



Cutoff and Backout in the CBP Watershed Model

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Watershed Technical Workgroup Meeting
October 1, 2020



Cutoff Land BMPs

Annual:Cumulative	Unit	AmountSubmitted	AmountBackedOut	AmountBackedOut (%)	AmountCutOff	AmountCutOff
Annual	Acres	10,259,744	0	0.0%	346,474	3.4%
Annual	Systems	10,202	0	0.0%	108	1.1%
Cumulative	Acres	5,977,272	247,184	4.1%	147,464	2.5%
Cumulative	Feet	1,414,485	0	0.0%	267	0.0%
Cumulative	Systems	83,079	48,247	58.1%	236	0.3%

- For the annual BMP acres, of the 346K acres cut off:
 - 19% Tillage Management-Low Residue
 - 18% Tillage Management-Conservation
 - 17% Tillage Management-Continuous High Residue
 - 13% Nutrient Management Core N
 - 13% Nutrient Management Core P
 - = 79% from these five practices
- For the cumulative BMP acres, of the 147K acres cut off: 69% are Conservation Plans and 17% are Wetponds & Wetlands = 86% of total cutoff₂



Cutoff

- “Cutoff” (aka “excess” in CAST’s “BMP submitted versus credited” report) identifies that the implementation level of a BMP within the submitted spatial scale of the BMP – exceeds a 100% implementation level.
 - For example, the acres of BMP submitted or planned in a county exceeds the land use acres in that county that are available for the BMP.



Cutoff

- For a progress scenario, cutoff is typically due to:
 - Over-reporting of BMPs
 - Inaccuracies in the land use acres or animal populations or systems that the BMPs apply to
 - There will be improvements in land use/land cover with new high-resolution data, more so for non-agricultural land uses



Cutoff Animal BMPs

StateAbbreviation	BMP	Unit	AnimalName	AmountSubmitted	AmountCutOff	AmountCutOff (%)	
AllStates	AllBMPs	Animal Units	AllAnimalTypes	9,430,665	3,900,907	41%	
StateAbbreviation	BMP	Unit	AnimalName	AmountSubmitted	AmountCutOff	AmountCutOff (%)	
MD	Mortality Composters	Animal Units	broilers	825,361	757,186	19%	of total cutoff
MD	Animal Waste Management System	Animal Units	broilers	2,037,534	675,022	17%	of total cutoff
DE	Mortality Composters	Animal Units	broilers	688,480	642,457	16%	of total cutoff
VA	Animal Waste Management System	Animal Units	broilers	1,372,689	557,465	14%	of total cutoff
						67%	of total cutoff



