Ag Modeling Subcommittee

<u>Priorities of Scenario Builder (SB) Modifications</u>

- Revise Ag Land Uses (uptake to follow)
- Determine potential for use of fertilizer sales data to estimate mineral nutrient inputs
  - USDA-CEAP, USGS, and fertilizer industry data suggest current SB method overestimates inputs
- Evaluate alternative manure nutrient production data sources and potentially revise manure nutrient generation estimates in SB
  - USDA will be releasing updates to manure nutrient estimate tables in 2014
- Determine potential to incorporate soil nutrient data into SB
- Update crop yield, crop nutrient needs, and other crop data inputs
  - Evaluate the potential to use yearly crop data provided by NASS
- Evaluate and update nutrient application sequences, timing and rates

Proposed Agricultural Land Uses

Rational: Base land uses on similarities in Nut. Use Intensities or Nut. Mgt. Strategies, as well as relative bare soil throughout the year

Grains

Corn, grain - fall fallow

Corn, silage - fall fallow

Corn, grain - fall small grain

Corn, silage - fall small grain

Soybean (full season) - fall fallow

Soybean (full season) - fall small grain

Small Grain (Wht, Bar, Canola, Rye, Triticale, Oats, ect)- Sb dbl crop - fall fallow

Small Grain (Wht, Bar, Canola, Rye, Triticale, Oats, ect)- forage established

Proposed Agricultural Land Uses

Forages

Legume (alfalfa and other legumes) for hay and greenchop

Non-legumes (orchardgrass, ryegrass, triticale, small grains, sorghum, wild hay)

Pastured cropland and pastureland

Proposed Agricultural Land Uses

Specialty crops

Low cover Agr Commodity crops, (cotton, tobacco)

High cover Agr Commodity Crops (sunflower, buckwheat, peanuts)

Vegetables: Hi Input (swt corn, potatoe, spinish, cabbage, cucumber & pickle, etc. plus plastic culture)

Vegetables: Low Input (All beans, peas, tomatoes, melons, beets, carrotts, kale, radish, etc)

Cropland fallowed or crop failure or abandoned

Nursery: High Input (container plts, bedding plts, bulbs, sod farms),

Nursery: Low Input (Aquatic plts, cut flowers, nursery stock, foliage plts, short-term woody plts)

Other Land Use

Impervious areas: Low Input (roofs, paved roads & ditches, nursery protected areas, access roads, etc)