

Crop Nutrient application Timing and Eligibility

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Materials from Ag Modeling Team: Tom Butler, EPA

Background

Thank you to DE for bringing up this topic!

- CBPO is happy to support partners in addressing concerns.

Goal:

- Consensus vote today.

Framing the discussion:

The Chesapeake Assessment Scenario Tool (CAST) simulates nutrient applications onto Agricultural lands.

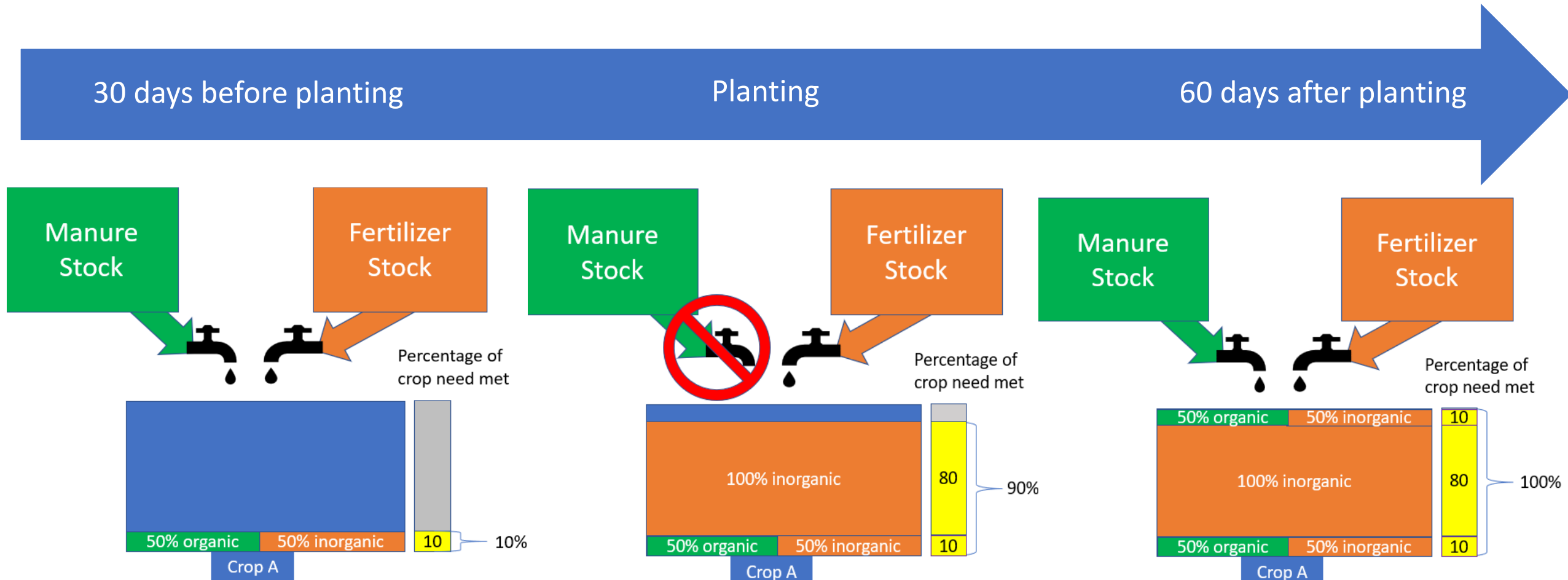
A large blue downward-pointing arrow connects the first box to the second box.

A **specific file** within this tool restricts the time in which applications can occur as well as the source of nutrients.

A large blue downward-pointing arrow connects the second box to the third box.

Some of the state inputs to this file have created unrealistic nutrient applications

