

The following was presented at DMT'11  
(May 22-25, 2011).

The contents are provisional and will be  
superseded by a paper in the  
DMT'11 Proceedings.

See also earlier Proceedings (1997-2010)  
<http://ngmdb.usgs.gov/info/dmt/>

# Publishing Surficial Geologic Maps of Delaware

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# DGS Geologic Mapping

- Early years (1970-1995)

DGS (hand-colored paper map mockup)

printing co. (cartography/mechanicals/prints map)

- Transition years (2000-2003)

DGS (digital geology polygons/text)

printing co. (cartography/mechanicals/digital files/prints map)

- Modern years (2004-present)

DGS (cartography, digital map)

printing co. (prints map)

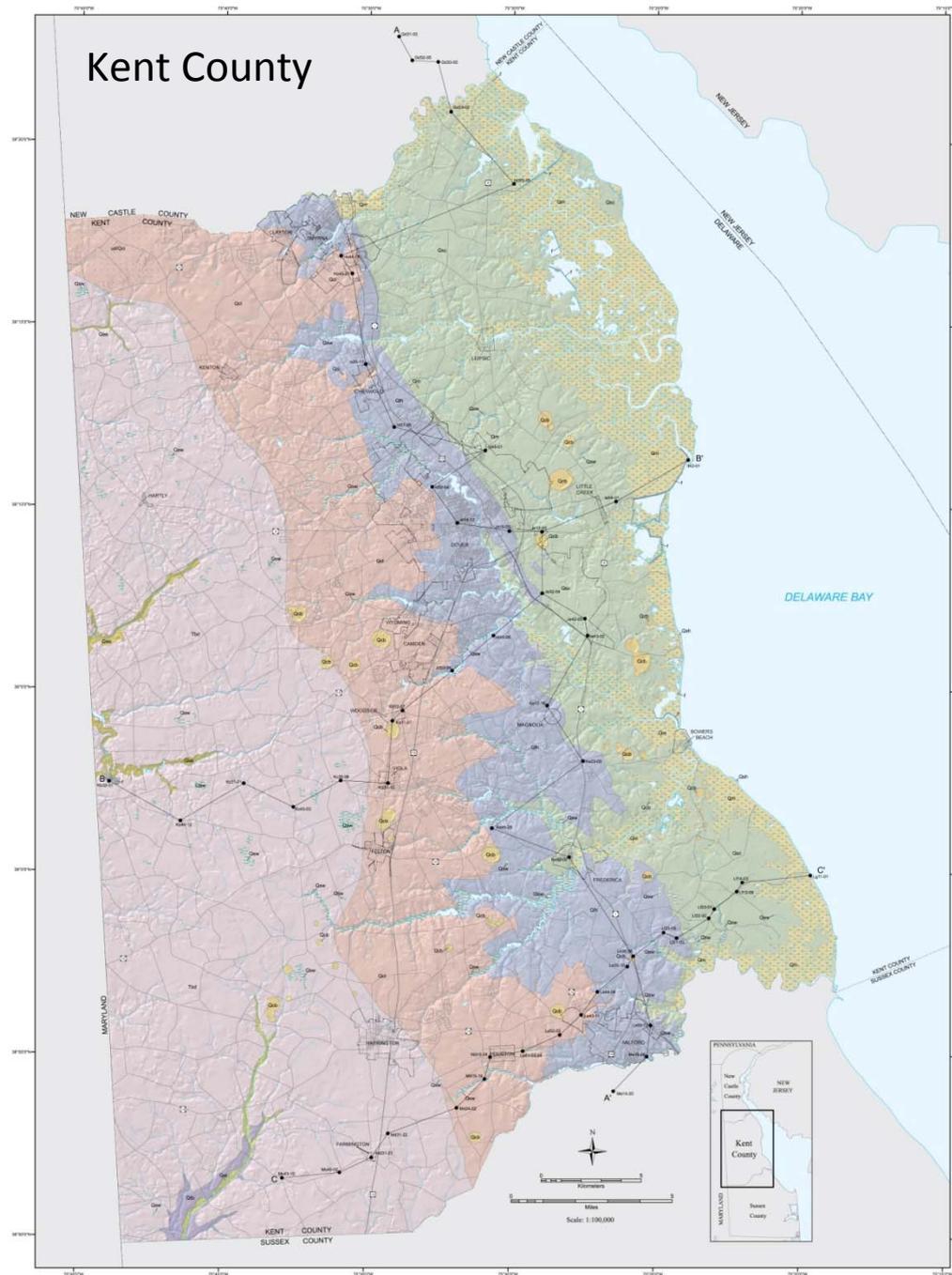
# Delaware DataMIL

<http://datamil.delaware.gov>

- **Boundaries** (state, county, municipal)
- **Water Features** (NHD)
- **Transportation** (centerline)
- **Elevation** (2 ft contours)
- County Parcels
- Geodetic Control
- Surface Cover
- Geographic Names
- Aerial Imagery



# New Castle County



## Georgetown Quadrangle swiss hillshade method

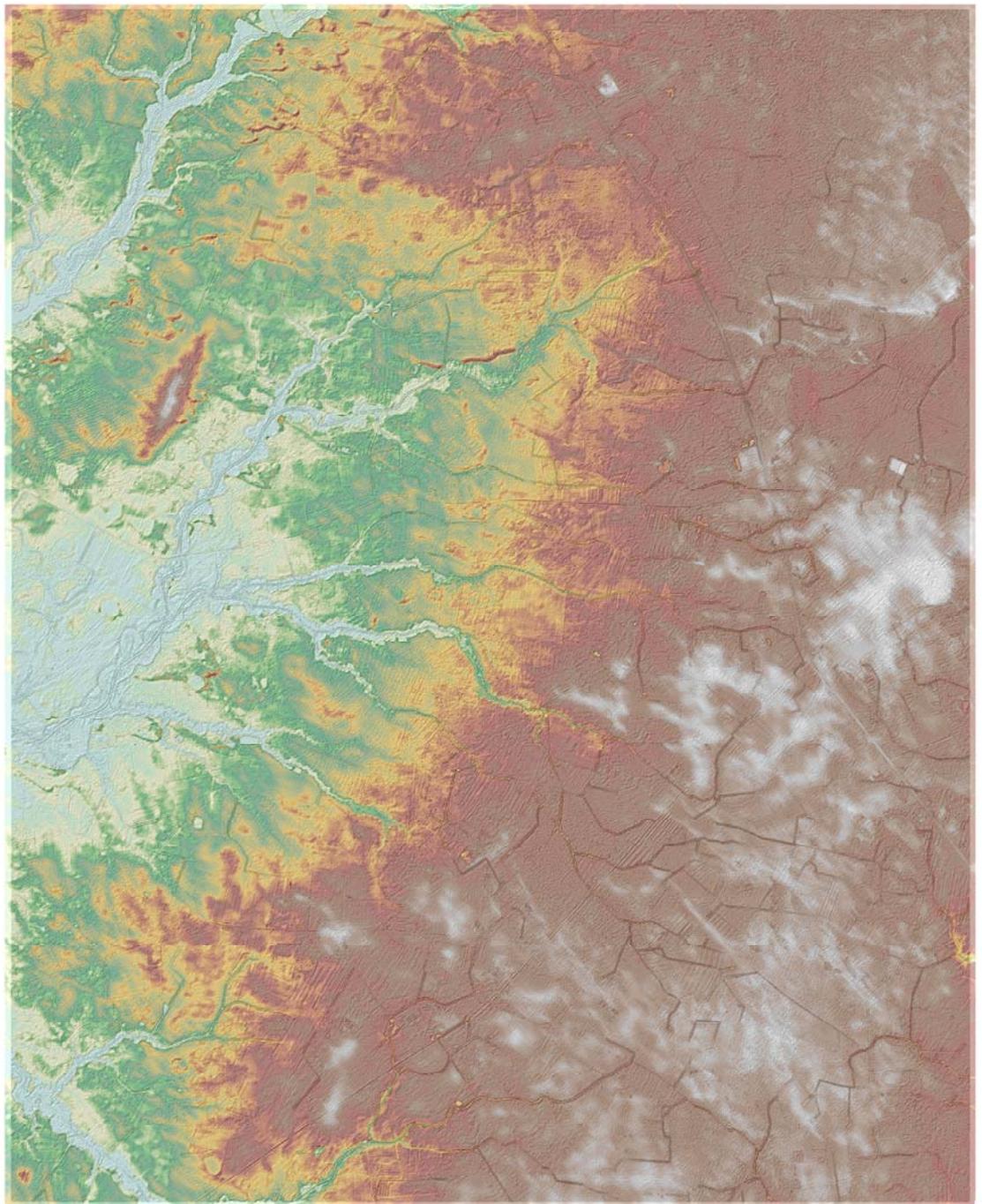
- ESRI Spatial Analyst
- LiDAR DEM
- hillshade

