**Easement Programs Geospatial Layers**

**Agricultural Conservation Easement Program – Agricultural Land Easement (ACEP-ALE)**

1. Prime, unique, and locally important soils data
2. CLU Boundaries - Land Use Labels for the Farm/Tract by Field Number
3. Most Recent Ag Census Data on Average Farm Size per County (Table 1. County Summary Highlights)
4. Most Recent Ag Census data (2017) on Acreage of farm and ranch land per county (Table 1. County Summary Highlights)
   1. Ratio of the total acres of land in the parcel to be protected to the average farm size in the county
5. Next Most Recent Ag Census data (2012) on Acreage of farm and ranch land per county (Table 1. County Summary Highlights)
   1. Decrease in the percentage of acreage of farm and ranch land in the county in which the parcel is located between 2017 and 2012 Ag Census data
6. Most Recent Ag Census data on land used for all hay, haylage, grass silage, and greenchop (Table 1. County Summary Highlights)
7. U.S. Census data for percent population growth by county
8. U.S. Census data for population density (population per square mile)
9. US Census Resident Total Population by county
10. Next Most Recent US Census Resident Total Population by county
    1. Percentage change between 2010 and 2000 US Census Resident Total Population by county
11. Proximity of the parcel to other protected land, such as compatible military installations, land owned in fee title by the United States or an Indian Tribe, State or local government, or by a nongovernmental organization whose purpose is to protect agricultural use and related conservation values, or land that is already subject to an easement or deed restriction that limits the conversion of land to nonagricultural use or protects grazing uses and related conservation values (Potential List Below)
    1. Geospatial Layer – NGCE NRCS easement boundary layer
    2. Geospatial Layer – US FWS National Wildlife Refuge Map
    3. Geospatial Layer – USFS National Forest Maps
    4. Geospatial Layer – DOI BLM maps
    5. Geospatial Layer – USNPS maps
    6. Geospatial Layer – State Protected Land Maps
    7. Geospatial Layer – local land trust protected lands map (State specific data)
12. State developed region for enrollment of Grasslands of Special Environmental Significance
13. US FWS Threatened and Endangered Species layer
14. State specific critical species or listed species layer
15. Historical or archaeological site location Layer

**Agricultural Conservation Easement Program – Wetland Reserve Easement (ACEP-WRE)**

1. US FWS Threatened and Endangered Species layer
2. State specific critical species or listed species layer
3. Historic habitat or native vegetation layer
4. Hydric Soils layer
5. National Wetland Inventory layer
6. Proximity and connectivity to other protected habitats. (Potential List Below)
   1. Geospatial Layer – NGCE NRCS easement boundary layer
   2. Geospatial Layer – US FWS National Wildlife Refuge Map
   3. Geospatial Layer – USFS National Forest Maps
   4. Geospatial Layer – DOI BLM maps
   5. Geospatial Layer – USNPS maps
   6. Geospatial Layer – State Protected Land Maps
   7. Geospatial Layer – State Land Trust or other NGO easements
   8. Geospatial Layer – Ducks Unlimited protected lands database
   9. Geospatial Layer – USGS protected lands database
   10. Planner override – planner notes to document the location of protected lands not available on a geospatial layer
7. CLU Boundaries - Land Use Labels for the Farm/Tract by Field Number
8. Impaired Watershed layer (buffered distance)
9. 303D watershed layer
10. Stream/River layer (buffered distance)
11. State developed water quality targeted area layer
    1. Critical aquifer areas layer
12. Flooding Frequency soils layer
13. FEMA flood maps
14. Ecological site descriptions from soils data
15. State Wildlife Critical Area layer
16. Lidar data
17. Geomorphic position of soil map unit
18. State Drainage District layer
19. Depth to water table (is ponded part of this data?)
20. Soil drainage class

**Emergency Watershed Protection Program – Floodplain Easements (EWPP-FPE)**

1. Flooding Frequency soils layer
2. FEMA flood maps
3. Impaired Watershed layer (buffered distance)
4. 303D watershed layer
5. Stream/River layer (buffered distance)
6. State developed water quality targeted area layer
   1. Critical aquifer areas layer
7. US FWS Threatened and Endangered Species layer
8. State specific critical species or listed species layer
9. Historic habitat or native vegetation layer
10. The ranking process should consider the physical site conditions and ownership pattern that may result in some form of increased protection, such as adjacent or nearby protected areas (existing conservation or flowage easements) that preclude development or incompatible land uses throughout the floodplain. (Potential List Below)
    1. Geospatial Layer – NGCE NRCS easement boundary layer
    2. Geospatial Layer – US FWS National Wildlife Refuge Map
    3. Geospatial Layer – USFS National Forest Maps
    4. Geospatial Layer – DOI BLM maps
    5. Geospatial Layer – USNPS maps
    6. Geospatial Layer – State Protected Land Maps
    7. Geospatial Layer – State Land Trusts or NGO protected lands
    8. Planner override – planner notes to document the location of protected lands not available on a geospatial layer
11. National Wetland Inventory layer
12. State Drainage District Layer

**Healthy Forests Reserve Program (HFRP)**

1. US FWS Threatened and Endangered Species layer
2. US FWS Threatened and Endangered Species winter habitat range
3. NMFS and NOAA has GIS geospatial info (salmon, etc.) available at: <https://erma.noaa.gov/northwest/erma.html#/layers=1+14384+7502+7942+11371&x=-120.96667&y=46.06669&z=7&view=358&panel=legend>
4. US FWS Threatened and Endangered Species Critical habitat, essential fish habitat
5. State specific critical species or listed species layer
6. Surface soil organic matter
7. State specific geographical region of enrollment