Cutoff

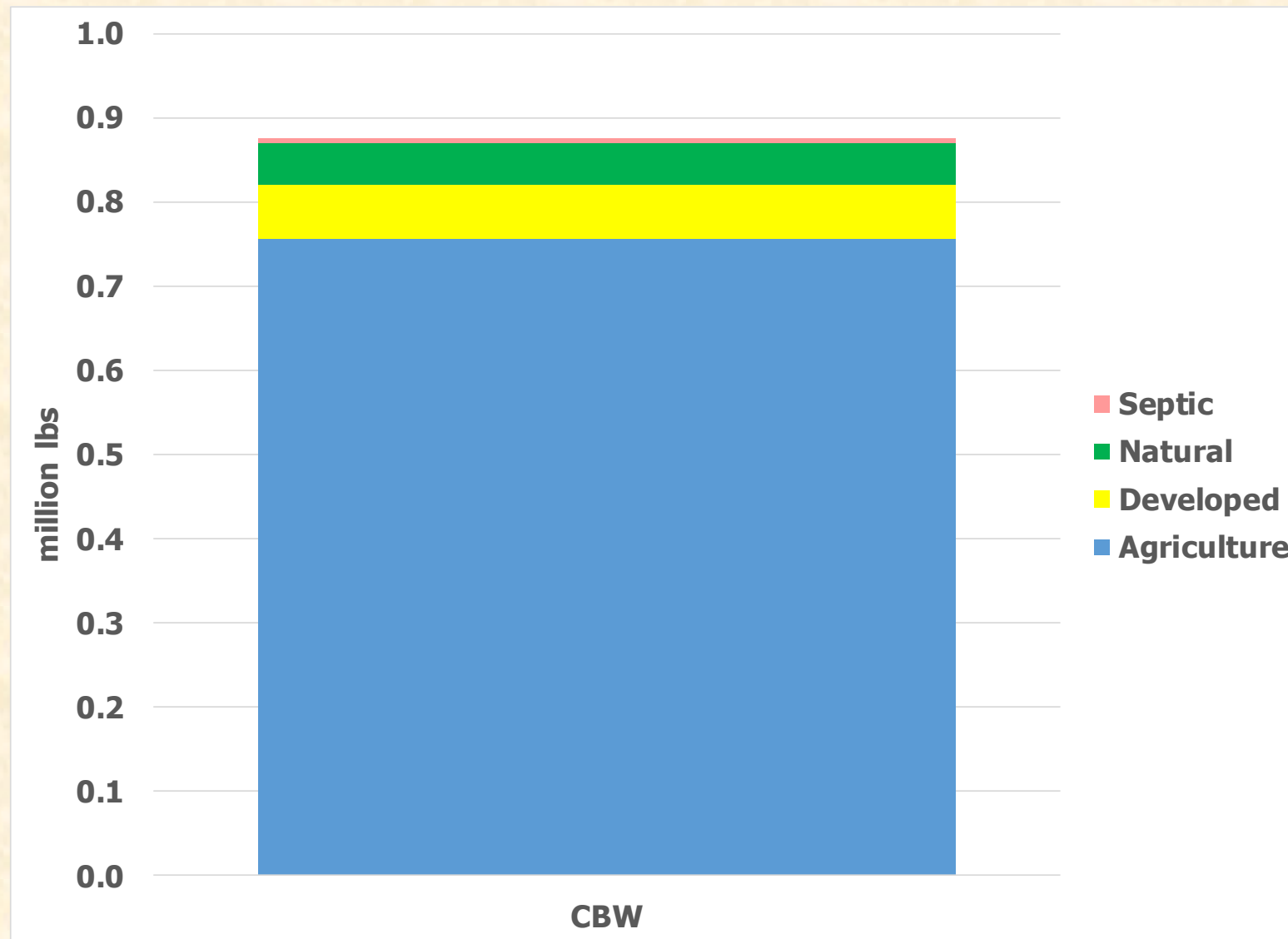
Manure Treatment BMPs

GeographyFrom	GeographyTo	BMP	Unit	AnimalName	AmountSubmitted	AmountCutOff	AmountCutOff (%)	
All	All	Manure Transport	dry tons	AllAnimalTypes	176,416	39,183	22%	
GeographyFrom	GeographyTo	BMP	Unit	AnimalName	AmountSubmitted	AmountCutOff	AmountCutOff (%)	
Adams, PA	Carroll, MD	Manure Transport	dry tons	dairy	16,141	10,278	26% of total cutoff	
St. Marys, MD		Manure Transport	dry tons	broilers	10,178	10,118	26% of total cutoff	
Adams, PA	Carroll, MD	Manure Transport	dry tons	dairy	12,011	7,649	20% of total cutoff	
Frederick, MD	Washington, MD	Manure Transport	dry tons	broilers	2,727	2,719	7% of total cutoff	
							79% of total cutoff	



