

# DIGITAL MAPPING TECHNIQUES 2026

The following was presented at DMT '26  
May 10 - 13, 2026

The contents of this document are provisional

See Presentations and Proceedings  
from the DMT Meetings (1997-2026)  
<http://ngmdb.usgs.gov/info/dmt/>



# Geologic Hazards of the Occupational Kind:

A conversation on field safety for mappers

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**1. Starting the conversation**

**2. Why field safety?**

**3. The landscape of field safety**

**4. What we're doing**





**Do not edit**  
*How to change the design*



# How often are you in the field?

① The Slido app must be installed on every computer you're presenting from

**slido**



# Why field safety?



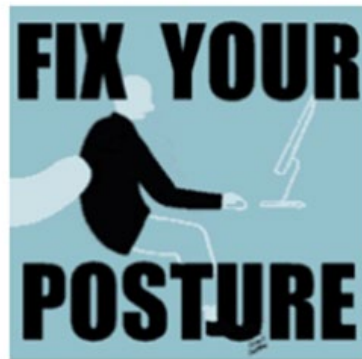
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NATURAL RESOURCES



# Thrive Tips

**Two Minute Posture Check-In.** Set a timer once or twice a day and ask yourself:

- Are my feet flat on the floor?
- Is my neck in a neutral position (not strained)?
