# Soil Services for Conservation Planning

## Issues

1. biggest concern now is the soil service not working properly on assessments with a lot of fields.  Diagnosing that is highest priority

## CART Assessment

1. Develop Nitrogen Leaching Interpretation.
2. Write a SQL Script (Soil Data Access) Version of Erosion.
3. Add Soil Organic Carbon Stock to “Air Quality” resource concern.

## Environmental Assessment

1. Farm Class
2. Hydric Soils

## Easements

1. Easements Drainage Class (Poorly and Very Poorly)
2. Easements Farm Class
3. Easements Hydric Soils
4. Flooding Frequency soils layer (potentially if needed)
5. Ecological site descriptions from soils data (potentially if needed)
6. Geomorphic position of soil map unit (potentially if needed)
7. Depth to water table (potentially if needed)

## CART Ranking

1. Develop soil interpretative map to help identify priority issues.

## HELC/Wetlands

1. Hydric Soils list
2. What’s available and what needs to be provided

## Future Development

1. Develop Soil Property and Interpretation SQL Scripts to assist conservation planning for specific practices.
2. Develop SQL scripts to assist in special conservation signups by identifying opportunities for conservation. Examples:
   1. Golden Wing Warblers can be found in alder (along swamps-edges). Soils data could be used to query certain locations and help identify customers (by locating the most productive sights for declining habitats).
   2. Karner Blue Butterfly Habitat Identification.
      1. The Karner Blue Butterfly (KBB) is a federally listed endanger species
      2. KBB caterpillars feed exclusively on the leaves of wild lupine.
      3. NRCS and partner staff wanted to identify likely lupine habitat to prioritize for protection under NRCS easements and related programs.
      4. NRCS and partner agencies have begun using these results to help identify opportunities for conservation easements funds to identify critical areas.
      5. This process could be used to identify customers.
3. Add thematic maps by map unit and landunit.

## Links

1. CART Main Page: <https://jneme910.github.io/CART/>
2. Future Development: <https://jneme910.github.io/CART/chapters/future>