	U	DOL		170	NC	C	WRCN	02	
AK	230	WATERFALL,GREENSTONE (KELP BAY GP)	U				SE	D	WRF1	01	
WI	430	WATERLOO,QTZ	U				SE	A	WTRL	01	
CA	400	WATERMAN,GNEISS	U			1200	SE	C	WRMN	02	
NV	301+	WATERPIPE CANYON,FM		STS		210	NE	D	WPPC	03	
NV	340	WATERPIPE CANYON,FM							WPPC	04	
AZ	110+	WATER TANK,CGL					SE	D	WRTK	01	
AZ	120	WATER TANK,CGL							WRTK	02	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	364	WATERTOWN,LS (BLACK RIVER GP)	U			3	NC	A	WTRN 01
NY	364	WATERTOWN,MBR (CHAUMONT FM)							WTRN 02
ME	350	WATERVILLE,FM	U	SH			SC	A	WRVL 10
IA	111	WATKINS,MBR (DE FOREST FM)	U	ST,SD		4	WC	D	WKNS 01
OK	317	WATONGA,DOL BED (DOG CREEK SH)				2	NC	D	WTNG 01
NH	227*	WATSON LEDGE,QUARTZ SYENITE (WHITE MOUNTAIN GP)					C	C	WLDG 01
NH	231	WATSON LEDGE,QUARTZ SYENITE (WHITE MOUNTAIN GP)							WLDG 02
UT	364	WATSON RANCH,QTZ	U			74	WC	C	WSRC 06
UT	364	WATSON RANCH,TONGUE (SWAN PEAK QTZ)							WSRC 05
ID	224	WATTON CANYON,MBR (TWIN CREEK LS)	U						WNCN 01
UT	224	WATTON CANYON,MBR (TWIN CREEK LS)	U			120	NC	D	WNCN 02
WY	224	WATTON CANYON,MBR (TWIN CREEK LS)	U						WNCN 03
TX	319	WATTS CREEK,SH MBR (MORAN FM)	U			23	NC	A	WCRK 06
WI	351	WAUBAKEE,DOL	U			4	SE	A	WUBK 01
CA	110	WAUCOBA,LAKE BEDS					EC	C	WUCB 01
IA	357	WAUCOMA,LS				6	NE	A	WUCM 01
IL	111	WAUKEGAN,MBR (LAKE MICHIGAN FM)		ST		<1	NE	E	WKGN 01
MI	111	WAUKEGAN,MBR (LAKE MICHIGAN FM)							WKGN 02
WI	111	WAUKEGAN,MBR (LAKE MICHIGAN FM)							WKGN 03
WI	354	WAUKESHA,DOL				76	SE	A	WKSH 02
WI	354	WAUKESHA,LS							WKSH 03
WI	430	WAUPEE,VOLCS					NE	D	WUPE 01
WI	400	WAUSAU,GRAYWACKE					C	A	WUSU 02
MI	430	[WAUSECA,MBR (DUNN CREEK SLATE)]				9	NW	C	WUSC 02
MI	430	/WAUSECA,PYRITIC MBR (DUNN CREEK SLATE)	U						WUSC 01
NY	351	WAWARSING,FM				29	SE	E	WRSG 01
PA	351	WAWARSING,FM							WRSG 03
NY	351	WAWARSING,LS (SALINA GP)							WRSG 02
AL	301	WAXAHATCHEE,SLATE	U			1500	C	A	WXTC 01
AL	301	WAXAHATCHEE,SLATE (TALLADEGA GP)							WXTC 03
ID	217	WAYAN,FM	U	SS,SH		3600	SE	A	WAYN 01
TX	321	WAYLAND,SH (CISCO GP)				26	C	A	WLND 06
TX	321	WAYLAND,SH (GRAHAM GP)							WLND 04
TX	321	WAYLAND,SH MBR (GRAHAM FM)	U						WLND 05
MS	354	WAYNE,FM	U						WYNE 01
TN	354	WAYNE,FM	U	LS		41	SW	A	WYNE 03
TN	354	WAYNE,GP							WYNE 04
MD	377	WAYNESBORO,FM	U						WSBR 14
PA	377	WAYNESBORO,FM	U	SH		180	SC	A	WSBR 15
VA	377	WAYNESBORO,FM	U						WSBR 16



ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO	317+	WEBER,QTZ	U						WEBR 02
UT	317+	WEBER,QTZ	U						WEBR 05
WY	317+	WEBER,QTZ	U						WEBR 07
CO	321	WEBER,QTZ	U						WEBR 09
UT	321	WEBER,QTZ	U						WEBR 12
WY	321	WEBER,QTZ	U						WEBR 14
UT	324	WEBER,QTZ	U						WEBR 18
WY	324	WEBER,QTZ	U						WEBR 16
CO	317+	WEBER,SS	U						WEBR 03
UT	317+	WEBER,SS	U						WEBR 06
WY	317+	WEBER,SS	U						WEBR 08
CO	321	WEBER,SS	U						WEBR 10
UT	321	WEBER,SS	U						WEBR 13
WY	321	WEBER,SS	U						WEBR 15
UT	324	WEBER,SS	U						WEBR 19
WY	324	WEBER,SS	U						WEBR 17
OR	224	WEBERG,MBR (SNOWSHOE FM)	U	LS		83	C C		WBRG 02
WV	331	WEBSTER SPRINGS,SS MBR (BLUEFIELD FM)				46	C A		WBSP 01
LA	124	WECHES,FM (CLAIBORNE GP)							WCHS 03
TX	124	WECHES,FM (CLAIBORNE GP)				14	EC A		WCHS 04
LA	124	WECHES,GREENSAND (CLAIBORNE GP)	U						WCHS 02
TX	124	WECHES,GREENSAND (CLAIBORNE GP)	U						WCHS 01
TX	318	WEDIN,MBR (CATHEDRAL MOUNTAIN FM)	U	LS		6	WC D		WDIN 01
AR	331	WEDINGTON,SS MBR (FAYETTEVILLE SH)	U			46	NW A		WDNG 01
OK	331	WEDINGTON,SS MBR (FAYETTEVILLE SH)	U						WDNG 02
AL	304	WEDOWEE,FM	U	MSED		3000	EC A		WDOW 02
GA	304	WEDOWEE,FM							WDOW 03
AL	304	WEDOWEE,GP							WDOW 01
IL	112	WEDRON,FM		TL		19	NE E		WDRN 01
IN	112	WEDRON,FM							WDRN 03
MI	112	WEDRON,FM							WDRN 04
WI	112	WEDRON,FM							WDRN 02
IN	338	WEED PATCH,MBR (EDWARDSVILLE FM)		LS		2	C A		WDPC 01
UT	371+	WEEKS,LS	U			420	WC A		WEKS 01
UT	374	WEEKS,LS	U						WEKS 02
NE	322	WEEPING WATER,MBR (OREAD LS)				3	SE A		WPGW 02
OH	321	WEGEE,LS MBR (WAYNESBURG FM)	U			4	EC A		WEGE 04
PA	321	WEGEE,LS MBR (WAYNESBURG FM)							WEGE 02
WV	321	WEGEE,LS MBR (WAYNESBURG FM)							WEGE 06
NC	410	WEHUTTY,FM	U	MSED		>1200	WC E		WTTY 04

TN	410	WEHUTTY,FM								WTTY	03
NC	410	WEHUTTY,FM (GREAT SMOKY GP)								WTTY	01
TN	410	WEHUTTY,FM (GREAT SMOKY GP)								WTTY	02
PA	357+	WEIDERS,MBR (SHAWANGUNK FM)			U	CGL,QTZ	57	EC	E	WDRS	12
PA	361	WEIDERS,MBR (SHAWANGUNK FM)								WDRS	14
MO	325	WEIR,FM (CABANISS GP)								WEIR	02
OK	325	WEIR,FM (CABANISS GP)								WEIR	03
KS	325	WEIR,FM (CHEROKEE GP)				SH	11	SE	C	WEIR	01
MO	325	WEIR,FM (CHEROKEE GP)								WEIR	04
OH	361	WEISBURG,MBR (WHITEWATER FM)				SED		SW	C	WBRG	31
AL	377	WEISNER,FM			U		120	NE	A	WSNR	02
GA	377	WEISNER,FM			U					WSNR	04
AL	377	WEISNER,QTZ			U					WSNR	03
GA	377	WEISNER,QTZ			U					WSNR	05
PA	344	WEISSPORT,MBR (TULLY FM)				SH	12	EC	C	WSPR	01
CA	217+	WEITCHPEC,SCHIST						NW	A	WCPC	01
CA	221	WEITCHPEC,SCHIST								WCPC	02
WV	327	WELCH,SS [MBR] (NEW RIVER FM)					210	SW	A	WLCH	03
CA	124	WELCOME,FM					180	C	C	WLCM	01
CA	124	WELCOME,SH MBR (KREYENHAGEN FM)			U					WLCM	02
OK	337	WELDEN,LS			U		3	SC	A	WLDN	01
TX	371	WELGE,SS MBR (WILBERNS FM)			U		8	C	C	WELG	01
TX	124	WELLBORN,FM (JACKSON GP)					52	EC	A	WLBR	04
TX	124	WELLBORN,SS (JACKSON GP)			U					WLBR	01
PA	321	WELLERSBURG,LS [BED] (CONEMAUGH FM)					7	SW	A	WLBG	03
PA	321	[WELLERSBURG,MBR (CONEMAUGH FM)]								WLBG	20
AK	330	WELLESLEY,FM			U	SL	610	C	A	WLSL	01
OK	317	WELLINGTON,FM			U					WLNQ	03
KS	317	WELLINGTON,FM (SUMNER GP)			U	SH	140	SC	A	WLNQ	02
ID	317+	WELLS,FM			U	LS,SS	730	SE	A	WLLS	04
UT	317+	WELLS,FM			U					WLLS	05
WY	317+	WELLS,FM			U					WLLS	06
ID	321	WELLS,FM			U					WLLS	07
UT	321	WELLS,FM			U					WLLS	08
WY	321	WELLS,FM			U					WLLS	09
WY	324	WELLS,FM			U					WLLS	15
PA	341	WELLSBURG,FM								WLBG	15
NY	341	WELLSBURG,FM (CHEMUNG GP)					200	C	A	WLBG	13
NY	341	WELLSBURG,SS MBR (CHEMUNG FM)			U					WLBG	14
PA	341	WELLSBURG,SS MBR (CHEMUNG FM)			U					WLBG	16