- Are my shoulders relaxed (not hunched)?
- Am I sitting up straight?



**Carol never wore her safety goggles.**

**Now she doesn't need them.**



**FLINN SCIENTIFIC INC.**  
"Your Safer Source for Science Supplies"





**No one wants to be commemorated in policy.**





# The landscape of field safety





# Field geologists utilize many modes of transportation

Kirsten Schaefer





**To work in all  
manner of  
environments**

Marissa Schorr





## Each with a diverse array of hazards

Robyn Daniels





**Each with a  
diverse array  
of hazards**

Robyn Daniels





**Do not edit**  
*How to change the  
design*



# What are some examples of hazards geologists encounter in the field?





**Field geologists are exposed to every hazard under the sun...**





## ...including the sun itself

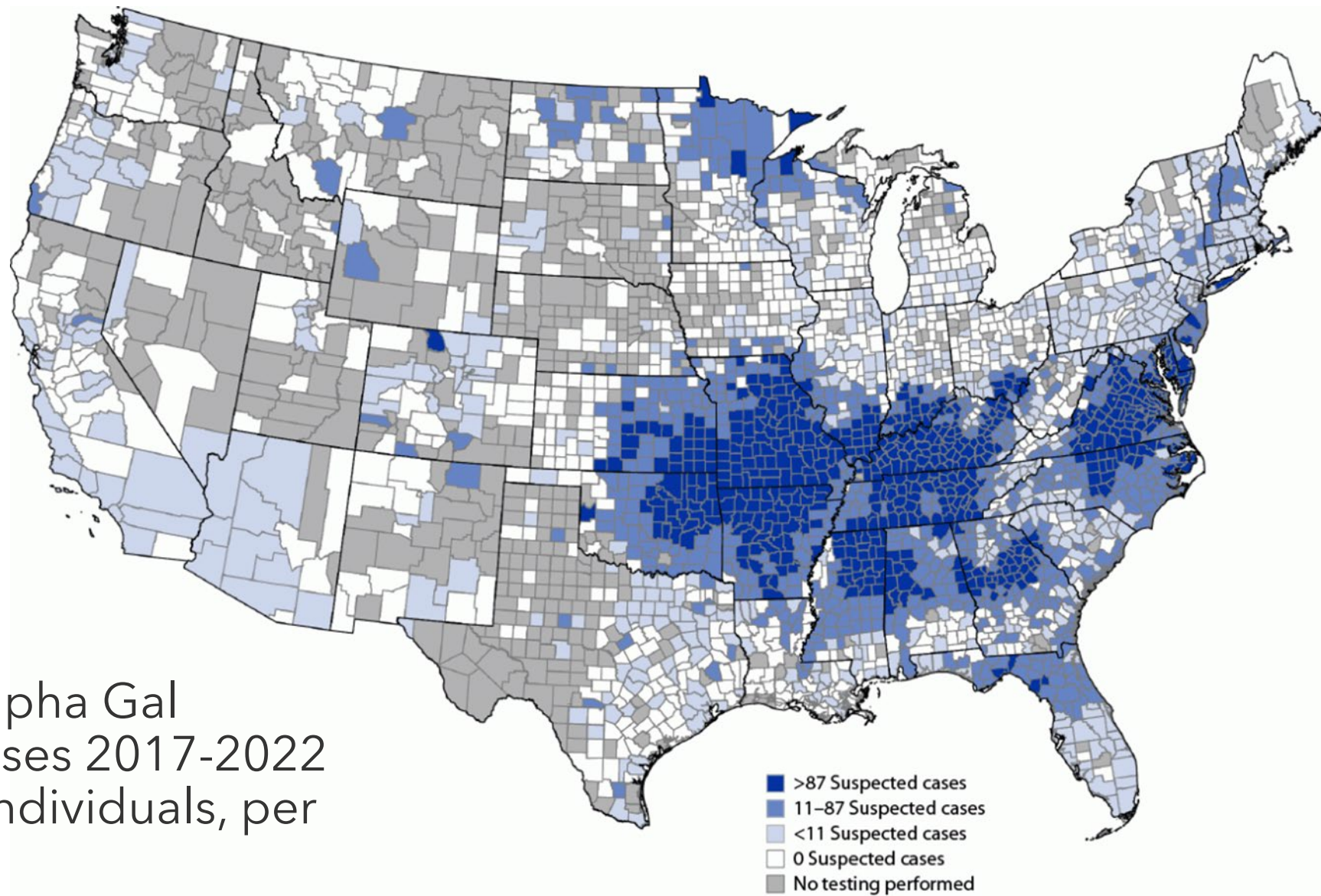
*Approximately 1 in 3 deaths from non-melanoma skin cancer are attributable to sun exposure at work<sup>1</sup>*

