

AMS Update to the Ag Workgroup

06292017

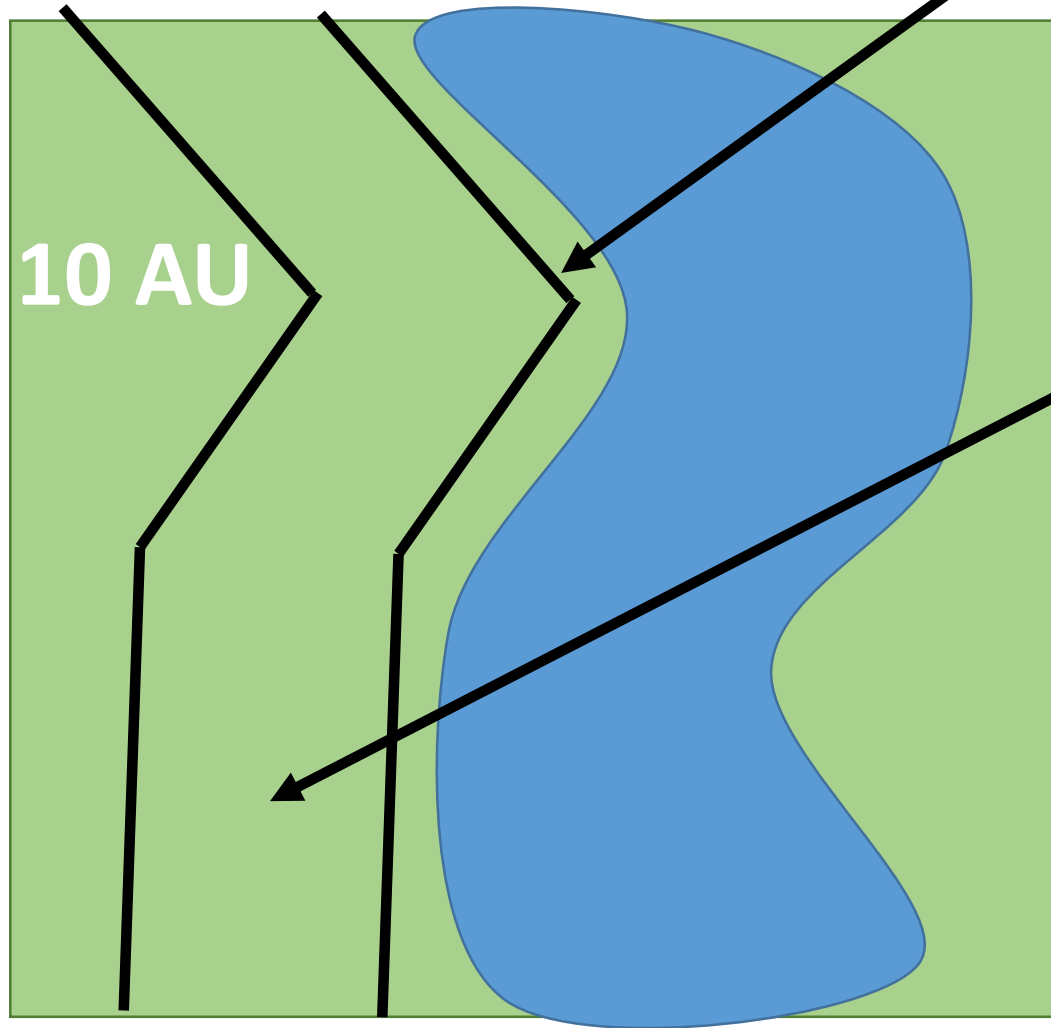
Issues to Discuss

- Stream Exclusion Benefit – Recommendations forthcoming
- Uptake on all Crops – Recommendations forthcoming
- Core Nutrient Management Benefit – Analysis results requested

Stream Exclusion Benefit Issues

- Issue: Over-reporting potential in some counties/states.
 - Solution: States to review their acres for resubmission by September 1.
- Issue: Credit duration set to 5 instead of 10 years.
 - Solution: The credit duration will be set to 10 years in potential recalibration.
- Issue: AU/Acre treated based upon only beef, not all livestock.
 - Solution: AMS recommends 17 AU/Acre (instead of 22) be treated.
 - AMS also looking into AU/Acre for PA.
- Issue: Widths vary significantly resulting in 100 percent exclusion in some counties in 2013.
 - Solution: AMS considering adjusting benefit based upon length of fence, not acres.