BMP Credit Duration

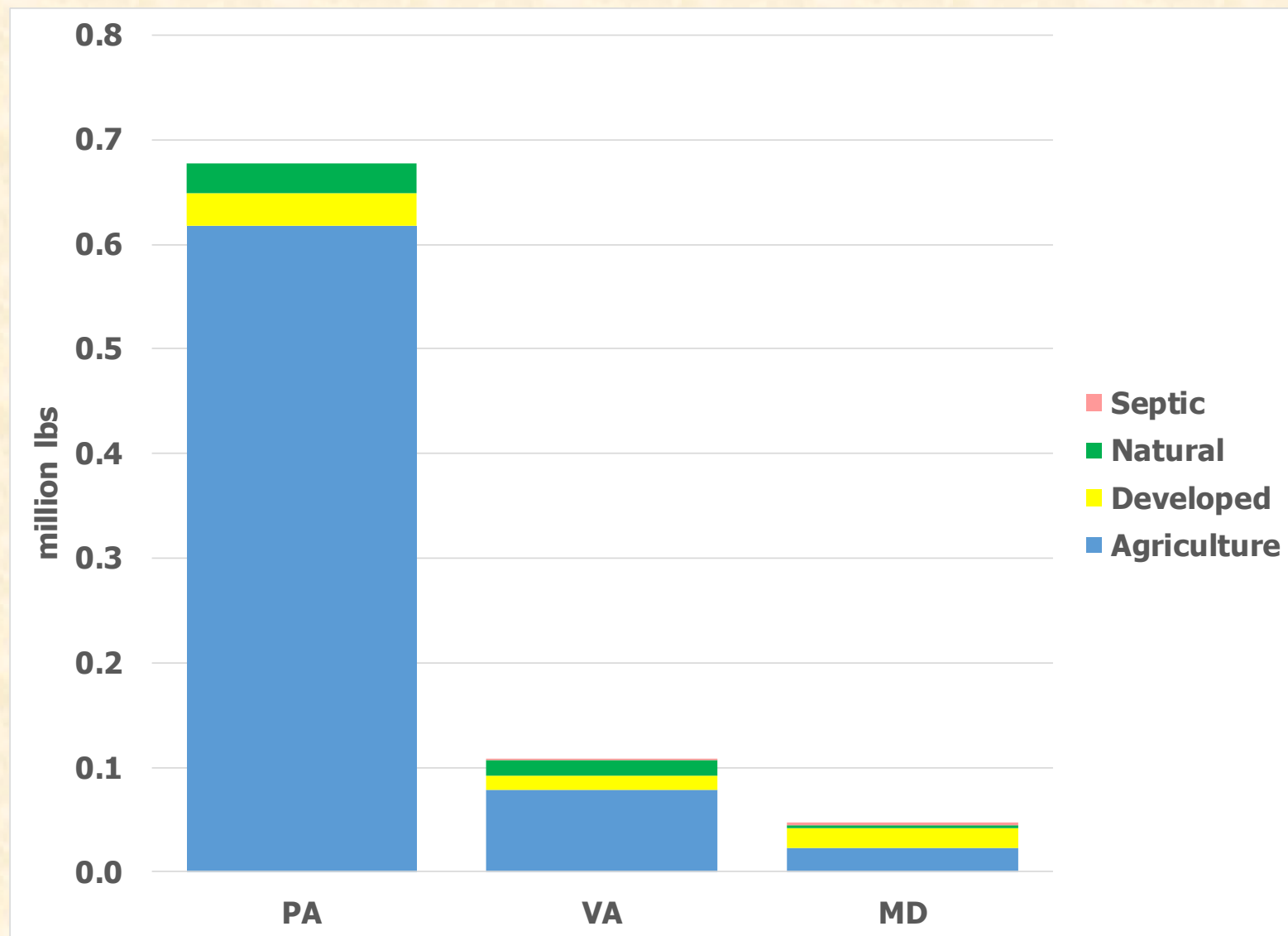
2018-2019 Load Change Due To Expiring BMPs