<sup>1</sup><https://www.who.int/news/item/08-11-2023-working-under-the-sun-causes-1-in-3-deaths-from-non-melanoma-skin-cancer--say-who-and-ilo>



# Field hazards vary widely by geography

Suspected Alpha Gal Syndrome cases 2017-2022 (per million individuals, per year)






<https://www.cdc.gov/mmwr/volumes/72/wr/mm7230a2.htm>

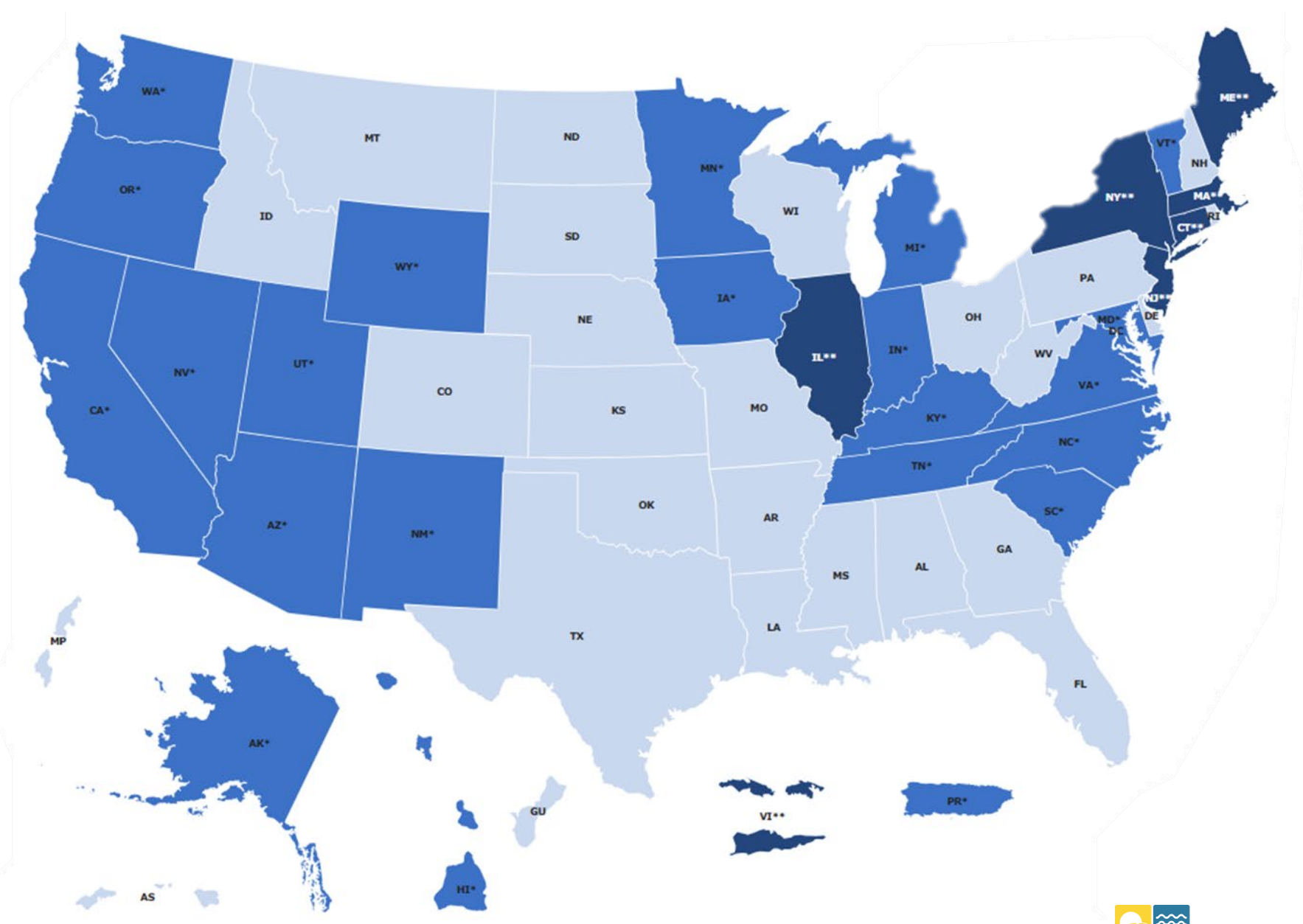


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# Workplace safety is a non-uniform standard for public employees

-  OSHA for private sector only
-  OSHA state plan for private and government workers
-  OSHA state plan for government workers only



