

Pennsylvania FFA
Environmental/Natural Resources
Career Development Event: Soils

2023 Team Scenario

Your group has just purchased a 250-acre piece of land you plan to farm (row crops, animals, or both). This parcel has multiple soil types, varying topography, an existing barn, a stream through the property, a wetland area, and a forested area. Use the data provided and the map to inform your decisions.

- Describe how the soils' characteristics will benefit or impair certain land uses (see data below)
- Describe how you plan to minimize soil erosion in steep areas and along the stream
- How can soil analysis be used to predict the best land uses for each soil type and four land areas?
- How will each land use affect the long-term soil health and production yield and what practices could be used to improve this?

Address how you would manage each land area and how the soils in each area influenced your decision:

- Forest
- Fields
- Riparian
- Wetland

Soils Data

- A. Wetland Soil- gray color, occasional flooding, moderately well drained, rounded rocks, loam texture, 1% slope
- B. Field Soil- dark color, well drained, few rocks, high organic matter in upper horizons, 0% slope
- C. Field Soil- medium reddish color, many large rocks, low organic matter, shallow depth to bedrock, 3-8% slope

Farm Map
2023 FFA CDE: Soils

Field (Soil B)

Stream

Wetland (Soil A)

UPHILL

Forest (Soil C)

Field (Soil C)

DOWNHILL