BMP Credit Duration

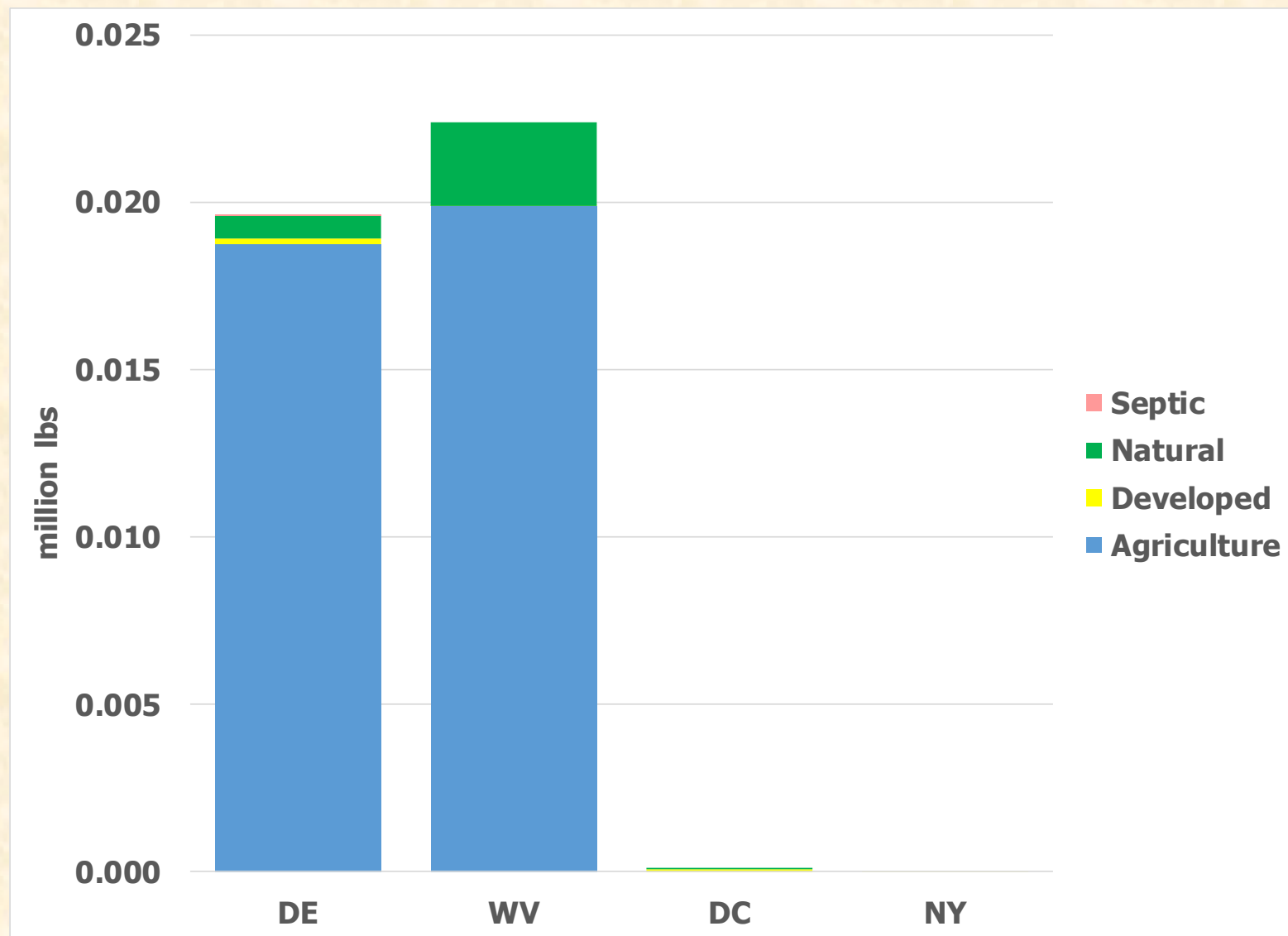
2018-2019 Nitrogen Load Change Due To Expiring BMPs