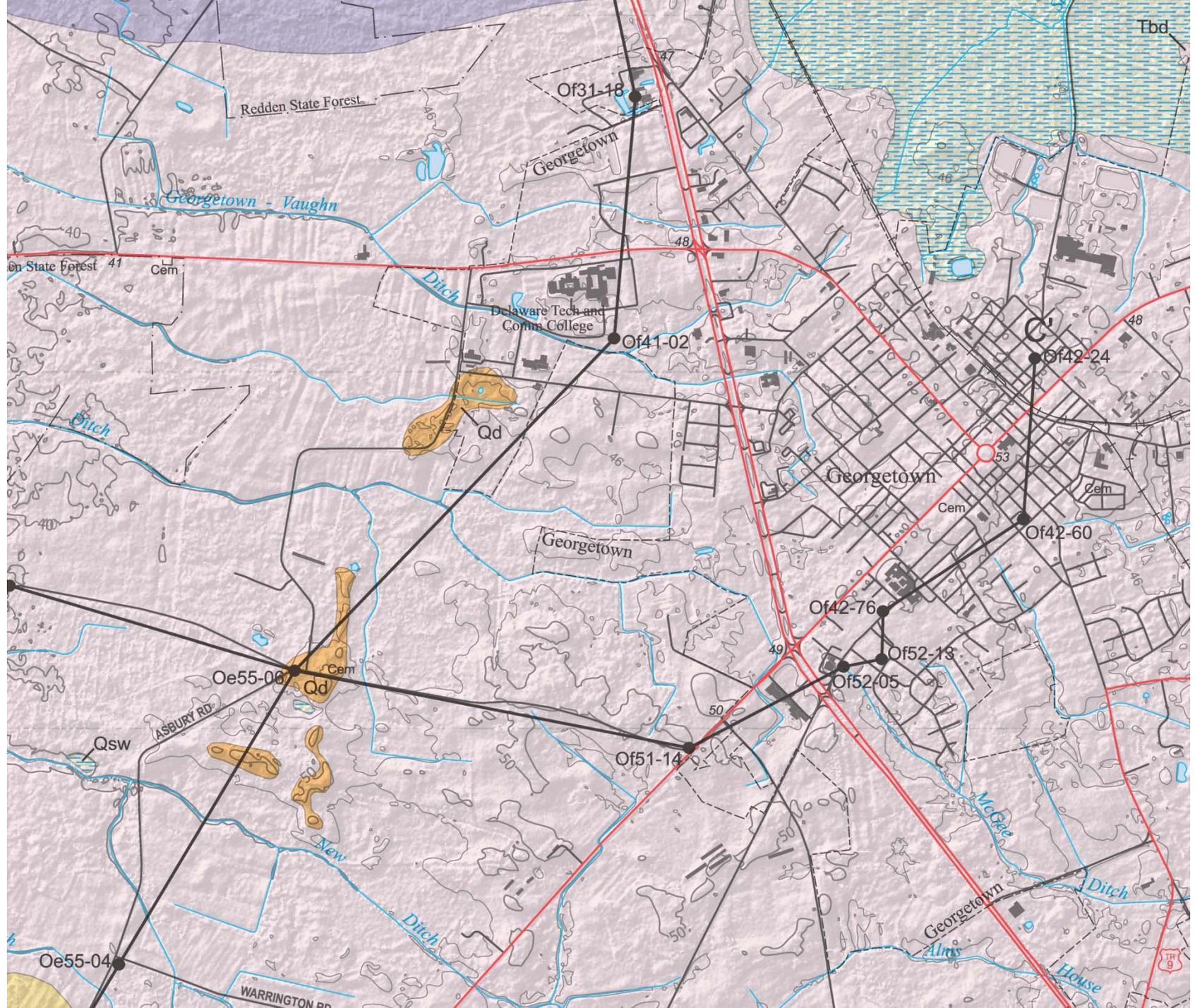
## Final display datasets

- LiDAR DEM
- median filter grid
- raster calculator grid

