GIS layer metadata:

* Surface or underground mines?
* Focus on OH surface mines (Dec 11, 2020)
  + OH surface mines <https://gis.ohiodnr.gov/MapViewer/?config=OhioMines>
    - There is also a surface coal mines layer
    - Permit date
  + OH
    - OH abandoned underground mines:
    - Polygons plus date of abandonment (AB\_DT)
    - Specifies what commodity (eg coal)
  + PA
    - <https://www.pasda.psu.edu/uci/SearchResults.aspx?originator=Pennsylvania+Department+of+Environmental+Protection>
    - Coal mine polygons
      * “LASTMINED” column contains date info – needs cleaning
    - Abandoned mine lands poloygons
      * No dates
  + WV
    - WV abandoned mines polygons
      * Polygons of abandoned mines
      * No date of abandonment
    - WV mine sites reclamation mining permits
      * Points with dates of permit expiration
      * Can combine with polygon layer
* Appalachian ecoregion: level II EPA ecoregion
* AL:
  + <http://surface-mining.alabama.gov/>
  + Closed coal mine polygons (and points)
  + No date info
* KY:
  + KY Mine Maps kyog 1z
    - See HTML FAQ docs in folder
    - Points of all oil and gas wells in KY
    - Cmpl\_Date and Plug\_Date are completion and plug dates
    - Org\_Result is manner in which well was originally completed. Eg
      * AB = abandoned with no plugging info on file
  + KY mine maps – abandoned pre 1978
    - Points (oil and gas wells)
    - These are a subset of the “KY Mine Maps kyog 1z” shapefile with “Plug\_Date” pre 1978
  + KOMSL Mined out areas:
    - KentuckyOffice ofMineSafety and Licensing
    - I think this is coal
    - Polygons of mined land
    - “Tax Year” (2 digits) is maybe start date of activity?
      * There are a number of polygons <77 (but don’t include >2000)
* OH
  + OH abandoned underground mines:
  + Polygons plus date of abandonment (AB\_DT)
  + Specifies what commodity (eg coal)
* PA
  + <https://www.pasda.psu.edu/uci/SearchResults.aspx?originator=Pennsylvania+Department+of+Environmental+Protection>
  + Coal mine polygons
    - “LASTMINED” column contains date info – needs cleaning
  + Abandoned mine lands poloygons
    - No dates
* VA: https://www.dmme.virginia.gov/DMLR/MappingLandingPage.shtml
* WV
  + WV abandoned mines polygons
    - Polygons of abandoned mines
    - No date of abandonment
  + WV mine sites reclamation mining permits
    - Points with dates of permit expiration
    - Can combine with polygon layer
    - Specifies the type of permit (e.g. coal surface mine)