BMP Credit Duration

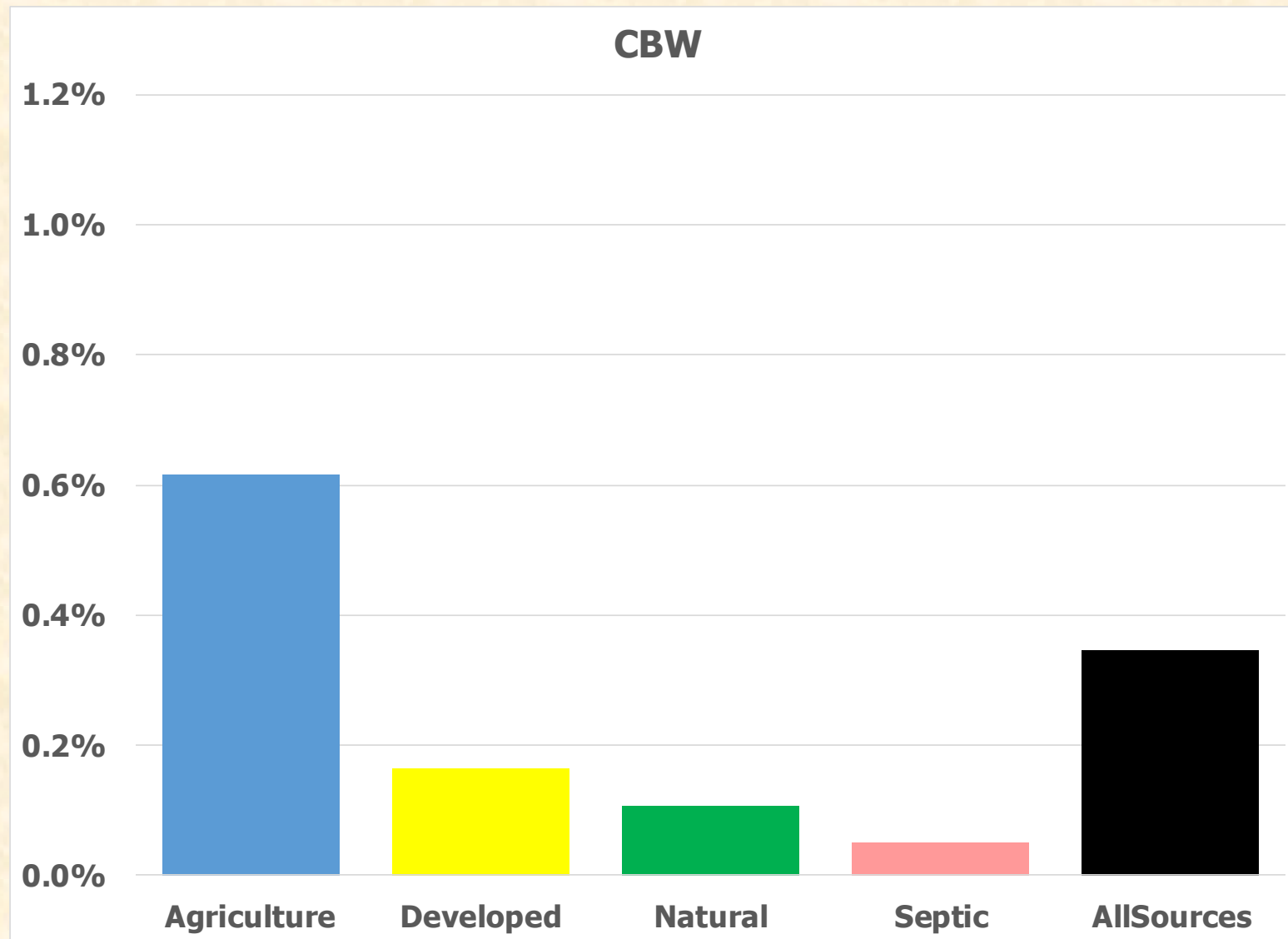
2018-2019 Nitrgoen Load Change Due To Expiring BMPs





