## July 29 Stakeholder Updates

CAP updates:

- 1. We did MUCH better in our latest CAST run. We're up to 41% N (up 925% from 4%), 71% P (up 1,083% from 6%). To achieve these results, we changed our reporting strategy to include more detailed BMPs. For example, instead of just lumping several types of similar BMPs into one category, we split them into more individualized categories. This allowed us to receive more credit in the CAST model as you can see in the following:
  - a. 1<sup>st</sup> Run 4% N, 6% P

	Lyconning County Divir Scenario Reductions							
_		Nitrogen (Ibs/year)	Phosphorus (lbs/year)	Nitrogen		Phosphorus		
с	urrent Load	5,111,000	342,000	Reduced 4%		Reduced		
-	MP Scenario eduction	42,500	5,500					
в	MP Scenario Load	5,068,500	336,500		Tobe			
	025 Planning Target bad	4,152,000	272,000	To be Reduced 96%	Reduced 92%			
1	Cover Crop			AC	ACRE	2,000 additional acres by 2025		
2	No Tillage			Acres	ACRE	2,000 additional acres by 2025		
3	Riparian Forest	Buffer		Acres	ACRE	1,000 additional acres by 2025		
4	Streambank Res	Streambank Restoration			FEET	10,000 linear feet by 2025		
5	Nutrient Manag	Nutrient Management Core N			ACRE	1,000 additional acres by 202		
5	Reduction of Im	Reduction of Impervious Surface			ACRE	50 acres		
7	Green Roofs			Area Treated	ACRE	5 acres		
3	Bioswale			Area Treated	ACRE	10 acres		
Э	Tree Planting			Area Planted	ACRE	200 acres		
10	Rain Garden			Contributing Area	ACRE	10 acres		
11		6 Control and Outle	ts	Length	FEET	52,800 feet by 2025		
12	Wetland Restor	ation		Acre	ACRE	100 acres by 2025		
13	New Runoff Red	lustion		Area Treated	ACRE	200 acres of new easement areas for stormwater runoff reduction by 2025		
15 14	Retrofit Stormw			Area Treated	ACRE	reduction by 2025		
14	Netront Stormw	ater neatment		Area rreated	ACRE			

## Lycoming County BMP Scenario Reductions

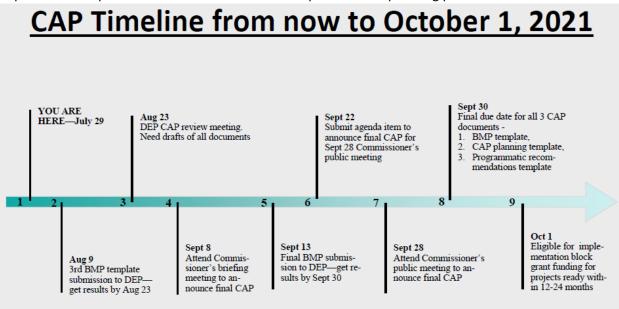
 b. 2<sup>nd</sup> Run – 41% N, 71% P Lycoming County BMP Scenario Reductions

	Nitrogen (Ibs/year)	Phosphorus (lbs/year)	Nitrogen	Phosphorus
Current Load	5,387,000	186,000		To be Reduced 29%
BMP Scenario Reduction	511,000	9,000	To be Reduced 59% Reduced 41%	
BMP Scenario Load	4,876,000	177,000		
2025 Planning Target Load	4,152,000	136,000		

