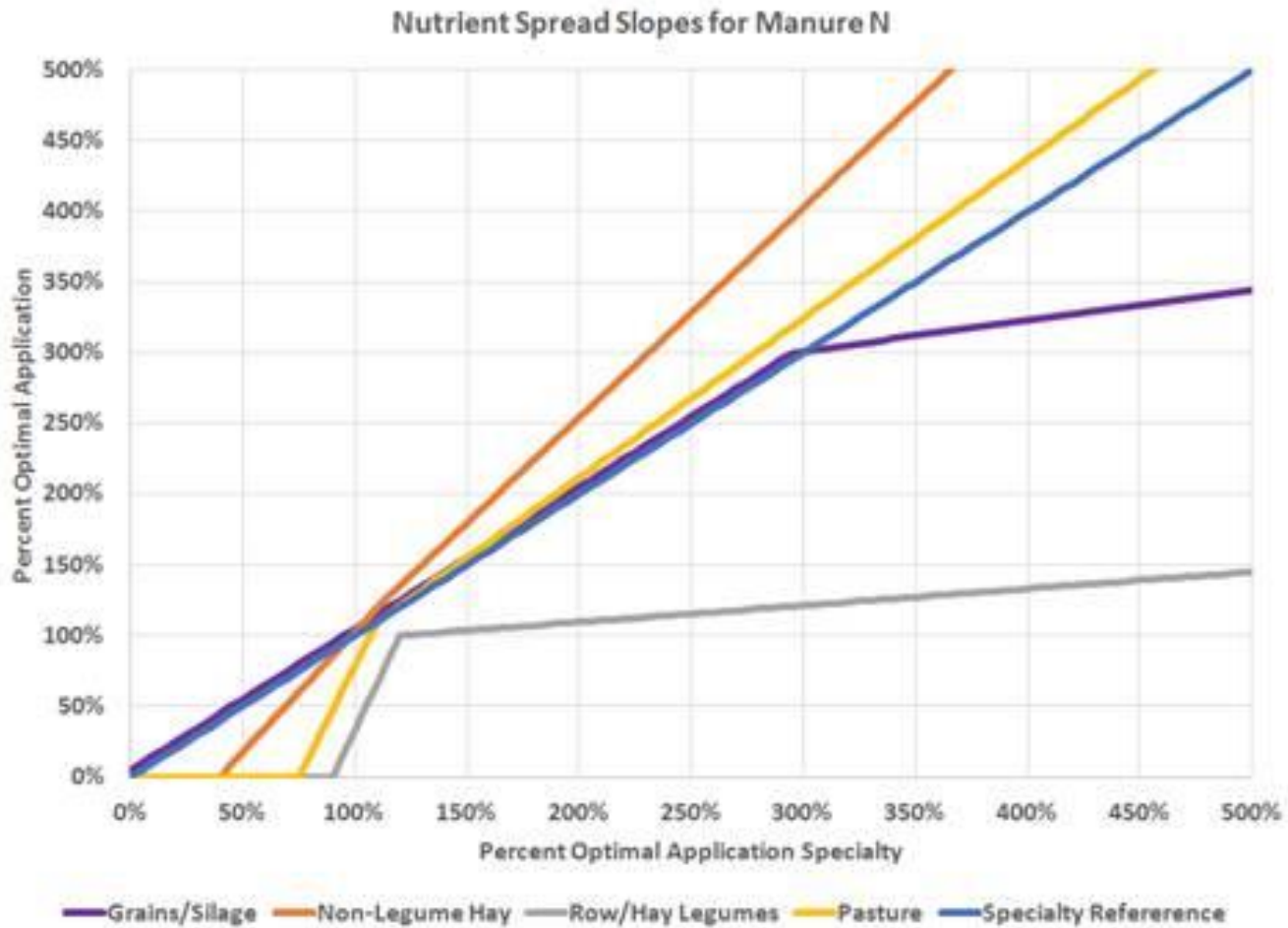


Ag Modeling Subcommittee update
Water Quality GIT conference call
Aug. 24,2015

- Proposed list of Scenario Builder (SB) modifications for Version 6 went to modeling team in June
- Changes coded in SB and preliminary run output shared with committee members during call last Thursday
- A few modifications were discussed last week, follow up call Wed. to finalize recommendations for Sept. Ag Workgroup approval and Version 6 calibration runs in Oct.

SB changes included in preliminary runs

- AAPFCO fertilizer sales combined with Ag Census fertilizer expenditures to estimate total fertilizer use in a county.
- USDA-NASS annual yields and acres for major crops used where possible. Ag Census yields and acres will be used otherwise.
- Best 3 out of the last 5 available data points (either NASS yearly data or Ag Census 5-year data) used to estimate application crop yield goal for estimating manure application rate.
- Methods approved for estimating poultry litter nutrient production used and also apply that approach for cattle and hogs
- Newly approved land uses used
- Modified nutrient spread sequence used
 - Manure applied first
 - Manure eligible rowcrop acres (primarily corn) before other crops
 - Hay and pasture application only after higher priority crop requirement largely filled
- Updated fertilizer application timing and distribution information from the states used



Initially proposed breakpoints, changes being considered based on output from preliminary runs

Outcome of Preliminary Ver. 6 SB runs

- No major glitches
- Committee members reviewing output prior to follow-up conference call on Wed.
- We're considering some modifications
 - Making Small Grain/Soybean land use eligible for manure
 - Modifications to nutrient spread sequence curve allowing more application above optimal N application rate
 - Others as suggested by committee members
- Also considering whether multiple years of mineralization need to be included in the estimates of N availability that dictate manure application rates