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
WA 224	WELLS CREEK, VOLCS				1100	NC	D	WLCK 15
NY 341	WELLSVILLE, FM (CHADAKOIN GP)		SS		61	WC	C	WLVL 01
NY 341	WELLSVILLE, FM (CONNEAUT GP)							WLVL 02
NY 341	WELLSVILLE, MBR (CHADAKOIN FM)							WLVL 03
WA 207+	WENATCHEE RIDGE, GNEISS					NC	D	WCRG 02
WA 301	WENATCHEE RIDGE, GNEISS							WCRG 03
NV 341+	WENBAN, LS	U			610	NC	D	WNBN 01
NV 344	WENBAN, LS	U						WNBN 02
NV 347	WENBAN, LS	U						WNBN 03
ID 112	WENDELL GRADE, BASALT (SNAKE RIVER GP)	U		BK	8	SC	A	WDGD 01
SD 321	[WENDOVER, FM]							WDVR 06
SD 321	WENDOVER, GP							WDVR 02
NE 317+	WENDOVER, MBR (HARTVILLE FM)							WDVR 04
WY 321	WENDOVER, MBR (HARTVILLE FM)		LS, CST		32	SE	C	WDVR 03
NE 322	WENDOVER, MBR (HARTVILLE FM)							WDVR 05
MA 344	WENHAM, MONZONITE	U				NE	D	WNHM 01
OK 218	WENO, CLAY (WASHITA GP)							WENO 01
TX 218	WENO, CLAY (WASHITA GP)	U			28	NE	A	WENO 04
OK 218	WENO, CLAY MBR (BOKCHITO FM)							WENO 13
OK 218	WENO, LS (WASHITA GP)							WENO 02
TX 218	WENO, LS (WASHITA GP)	U						WENO 05
TX 218	WENO, MBR (GEORGETOWN LS)							WENO 06
DE 211	WENONAH, FM (MATAWAN GP)	U						WNNH 01
NJ 211	WENONAH, FM (MATAWAN GP)	U	SD		18	WC	A	WNNH 03
CT 340+	WEPAWAUG, SCHIST	U				SC	D	WPAW 01
CT 350	WEPAWAUG, SCHIST	U						WPAW 02
AZ 211	WEPO, FM (MESAVARDE GP)	U	STS		200	NE	C	WEPO 01
AR 224	WERNER, FM	U	ANH		34	SC	C	WRNR 02
LA 224	WERNER, FM	U						WRNR 03
MS 224	WERNER, FM	U						WRNR 04
TX 224	WERNER, FM							WRNR 11
MT 420	WERNER PEAK, FM (BELT SUPERGROUP)		MET		370	NW	D	WRPK 01
AZ 321	WESCOGAME, FM (SUPAI GP)	U	SS		61	NW	E	WCGM 01
KS 211	WESKAN, MBR (PIERRE SH)				52	WC	A	WSKN 01
ME 364	WESKEAG, QTZ MBR (ROCKLAND FM)	U			91	SC	A	WSKG 01
OK 328	WESLEY, FM (JACKFORK GP)		SH		150	SE	C	WSLY 01
OK 328	WESLEY, SH (JACKFORK GP)							WSLY 02
OH 361	WESSELMAN, TONGUE (KOPE FM)		LS		9	SW	D	WSLM 01
AR 221	WESSON, TONGUE (DORCHEAT MBR OF SCHULER FM)		SH		49	SC	C	WSSN 02
LA 221	WESSON, TONGUE (DORCHEAT MBR OF SCHULER FM)							WSSN 03

TX	221	WESSON,TONGUE (DORHEAT MBR OF SCHULER FM)										WSSN	04
OK	325	WEST ARM,FM (DEESE GP)		SED		270	SE	C				WARM	01
IL	332	WEST BADEN,GP										WSBD	01
IN	332	WEST BADEN,GP		LS		41	SC	C				WSBD	02
MA	410	WESTBORO,QTZ				910	C	A				WSBR	18
KS	317	WEST BRANCH,MBR (JANESVILLE SH)	U									WBRC	02
NE	317	WEST BRANCH,MBR (JANESVILLE SH)	U			8	SE	A				WBRC	06
KS	317	WEST BRANCH,SH (ADMIRE GP)										WBRC	01
NE	317	WEST BRANCH,SH (ADMIRE GP)										WBRC	03
ME	307+	WESTBROOK,GRANITE	U					SW	A			WBRC	01
ME	340	WESTBROOK,GRANITE	U									WBRC	02
NY	344	WEST BROOK,MBR (TULLY LS)		SH		9	C	A				WBRC	03
MN	112	WEST CAMPUS,SAND				3	SE	D				WCMP	01
UT	327	WEST CANYON,LS (OQUIRRH GP)	U			450	C	C				WSCN	02
UT	327	WEST CANYON,LS MBR (OQUIRRH FM)										WSCN	03
NY	374+	WEST CASTLETON,FM										WSCL	01
VT	374+	WEST CASTLETON,FM		STS				WC	C			WSCL	03
NY	377	WEST CASTLETON,FM										WSCL	05
VT	377	WEST CASTLETON,FM										WSCL	07
AK	110	WEST COVE,MBR (LITTLE SITKIN DACITE)	U		BK			SW	C			WSCV	01
NY	341	WEST DANBY,MBR (SONYEA FM)		SH				C	D			WSDB	01
VT	340	WEST DUMMERSTON,GRANITE						SC	A			WDMR	01
CO	123	WEST ELK,BRECCIA	U	VOL				WC	A			WELK	02
NV	120	WEST END,RHYOLITE	U			140	C	A				WSED	01
CT	310+	WESTERLY,GRANITE	U									WSRL	03
RI	310+	WESTERLY,GRANITE	U					SW	A			WSRL	04
CT	321	WESTERLY,GRANITE	U									WSRL	05
RI	321	WESTERLY,GRANITE	U									WSRL	06
CA	122+	WESTERN CASCADE,VOLCS										WCCD	01
OR	122+	WESTERN CASCADE,VOLCS				4600	SW	C				WCCD	02
CA	123	WESTERN CASCADE,VOLCS										WCCD	03
OR	123	WESTERN CASCADE,VOLCS										WCCD	04
CA	124	WESTERN CASCADE,VOLCS										WCCD	05
OR	124	WESTERN CASCADE,VOLCS										WCCD	06
MD	324	WESTERNPORT,SS MBR (ALLEGHENY FM)				12	NW	A				WRPR	03
PA	324	WESTERNPORT,SS MBR (ALLEGHENY FM)										WRPR	05
WV	324	WESTERNPORT,SS MBR (ALLEGHENY FM)										WRPR	07
IA	323	WESTERVILLE,LS (KANSAS CITY GP)				3	SC	A				WRVL	01
KS	323	WESTERVILLE,LS (KANSAS CITY GP)										WRVL	03
NE	323	WESTERVILLE,LS (KANSAS CITY GP)										WRVL	05



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
IA 323	WESTERVILLE,LS MBR (CHERRYVALE FM)	U						WRVL 02
MO 323	WESTERVILLE,LS MBR (CHERRYVALE FM)	U						WRVL 14
NE 323	WESTERVILLE,LS MBR (CHERRYVALE FM)	U						WRVL 06
KS 323	WESTERVILLE,LS MBR (CHERRYVALE SH)	U						WRVL 13
NE 323	WESTERVILLE,LS MBR (SARPY FM)							WRVL 07
PA 361	WEST FAIRVIEW,MBR (MARTINSBURG SH)		SS			SC	C	WFRV 05
NY 341	WEST FALLS,FM	U	SH		127	WC	C	WSFL 01
NY 341	WEST FALLS,GP							WSFL 03
PA 341	WEST FALLS,GP							WSFL 02
NY 341	WESTFIELD,SH (CANADAWAY GP)				61	WC	A	WFLD 06
NY 341	WESTFIELD,SH MBR (CANADAWAY FM)							WFLD 07
VT 400	WESTFORD,SCHIST					NW	C	WFRD 04
AK 123	WEST FORELAND,FM	U	STS,CLS		270	C	E	WFLD 11
AK 123	WEST FORELAND,FM (KENAI GP)							WFLD 01
AK 330+	WEST FORK,FM	U	QTZ			NC	A	WFRK 02
AK 341	WEST FORK,FM	U						WFRK 03
ID 420	WEST FORK,FM (LEMHI GP)	U	STS		460	NC	E	WFRK 04
AK 200	WEST FORK,GRANODIORITE					EC	D	WFRK 01
IN 324	WEST FRANKLIN,LS	U			8	SW	A	WFKL 02
IL 325	WEST FRANKLIN,LS MBR (MODESTO FM)							WFKL 01
IN 324	WEST FRANKLIN,LS MBR (SHELburn FM)							WFKL 03
OK 323	WESTHEIMER,MBR (HOXBAR FM)		LS		8	SE	A	WSMR 01
NY 341	WEST HILL,FM (WEST FALLS GP)		SS		180	WC	A	WSHL 01
NY 341	WEST HILL,MBR (WEST FALLS FM)	U						WSHL 02
PA 337	WEST MEAD,LS MBR (CUYAHOGA FM)					NW	A	WSMD 01
HI 121	[WEST MOLOKAI,BASALT]				420	C	C	WMLK 03
HI 121	/WEST MOLOKAI,VOLC SER							WMLK 01
VT 347+	[WESTMORE,FM]		PHL		1300	NE	C	WSMR 05
VT 351	[WESTMORE,FM]							WSMR 06
VT 347+	/WESTMORE,FM (BARRE GP)							WSMR 02
VT 351	/WESTMORE,FM (BARRE GP)							WSMR 04
NY 354	WESTMORELAND,HEMATITE (CLINTON GP)				<1	C	C	WMLD 03
TX 218	WEST NUECES,FM		MS		44	SC	D	WSNC 02
MO 322	WESTON,SH (PEDEE GP)	U			24	NW	A	WSTN 10
IA 322	WESTON,SH MBR (DOUGLAS FM)							WSTN 05
KS 322	WESTON,SH MBR (DOUGLAS FM)							WSTN 07
KS 322	WESTON,SH MBR (STRANGER FM)	U						WSTN 08
KS 322	WESTPHALIA,LS MBR (STRANGER FM)	U			2	EC	A	WSPL 01
MO 322	WESTPHALIA,LS MBR (STRANGER FM)							WSPL 02
NM 112	WEST POTRILLO,BASALT (POTRILLO VOLCS)				300	SC	E	WPRL 01

TX	213	WEST PRONG,LENTIL (GRAYSON FM)		LS		15	SC	C	WPRG	02	
CA	100	WEST PROSPECT,BASALT					NW	A	WPPC	01	
NV	341	WEST RANGE,LS	U			150	EC	A	WSRG	01	
NY	341	WEST RIVER,SH (GENESEE GP)			BK	40	WC	A	WRVR	25	
NY	341	WEST RIVER,SH MBR (GENESEE FM)	U						WRVR	18	
CT	231	WEST ROCK,DIABASE (NEWARK GP)	U			210	SC	D	WRCK	03	
VT	364	WEST RUTLAND,MARBLE	U				SW	A	WRLD	07	
UT	121	WEST SPRING,FM (SALT LAKE GP)		TF		370	NC	C	WSPG	09	
OK	367	WEST SPRING CREEK,FM (ARBUCKLE GP)	U	LS		490	SC	A	WSCK	05	
VT	377	WEST SUTTON,FM				12	CAN	A	WSSN	07	
VT	377	WEST SUTTON,SLATE							WSSN	08	
MN	112	WEST UNION,GRAVEL				2	WC	C	WSUN	01	
AZ	221	WESTWATER CANYON,SS MBR (MORRISON FM)	U						WSRC	01	
CO	221	WESTWATER CANYON,SS MBR (MORRISON FM)	U						WSRC	02	
NM	221	WESTWATER CANYON,SS MBR (MORRISON FM)	U						WSRC	03	
UT	221	WESTWATER CANYON,SS MBR (MORRISON FM)	U			90	SE	A	WSRC	04	
MA	410	WESTWOOD,GRANITE	U					C	D	WSTD	
NY	337	WETMORE,CGL MBR (KNAPP FM)								WTMR	03
PA	337	WETMORE,CGL MBR (KNAPP FM)				6	NW	A	WTMR	04	
OK	325	WETUMKA,SH (MARMATON GP)	U			37	EC	A	WTMK	01	
MD	410	WEVERTON,FM (CHILHOWEE GP)				370	NC	A	WVRN	01	
PA	410	WEVERTON,FM (CHILHOWEE GP)	U						WVRN	03	
VA	410	WEVERTON,FM (CHILHOWEE GP)	U						WVRN	05	
WV	410	WEVERTON,FM (CHILHOWEE GP)	U						WVRN	07	
MD	410	WEVERTON,QTZ (CHILHOWEE GP)	U						WVRN	02	
PA	410	WEVERTON,QTZ (CHILHOWEE GP)	U						WVRN	04	
VA	410	WEVERTON,QTZ (CHILHOWEE GP)	U						WVRN	06	
WV	410	WEVERTON,QTZ (CHILHOWEE GP)	U						WVRN	08	
MI	430	WEWE,SLATE (CHOCOLAY GP)	U			150	NC	A	WEWE	01	
OK	325	WEWOKA,FM (MARMATON GP)	U	SS		210	EC	A	WVOK	01	
VT	367	WEYBRIDGE,MBR (BELDENS FM)		LS		150	WC	C	WBDG	01	
VT	367	WEYBRIDGE,MBR (CHIPMAN FM)	U						WBDG	02	
MA	377	WEYMOUTH,FM	U	SL	VAR		EC	A	WYMT	01	
MA	112	WEYQUOSQUE,FM	U	CL,SD		610	SE	A	WQSQ	01	
RI	112	WEYQUOSQUE,FM	U						WQSQ	02	
OR	221	WHALEHEAD,FM		GYK			SW	D	WHLD	01	
WY	400	[WHALEN,FM]		MET			SE	A	WHLN	02	
WY	400	WHALEN,GP	U						WHLN	01	
NM	111	WHEATLAND,FM		SD		5	EC	C	WLND	01	
CA	123+	WHEATLAND,FM		CGL		91	NW	C	WLND	02	

ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	124	WHEATLAND,FM							WLND 03
UT	374	WHEELER,FM	U	LS,SH		170	WC	A	WHLR 06
UT	374	WHEELER,SH	U						WHLR 13
CA	124	WHEELER,SS MBR (JUNCAL FM)					SC	C	WHLR 01
CA	210	WHEELER CREST,QUARTZ MONZONITE	U				C	D	WLRC 02
TX	124	WHEELOCK,MARL MBR (COOK MOUNTAIN FM)				21	EC	C	WLCK 06
TX	124	WHEELOCK,MARL MBR (CROCKETT FM)							WLCK 07
SC	410	[WHESTONE,FM]		MSED			NW	E	WTSN 07
SC	410	/WHESTONE,GP							WTSN 04
MS	337+	WHESTONE BRANCH,SH			BK	10	NE	A	WBRC 04
MS	341	WHESTONE BRANCH,SH							WBRC 05
AR	371	WHESTONE CREEK,MBR (BONNETERRE DOL)							WCRK 11
MO	371	WHESTONE CREEK,MBR (BONNETERRE DOL)				10	SC	E	WCRK 13
OK	371	WHESTONE CREEK,MBR (BONNETERRE DOL)							WCRK 12
KY	324	WHESTONE CREEK,SH MBR (BREATHITT FM)	U						WCRK 07
NY	361	WHESTONE GULF,FM (LORRAINE GP)		SH			NC	A	WGLF 01
VT	364	WHESTONE HILL,MBR (MISSISQUOI FM)		SCH		640	C	C	WSHL 05
VT	364	WHESTONE HILL,MBR (MORETOWN FM)							WSHL 03
WA	112	WHIDBEY,FM	U	ST,SD		61	NW	D	WDBY 01
CT	307	WHIGVILLE,MBR (TAINÉ MOUNTAIN FM)		SCH			C	D	WGVL 01
VT	364	WHIPPLE,MARBLE MBR (IRA FM)				76	WC	C	WPPL 01
NV	371	WHIPPLE CAVE,FM		LS		490	EC	D	WPCV 01
NY	364	WHIPSTOCK,BRECCIA MBR (WALLOOMSAC FM)							WPCK 09
VT	364	WHIPSTOCK,BRECCIA MBR (WALLOOMSAC FM)							WPCK 10
NY	364	WHIPSTOCK,CGL							WPCK 03
VT	364	WHIPSTOCK,CGL MBR (WALLOOMSAC FM)				100	SW	D	WPCK 04
NY	364	WHIPSTOCK,MBR (WALLOOMSAC SLATE)							WPCK 08
NY	357	WHIRLPOOL,SS (ALBION GP)	U		WH	8	WC	A	WLPL 01
NY	357	WHIRLPOOL,SS (MEDINA GP)							WLPL 03
TX	124	WHIRLWIND,BRECCIA MBR (PRUETT FM)					WC	C	WRLD 01
NV	374	WHIRLWIND,FM							WRLD 08
UT	374	WHIRLWIND,FM	U	SED			WC	C	WRLD 09
NM	324	WHISKEY CANYON,LS (ARMENDARIS GP)				50	SW	C	WSKC 01
MI	344	WHISKEY CREEK,FM		DOL,LS		14	C	E	WKCK 02
ID	122	/WHISKEY CREEK,INTERBEDS (COLUMBIA RIVER BASALT)		SD,ST		46	WC	D	WKCK 01
ID	122	[WHISKEY CREEK,MBR (COLUMBIA RIVER BASALT)]							WKCK 04
CO	324	WHISKEY CREEK PASS,LS MBR (MADERA FM)				46	SC	C	WKCP 01
NM	324	WHISKEY CREEK PASS,LS MBR (MADERA FM)							WKCP 02
WA	200	WHISKEY MOUNTAIN,GRANODIORITE					NE	C	WSKM 01
ME	340	WHISKY,QTZ	U			61	C	D	WSKY 01

VA	364	WHISTLE CREEK,LS					25	C	C	WLCK	35
NV	120	WHISTLER MOUNTAIN,ALASKITE						EC	C	WLRM	01
AZ	217	WHITCOMB,QTZ			U		180	SC	E	WCMB	01
ID	122	WHITE BIRD,LAKE BEDS						WC	D	WBRD	01
AR	124	WHITE BLUFF,FM (JACKSON GP)				MRL	3	C	A	WBLF	01
VT	377	WHITE BROOK,DOL									
VT	377	WHITE BROOK,DOL MBR (UNDERHILL FM)							WH	23	CAN
NV	370	WHITE CAPS,LS MBR (GOLD HILL FM)			U					9	C
IA	322	WHITE CLOUD,MBR (SCRANTON SH)			U						A
KS	322	WHITE CLOUD,MBR (SCRANTON SH)			U						WCLD
MO	322	WHITE CLOUD,MBR (SCRANTON SH)			U					30	NE
NE	322	WHITE CLOUD,MBR (SCRANTON SH)			U						A
IA	322	WHITE CLOUD,SH (WABAUNSEE GP)									WCLD
MO	322	WHITE CLOUD,SH (WABAUNSEE GP)									WCLD
NY	367	WHITE CREEK,MBR (POULTNEY FM)									WCLD
VT	367	WHITE CREEK,MBR (POULTNEY FM)				SL,QTZ	52	EC	E	WCRK	08
NM	120	WHITE EAGLE,RHYOLITE							SW		C
ND	124	WHITE EARTH,CLAY [BED] (GOLDEN VALLEY FM)								6	NW
NY	400	WHITEFACE,ANORTHOSITE							NE		A
NH	341+	WHITEFIELD,GNEISS (OLIVERIAN GP)			U						C
NH	344	WHITEFIELD,GNEISS (OLIVERIAN GP)			U						C
MI	344	WHITEFISH BAY,LS							EC		C
VT	367	WHITEHALL,DOL (BEEKMANTOWN GP)									WFSB
NY	367+	WHITEHALL,FM			U	LS	90	NE	C		WTLL
NY	371	WHITEHALL,FM			U						WTLL
VT	367	WHITEHALL,FM (BEEKMANTOWN GP)			U						WTLL
CO	211	WHITEHORN,GRANODIORITE			U						C
KS	311	WHITEHORSE,FM									E
OK	311	WHITEHORSE,FM								61	NC
OK	311	WHITEHORSE,GP									A
TX	313	WHITEHORSE,GP			U						WTRS
KS	311	WHITEHORSE,SS			U						WTRS
OK	311	WHITEHORSE,SS			U						WTRS
TX	313	WHITEHORSE,SS			U						WTRS
AZ	317	WHITE HOUSE,MBR (DE CHELLY SS)								170	NE
ID	331	WHITE KNOB,GP								2200	SC
ID	331	WHITE KNOB,LS			U						D
CA	330	WHITE MOUNTAIN,COMPLEX				MET			SE		A
ME	227+	[WHITE MOUNTAIN,GP]									D
NH	227+	[WHITE MOUNTAIN,GP]							EC		A

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC. REF.	IDENT.
ME 231	[WHITE MOUNTAIN,GP]						WMNN 17
NH 231	[WHITE MOUNTAIN,GP]						WMNN 15
VT 227+	[WHITE MOUNTAIN,GRANITE]						WMNN 12
VT 231	[WHITE MOUNTAIN,GRANITE]						WMNN 13
ME 227+	/WHITE MOUNTAIN,PLUTONIC SER	U					WMNN 09
NH 227+	/WHITE MOUNTAIN,PLUTONIC SER	U					WMNN 02
VT 227+	/WHITE MOUNTAIN,PLUTONIC SER	U					WMNN 03
ME 231	/WHITE MOUNTAIN,PLUTONIC SER	U					WMNN 10
NH 231	/WHITE MOUNTAIN,PLUTONIC SER	U					WMNN 04
VT 231	/WHITE MOUNTAIN,PLUTONIC SER	U					WMNN 05
ID 120	WHITE MOUNTAIN,VOLCS				610	SC E	WMNN 01
GA 357	WHITE OAK MOUNTAIN,SS						WOKM 01
TN 357	WHITE OAK MOUNTAIN,SS			VAR	150	SC A	WOKM 02
SD 211	WHITE OWL CREEK,MBR (FOX HILLS FM)		SS,SH		60	MC D	WOCK 01
UT 224	[WHITE POINT,SS]				24	SC E	WTPN 03
UT 224	/WHITE POINT,SS MBR (SUMMERVILLE FM)						WTPN 01
NJ 347	WHITEPORT,DOL MBR (RONDOUT FM)	U					WTPR 01
NY 347	WHITEPORT,DOL MBR (RONDOUT FM)	U				SE C	WTPR 03
PA 347	WHITEPORT,DOL MBR (RONDOUT FM)	U					WTPR 05
NJ 347	WHITEPORT,MBR (RONDOUT LS)						WTPR 02
NY 347	WHITEPORT,MBR (RONDOUT LS)	U					WTPR 04
CO 324	WHITE QUAIL,LS				6	C C	WTQL 01
CO 324	WHITE QUAIL,LS MBR (MINTURN FM)	U					WTQL 02
TX 321	WHITE RANCH,LS [BED] (GRAHAM FM)				1	C A	WRNC 01
NM 400	WHITE RIDGE,FM				1100	C C	WRDG 05
MT 341	WHITE RIDGE,MBR (JEFFERSON LS)				19	NW A	WRDG 04
NM 400	WHITE RIDGE,QTZ						WRDG 06
UT 317	WHITE RIM,SS				30	SE A	WTRM 02
UT 317	WHITE RIM,SS MBR (CUTLER FM)	U					WTRM 01
AK 111	WHITE RIVER,ASH BED (ENGINEER LOESS)	U			<1	EC E	WRVR 29
CO 123	WHITE RIVER,FM	U					WRVR 01
MT 123	WHITE RIVER,FM						WRVR 28
NE 123	WHITE RIVER,FM	U					WRVR 04
SD 123	WHITE RIVER,FM	U	CL		300	SC A	WRVR 06
WY 123	WHITE RIVER,FM	U					WRVR 08
CO 123	WHITE RIVER,GP	U					WRVR 02
ND 123	WHITE RIVER,GP	U					WRVR 03
NE 123	WHITE RIVER,GP	U					WRVR 05
SD 123	WHITE RIVER,GP	U					WRVR 07
WY 123	WHITE RIVER,GP	U					WRVR 09

