US-LT RCD CDFA HSP Demo

Or: How I Learned to Love the Soil
HSP Practices Implemented - Why?

- Cover Crop
  - Cover Cropping is vital for seasonal cover and conservation purposes
  - Blando Brome 30 lbs/ac
  - Barley Seed Mix 100 lbs/ac

- 4 different sites, 4 management techniques
  - Chem/mow
  - Every other row mow
  - No till
  - Full till
Treatment Map
Data Collection

- 3 soil moisture probes/vineyard
  - High, Med, Low
- 12 soil sampling sites/vineyard
  - 0-6” Depth
  - 6-12” Depth
  - All samples sent in coolers to Ward Labs, NE
  - Standard soils tests
  - And.....
Phospholipid Fatty Acid Tests

- Fatty acids found in the cell membrane of living organisms.
- As the phospholipids of different groups of bacteria and fungi contain a variety of somewhat unusual fatty acids, they can serve as useful biomarkers for such groups.
- PLFA is a snapshot of community structure and abundance at the time of sampling.
- The ability of microbial communities to change rapidly provides producers with a tool to compare management techniques.
Technical assistance now available for your very own HSP project

- Cover Crop
- Mulching
- Residue and Tillage Management
- Compost Application
- Contour Buffer Strips
- Field Border
- Filter Strip
- Herbaceous Wind Barrier
- Grassed Waterway
- Alley Cropping
- Multistory Cropping
- Prescribed Grazing
- Application of on-farm produced compost
- Riparian Herbaceous Cover
- Vegetative Buffer
- Hedgerow Planting
- Riparian Forest Buffer
- Windbreak/Shelterbelt Establishment
- Silvopasture
- Nutrient Management
- Strip Cropping
- Forage and Biomass Planting
- Conservation Cover
- Range Planting
- Conservation Crop Rotation
- Tree/Shrub Establishment