Sector	BMP Name	BMP Quantit	Measurement Unit	New or Total Acres	Notes:		
Toolbox BMP Suggestions							
Agriculture	Tillage Management-Conservation		acres	New Acres	300 acres/yr increase starting 2023		
Agriculture	Nutrient Management Core N		acres	New Acres	1000 new acres by 2025		
Agriculture	Nutrient Management N Placement		acres	New Acres	1000 new acres by 2025		
Agriculture	Nutrient Management N Rate		acres	New Acres	1000 new acres by 2025		
Agriculture	Nutrient Management N Timing		acres	New Acres	1000 new acres by 2025		
Agriculture	Nutrient Management Core P		acres	New Acres	1000 new acres by 2025		
Agriculture	Nutrient Management P Placement		acres	New Acres	1000 new acres by 2025		
Agriculture	Nutrient Management P Rate		acres	New Acres	1000 new acres by 2025		
Agriculture	Nutrient Management P Timing		acres	New Acres	1000 new acres by 2025		
Agriculture	Cover Crop Traditional Wheat Late Other	8000		New Acres	8000 new acres by 2025		
Agriculture	Cover Crop Traditional with Fall Nutrients Wh		acres	New Acres	8000 new acres by 2025		
Agriculture	Precision Intensive Rotational/Prescribed Gr	2700	acres	New Acres	2700 new acres by 2025		
					21700 new acres - appx 200 more management plans will be		
Agriculture	Soil Conservation and Water Quality Plans	21700		New Acres	developed by 2025		
Agriculture	Soil Conservation and Water Quality Plans		acres	New Acres	9200 new acres - Ag E&S plans for operations that need them		
Agriculture	Land Retirement to Pasture		acres	New Acres	Annually achieve up to 300 acres of hay-producing pasture		
Agriculture	Grass Buffer		acres	New Acres	Annually achieve up to 1000 acres of non-hay grass buffer		
Agriculture	Grass Buffer-Streamside with Exclusion Fenc		acres	New Acres	Annually achieve up to 300 acres of non-hay grass buffer		
Agriculture	Barnyard Runoff Control		acres	New Acres	20 acres by 2025		
Agriculture	Agriculture Stormwater Management		acres	New Acres	40 acres by 2025		
Animals	Animal Waste Management System	10	number of systems acres	New Systems	10 systems by 2025		
Agriculture	Agriculture Stormwater Management	900	acres	New Acres	900 acres by 2025		
NRCS Ag Projects							
Agriculture	Agriculture Stormwater Management	11.0	acres	New acres	11.9 acres by 2025 (this is a total of current NRCS projects)		
Agriculture	Soil Conservation and Water Quality Plans		acres	New Acres	1220 acres by 2025 (this is a total of current NRCS projects)		
Agriculture	Son conservation and water quality Flans	1220	acres	New Acres	1220 acres by 2025		
Other Ag BMPs	-						
Agriculture	Forest Buffer	200	acres	New Acres	200 new acres by 2025		
Natural	Non Urban Stream Restoration	1000		New Feet	1000 new feet by 2025		
Agriculture	Tillage Management-Low Residue		acres	New acres	350 acres by 2025		
Agriculture	Tree Planting		acres	New Acres	200 acres by 2025		
Agriculture	Wetland Restoration - Floodplain		acres	New Acres	150 acres by 2025		
Agriculture	wettend kestoration - Hoodplain	150	deres	New Acres	150 00103 09 2025		
Developed BN	APs.						
Developed	Conservation Landscaping Practices	50	acres	New Acres	50 acres by 2025		
Developed	Dirt & Gravel Road Erosion & Sediment Contro		feet	New Feet	10 feet by 2025		
Developed	Dirt & Gravel Road Erosion & Sediment Contro		feet	New Feet	49 feet by 2025		
Developed	Dirt & Gravel Road Erosion & Sediment Contro		feet	New Feet	1 foot by 2025		
Developed	Impervious Surface Reduction	_	acres	New Acres	5 acres by 2025		
Developed	Bioretention/raingardens - C/D soils, underd		acres	New Acres	10 acres by 2025		
Developed	Filter Strip Runoff Reduction		acres	New Acres	10 acres by 2025		
Developed	Filter Strip Stormwater Treatment		acres	New Acres	10 acres by 2025		
Developed	Filtering Practices		acres	New Acres	10 acres by 2025		
Developed	Tree Planting - Canopy	200		New Acres	200 acres by 2025		
Developed	Wet Ponds and Wetlands		acres	New Acres	100 acres by 2025		
Developed	Bioswale		acres	New Acres	5 acres of bioswales by 2025		
Natural BMPs							
Natural	Wetland Rehabilitation	150	acres	New Acres	150 acres by 2025		
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- c. Our 3<sup>rd</sup> CAST run will include additional BMPs in the "Agriculture" sector, "Natural" sector, and "Developed" sector.
- Based on a recent meeting with DEP, we learned that we CAN include MS4 projects in our CAP, which is great news! This means we can incorporate MS4 projects in our BMP template for future CAST runs, and we can include recommendations to the State for additional resources for MS4 initiatives.
  - a. MS4 next steps:
    - i. Gather as many MS4 BMPs as possible in the next several weeks to include in our BMP template.
    - ii. Collect your input for additional resources we could include in our Planning template and our Programmatic Recommendations template. These resource recommendations MUST BE SPECIFIC and could be requests for money (specific dollar amount), training, outreach and materials, staff, technology, and any other resource that could improve the MS4 program.
      - 1. Note: ensure a resource recommendation can be tied to potential nutrient reductions.

3. We're coming into our last 2 months of our CAP's planning phase, and will move into our implementation phase in October. Here is a roadmap of our final planning phase milestones:



- 4. Money moves: We'll be eligible for block implementation grant money for projects ready in the next 12-24 months starting in October.
- Reminder: Our web page is regularly changing and contains news, updates, stakeholder resources, helpful links, and great pictures and graphics for your viewing pleasure! Lyco.org/CWAP