WA	207+	WHITE RIVER, ORTHOGNEISS						NC	D	WRVR	10
WA	301	WHITE RIVER, ORTHOGNEISS								WRVR	11
CA	122	WHITEROCK BLUFF, MBR (MONTEREY SH)	U		WH	370		SC	A	WKBF	01
CA	122	WHITEROCK BLUFF, SH MBR (SANTA MARGARITA FM)								WKBF	02
KY	327	WHITE ROCKS, SS MBR (LEE FM)	U			91		SE	D	WRCK	04
VA	327	WHITE ROCKS, SS MBR (LEE FM)								WRCK	05
UT	124	WHITE SAGE, FM	U		LS	180		WC	A	WTSG	01
TN	364	WHITESBURG, LS				150		NE	A	WBRG	32
VA	364	WHITESBURG, LS	U							WBRG	34
VA	364	WHITESBURG, LS (CLIFFFIELD GP)								WBRG	41
TN	364	WHITESBURG, LS MBR (BLOCKHOUSE SH)	U							WBRG	33
FL	122	WHITES CREEK, MBR (SHOAL RIVER FM)			MRL	4		NW	C	WCRK	03
TX	337	WHITES CROSSING, COQUINA MBR (CHAPPEL FM)				18		C	C	WCRG	04
NC	340	WHITESIDE, GRANITE	U					WC	A	WTSD	01
SC	340	WHITESIDE, GRANITE	U							WTSD	02
WA	120	WHITESTONE, FM			TF	390		NE	E	WTSN	06
TX	218	WHITESTONE, LS MBR (WALNUT FM)				12		EC	D	WTSN	01
AK	230	WHITESTRIPE, MARBLE (KELP BAY GP)	U			90		SE	D	WSRP	01
NY	341	WHITESVILLE, FM (CHADAKOIN GP)			SED	90		WC	C	WSVL	03
NY	341	WHITESVILLE, FM (CONNEAUT GP)								WSVL	04
NY	341	WHITESVILLE, MBR (CHADAKOIN FM)								WSVL	05
AZ	123	WHITETAILE, CGL	U			300		C	A	WTTL	01
OR	124	WHITE TAIL RIDGE, MBR (FLOURNOY FM)			SS	460		SW	E	WTRG	01
CA	210	WHITE TANK, MONZONITE						SE	C	WTNK	01
IN	112	WHITEWATER, DRIFT						EC	D	WTTR	01
IN	361	WHITEWATER, FM			LS, SH	15		EC	A	WTTR	05
OH	361	WHITEWATER, FM	U							WTTR	04
IN	361	WHITEWATER, FM (MAQUOKETA GP)								WTTR	03
IN	112	WHITEWATER, TILL								WTTR	02
NM	211	WHITEWATER ARROYO, SH MBR (DAKOTA SS)				24		NW	D	WRAR	01
NM	211	WHITEWATER ARROYO, TONGUE (MANCOS SH)	U							WRAR	02
NM	123	WHITEWATER CREEK, RHYOLITE	U			210		WC	A	WRCK	07
NM	123	WHITEWATER CREEK, RHYOLITE (DATIL GP)								WRCK	01
MT	361	WHITEWOOD, DOL	U							WHTD	01
ND	361	WHITEWOOD, DOL	U							WHTD	03
SD	361	WHITEWOOD, DOL	U			24		WC	A	WHTD	04
WY	361	WHITEWOOD, DOL	U							WHTD	02
MT	361	WHITEWOOD, LS	U							WHTD	02
SD	361	WHITEWOOD, LS	U							WHTD	05
WY	361	WHITEWOOD, LS	U							WHTD	07

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
VT 377	WHITINGHAM, SCHIST				30	SW	A	WNGM 01
AZ 231	WHITMORE POINT, MBR (MOENAVE FM)	U	STS		24	NC	D	WMRP 01
UT 231	WHITMORE POINT, MBR (MOENAVE FM)							WMRP 02
AZ 337	WHITMORE WASH, MBR (REDWALL LS)	U			31	NW	D	WMRW 01
UT 337	WHITMORE WASH, MBR (REDWALL LS)	U						WMRW 02
CO 123	WHITNEY, MBR (BRULE FM)							WTNY 01
NE 123	WHITNEY, MBR (BRULE FM)		CL		88	NW	C	WTNY 02
SD 123	WHITNEY, MBR (BRULE FM)							WTNY 03
WY 123	WHITNEY, MBR (BRULE FM)							WTNY 04
TX 124	WHITSETT, FM (JACKSON GP)	U	CL	VAR	27	SC	A	WTST 01
TX 321	WHITT, GP		SH, LS			NC	C	WHTT 01
GA 327	WHITWELL, SH (CRAB ORCHARD MOUNTAINS GP)							WTLL 01
TN 327	WHITWELL, SH (CRAB ORCHARD MOUNTAINS GP)				30	SC	A	WTLL 03
TN 327	WHITWELL, SH (LEE GP)	U						WTLL 04
GA 327	WHITWELL, SH MBR (CRAB ORCHARD MOUNTAINS FM)	U						WTLL 02
TN 327	WHITWELL, SH MBR (CRAB ORCHARD MOUNTAINS FM)	U						WTLL 05
OK 317	WICHITA, FM	U						WCHT 01
TX 318+	WICHITA, FM	U	SS, SH	VAR	610	NC	A	WCHT 02
TX 319	WICHITA, FM	U						WCHT 05
TX 318+	WICHITA, GP	U						WCHT 03
TX 319	WICHITA, GP	U						WCHT 06
OK 374	WICHITA, GRANITE GP					SC	D	WCHT 04
NV 121	WICHMAN, FM		SED		150	EC	C	WCMN 03
FL 112	WICOMICO, FM	U						WCMC 03
GA 112	WICOMICO, FM	U						WCMC 04
DC 112	WICOMICO, FM (COLUMBIA GP)	U						WCMC 01
MD 112	WICOMICO, FM (COLUMBIA GP)	U	CST		21	SC	A	WCMC 05
NC 112	WICOMICO, FM (COLUMBIA GP)	U						WCMC 06
SC 112	WICOMICO, FM (COLUMBIA GP)	U						WCMC 07
VA 112	WICOMICO, FM (COLUMBIA GP)	U						WCMC 08
WY 124	WIGGINS, FM (THOROFARE CREEK GP)	U	SED		520	NW	C	WGNS 01
UT 224	WIGGLER WASH, MBR (CARMEL FM)	U	LS		17	SC	E	WGLW 02
AZ 400	WIKIEUP, GRANODIORITE					NW	D	WKUP 01
AK 111	WILBER, ASH BED (ENGINEER LOESS)	U		WH	<1	EC	E	WLBR 06
TX 371	WILBERNS, FM	U	LS		67	C	A	WLBR 03
ID 410	WILBERT, FM	U	QTZ		290	SE	E	WLBR 05
NY 351	WILBUR, MBR (RONDOUT LS)	U			2	SE	A	WLBR 02
ME 347+	WILBUR MOUNTAIN, MBR (LITTLETON FM)		GN		150	WC	D	WLBM 01
ME 351	WILBUR MOUNTAIN, MBR (LITTLETON FM)							WLBM 02
FL 124+	WILCOX, FM							WLCX 24





ST.	GEOL. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NM	317+	WILD COW, FM (MADERA GP)	U	CST		230	C	E	WLDC 14
NM	321	WILD COW, FM (MADERA GP)	U						WLDC 10
AZ	101+	WILDER, FM	U	BAS		120	WC	C	WLDR 01
AZ	112	WILDER, FM	U						WLDR 02
CO	123	WILDHORSE, MBR (CONEJOS FM)		VSED		200	SC	E	WLDR 04
ID	327+	WILDHORSE, MBR (MULDOON FM)		LS			SC	C	WLDR 06
ID	331	WILDHORSE, MBR (MULDOON FM)							WLDR 09
SC	370	WILDHORSE BRANCH, FM	U	PHL		3000	C	E	WDBC 01
UT	400	WILDHORSE CANYON, COMPLEX		GN, SCH			SW	C	WLDC 13
ID	400	WILDHORSE CANYON, GNEISS COMPLEX				2100	SC	E	WLDC 11
OK	328+	WILDHORSE MOUNTAIN, FM (JACKFORK GP)		SS		1100	SE	D	WLDM 02
OK	331	WILDHORSE MOUNTAIN, FM (JACKFORK GP)							WLDM 01
KY	337	WILDIE, MBR (BORDEN FM)	U	SS		2	EC	A	WLD 02
CA	410	WILDROSE, FM (TELESCOPE GP)		QTZ		150	EC	A	WLDR 13
TX	321	WILES, LS (STRAWN GP)				3	C	A	WILS 04
TX	321	WILES, LS (WHITT GP)							WILS 01
TX	321	WILES, LS MBR (GRAFORD FM)	U						WILS 02
TX	321	WILES, LS MBR (POSIDEON FM)							WILS 05
TX	321	WILES, MBR (PALO PINTO LS)							WILS 03
IL	325	WILEY, COAL MBR (SPOON FM)				<1	WC	C	WILY 01
OH	321	WILGUS, CLAY [BED] (CONEMAUGH FM)				1	SE	A	WLGS 01
IL	357	WILHELMI, FM		DOL		12	NE	E	WLLM 01
GA	410	WILHITE, FM (WALDEN CREEK GP)							WLHT 01
TN	410	WILHITE, FM (WALDEN CREEK GP)							WLHT 03
WA	122	WILKES, FM	U	SL		210	EC	A	WLKS 01
WY	124	WILKINS PEAK, MBR (GREEN RIVER FM)	U	CLS		230	SW	C	WLKS 01
OR	112	WILLAMETTE, SILT	U	SH		270	SW	C	WKPK 01
WA	112	WILLAPA, CLAY				46	NW	C	WLMT 03
WA	112	WILLAPA, CLAY					SW	C	WLLP 01
MO	322	WILLARD, FM (WABAUNSEE GP)							WLDR 07
IA	322	WILLARD, SH (WABAUNSEE GP)	U						WLDR 02
KS	322	WILLARD, SH (WABAUNSEE GP)	U			17	NE	A	WLDR 03
MO	322	WILLARD, SH (WABAUNSEE GP)	U						WLDR 04
NE	322	WILLARD, SH (WABAUNSEE GP)	U						WLDR 05
NV	410	WILLARD CREEK, QTZ (MCCOY CREEK GP)				150	EC	D	WDCK 15
AK	307	WILLIAM HENRY BAY, MARBLE			WH		SE	C	WMHB 01
CA	211	WILLIAMS, FM	U	SS		160	SC	C	WLMS 02
OK	325	WILLIAMS, MBR (DEESE FM)		LS		1	SE	C	WLMS 04
OK	325	WILLIAMS, MBR (WEST ARM FM)							WLMS 11
CA	122	WILLIAMS, SAND BED (ANTELOPE MBR OF MONTEREY FM)				150	C	D	WLMS 10
CA	122	WILLIAMS, SAND MBR (ANTELOPE SH)							WLMS 01