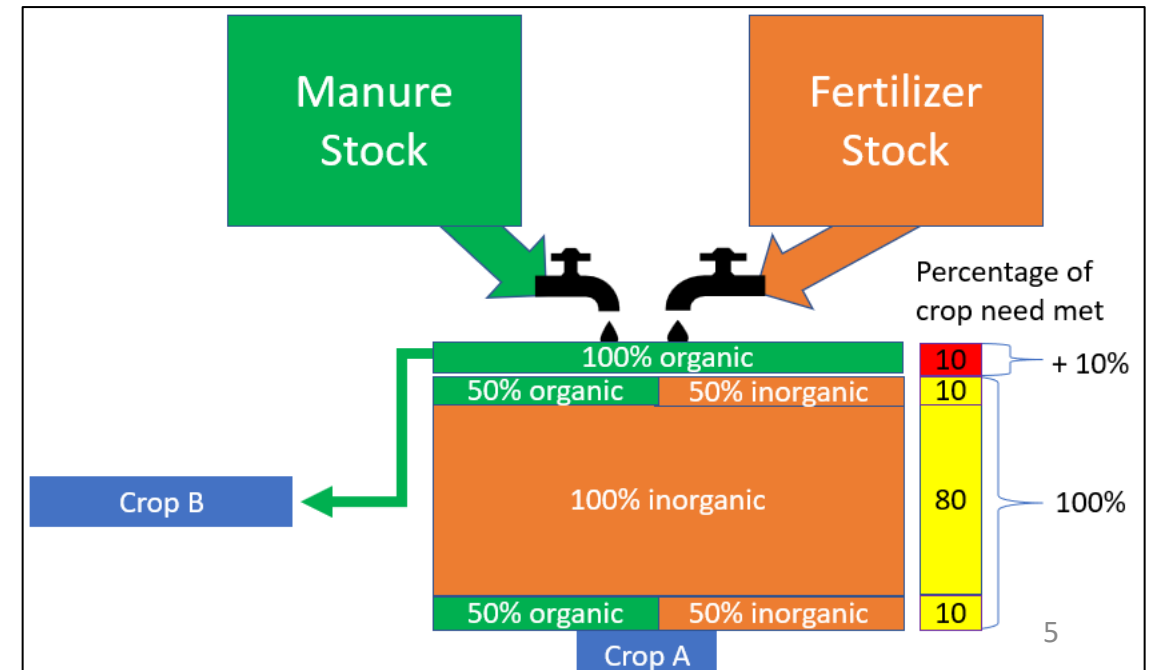
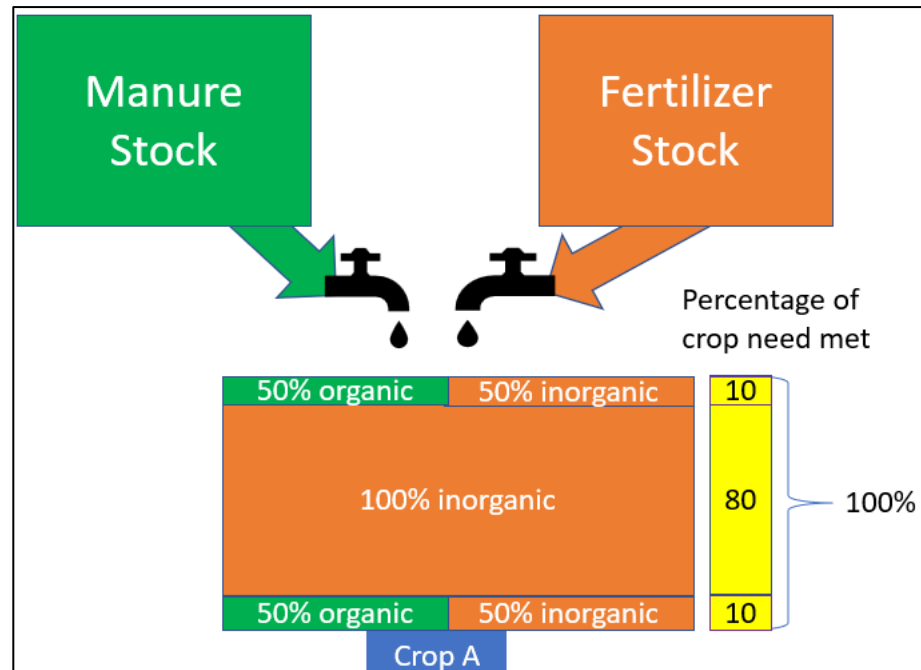
Example: *Current* application to a manure eligible land use



What happens if you still have manure?

- Manure must still be distributed within the county.
- Manure ends up going to other crops in levels that do not necessarily occur in real life.

Current Version **without** excess manure relative to crop need Current Version **with** excess manure relative to crop need



AgW/G consensus proposal: The ask

Change all crop nutrient applications to be both manure and fertilizer eligible if the crop/land use allows it.

TN Comparison and Impact on WIP

- Units are pounds per year of total nitrogen delivered to the edge of tidal area (EOT) for all sources
- All changes were less than 1% of the total WIP load

Geography (CBWS Portion Only)	CAST-2023 Version New Eligibility	CAST-2023 Version	Difference in lbs	Percent Change
Delaware	5,559,261	5,582,651	-23,390	-0.42%
District of Columbia	2,306,698	2,306,698	-	0.00%
Maryland	46,354,194	46,646,363	- 292,169	-0.63%
New York	12,105,284	12,107,553	- 2,270	-0.02%
Pennsylvania	86,250,805	86,209,765	41,040	0.05%
Virginia	50,836,519	50,809,591	26,928	0.05%
West Virginia	7,713,762	7,713,417	345	0.00%

TP Comparison and Impact on WIP

- Units are pounds per year of total phosphorus delivered to the edge of tidal area (EOT) for all sources
- All changes were less than 2% of the total WIP load

Geography (CBWS Portion Only)	CAST-2023 Version New Eligibility	CAST-2023 Version	Difference in lbs	Percent Change
Delaware	81,802	80,886	916	1.13%
District of Columbia	100,642	100,642	-	0.00%
Maryland	2,868,313	2,874,593	- 6,280	-0.22%
New York	507,353	499,725	7,629	1.53%
Pennsylvania	2,898,017	2,918,934	-20,916	-0.72%
Virginia	4,844,772	4,831,333	13,439	0.28%
West Virginia	385,513	384,824	689	0.18%

Questions?

AgWG consensus proposal: The proposition

Change all crop nutrient applications to be both manure and fertilizer eligible if the crop/land use allows it.

Consensus Continuum