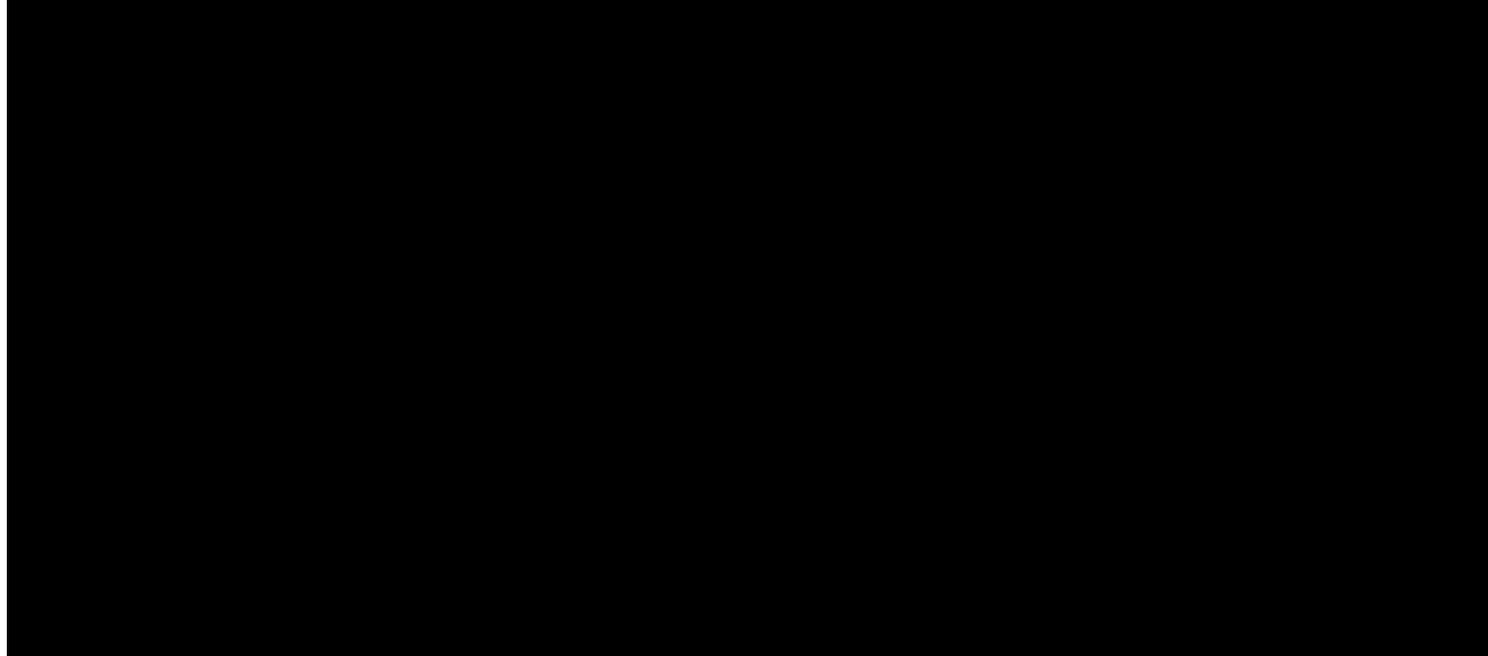
<http://mappingcenter.esri.com>

Search “swiss hillshade 2007”