NY	341	WILLIAMS BROOK, MBR (ITHACA SH)				8	C	A	WMBK	01	
CT	344+	WILLIAMSBURG, GRANODIORITE	U						WMBG	03	
MA	344+	WILLIAMSBURG, GRANODIORITE	U					C	A	WMBG	04
CT	347	WILLIAMSBURG, GRANODIORITE	U							WMBG	05
MA	347	WILLIAMSBURG, GRANODIORITE	U							WMBG	06
CO	330	WILLIAMS CANYON, LS	U			9	C	A	WLMC	03	
CO	211	WILLIAMS FORK, FM (MESAVEERDE GP)	U	SS, SH		490	NW	A	WMFK	01	
UT	211	WILLIAMS FORK, FM (MESAVEERDE GP)	U							WMFK	02
NY	354	WILLIAMSON, SH (CLINTON GP)	U			7	WC	A	WLMS	06	
WV	324	WILLIAMSON, SS [MBR] (KANAWHA FM)	U			8	SW	A	WLMS	03	
AZ	211	WILLIAMSON CANYON, VOLCS	U			760	SE	D	WLMC	01	
LA	122	WILLIAMSON CREEK, MBR (FLEMING FM)		ST, CL		150	WC	C	WMCK	01	
WV	351	WILLIAMSPORT, FM				15	EC	A	WLMP	04	
PA	351	WILLIAMSPORT, MBR (WILLS CREEK FM)								WLMP	08
MD	351	WILLIAMSPORT, SS								WLMP	07
PA	351	WILLIAMSPORT, SS								WLMP	02
VA	351	WILLIAMSPORT, SS								WLMP	06
WV	351	WILLIAMSPORT, SS								WLMP	05
VT	340	WILLIAMSTOWN, GRANITE						C	A	WLMS	05
NY	351	WILLIAMSVILLE, DOL MBR (BERTIE FM)				3	WC	A	WLMV	02	
NY	351	WILLIAMSVILLE, WATERLIME (BERTIE GP)								WLMV	03
LA	112	WILLIANA, FM	U	SD, GVL		29	WC	C	WLLN	01	
CT	364+	WILLIMANTIC, GNEISS	U					EC	A	WLMC	04
CT	367	WILLIMANTIC, GNEISS	U							WLMC	11
CT	370	WILLIMANTIC, GNEISS	U							WLMC	12
IL	326	WILLIS, COAL MBR (ABBOTT FM)				<1	SE	C	WLLS	10	
TX	112	WILLIS, FM				38	EC	A	WLLS	13	
VA	400	WILLIS, PHYLLITE						SW	C	WLLS	12
LA	112	WILLIS, SAND	U							WLLS	01
TX	112	WILLIS, SAND	U							WLLS	02
TX	112	WILLIS, SAND (HOUSTON GP)								WLLS	14
TX	313	WILLIS RANCH, MBR (WORD FM)	U	LS		94	WC	D	WLRC	03	
GA	124	WILLISTON, FM								WLSN	06
FL	124	WILLISTON, FM (OCALA GP)		LS		10	NE	C	WLSN	02	
VT	367	WILLISTON, LS	U		BL	150	NW	A	WLSN	03	
AK	110+	WILLIWAU COVE, FM	U	VOL		910	SW	C	WLCV	01	
AK	120	WILLIWAU COVE, FM	U							WLCV	02
AK	350	WILLOUGHBY, LS	U			1500	SE	C	WLGB	01	
NV	360	WILLOW CANYON, FM		CH		300	C	D	WLCN	02	
AZ	217	WILLOW CANYON, FM (BISBEE GP)	U	SED		900	SE	D	WLCN	01	

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK-NESS	TYPE LOC.	REF.	IDENT.
CO 123	WILLOW CREEK,BED (BACHELOR MTN MBR OF CARPENTER RIDGE TUFF)	U			600	SW	A	WLCK 03
MT 125+	WILLOW CREEK,FM	U	CL,SS	VAR	220	CAN	A	WLCK 09
MT 211	WILLOW CREEK,FM	U						WLCK 11
CA 121	WILLOW LAKE,BASALT					NW	A	WLLK 05
OR 217	WILLOW LAKE,NORITE					NE	C	WLLK 01
TX 321	WILLOW POINT,LS [BED] (PALO PINTO FM)				5	NC	A	WLPN 04
WI 367	WILLOW RIVER,DOL (SHAKOPEE FM)					EC	A	WLRV 04
MN 367	WILLOW RIVER,MBR (SHAKOPEE FM)							WLRV 03
CA 221	WILLOWS,DIORITE					SC	E	WLLS 03
AZ 107+	WILLOW SPRING,GRANITE					C	A	WSPG 01
AZ 211	WILLOW SPRING,GRANITE							WSPG 10
AZ 107+	WILLOW SPRING,GRANODIORITE	U						WSPG 02
AZ 211	WILLOW SPRING,GRANODIORITE	U						WSPG 11
UT 122	WILLOW SPRING,MBR (COVE MOUNTAIN FM)					NE	D	WSPG 05
CA 122	WILLOW SPRINGS,FM		SED VOL			C	D	WSPG 08
NV 211	WILLOW TANK,FM	U	CL		100	SE	C	WLTK 01
NY 354	WILLOWVALE,SH (CLINTON GP)				7	C	C	WLVL 04
MO 420	WILLS,GRANITE					SE	D	WLLS 11
MD 351	WILLS CREEK,FM				46	NW	A	WLCK 17
PA 351	WILLS CREEK,FM							WLCK 40
VA 351	[WILLS CREEK,FM]	U						WLCK 36
WV 351	WILLS CREEK,FM							WLCK 26
PA 351	WILLS CREEK,FM (CAYUGA GP)							WLCK 20
VA 351	WILLS CREEK,FM (CAYUGA GP)							WLCK 23
WV 351	WILLS CREEK,LS							WLCK 27
MD 351	WILLS CREEK,SH							WLCK 39
PA 351	WILLS CREEK,SH	U						WLCK 41
VA 351	[WILLS CREEK,SH]							WLCK 37
WV 351	[WILLS CREEK,SH]							WLCK 38
MD 351	WILLS CREEK,SH (CAYUGA GP)	U						WLCK 19
PA 351	WILLS CREEK,SH (CAYUGA GP)	U						WLCK 22
VA 351	WILLS CREEK,SH (CAYUGA GP)	U						WLCK 25
WV 351	WILLS CREEK,SH (CAYUGA GP)	U						WLCK 28
AR 125	WILLS POINT,FM (MIDWAY GP)	U						WLSP 01
TX 125	WILLS POINT,FM (MIDWAY GP)	U	CL	VAR	91	EC	A	WLSP 02
MT 124	WILLWOOD,FM	U						WLLD 02
WY 124	WILLWOOD,FM	U	SH	VAR	760	NW	C	WLLD 01
IL 112	WILMETTE,BED (SHEBOYGAN MBR OF LAKE MICHIGAN FM)		CL		<1	NE	E	WLMT 01
MI 112	WILMETTE,BED (SHEBOYGAN MBR OF LAKE MICHIGAN FM)							WLMT 02
WI 112	WILMETTE,BED (SHEBOYGAN MBR OF LAKE MICHIGAN FM)							WLMT 04

DE	307	WILMINGTON,COMPLEX		GN			NW	C	WLMG	02
MD	307	WILMINGTON,COMPLEX							WLMG	03
PA	307	WILMINGTON,COMPLEX							WLMG	04
VT	400	WILMINGTON,GNEISS					SW	D	WLMG	10
PA	321	WILMORE,SS MBR (CONEMAUGH FM)	U			9	WC	A	WLMR	04
NC	420	WILSON CREEK,GNEISS	U			1200	NW	D	WLCK	34
CA	122	WIMER,FM		SH,STS		<1	NW	A	WIMR	01
OR	122	WIMER,FM							WIMR	02
OK	325	WIMER SCHOOL,LS MBR (LABETTE SH)				1	NE	C	WMSC	01
NM	120	WIMSATTVILLE,FM		GVL		300	SW	C	WMVL	01
TX	321	WINCHELL,FM (GRAFORD GP)				22	C	C	WNCL	01
TX	321	WINCHELL,LS (CANYON GP)	U						WNCL	02
OR	221	WINCHUCK,MBR (DOTHAN FM)		GYK			SW	D	WCCK	04
ID	410+	WINDERMERE,GP	U	VSED		3000	CAN	B	WDRM	01
WA	410+	WINDERMERE,GP	U						WDRM	03
ID	420	WINDERMERE,GP	U						WDRM	02
WA	420	WINDERMERE,GP	U						WDRM	04
NV	371	WINDFALL,FM	U	LS		200	EC	C	WDFL	01
ME	354	WINDHAM,FM (MERRIMACK GP)		MET		760	SW	E	WNDM	06
OH	112	WINDHAM,SAND	U			2	NE	C	WNDM	01
NV	347	WINDMILL,LS				210	NC	D	WDM1	01
NY	344	WINDOM,MBR (MOSCOW SH)	U			15	WC	A	WNDM	02
PA	344	WINDOM,MBR (MOSCOW SH)							WNDM	04
PA	344	WINDOM,SH							WNDM	05
NV	123	WINDOUS BUTTE,FM	U	IGNM		370	EC	C	WDSB	01
WY	124	WIND RIVER,FM	U	SS		610	WC	A	WORV	01
TN	324	WINDROCK,SS				12	NC	A	WDCK	06
IA	211+	WINDROW,FM	U						WNRD	01
MN	211+	WINDROW,FM	U						WNRD	02
WI	211+	WINDROW,FM	U	GVL			SC	A	WNRD	04
IA	217	WINDROW,FM	U						WNRD	05
MN	217	WINDROW,FM	U						WNRD	06
WI	217	WINDROW,FM	U						WNRD	07
VA	112	WINDSOR,FM		SD,CL		11	SE	E	WDSR	02
SD	430	WINDY FLATS,GP	U	MET		2	WC	E	WDFL	02
PA	317	WINDY GAP,LS MBR (GREENE FM)	U				SW	A	WDGP	06
WV	317	WINDY GAP,LS MBR (GREENE FM)	U						WDGP	07
CO	211	[WINDY GAP,MBR (MIDDLE PARK FM)]				350	NC	D	WDGP	08
CO	211	/WINDY GAP,VOLC MBR (MIDDLE PARK FM)							WDGP	05
CO	123	WINDY GULCH,BED (BACHELOR MTN MBR OF CARPENTER RIDGE TUFF)				61	SW	A	WDGC	01

GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CO 221	WINDY HILL,SS MBR (SUNDANCE FM)	U						WDHL 01
SD 221	WINDY HILL,SS MBR (SUNDANCE FM)							WDHL 04
WY 221	WINDY HILL,SS MBR (SUNDANCE FM)	U			5	SC	E	WDHL 02
ID 410	WINDY PASS,ARGILLITE MBR (BRIGHAM QTZ)	U			230	SE	E	WDPS 01
CO 420	WINDY POINT,GRANITE	U				C	A	WNDP 01
ID 317	WINDY RIDGE,FM (SEVEN DEVILS GP)							WDRG 01
OR 317	WINDY RIDGE,FM (SEVEN DEVILS GP)		VOL		910	NE	D	WDRG 02
OR 111+	WINEGLASS,WELDED TUFF				6	SW	C	WGLS 02
OR 112	WINEGLASS,WELDED TUFF							WGLS 04
KS 317	WINFIELD,LS (CHASE GP)	U			4	SE	A	WFLD 03
NE 317	WINFIELD,LS (CHASE GP)	U						WFLD 04
OK 317	WINFIELD,LS (CHASE GP)	U						WFLD 03
OK 317	WINFIELD,LS (OSCAR GP)	U						WFLD 10
AZ 231	WINGATE,SS (GLEN CANYON GP)	U						WNGT 01
CO 231	WINGATE,SS (GLEN CANYON GP)	U						WNGT 02
NM 231	WINGATE,SS (GLEN CANYON GP)	U		RD	140	NW	A	WNGT 03
UT 231	WINGATE,SS (GLEN CANYON GP)	U						WNGT 04
WA 112	WINGATE HILL,DRIFT	U			9	C	D	WGHL 01
WV 324	/WINIFREDE,LS [BED] (KANAWHA FM)				<1	WC	A	WFRD 01
WV 324	WINIFREDE,SS [MBR] (KANAWHA FM)				24	WC	A	WFRD 02
TX 318	WINKLER FORD,LS MBR (GRAPE CREEK FM)				<1	C	A	WKFD 03
IL 112	/WINNEBAGO,DRIFT	U			120	NC	C	WNBG 01
IL 112,	/WINNEBAGO,FM							WNBG 02
IA 322	WINNEBAGO,SH							WNBG 03
KS 322	WINNEBAGO,SH MBR (BURLINGAME LS)							WNBG 06
NE 322	WINNEBAGO,SH MBR (BURLINGAME LS)				4	SE	A	WNBG 08
NV 231	WINNEMUCCA,FM (AULD LANG SYNE GP)	U	SH,SS		180	NC	C	WNMC 01
IL 111+	WINNETKA,MBR (LAKE MICHIGAN FM)		CL		<1	NE	E	WNTK 04
IL 112	WINNETKA,MBR (LAKE MICHIGAN FM)							WNTK 01
MI 112	WINNETKA,MBR (LAKE MICHIGAN FM)							WNTK 02
WI 112	WINNETKA,MBR (LAKE MICHIGAN FM)							WNTK 03
MN 364	WINNIPEG,FM					CAN	C	WNP 14
MT 364	WINNIPEG,FM	U						WNP 03
ND 364	WINNIPEG,FM	U						WNP 05
SD 364	WINNIPEG,FM	U						WNP 07
WY 364	WINNIPEG,FM	U						WNP 11
ND 364	WINNIPEG,GP							WNP 13
MT 364	WINNIPEG,SS							WNP 04
WY 364	WINNIPEG,SS							WNP 12
MT 344	WINNIPEGOSIS,FM (ELK POINT GP)	U	SED		91	CAN	C	WPGS 02

