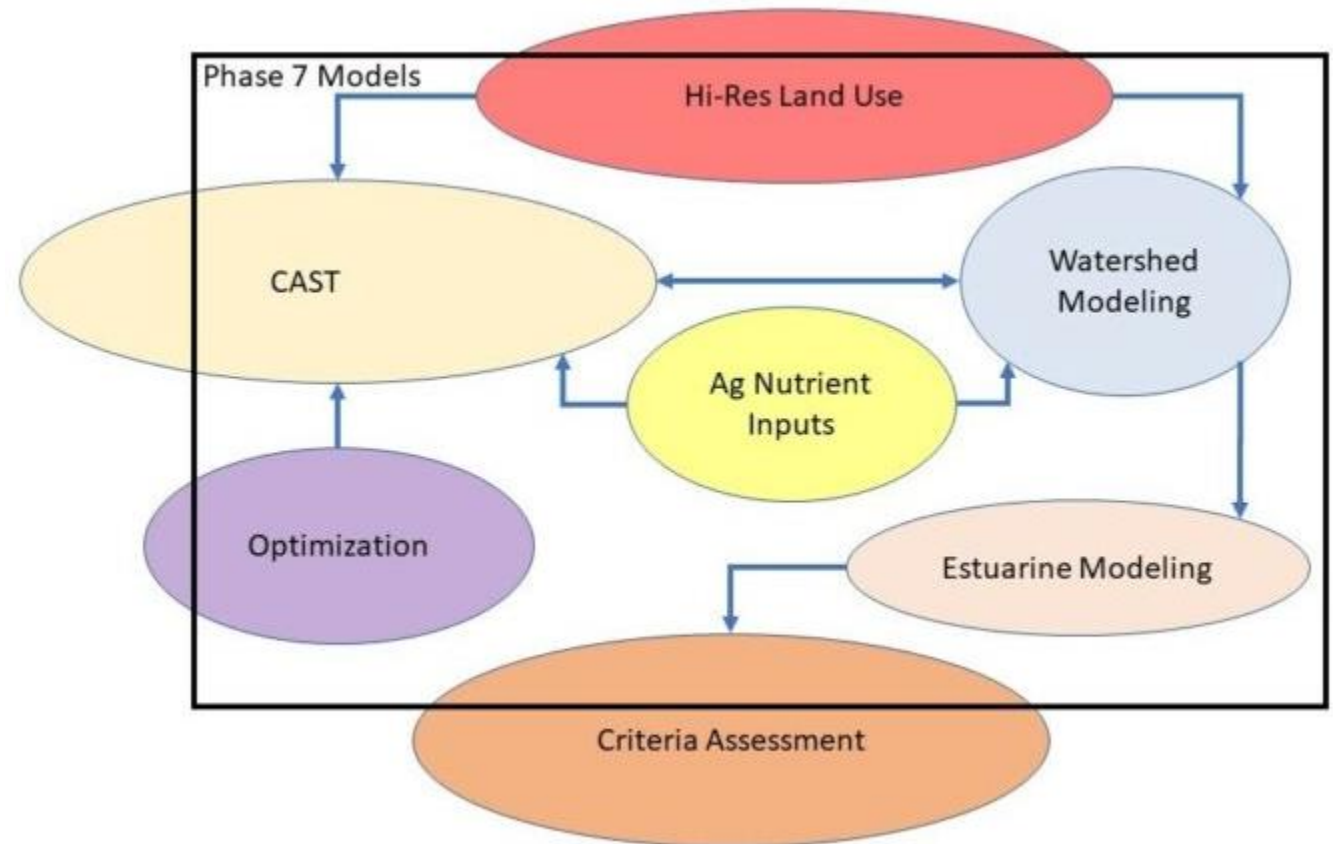4/2/24

Agricultural Modeling Team:

Modeling Quarterly Update

Agricultural Modeling Team (AMT)

- Phase 7
- Decision making
- Agricultural data inputs

What has the AMT been up to?

Crop Yields

Land Uses

- Manure Acres

How is manure related to Land Uses?

- 14 total Land Uses
- **11 are ELIGIBLE to receive nutrients from manure**
- Two Land Uses are NOT eligible to receive manure nutrients
- **One Land use can't get any nutrients**

	Chesapeake Bay Average		
Land class	Land Use	Loading Rate Ratio	Loading Rate (pounds per acre per year)
Cropland	Double Cropped Land	0.79	30.9
	Full Season Soybeans	0.71	27.7
	Grain with Manure	1.4	54.7
	Grain without Manure: **Reference land use**	1	39.1
	Other Agronomic Crops	0.45	17.6
	Silage with Manure	1.62	63.3
	Silage without Manure	1.16	45.3
	Small Grains and Grains	0.84	32.8
	Specialty Crop High	1.34	52.4
	Specialty Crop Low	0.31	12.1
Pasture	Ag Open Space	0.43	5.1
	Legume Hay	0.74	8.7
	Other Hay	1.04	12.3
	Pasture: **Reference Land Use**	1	11.8

Topics we will continue to discuss:

- Is it realistic to split certain classes into acres with manure and acres without manure?

- If so, how can we improve the relationship that defines the acres of each category?

Questions?