# January AMT Office Hours

1/10/2025

What is on the docket for today?

Land Uses

Inorganic agricultural fertilizer

#### Things to keep in mind:

We want to improve It is ok if we cannot decide on anything new We stay with the current data and methods Perfection should not get in the way We need to have support to improve

#### Land Uses

#### From the last AMT

# Proposed decisions:

Alter the Land Uses in CAST to represent, Managed and Unmanaged Hay as well as Managed and Unmanaged Pasture.

Modify the manure spread algorithm to create a fourth group as proposed by Virginia for Phase 7.

#### Recap: Multiple iterations

Group 1

Grain with manure

Silage

Small Grains

Double cropped

Other crops

Specialty (high and low)

Other Hay

Pasture

Group 3

Soybeans

Legume Hay

Phase 7 initial proposal

Grain with manure

Silage with manure

Group 1

Small Grains

Double cropped

Other crops

Specialty (high and low)

Other Hay

Pasture

Group 4

Soybeans

Legume Hay

Phase 7 new proposal Grain with manure

Silage with manure

Managed Other Hay

Group 1

Small Grains
Double cropped
Other crops
Specialty (high and low)
Managed Pasture

Other Hay

Pasture

Soybeans

Legume Hay

#### Recap: Multiple iterations



Managed Pasture

#### What is in the new proposal?

#### Application rates for hay and pasture are changed to:

- N=120 and P=40 for managed hay (all crops)
- N=60 and P=30 for managed pasture

25% of hay acres = managed

10% of pasture acres = managed

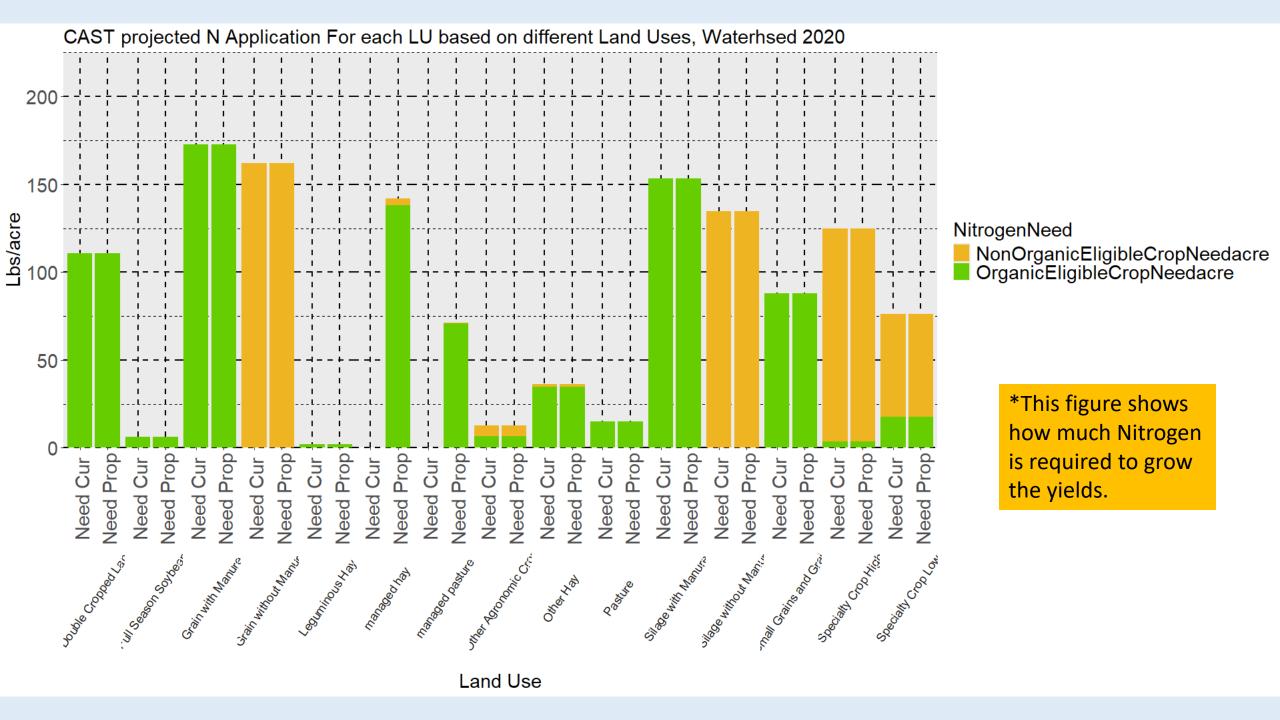
N NonNM factor for managed hay and pasture = 1.2

P NonNM factor for managed hay and pasture = 1.0

#### Summary

- Three scenarios have existed
  - 1. Phase 6
    - 1. Three application curves
  - 2. Phase 7 initial proposal
    - 1. Four application curves
  - 3. Phase 7 new proposal
    - 1. Four application curves
    - 2. New managed Pasture and Hay categories
- Compared scenarios Two and Three
  - Phase 7 initial (current) vs Phase 7 new (proposed)

What happens across the watershed?





## Questions?

#### Fertilizer

#### Background

# Ongoing concern

- Data omission
- Time lag
- Intended use

#### **AMT** (Phase 7)

- Alternative data sources should be examined
- Watershed wide stock could be improved







- American Association of Plant Food Control Officials (AAPFCO) sales data is universal
- Data directly from states is an improvement
- Recommended further investigations

## November introduction

#### State comments (not exhaustive):

- Alternative data sources should be examined
  - Falcone 2020
- Watershed wide stock could be improved
  - Shift to state specific fertilizer stocks

## Our path to progress:

- Possible data sources
  - Falcone
    - DE, MD, NY
    - Modeled approach to nutrients
  - USGS national nutrient inventory
    - VA
    - National inventory of nutrients produced
- Scale

## Questions?

# Thank you for attending office hours!

We will begin our main meeting at 09:00.