ND	344	WINNIPEGOSIS,FM (ELK POINT GP)	U							WPGS	03		
SD	344	WINNIPEGOSIS,FM (ELK POINT GP)								WPGS	04		
NH	341	WINNIPESAUKEE,QUARTZ DIORITE (NEW HAMPSHIRE GP)	U						C	A	WPSK	01	
SC	320	WINNSBORO,GRANITE							NC	E	WSBR	07	
MS	124	WINONA,FM (CLAIBORNE GP)	U				110		NC	A	WNON	01	
MS	124	WINONA,MARL (CLAIBORNE GP)	U								WNON	02	
MS	124	WINONA,SAND (CLAIBORNE GP)	U								WNON	03	
VT	374+	WINOOSKI,DOL	U			RD		30	NW	A	WNSK	01	
VT	377	WINOOSKI,DOL	U								WNSK	07	
VT	374+	WINOOSKI,DOL (STOCKBRIDGE GP)									WNSK	03	
VT	377	WINOOSKI,DOL (STOCKBRIDGE GP)									WNSK	05	
AZ	237	WINSLOW,MBR (MOENKOPI FM)				MS		15	NE	C	WNSL	05	
WI	112	WINSLOW,TILL									WNSL	03	
IL	112	WINSLOW,TILL MBR (GLASFORD FM)						4	NC	E	WNSL	02	
WI	112	WINSLOW,TILL MBR (GLASFORD FM)									WNSL	04	
UT	224	WINSOR,MBR (CARMEL FM)	U			SS		240	SC	C	WNSR	01	
ME	304	WINTERPORT,GRANITE								SC	C	WRPR	01
OH	324	WINTERS,CLAY MBR (ALLEGHENY FM)						2	SC	A	WNRS	09	
OH	324	[WINTERS,MBR (ALLEGHENY FM)]									WNRS	13	
OH	324	WINTERS,SH MBR (ALLEGHENY FM)									WNRS	02	
KS	323	WINTERSET,LS (KANSAS CITY GP)	U								WNRS	05	
IA	323	WINTERSET,MBR (DENNIS LS)	U					9	SC	A	WNRS	03	
KS	323	WINTERSET,MBR (DENNIS LS)									WNRS	11	
MO	323	WINTERSET,MBR (DENNIS LS)									WNRS	12	
NE	323	WINTERSET,MBR (DENNIS LS)	U								WNRS	07	
OK	323	WINTERSET,MBR (HOGSHOOTER LS)									WNRS	08	
ME	350	WINTHROP,PHYLLITE								SW	C	WNRP	02
WA	211+	WINTHROP,SS						1700	NC	A	WNRP	01	
WA	217	WINTHROP,SS									WNRP	03	
CA	217	WINTUN,FM						1500	NW	D	WNTN	01	
MO	322	WINZELER,SH MBR (HOWARD FM)									WZLR	04	
IA	322	WINZELER,SH MBR (HOWARD LS)	U								WZLR	01	
KS	322	WINZELER,SH MBR (HOWARD LS)	U					2	SE	A	WZLR	02	
NE	322	WINZELER,SH MBR (HOWARD LS)	U								WZLR	03	
MT	112	WIOTA,GRAVEL	U					9	NE	C	WIOT	01	
WI	112	WISCONSIN,DRIFT	U							SE	A	WSCS	03
WI	112	WISCONSIN,TILL	U								WSCS	04	
NY	341	WISCOY,FM (JAVA GP)						46	WC	A	WSCY	05	
PA	341	WISCOY,FM (JAVA GP)									WSCY	04	
NY	341	WISCOY,MBR (CHEMUNG FM)									WSCY	01	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY	341	WISCOY,SS MBR (JAVA FM)	U						WSCY 03
VA	324	WISE,FM	U	SH,SS		390	SW	A	WISE 03
IA	364	WISE LAKE,FM (GALENA GP)							WSLK 03
IL	364	WISE LAKE,FM (GALENA GP)		DOL		27	NC	C	WSLK 01
MO	364	WISE LAKE,LS (GALENA GP)							WSLK 04
WI	364	WISE LAKE,MBR (GALENA DOL)							WSLK 02
CA	217	WISENOR,FM		SH,SS		550	C	C	WSNR 01
IL	325	WISE RIDGE,COAL MBR (SPOON FM)				<1	SC	C	WRDG 03
AK	124+	WISHBONE,FM	U	CGL		560	EC	C	WSBN 01
AK	125	WISHBONE,FM	U						WSBN 02
DC	307+	WISSAHICKON,FM	U						WSCK 07
NJ	307+	WISSAHICKON,FM							WSCK 10
VA	307+	WISSAHICKON,FM	U						WSCK 12
VA	410	WISSAHICKON,FM	U						WSCK 18
DC	410	WISSAHICKON,FM	U						WSCK 13
NJ	410	WISSAHICKON,FM							WSCK 16
DE	307+	WISSAHICKON,FM (GLENARM GP)	U						WSCK 08
MD	307+	WISSAHICKON,FM (GLENARM GP)	U						WSCK 09
PA	307+	WISSAHICKON,FM (GLENARM GP)	U				SE	A	WSCK 11
DE	410	WISSAHICKON,FM (GLENARM GP)	U						WSCK 14
MD	410	WISSAHICKON,FM (GLENARM GP)	U						WSCK 15
PA	410	WISSAHICKON,FM (GLENARM GP)	U						WSCK 17
MD	307+	WISSAHICKON,SCHIST (GLENARM GP)							WSCK 21
MD	410	WISSAHICKON,SCHIST (GLENARM GP)							WSCK 22
CA	107	WITNET,FM				1200	SC	A	WTNT 01
IL	323	WITT,COAL MBR (BOND FM)	U	CGL,SS		<1	C	C	WITT 01
TN	364	WITTEN,LS	U						WTTN 01
VA	364	WITTEN,LS	U						WTTN 02
NY	341	WITTENBERG,CGL			WH	380	SE	C	WBRG 29
NY	341	WITTENBERG,CGL MBR (KATSBERG FM)							WBRG 30
AR	328	WITTS SPRINGS,FM	U	SS		91	NC	D	WSPG 15
TX	321	WIZARD WELLS,LS [MBR] (GRAFORD FM)				110	NE	A	WZDW 01
MA	400	WOBURN,FM	U	IG		150	NC	A	WBRN 01
NY	354	WOLCOTT,LS (CLINTON GP)	U			4	WC	A	WLCT 02
NY	354	WOLCOTT FURNACE,HEMATITE (CLINTON GP)				<1	WC	A	WCFC 01
MT	124	WOLF,PORPHYRY					NC	A	WOLF 01
NY	341	WOLF CREEK,CGL (CONEWANGO GP)				6	WC	A	WFCK 02
NY	341	WOLF CREEK,CGL LENTIL (CATTARAUGUS FM)	U						WFCK 03
TX	212	WOLFE CITY,FM (TAYLOR GP)				30	NE	A	WLFC 01
TX	212	WOLFE CITY,SAND (TAYLOR GP)							WLFC 02

TX	212	WOLFE CITY,SAND MBR (TAYLOR MARL)	U						WLFC	03	
NY	367	WOLF HOLLOW,MBR (TRIBES HILL LS)				9	EC	C	WLFH	01	
MI	400	WOLF LAKE,GRANITE					NW	A	WFLK	01	
TX	321	WOLF MOUNTAIN,SH (CANYON GP)				27	C	A	WLFM	03	
TX	321	WOLF MOUNTAIN,SH MBR (GRAFORD FM)							WLFM	01	
MA	340	WOLFPEN,TONALITE	U					C	A	WLPF	01
AL	327	WOLF RIDGE,SS MBR (POTTSVILLE FM)	U			30	NC	A	WFRG	01	
IA	322	WOLF RIVER,MBR (TOPEKA LS)							WFRV	01	
KS	322	WOLF RIVER,MBR (TOPEKA LS)				2	NE	A	WFRV	02	
MO	322	WOLF RIVER,MBR (TOPEKA LS)							WFRV	03	
NE	322	WOLF RIVER,MBR (TOPEKA LS)							WFRV	04	
MT	374	WOLSEY,FM	U			38	C	A	WLSY	02	
WY	374	WOLSEY,FM							WLSY	05	
MT	374	WOLSEY,SH	U						WLSY	03	
WY	374	WOLSEY,SH	U						WLSY	06	
WY	374	WOLSEY,SH (GROS VENTRE GP)							WLSY	07	
MT	374	WOLSEY,SH MBR (GROS VENTRE FM)							WLSY	04	
WY	374	WOLSEY,SH MBR (GROS VENTRE FM)	U						WLSY	08	
MI	420	WOLVERINE,SS [BED] (PORTAGE LAKE VOLCS)	U			12	NW	A	WLVR	01	
ID	224	WOLVERINE CANYON,LS MBR (PREUSS SS)	U			59	SE	C	WLVC	01	
IL	323	WOMAC,COAL MBR (MODESTO FM)				<1	C	C	WOMC	01	
OK	364+	WOMBLE,FM	U						WMBL	02	
OK	367	WOMBLE,FM	U						WMBL	06	
AR	364+	WOMBLE,SH	U						WMBL	01	
OK	364+	WOMBLE,SH	U						WMBL	04	
AR	367	WOMBLE,SH	U						WMBL	05	
OK	367	WOMBLE,SH	U						WMBL	08	
OK	364+	WOMBLE,SS	U						WMBL	03	
OK	367	WOMBLE,SS	U						WMBL	07	
WI	371	WONEWOC,FM (ELK MOUND GP)				24	SC	D	WNWC	01	
ID	231	WOOD,SH							WOOD	01	
UT	231	WOOD,SH							WOOD	03	
WY	231	WOOD,SH	U						WOOD	05	
ID	231	WOOD,SH TONGUE (ANKAREH FM)	U						WOOD	02	
WY	231	WOOD,SH TONGUE (ANKAREH FM)	U						WOOD	06	
MT	341	WOODBEND,FM							WOBD	01	
ND	341	WOODBEND,FM							WOBD	02	
TX	212	WOODBINE,CLAY	U			180	NE	A	WDBN	07	
AR	212	WOODBINE,FM	U						WDBN	01	
LA	212	WOODBINE,FM	U						WDBN	02	



