Beta 3 Nutrient Spread Update

Update from Agricultural Modeling Subcommittee to WQGIT

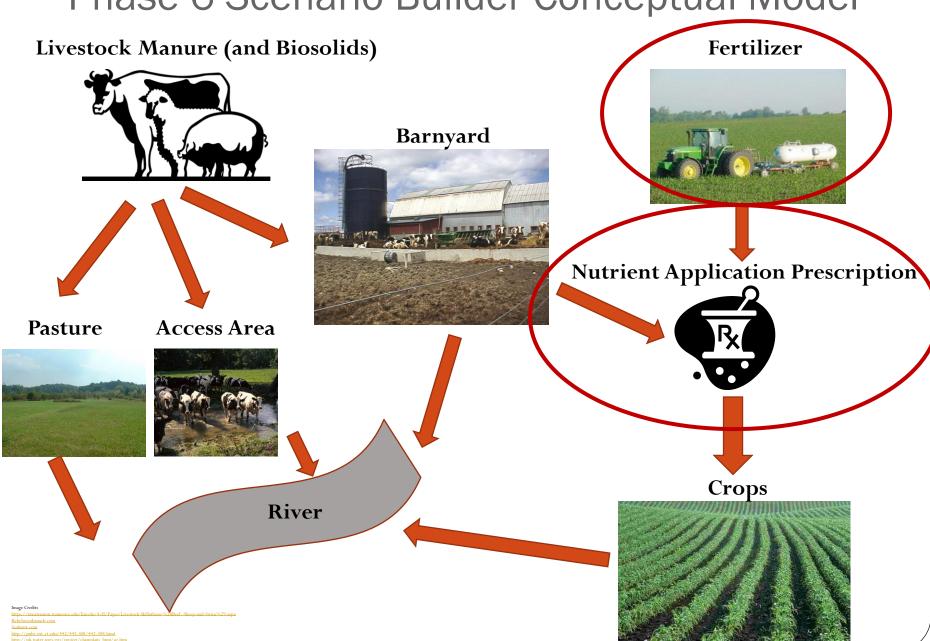
6/27/16

Curt Dell

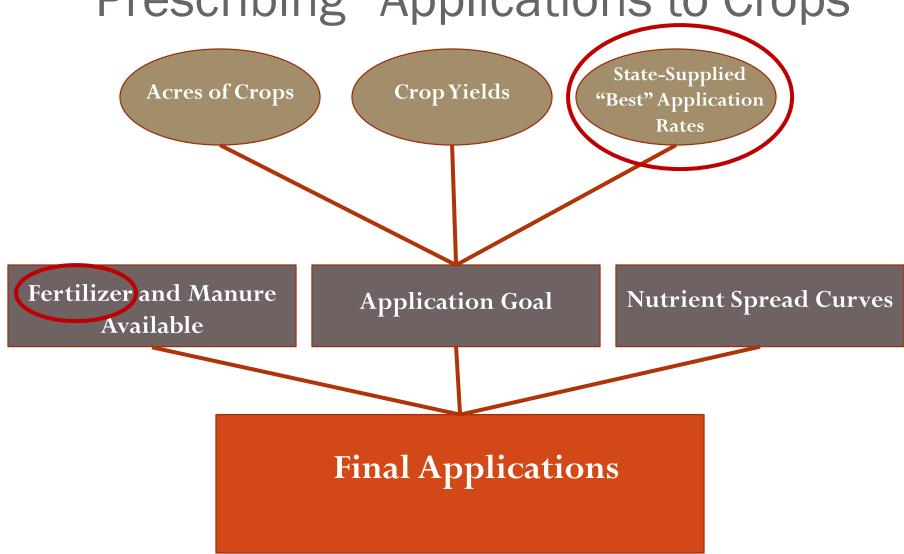
USDA-ARS

Ag Modeling Subcommittee Chair

Phase 6 Scenario Builder Conceptual Model



"Prescribing" Applications to Crops



Plan

- CBPO Staff will run nutrient spread two ways:
 - Beta 3a: Utilize fertilizer sales data as used in previous beta runs.
 - Beta 3b: Apply fertilizer to fulfill crop application goal after manure is applied (no fertilizer sales data)
 - Both runs will use <u>revised</u> application rate tables and NM and non-NM acres
- AMS will review results of beta runs prior to July Ag Workgroup meeting.
 - Outlier counties will be identified where methods did not work and remedial measures will be proposed.
- Ag Workgroup to determine which nutrient spread to use for final calibration at July Ag Workgroup meeting.

What's new in Beta 3?

Crop Application Goals

• Group of Agricultural Workgroup state representatives worked with the AMS to revise crop application goals so they better reflect land-grant university recommendations.

Non-Nutrient Management Application Goal Multiplier

• Subgroup of Nutrient Management expert panel currently working on revisions based upon new Crop Application Goals.

• Legume Fixation

• AMS approved use of new equation to estimate legume fixation based upon estimates of nitrogen from soils, manure and inorganic fertilizer.

Crop Removal

• AMS reviewed existing crop removal/uptake values, and agreed to adjust values for corn, beans, pasture and non-legume hay.

Barnyard Area for Other Cattle

 Area will be adjusted so it better reflects NRCS estimates of area used by cattle