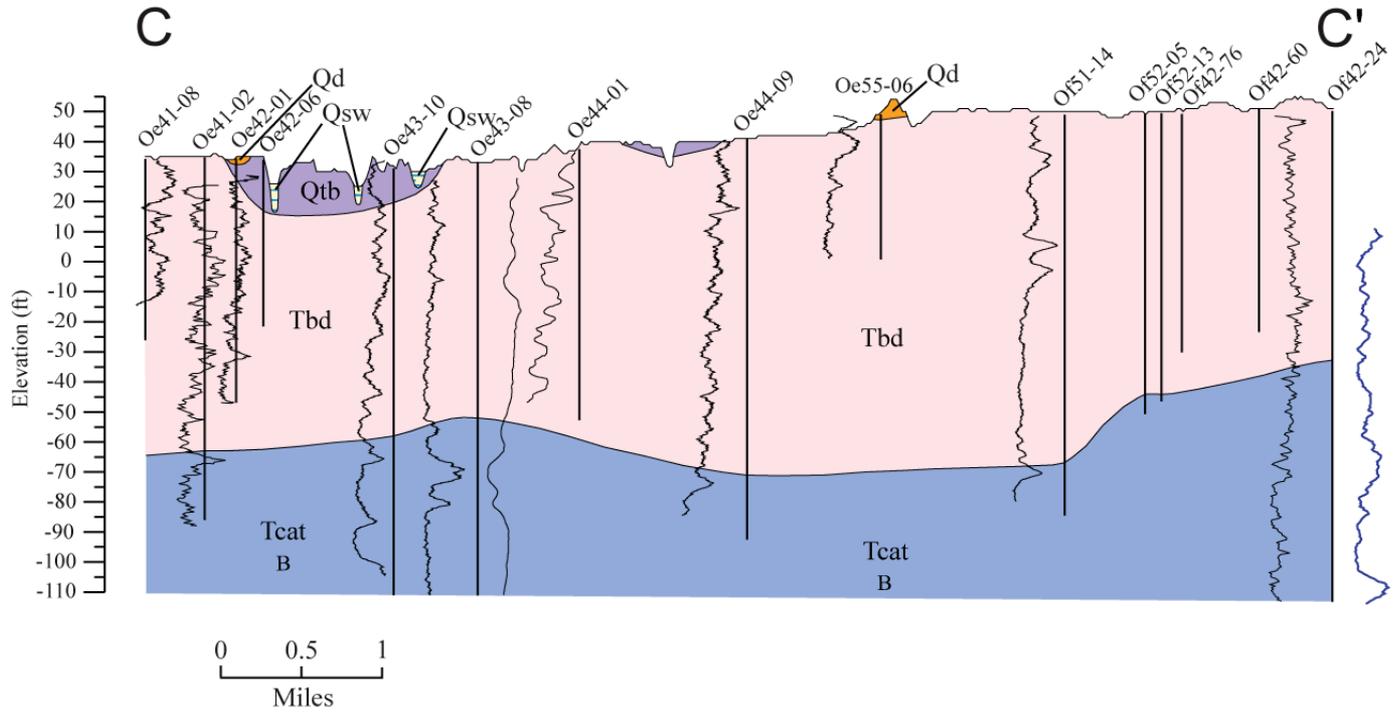




hand drawn  
cross section



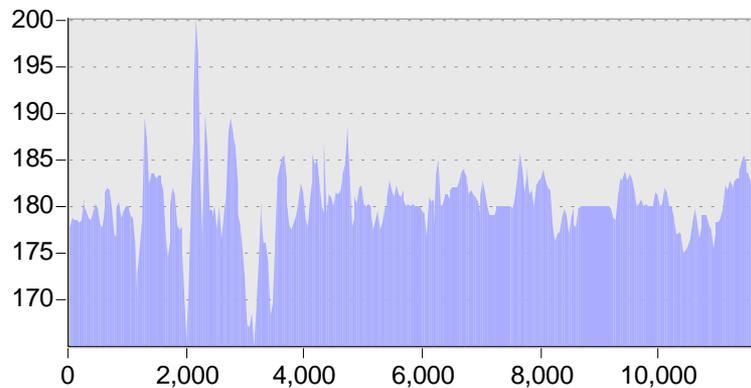
digital  
cross section



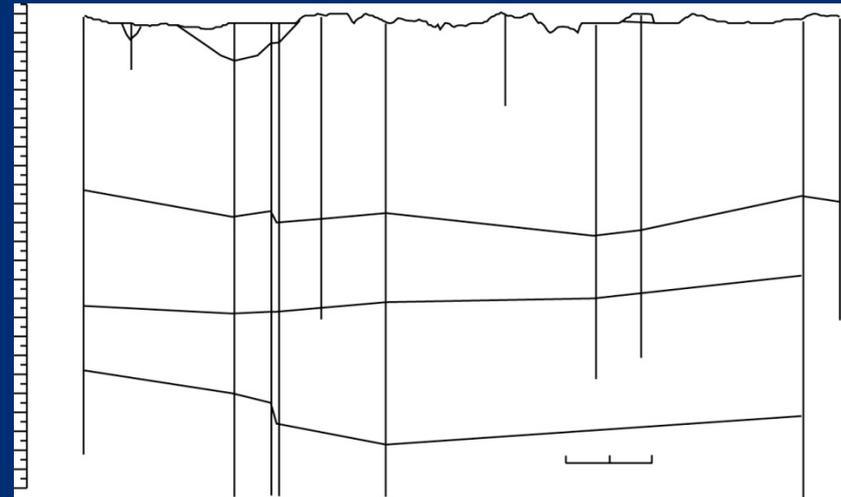
# Digital Cross Sections

- ArcMap - 3D Analyst
  - (well locations, DEM)
- Profile Graph exported as data table
- Data table imported to Grapher
- Cross-section figure is exported to Adobe Illustrator

