

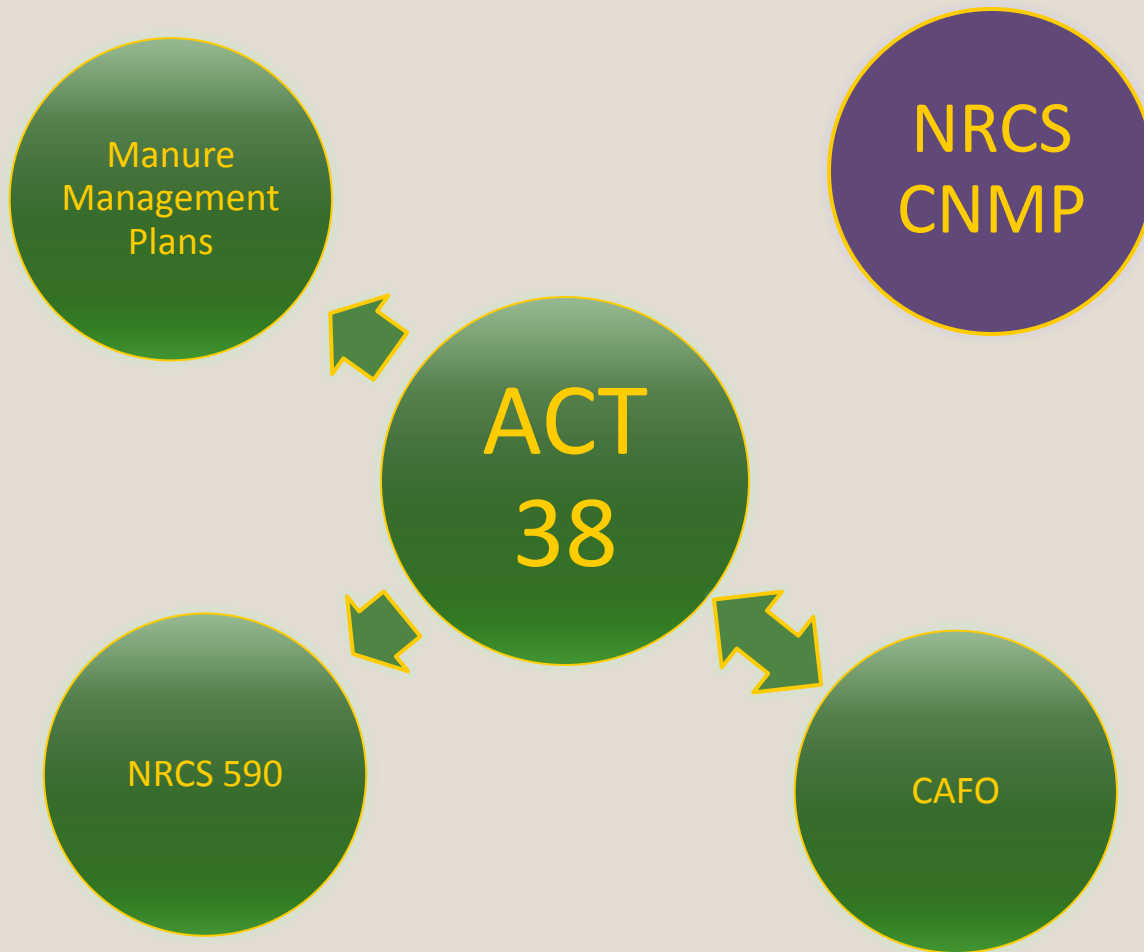


NUTRIENT MANAGEMENT & THE CHESAPEAKE BAY
EXPERIENCE:
ECONOMIC AND ENVIRONMENTAL CONSIDERATIONS

A Certified Crop Adviser's Perspective

Levels of Planning (Pennsylvania)

For farms producing or applying manure



For farms Not producing or applying manure

< NONE >

Necessary info for plan development

- Soil analysis
- Manure analysis
- Rotation/Tillage
- Producer records
 - Manure production
 - Crop Yield
 - Animal numbers
 - Pasturing periods



T... values
and/or one analysis can increase the
errors in plan writing

Nutrient Management Plan Summary

Total acres reported in NMP Summary: 1681.6

Crop Year(s) 2013

Whole Farm Note: _____

CMU/Field ID	Acres	Crop	Manure Group	Application Season	Application Management	Planned Manure Rate	Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A) ¹			Notes (Select "Yes")
							N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	
1	10.9	Alfalfa with manure	Thin Dairy Slurry	Late Fall	Spring use by grass or small grains	4000 gal/A	0	0	0	0	0	0	0	-13	-49	
10	10.4	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thin Dairy Slurry	Early Fall	Incorporated after 7 days or none	6000 gal/A	0	0	0	65	0	0				
10-Spring	10.4	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thin Dairy Slurry	Spring	Incorporated after 7 days or none	6000 gal/A	0	0	0	0	0	0				
10-Spring2	10.4	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thick Dairy Slurry	Spring	Incorporated after 7 days or none	6000 gal/A	0	0	0	93	0	0	0	-25	-280	Yes
11	15.1	Corn Silage	Thin Dairy Slurry	Early Fall	Incorporated after 7 days or none	6000 gal/A	0	0	0	0	0	0				
11-Pen	15.1	Corn Silage	Thin Dairy Slurry	Late Fall	Incorporated after 7 days or none	6000 gal/A	0	0	0	0	0	0				
11-Spring	15.1	Corn Silage	Thick Dairy Slurry	Spring	Incorporated after 7 days or none	6000 gal/A	0	0	0	0	0	0	6	-186	-569	Yes
12	18.7	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thin Dairy Slurry	Early Fall	Incorporated after 7 days or none	6000 gal/A	0	0	0	65	0	0				
12-Spring	18.7	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thin Dairy Slurry	Spring	Incorporated after 7 days or none	6000 gal/A	0	0	0	0	0	0				
12-Spring2	18.7	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thick Dairy Slurry	Spring	Incorporated after 7 days or none	6000 gal/A	0	0	0	93	0	0	0	-105	-330	Yes
13	20.2	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thin Dairy Slurry	Early Fall	Incorporated after 7 days or none	6000 gal/A	0	0	0	65	0	0				
13-Spring	20.2	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thin Dairy Slurry	Spring	Incorporated after 7 days or none	6000 gal/A	0	0	0	0	0	0				
13-Spring2	20.2	Small Grain Silage/Corn Silage(Corn Silage based yield)	Thick Dairy Slurry	Spring	Incorporated after 7 days or none	6000 gal/A	0	0	0	93	0	0	0	-105	-330	Yes

Overwhelmed?

¹ Positive numbers = nutrient deficit;
Negative numbers = nutrient excess

Economics vs. Regulation

- Overlapping Goals:
 - Increased nutrient use efficiency
 - Manure injection, nitrogen stabilization products, plant analysis, timely nutrient applications, etc.
 - Protection of soil resources
 - No till planting, cover crops, etc.
 - Addressing animal concentration areas
 - Animal housing facilities, manure storages, etc.



Thank You!

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