BMP Credit Duration

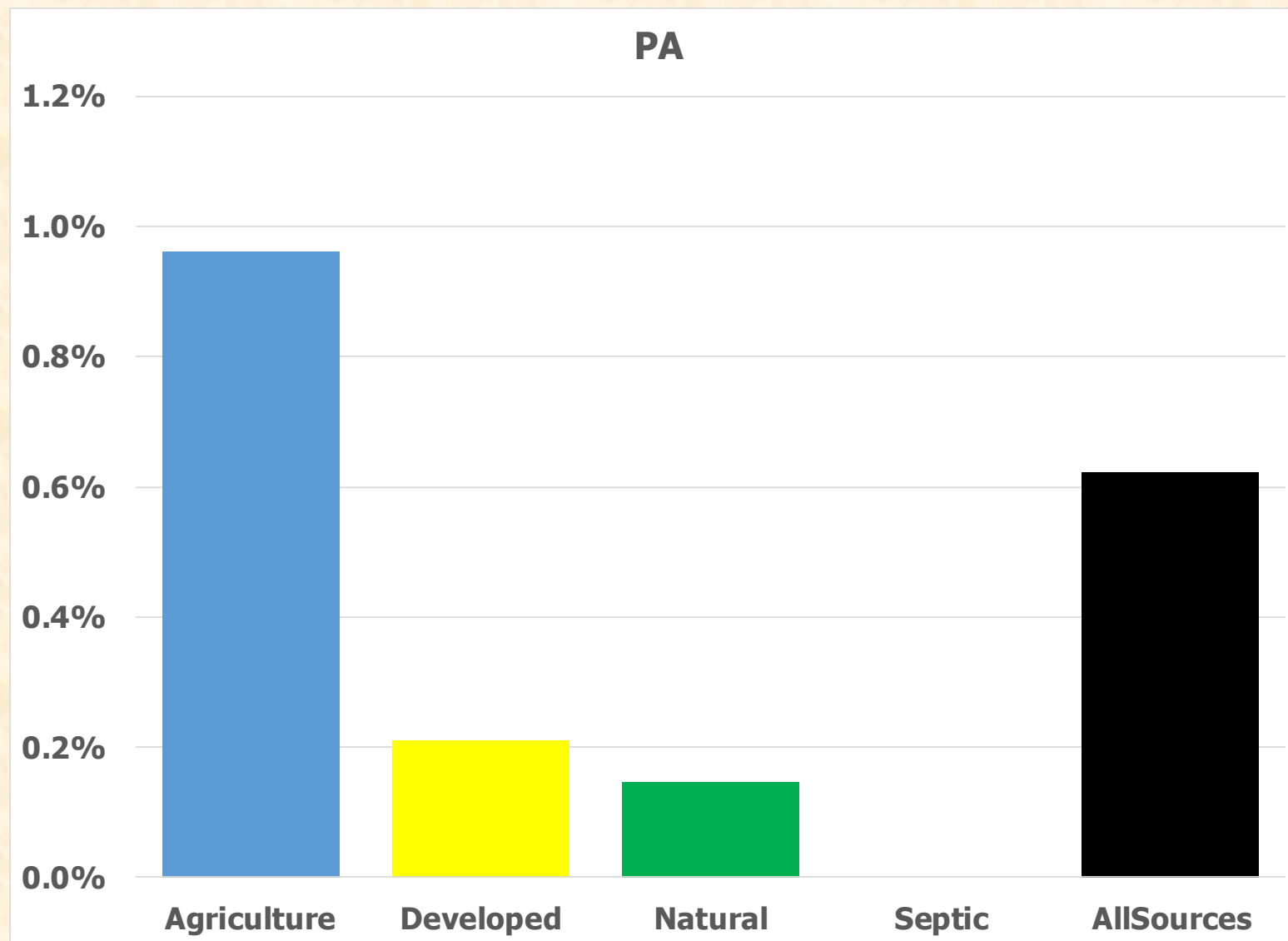
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BMP Credit Duration