Stream Exclusion



Scenario 1:

- 10 feet wide
- 433 feet long
- 0.1 acre
- 10 AU

Scenario 2:

- 100 feet wide
- 433 feet long
- 1 acre
- 10 AU

- Animal Units really matter because width and stocking rates are so variable.

Uptake on all Crops

- Issue: Crop removal used for major crops and crop uptake used for minor crops.
 - Solution: AMS recommends consistency.
 - AMS reviewing data for uptake vs. removal.
- Issue: Removal much too low for pasture/hay crops.
 - Solution: AMS reviewing data for uptake vs. removal for all crops.

Methods for Testing Core NM N and P

- Added 10,000 acres of Core NM N and Core NM P above and beyond existing 2013 Progress acres to crops within the watershed boundary in each state.
- Calculated change in loads on a county basis.
- Calculated change in loads per acre of Core NM N or Core NM P.

Findings

- Median reductions match closely with reduction efficiencies from Phase 5.
- Median reductions vary geographically.
- Manure is relocated to pasture and other hay from row crops in counties with relatively high manure and low row crop acreage.
- Some counties have more than 100 percent coverage in 2013.
- Planning scenarios should also utilize N and P Application Rate to demonstrate possible reductions through lower fertilizer use.

Median Core NM Reductions in Phase 6

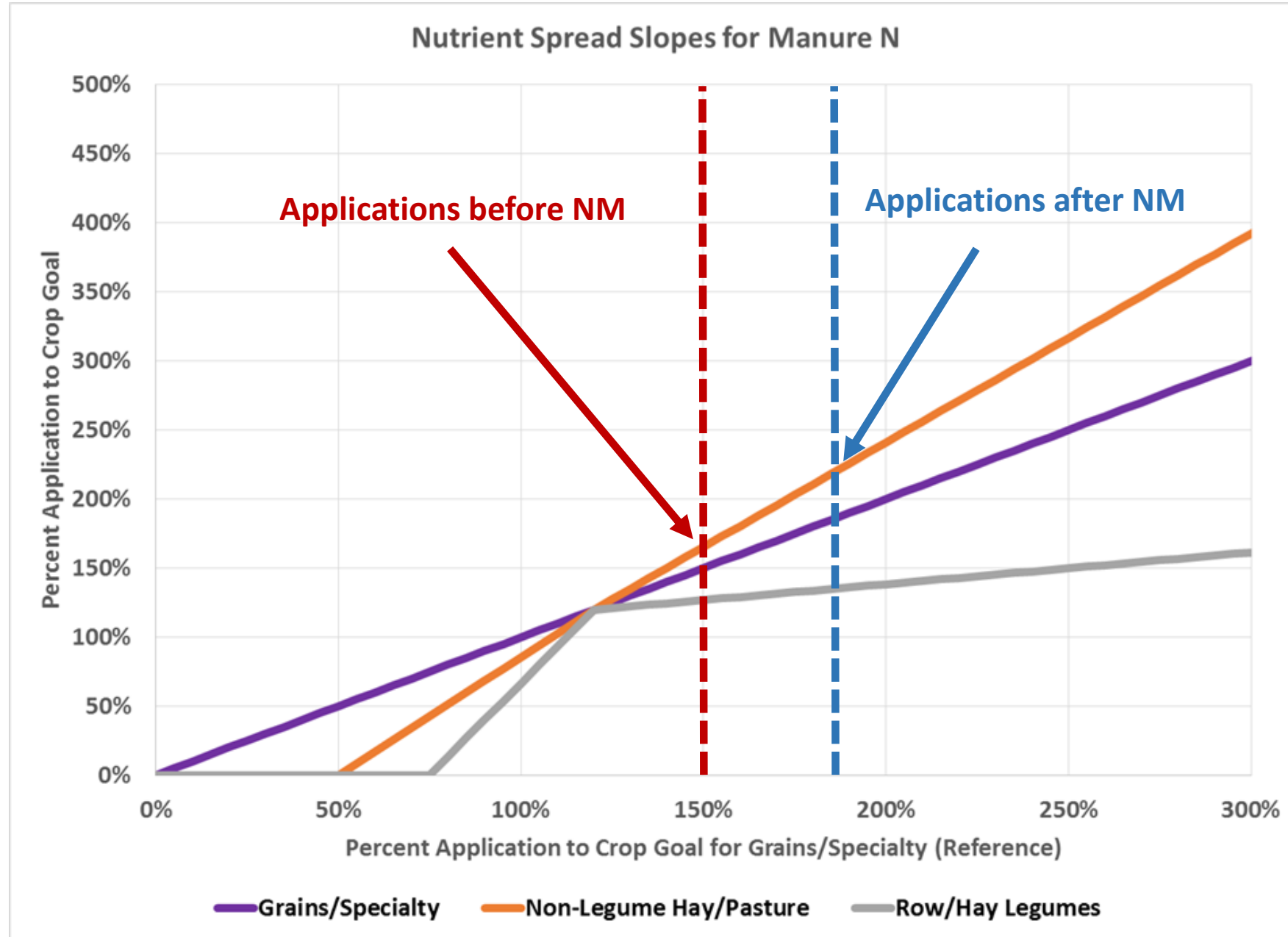
