

Responses to STAC review of Scenario Builder revisions

WQGIT 11/27/2016

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Summary of the Review Process

- STAC review panel (Gene Yagow, Virginia Tech, chair) reviewed the Feb. 2016 version of Scenario Builder documentation
- Review team had overall favorable response to Scenario Builder approach, but had several concerns and suggestions
- Dialog among review team, modelers, AMS has resolved nearly all concerns
 - Primary suggestion was for greater detail in documentation, explaining data limitations and approaches used.
 - Several items noted were being addressed by modelers/AMS while STAC was conducting report (i.e. revised ammonia volatilization and N mineralization from manure)
 - A few modifications approved at last AgWG meeting (details to follow)
 - Limited number of suggestions that can't be addressed within the current time frame

Documentation additions

- Greater detail will be given on:
 - Assumptions (additional scientific literature citations added when available)
 - Data limitations
 - Application of Best Professional Judgment
 - Indications of where more detailed data can be added when available (i.e. considering nitrate data for manure when available).
- AMS pledges to provide Modeling Team with greater effort to review and comment on final documentation

Items for Final Phase 6 Model approved by AgWG 11/21/16

- Ammonium/Nitrate Split for Fertilizer
 - Checked against fertilizer sales and decided to keep current 25/75 split
- Revised Weighting Factors for Forecast (was 0.8 & 0.2 for all

Category	Short-term	Long-term
Harvested Cropland	0.6	0.4
Pasture	0.6	0.4
Cattle	0.6	0.4
Swine	0.8	0.2
Poultry	0.8	0.2

Items for Final Phase 6 Model approved by AgWG 11/21/16

- Delivery of nutrients deposited in riparian access area
 - Current assumption is 100% delivery to stream
 - Approved revision is 80% N and P reaching waterway (balance of deposition directly in stream with loading from manure deposited within riparian area)
 - Still concerns among AgWG, but consensus was to move forward with revised number and revisit in future.

Next Steps for AMS

- AMS will meet during first week of December to state by state Q and A on SB beta output