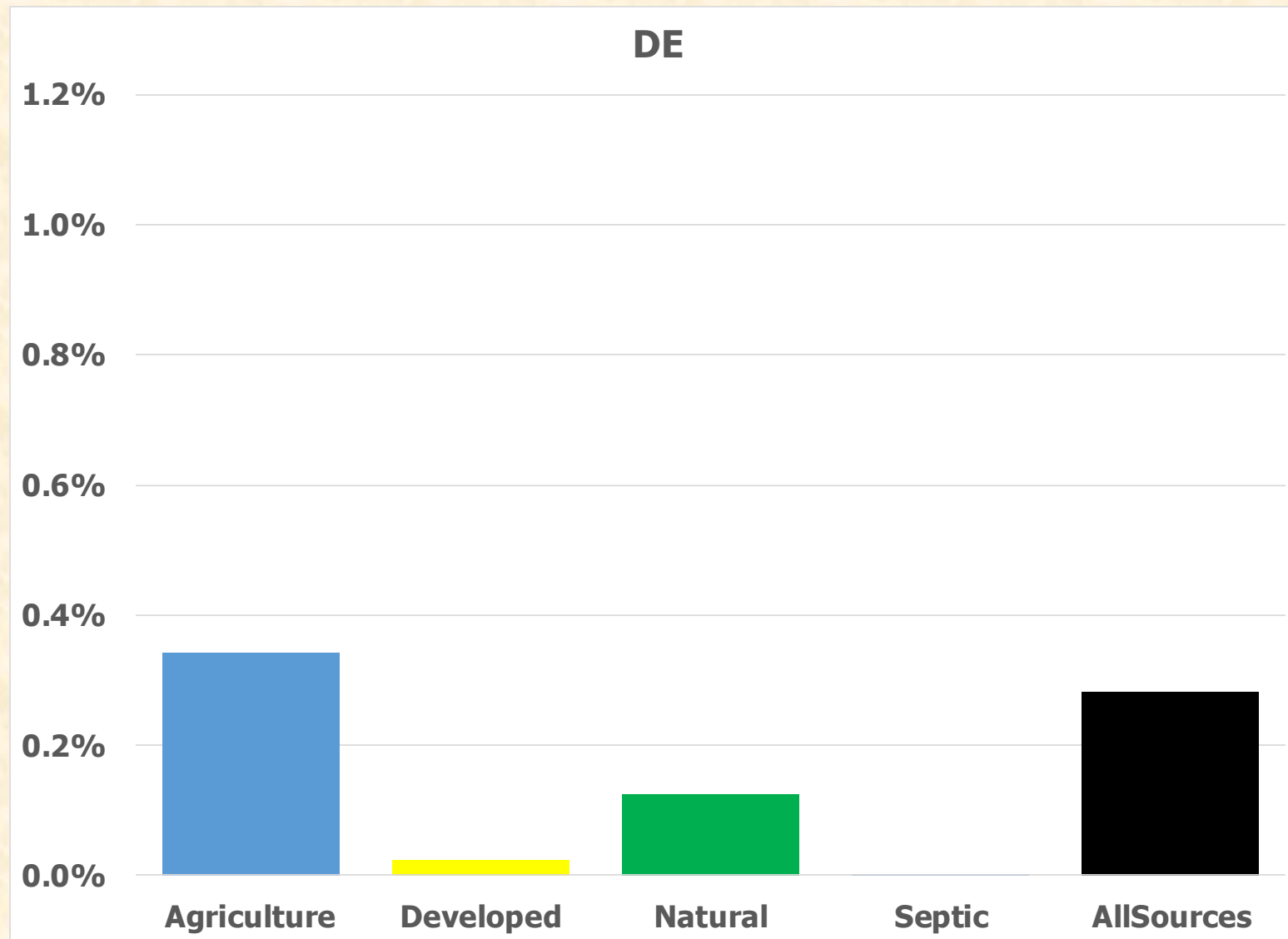
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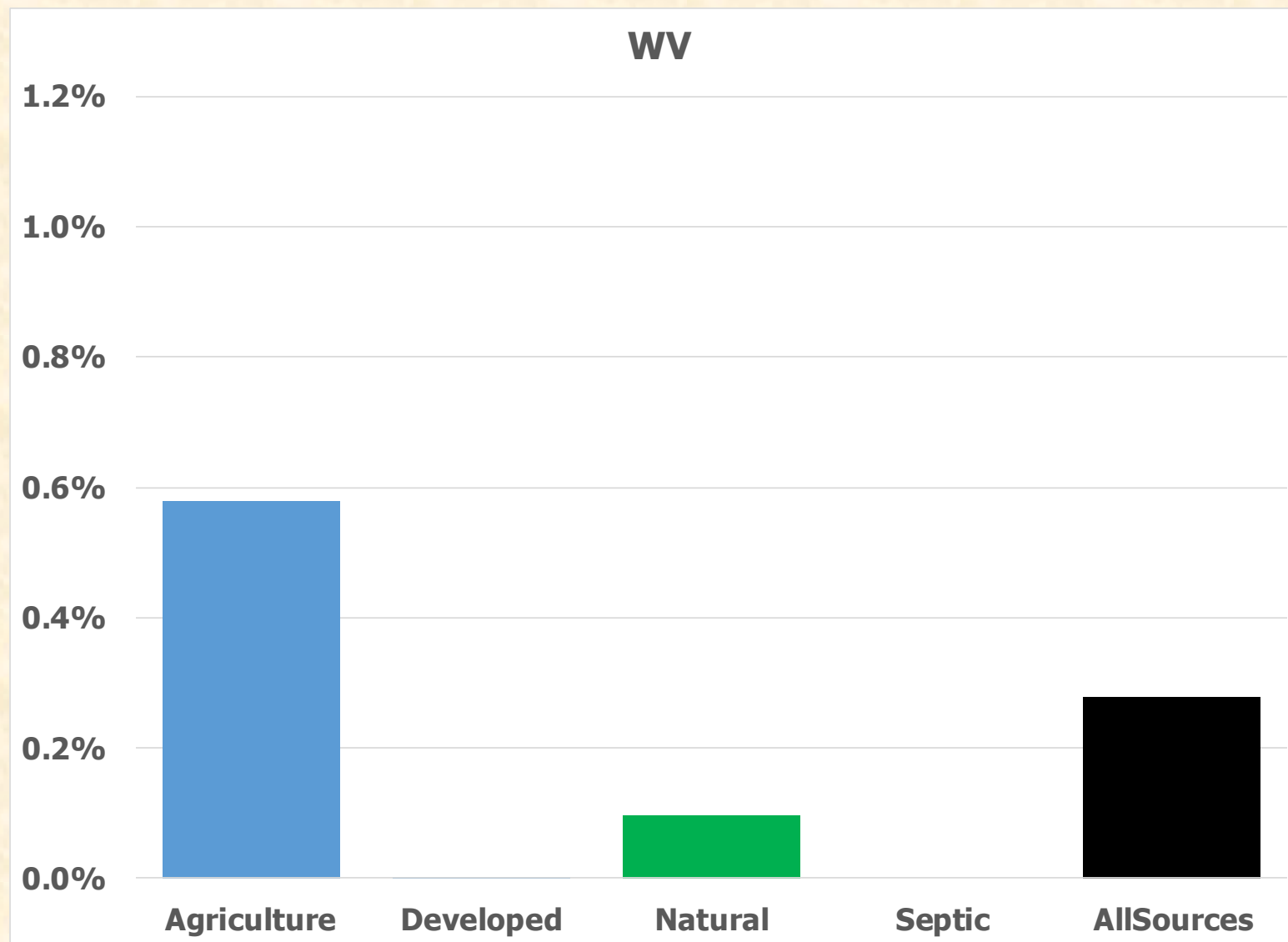
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BMP Credit Duration