**Profile Graph Title**

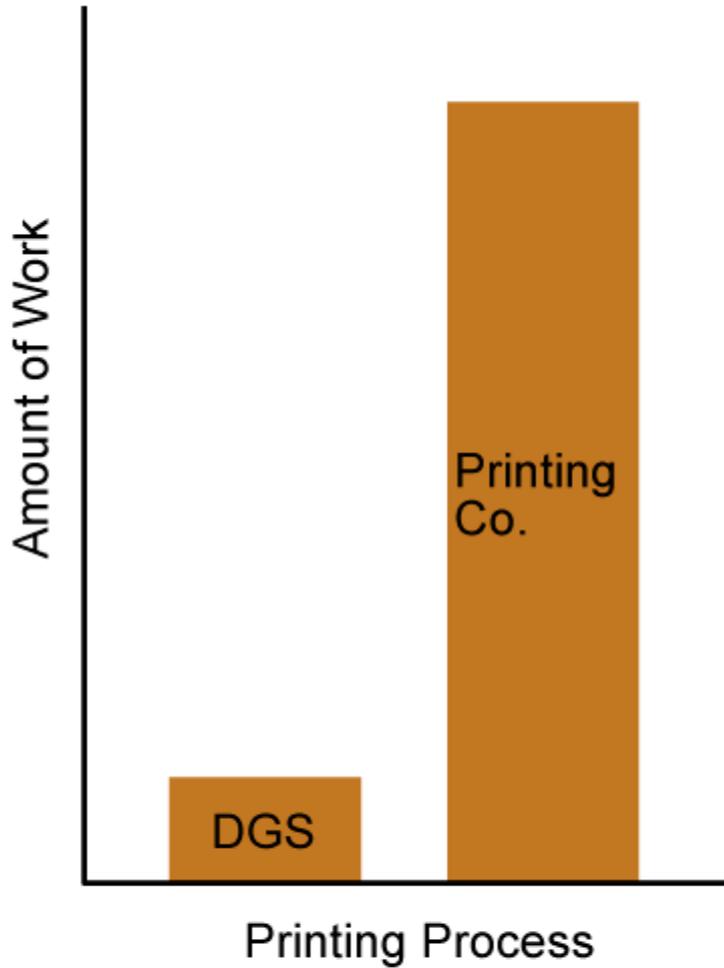


*Profile Graph Subtitle*

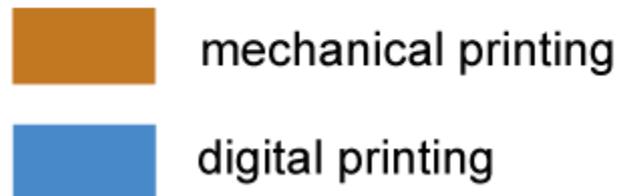
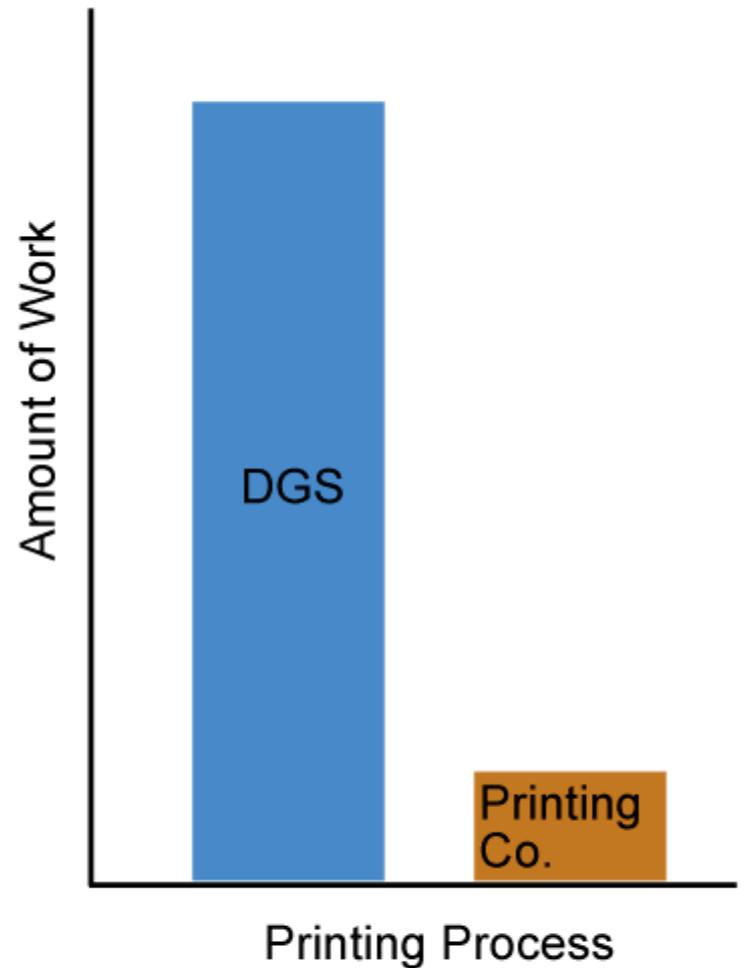




early years at DGS



modern years at DGS



# My office for a day