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
OK 212	WOODBINE,FM	U						WDBN 05
TX 212	WOODBINE,FM	U						WDBN 08
LA 212	WOODBINE,GP							WDBN 03
TX 212	WOODBINE,GP							WDBN 09
LA 212	WOODBINE,SAND	U						WDBN 04
OK 212	WOODBINE,SAND	U						WDBN 06
TX 212	WOODBINE,SAND	U						WDBN 10
NJ 211	WOODBIDGE,CLAY MBR (RARITAN FM)	U			24	EC	A	WDBG 01
CT 340	WOODBIDGE,GRANITE	U				C	D	WDBG 02
NJ 211	WOODBURY,CLAY (MATAWAN GP)	U			17	WC	A	WDBR 01
VT 347	WOODBURY,GRANITE					NE	A	WDBR 06
IL 322	WOODBURY,LS MBR (MATTOON FM)				<1	EC	C	WDBR 05
NY 347	WOODBURY CREEK,FM		SS		15	SE	C	WBCK 06
NJ 347	WOODBURY CREEK,MBR (ESOPUS FM)							WBCK 08
NY 347	WOODBURY CREEK,MBR (ESOPUS FM)							WBCK 05
NJ 347	WOODBURY CREEK,MBR (PINE HILL FM)							WBCK 07
NY 347	WOODBURY CREEK,MBR (PINE HILL FM)							WBCK 09
CA 377+	WOOD CANYON,FM	U						WDCN 01
NV 377+	WOOD CANYON,FM	U	SS		640	SE	A	WDCN 02
CA 410	WOOD CANYON,FM	U						WDCN 03
NV 410	WOOD CANYON,FM	U						WDCN 04
AK 344+	WOODCHOPPER,VOLCS	U			2300	NE	A	WDPC 01
AK 347	WOODCHOPPER,VOLCS	U						WDPC 02
PA 341	WOODCOCK,MBR (CATTARAUGUS FM)				8	NE	A	WCCK 11
PA 341	WOODCOCK,MBR (VENANGO FM)							WCCK 07
PA 341	WOODCOCK,SS							WCCK 08
OK 337+	WOODFORD,CHERT	U			210	SC	A	WDFD 01
OK 341	WOODFORD,CHERT	U						WDFD 03
OK 337+	WOODFORD,SH	U						WDFD 02
TX 337+	WOODFORD,SH							WDFD 05
OK 341	WOODFORD,SH	U						WDFD 04
TX 341	WOODFORD,SH							WDFD 06
PA 317+	WOODGLEN,LS [BED] (WAYNESBURG FM)				3	SW	C	WDGL 03
PA 321	WOODGLEN,LS [BED] (WAYNESBURG FM)							WDGL 02
CA 122	WOODHAMS,SH MBR (MONTEREY FM)				150	WC	C	WDMS 01
WI 371	WOODHILL,MBR (FRANCONIA FM)		SS		9	C	C	WDLL 02
KS 122	WOODHOUSE,CLAY [MBR] (OGALLALA FM)			VAR	18	WC	A	WDHS 01
KS 122	WOODHOUSE,FM							WDHS 02
AZ 112	WOODHOUSE MESA,BASALT					NC	D	WDSM 01
ID 337	WOODHURST,MBR (LODGEPOLE LS)	U						WDRS 01

MT	337	WOODHURST,MBR (LODGEPOLE LS)	U		170	C	A	WDRS	03	
UT	337	WOODHURST,MBR (LODGEPOLE LS)	U					WDRS	05	
WY	337	WOODHURST,MBR (LODGEPOLE LS)	U					WDRS	07	
ID	337	WOODHURST,MBR (MADISON LS)						WDRS	02	
MT	337	WOODHURST,MBR (MADISON LS)						WDRS	04	
UT	337	WOODHURST,MBR (MADISON LS)						WDRS	06	
WY	337	WOODHURST,MBR (MADISON LS)						WDRS	08	
GA	400	WOODLAND,GNEISS	U		30	WC	C	WDL D	02	
UT	331	WOODMAN,FM	U	SS,LS	460	WC	A	WDMN	01	
MD	341	WOODMONT,SH	U		730	NW	A	WDMN	02	
PA	341	WOODMONT,SH	U					WDMN	04	
WV	341	WOODMONT,SH	U					WDMN	06	
MD	341	WOODMONT,SH MBR (JENNINGS FM)	U					WDMN	03	
PA	341	WOODMONT,SH MBR (JENNINGS FM)	U					WDMN	05	
NV	344	WOODPECKER,LS MBR (NEVADA FM)	U		140	EC	C	WPCK	02	
ID	317+	WOOD RIVER,FM	U	QTZ	910	SC	A	WDRV	02	
ID	321	WOOD RIVER,FM	U					WDRV	03	
ID	324	WOOD RIVER,FM	U					WDRV	04	
NV	341+	WOODRUFF,FM	U	MS	900	NE	E	WDRF	01	
NV	344	WOODRUFF,FM	U					WDRF	02	
NV	347	WOODRUFF,FM	U					WDRF	03	
VT	371+	WOODS CORNERS,GP		SL,CGL		NW	C	WDCR	02	
VT	374	WOODS CORNERS,GP						WDCR	01	
TX	364	WOODS HOLLOW,SH	U		140	WC	A	WDHL	03	
ID	237	WOODSIDE,FM	U					WDSO	02	
MT	237	WOODSIDE,FM	U					WDSO	06	
UT	237	WOODSIDE,FM	U		RD	360	NC	A	WDSO	09
WY	237	WOODSIDE,FM	U					WDSO	11	
WY	237	WOODSIDE,RED BEDS	U					WDSO	12	
CO	237	WOODSIDE,SH						WDSO	01	
ID	237	WOODSIDE,SH	U					WDSO	03	
MT	237	WOODSIDE,SH						WDSO	07	
UT	237	WOODSIDE,SH						WDSO	10	
WY	237	WOODSIDE,SH						WDSO	13	
ID	237	WOODSIDE,SS	U					WDSO	04	
MT	237	WOODSIDE,SS						WDSO	08	
ID	237	WOODSIDE,STS	U					WDSO	05	
KS	322	WOOD SIDING,FM (WABAUNSEE GP)	U					WDSG	01	
NE	322	WOOD SIDING,FM (WABAUNSEE GP)	U	LS	15	SE	C	WDSG	02	
OK	322	WOOD SIDING,FM (WABAUNSEE GP)						WDSG	03	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
CA	210	WOODSON MOUNTAIN, GRANODIORITE	U				SE	C	WDSM 03
AZ	317	WOODS RANCH, MBR (TOROWEAP FM)		SED			NW	D	WDRC 01
PA	321	WOODS RUN, LS BED (GLENSHAW FM)				<1	WC	A	WDSR 07
ME	340+	WOODSTOCK, GP		SCH			SW	D	WDCK 09
ME	350	WOODSTOCK, GP							WDCK 10
MD	320+	WOODSTOCK, GRANITE	U				NC	A	WDCK 04
MD	330	WOODSTOCK, GRANITE	U						WDCK 07
MD	320+	WOODSTOCK, GRANODIORITE	U						WDCK 05
MD	330	WOODSTOCK, GRANODIORITE	U						WDCK 08
MD	124	/WOODSTOCK, GREENSAND MARL MBR (NANJEMOY FM)	U						WDCK 01
VA	124	/WOODSTOCK, GREENSAND MARL MBR (NANJEMOY FM)	U			37	EC	A	WDCK 02
MD	320+	WOODSTOCK, QUARTZ MONZONITE							WDCK 20
MD	330	WOODSTOCK, QUARTZ MONZONITE							WDCK 21
VT	350	WOODSTOCK, SCHIST						C	A
CT	400	WOODTICK, GNEISS	U					C	D
CT	307	WOODVILLE, MARBLE						NW	C
MI	324	WOODVILLE, SS (GRAND RIVER GP)				93	SE	A	WDVL 01
MI	324	WOODVILLE, SS MBR (SAGINAW FM)	U						WDVL 02
TN	364	WOODWAY, LS	U						WDWY 03
VA	364	WOODWAY, LS	U			88	SW	C	WDWY 02
TN	364	WOODWAY, LS (CHICKAMAUGA GP)							WDWY 03
NY	400	WOODWORTH POND, QTZ				30	EC	E	WDPD 01
AR	328	WOOLSEY, MBR (BLOYD FM)	U			14	NW	C	WLSY 09
AR	328	WOOLSEY, MBR (BLOYD SH)	U						WLSY 01
RI	400	WOONASQUATUCKET, FM	U	SCH		400	NC	C	WQCK 01
OH	337	WOOSTER, SH MBR (CUYAHOGA FM)						NC	C
CT	320	WORCESTER, FM	U						WRCR 01
MA	320	WORCESTER, FM	U					C	A
NH	320	WORCESTER, FM	U						WRCR 02
MA	320	WORCESTER, PHYLLITE	U						WRCR 07
TX	313	WORD, FM	U	LS		190	WC	A	WORD 01
CA	121	WORKMAN HILL, CGL						SC	C
OK	325	WORLAND, [BED] (ALTAMONT MBR OF OOLOGAH LS)							WRLD 05
IA	325	WORLAND, MBR (ALTAMONT LS)							WRLD 02
KS	325	WORLAND, MBR (ALTAMONT LS)							WRLD 03
MO	325	WORLAND, MBR (ALTAMONT LS)						1	WC
OK	325	WORLAND, MBR (ALTAMONT LS)							WRLD 04
CA	400	WORLD BEATER, COMPLEX						EC	A
CA	400	WORLD BEATER, GRANITE PORPHYRY							WLDB 02
ID	371	WORM CREEK, QTZ MBR (ST. CHARLES FM)				91	SE	A	WMCK 07

ID	371	WORM CREEK,QTZ MBR (ST. CHARLES LS)	U							WMCK	03		
UT	371	WORM CREEK,QTZ MBR (ST. CHARLES LS)	U							WMCK	04		
OK	337	WORTHEY,MBR (SYCAMORE LS)				94	SC	C		WRTY	01		
PA	324	WORTHINGTON,SS MBR (ALLEGHENY FM)	U			12	WC	A		WRNG	01		
AK	111+	WRANGELL,LAVA	U			2600	SE	A		WRGL	01		
AK	112	WRANGELL,LAVA	U							WRGL	02		
AK	121	WRANGELL,LAVA	U							WRGL	03		
AK	122	WRANGELL,LAVA	U							WRGL	04		
KS	317	WREFORD,LS (CHASE GP)	U			8	EC	A		WRFD	03		
NE	317	WREFORD,LS (CHASE GP)	U							WRFD	04		
OK	317	WREFORD,LS (CHASE GP)	U							WRFD	05		
OK	317	WREFORD,LS (OSCAR GP)	U							WRFD	08		
MN	112	WRENSHALL,FM								WRSL	01		
AZ	237	WUPATKI,MBR (MOENKOPI FM)	U	CL,ST					NE	E	WPTK	01	
MO	323	WYANDOTTE,FM (KANSAS CITY GP)	U	STS		15			NE	C	WPTK	01	
IA	323	WYANDOTTE,LS (KANSAS CITY GP)	U								WNDT	06	
KS	323	WYANDOTTE,LS (KANSAS CITY GP)	U			30			NE	A	WNDT	01	
MO	323	WYANDOTTE,LS (KANSAS CITY GP)	U								WNDT	02	
MO	323	WYANDOTTE,LS (KANSAS CITY GP)	U								WNDT	03	
NE	323	WYANDOTTE,LS (KANSAS CITY GP)	U								WNDT	04	
OR	112	WYATT,MBR (WILLAMETTE SILT)	U	ALV		3			WC	E	WYTT	01	
NV	112	WYEMAH,FM (LAHONTAN VALLEY GP)	U	SD		30			WC	D	WYMH	01	
CA	123	WYGAL,SS MBR (TEMBLOR FM)	U			23			SC	E	WYGL	01	
IA	361	WYKOFF,MBR (MAQUOKETA FM)									WKFF	01	
MN	361	WYKOFF,MBR (MAQUOKETA FM)									WKFF	02	
MN	112	WYLIE,FM				21			SE	A	WYLI	03	
ND	112	WYLIE,FM		CL,ST		2			NW	E	WYLI	02	
MN	112	WYLIE,MBR (COLEHARBOR FM)									WYLI	01	
CA	410	WYMAN,FM	U	SCH		1100			EC	A	WYMN	01	
NV	410	WYMAN,FM	U								WYMN	02	
MT	341	WYMARK,MBR (DUPEROW FM)	U	LS,DOL		120			CAN	E	WMRK	01	
KS	317	WYMORE,MBR (MATFIELD SH)	U								WYMR	03	
NE	317	WYMORE,MBR (MATFIELD SH)	U			6			SE	A	WYMR	04	
PA	331	WYMPS GAP,LS MBR (MAUCH CHUNK FM)				12			SW	D	WPGP	01	
TX	321	WYNN,LS (STRAWN GP)								C	C	WYNN	03
TX	321	WYNN,LS MBR (PALO PINTO FM)										WYNN	04
OK	322	WYNONA,SS MBR (VAMOOSA FM)	U			6			NE	A	WYNN	02	
IA	364	WYOTA,MBR (DUNLEITH FM)										WYOT	02
IL	364	WYOTA,MBR (DUNLEITH FM)										WYOT	02
OR	124	YACHATS,BASALT	U	DOL		6			NC	C	WYOT	01	
NC	370	YADKIN,GRAYWACKE (ALBEMARLE GP)				750			WC	E	YCTS	01	
						910			C	D	YDKN	01	