Scale	Reductions EOS TN/Acre	Average Lbs EOS TN/Acre 2013 Progress	Percent Reduction EOS TN/Acre	Reductions EOS TP/Acre	Average Lbs EOS TP/Acre 2013 Progress	Percent Reduction EOS TP/Acre
CBW	-2.37	26.17	-9.1%	-0.12	1.13	-10.6%
DE	-2.81	32.72	-8.6%	-0.12	0.92	-13.2%
MD	-2.20	24.11	-9.1%	-0.09	0.86	-11.0%
NY	-4.05	32.07	-12.6%	-0.21	1.15	-18.3%
PA	-3.16	30.00	-10.5%	-0.17	1.39	-12.2%
VA	-1.51	22.48	-6.7%	-0.09	1.06	-8.5%
WV	-2.10	27.89	-7.5%	-0.10	1.39	-7.3%

Phase 5 Reductions:

TN: -9.25% on HWM/LWM, -5% on HOM

TP: -10% on HWM/LWM, -8% on HOM

Relocated to Pasture and Other Hay in Manure-Heavy Counties



Counties with more than 100% NM in 2013

County	FIPS Code	State
Allegany	24001	MD
Carroll	24013	MD
Garrett	24023	MD
Montgomery	24031	MD
Prince Georges	24033	MD
Worcester	24047	MD
Augusta	51015	VA
Buckingham	51029	VA
Charles City	51036	VA
Clarke	51043	VA
Cumberland	51049	VA
Essex	51057	VA
Greene	51079	VA
James City	51095	VA
Lancaster	51103	VA
Middlesex	51119	VA
Nelson	51125	VA
New Kent	51127	VA
Prince Edward	51147	VA
Prince William	51153	VA
Rockbridge	51163	VA
Rockingham	51165	VA
Warren	51187	VA

- If you have 100% NM coverage, no additional acres can be added.
- This could be due to reporting acres of NM for pasture and hay on Row.
- All states should review calibration data for NM (and other BMPs) by September 1!