<https://www.osha.gov/stateplans>





# What we're doing

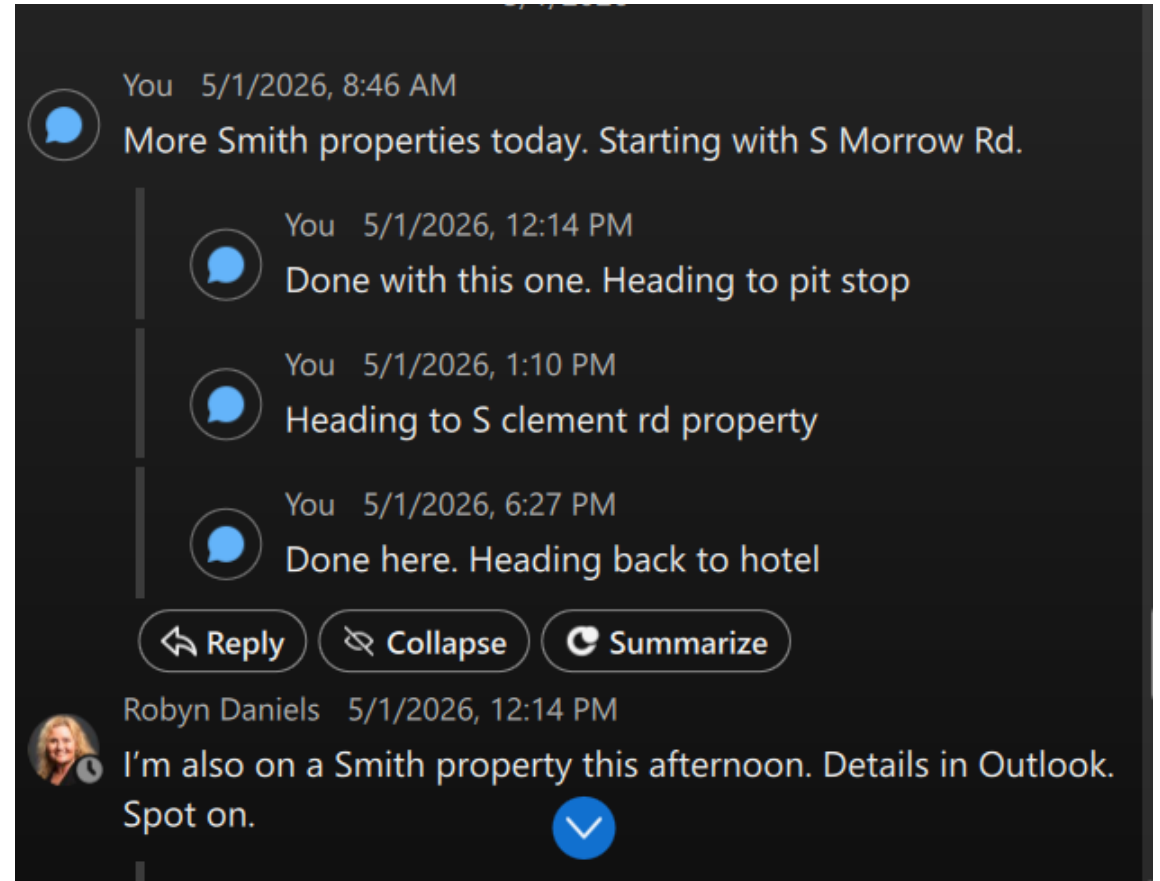




# Solo Safety



SPOT Satellite GPS Messenger



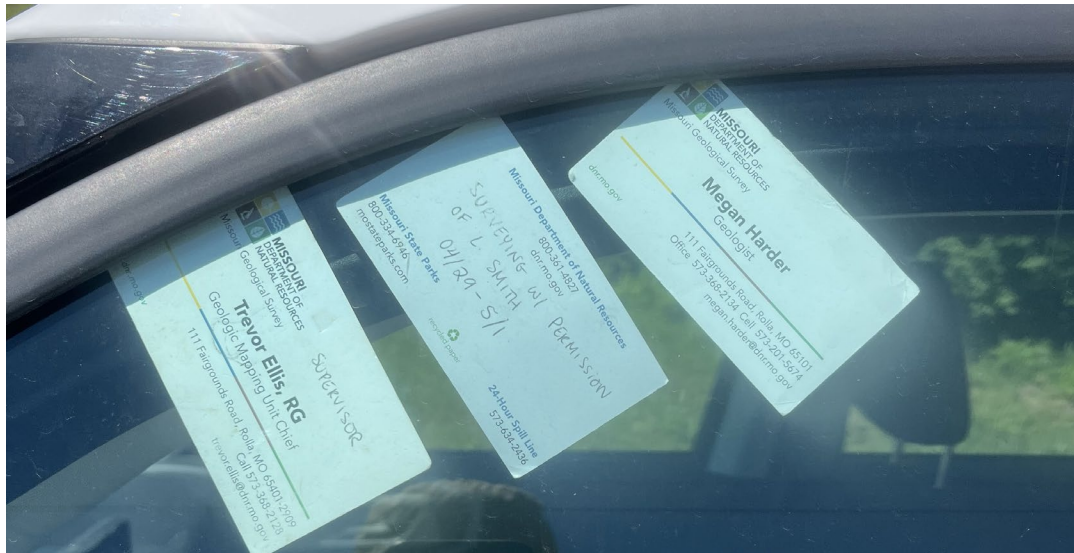
Group chat callouts





# Interpersonal Safety

- De-escalation training
- Business cards
- Background Checking



## Litigant Name Search

### Required Information

Search for cases in:

All Participating Courts

Search By

Person  Organization

Last Name:

Bear

Include Alias:

### Optional Information

First Name:

Smokey

Middle Name:

T

Case Type:

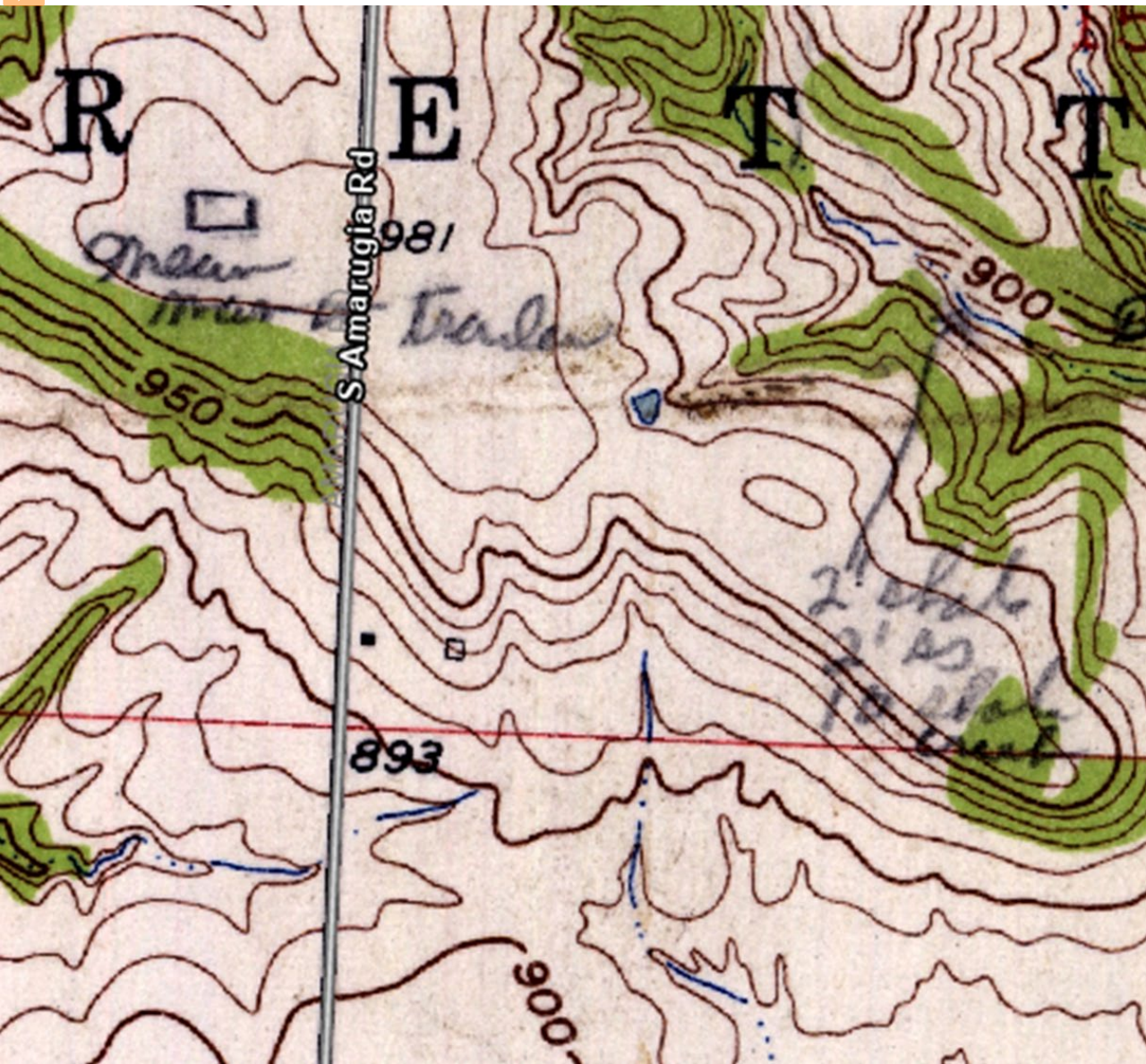
Family/Domestic

Year Case was Filed

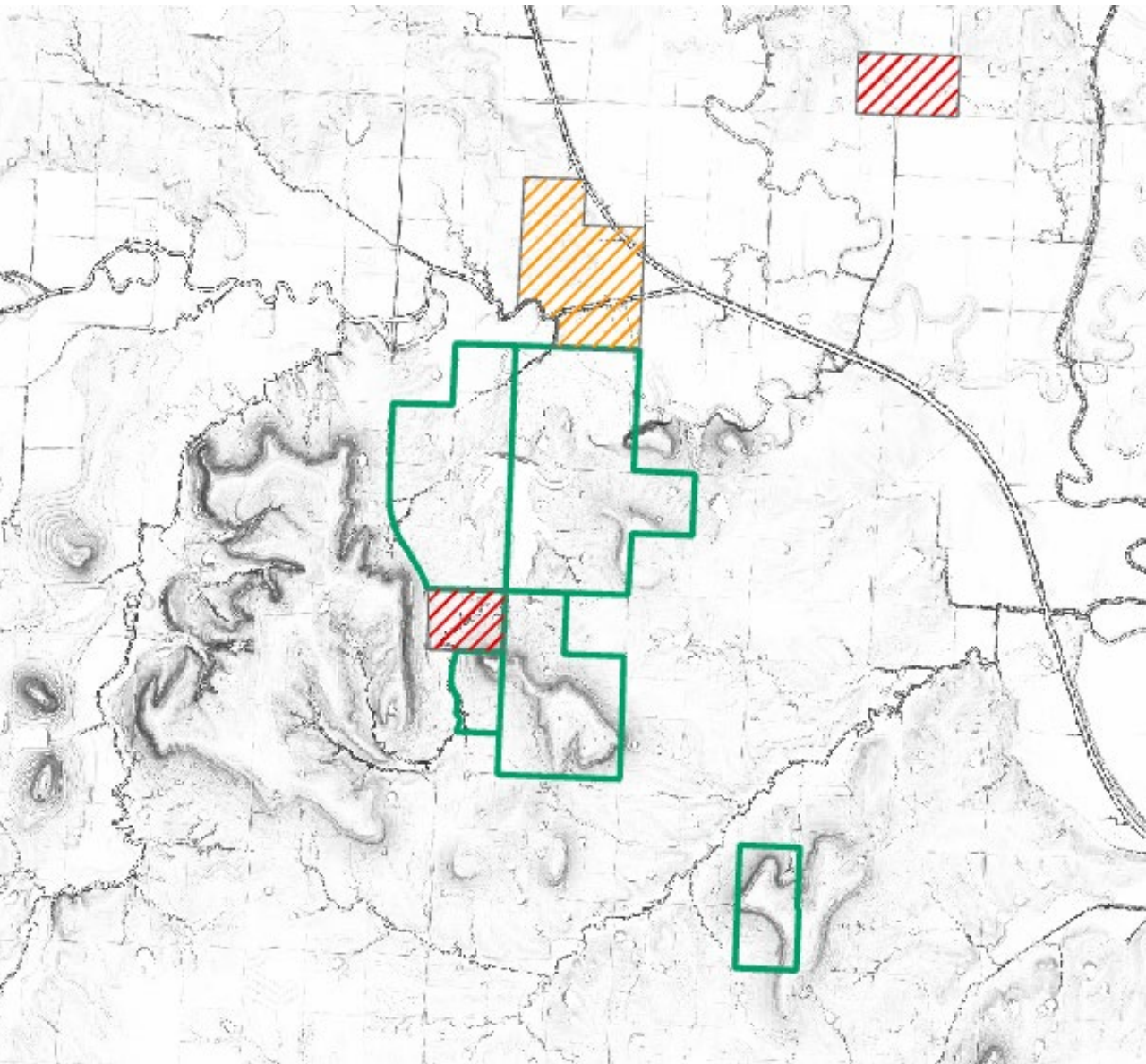
<https://www.courts.mo.gov/cnet/nameSearch.do?newSearch=Y>



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(F07142)



(Everett 7.5' Quadrangle, Conservation Areas)






# Tick Management

- Preventive clothing treatments
- Tick bite web form for worker's comp

insect  shield®



## Tick Reporting

**Employee Name \***

First Last

**Did You Seek Outside Medical Attention? \***

If "YES" is selected, after submitting this form, you'll be directed to the employee statement form to complete.





# Field Safety Manual

- 2024 Geological Survey Program strategic planning outcome
- Living document of current best practices

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# Thank You!

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