GEOL. ST.	AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NC	370	YADKIN, MBR (MILLINGPORT FM)	U						YDKN 02
AZ	430	YAEGER, GREENSTONE				610	C	C	YEGR 01
CA	217+	YAGER, FM		MS, SH		3000	NW	C	YGER 01
CA	221	YAGER, FM							YGER 02
AK	112+	YAKATAGA, FM	U	SS, SH		1500	EC	A	YKTG 01
AK	121	YAKATAGA, FM	U						YKTG 02
AK	122	YAKATAGA, FM	U						YKTG 03
OR	121+	YAKIMA, BASALT (COLUMBIA RIVER GP)	U						YKIM 01
WA	121+	YAKIMA, BASALT (COLUMBIA RIVER GP)	U			1500	SC	A	YKIM 02
OR	122	YAKIMA, BASALT (COLUMBIA RIVER GP)	U						YKIM 03
WA	122	YAKIMA, BASALT (COLUMBIA RIVER GP)	U						YKIM 04
MT	331	YAKINIKAK, LS				30	NW	A	YKKK 01
AK	211+	[YAKUTAT, FM]		SS, SH		910	EC	A	YKTT 04
AK	217	[YAKUTAT, FM]							YKTT 05
AK	221	[YAKUTAT, FM]							YKTT 06
AK	211+	/YAKUTAT, GP	U						YKTT 01
AK	217	/YAKUTAT, GP	U						YKTT 02
AK	221	/YAKUTAT, GP	U						YKTT 03
MI	430	YALE, MBR (IRONWOOD IRON-FM)	U	SL		110	NW	A	YALE 01
AZ	211	YALE POINT, SS (MESAVERTGE GP)	U			62	NE	C	YLPN 01
OR	124	YAMHILL, FM	U	STS, MS		1500	NW	C	YMLL 01
AZ	374	YAMPAI CLIFFS, MBR (MUAV LS)				30	NW	D	YPCF 01
ID	124	YANKEE FORK, RHYOLITE MBR (CHALLIS VOLCS)	U			490	SC	A	YKFK 01
MO	332	YANKEETOWN, SS	U						YKNK 03
IL	332	YANKEETOWN, SS (CEDAR BLUFF GP)	U			6	SW	A	YKNK 01
CT	364+	YANTIC, MBR (TATNIC HILL FM)	U	SCH		380	EC	D	YNTC 01
CT	367	YANTIC, MBR (TATNIC HILL FM)	U						YNTC 02
CT	370	YANTIC, MBR (TATNIC HILL FM)	U						YNTC 03
OR	111	YAPOAH, BASALT					C	C	YPOH 01
OR	122+	YAQUINA, FM	U			1200	WC	A	YQUN 01
OR	123	YAQUINA, FM	U						YQUN 03
OR	122+	YAQUINA, SS	U						YQUN 02
OR	123	YAQUINA, SS	U						YQUN 04
CO	311	YARMONY, LS MBR (STATE BRIDGE FM)				3	WC	D	YRMN 01
NM	313	YATES, FM (ARTESIA GP)	U						YTES 01
TX	313	YATES, FM (ARTESIA GP)	U			15	WC	C	YTES 03
TX	313	YATES, FM (CARLSBAD GP)							YTES 05
NM	313	YATES, SS (ARTESIA GP)	U						YTES 02
TX	313	YATES, SS (ARTESIA GP)	U						YTES 04
AZ	430	YAVAPAI, SCHIST	U			2100	C	A	YVPI 01



GEOL. ST. AGE	GEOLOGIC NAME	USAGE	LITH.	COLOR	THICK- NESS	TYPE LOC.	REF.	IDENT.
NY 400	YONKERS,GRANITE	U						YKRS 01
OR 121	YONNA,FM	U	VSED		600	SW	C	YONN 01
CA 122	YORBA,MBR (PUENTE FM)	U	STS		760	SC	C	YORB 01
AK 112	YORK,DRIFT					NC	D	YORK 01
MD 121	YORKTOWN,FM (CHESAPEAKE GP)	U						YRKN 03
NC 121	YORKTOWN,FM (CHESAPEAKE GP)	U						YRKN 04
VA 121	YORKTOWN,FM (CHESAPEAKE GP)	U	SD,CL		30	SE	A	YRKN 05
NC 310	YORKVILLE,QUARTZ MONZONITE	U						YKVL 02
SC 310	YORKVILLE,QUARTZ MONZONITE	U				NC	A	YKVL 03
IL 112	YORKVILLE,TILL MBR (WEDRON FM)				61	NE	E	YKVL 01
CA 211	YOSEMITE CREEK,GRANODIORITE					C	D	YMCK 01
CO 324	YOUGHALL,FM		LS	RD	190	NW	C	YGLL 01
UT 324	YOUGHALL,FM							YGLL 03
NV 122	YOUNG AMERICA,GRAVEL				>1200	NE	D	YGAM 01
VT 364	YOUNGMAN,FM (CHAZY GP)		LS		91	NW	C	YNGM 03
VT 364	YOUNGMAN,FM (MAQUAM GP)							YNGM 02
UT 374	YOUNG PEAK,DOL	U			180	WC	A	YGPK 01
NM 120	YOUNG RANCH,TUFF				30	SW	D	YGRC 01
TX 218	YUCCA,FM	U	LS		1700	WC	C	YUCC 02
NV 122	YUCCA MOUNTAIN,MBR (PAINTBRUSH TUFF)	U			76	SC	D	YCMN 01
NV 122	YUCCA MOUNTAIN,MBR (PIAPI CANYON FM)							YCMN 02
AK 400	YUKON,GP			SCH		NE	A	YUKN 02
AK 112	YUKON,SILT					NE	A	YUKN 01
TX 124	YUMA,SS MBR (MANNING FM)				8	SE	A	YUMA 01
CA 377	ZABRISKIE,FM				49	EC	C	ZBRK 01
NV 377	ZABRISKIE,FM							ZBRK 04
CA 377	ZABRISKIE,QTZ	U						ZBRK 02
NV 377	ZABRISKIE,QTZ	U						ZBRK 05
CA 377	ZABRISKIE,QTZ MBR (WOOD CANYON FM)							ZBRK 03
NV 377	ZABRISKIE,QTZ MBR (WOOD CANYON FM)							ZBRK 06
MO 211	ZADOC,MBR (MCNAIRY FM)		CL		9	SE	C	ZDOC 01
OH 324	ZALESKI,FLINT MBR (ALLEGHENY FM)			BK	<1	SC	A	ZLSK 01
MS 124	ZAMA,MBR (ZILPHA CLAY)				9	C	D	ZAMA 01
AL 307	ZANA,GRANITE					EC	E	ZANA 01
NV 367	ZANZIBAR,LS	U			240	C	A	ZZBR 01
CA 123	ZAYANTE,SS	U				WC	D	ZYNT 02
MO 322	ZEANDALE,FM (WABAUNSEE GP)							ZNDL 02
IA 322	ZEANDALE,LS (WABAUNSEE GP)							ZNDL 03
KS 322	ZEANDALE,LS (WABAUNSEE GP)	U			16	NE	C	ZNDL 01
MO 322	ZEANDALE,LS (WABAUNSEE GP)	U						ZNDL 04

ND	112	ZEELAND,DRIFT					SC	D	ZLND	01
MO	364	ZELL,LS MBR (MACY FM)				10	SE	C	ZELL	01
LA	124	ZENORIA,LENTIL (VERDA MBR OF YAZOO CLAY)				15	C	C	ZNOR	01
TX	344	ZESCH,FM			LS	<1	C	C	ZSCH	01
AK	120	ZETO POINT,BASALT PORPHYRY . . . . .	U			70	SC	C	ZTPN	01
NM	122	ZIA,SAND				300	NC	D	ZIA	01
AZ	211	ZILHLEJINI,FM			SH	61	NE	A	ZLLJ	01
MS	124	ZILPHA,CLAY (CLAIBORNE GP)	U			16	C	C	ZLPH	01
CO	123	ZIMMERMAN,ANDESITE (CAMERON PASS GP)					NC	D	ZMRM	01
SD	400	ZIMMER RIDGE,MBR (OREVILLE FM) . . . . .	U		MGYK	300	WC	E	ZMRG	01
NY	377	ZION HILL,QTZ							ZNHL	05
NY	377	ZION HILL,QTZ MBR (BULL FM)							ZNHL	01
VT	377	ZION HILL,QTZ MBR (BULL FM)				21	SW	A	ZNHL	03
NY	377	ZION HILL,QTZ MBR (NASSAU FM)							ZNHL	07
NY	377	ZION HILL,QTZ MBR (SCHODACK FM) . . . . .							ZNHL	02
VT	377	ZION HILL,QTZ MBR (SCHODACK FM)							ZNHL	04
VT	377	ZION HILL,QTZ MBR (ST. CATHERINE FM)							ZNHL	06
PA	374	ZOOKS CORNER,FM			DOL	500	SE	E	ZKCR	02
TX	123	ZOPILOTE,BRECCIA (GARREN GP)				45	WC	C	ZPLT	01
AZ	420	ZOROASTER,GRANITE . . . . .					NC	C	ZRSR	01
MT	367+	ZORTMAN,MBR (EMERSON FM)			SH	200	C	D	ZRMN	01
MT	371	ZORTMAN,MBR (EMERSON FM)							ZRMN	02
OK	323	ZUCKERMAN,LS MBR (HOXBAR FM)				9	SE	A	ZCKM	01
OK	323	ZUCKERMAN,SS (HOXBAR GP)							ZCKM	02
PA	371	ZULLINGER,FM (CONOCOCHEAQUE GP) . . . . .			LS	760	SC	D	ZLGR	01
NM	221	ZUNI,SS		U		400	NW	A	ZUNI	01
NM	111	ZUNI CANYON,BASALT		U		12	NW	D	ZNCN	01
TX	319	ZWEIG,SS [LENS] (SANTA ANNA BRANCH FM)					WC	D	ZWIG	01