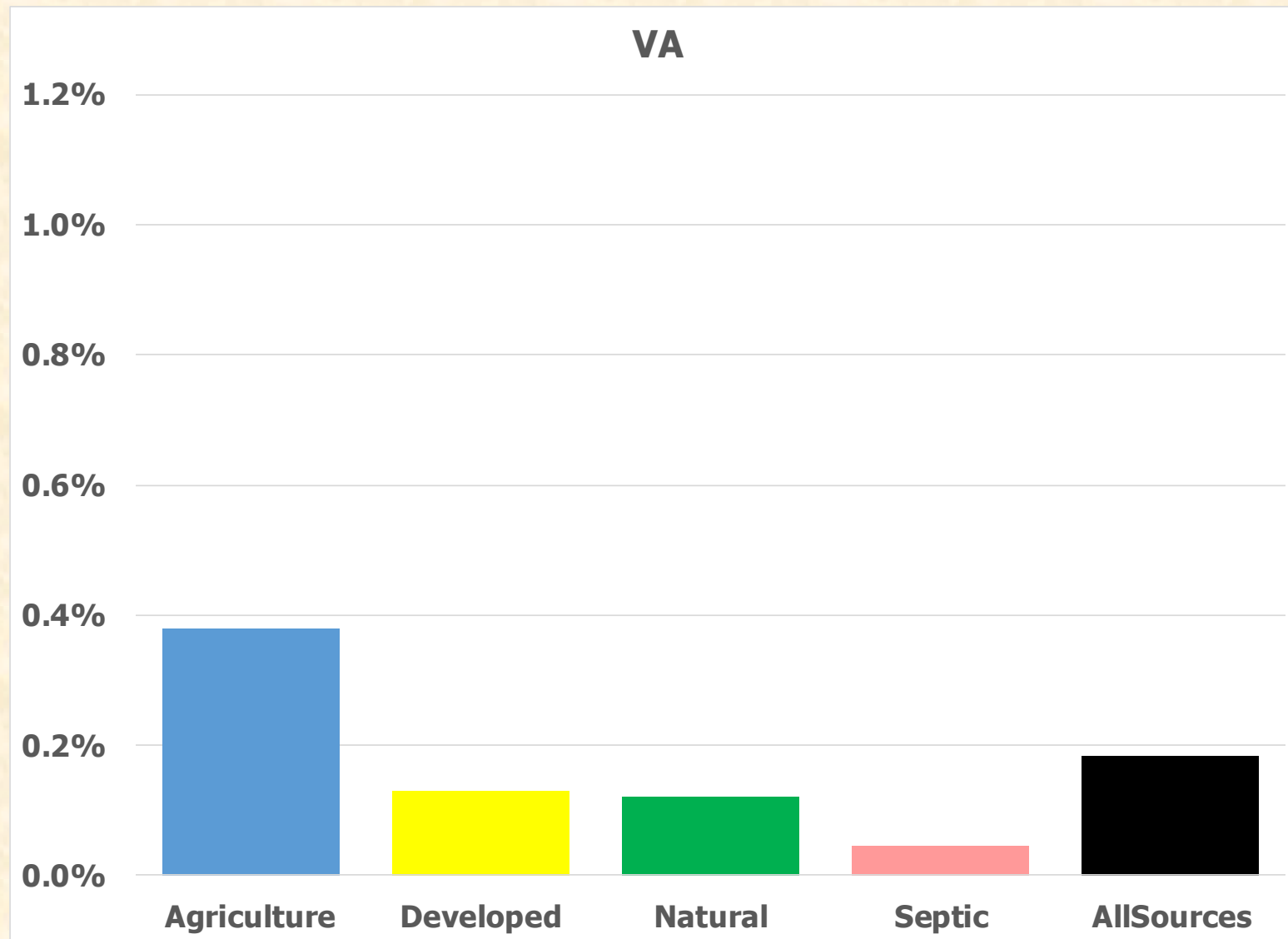
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BMP Credit Duration

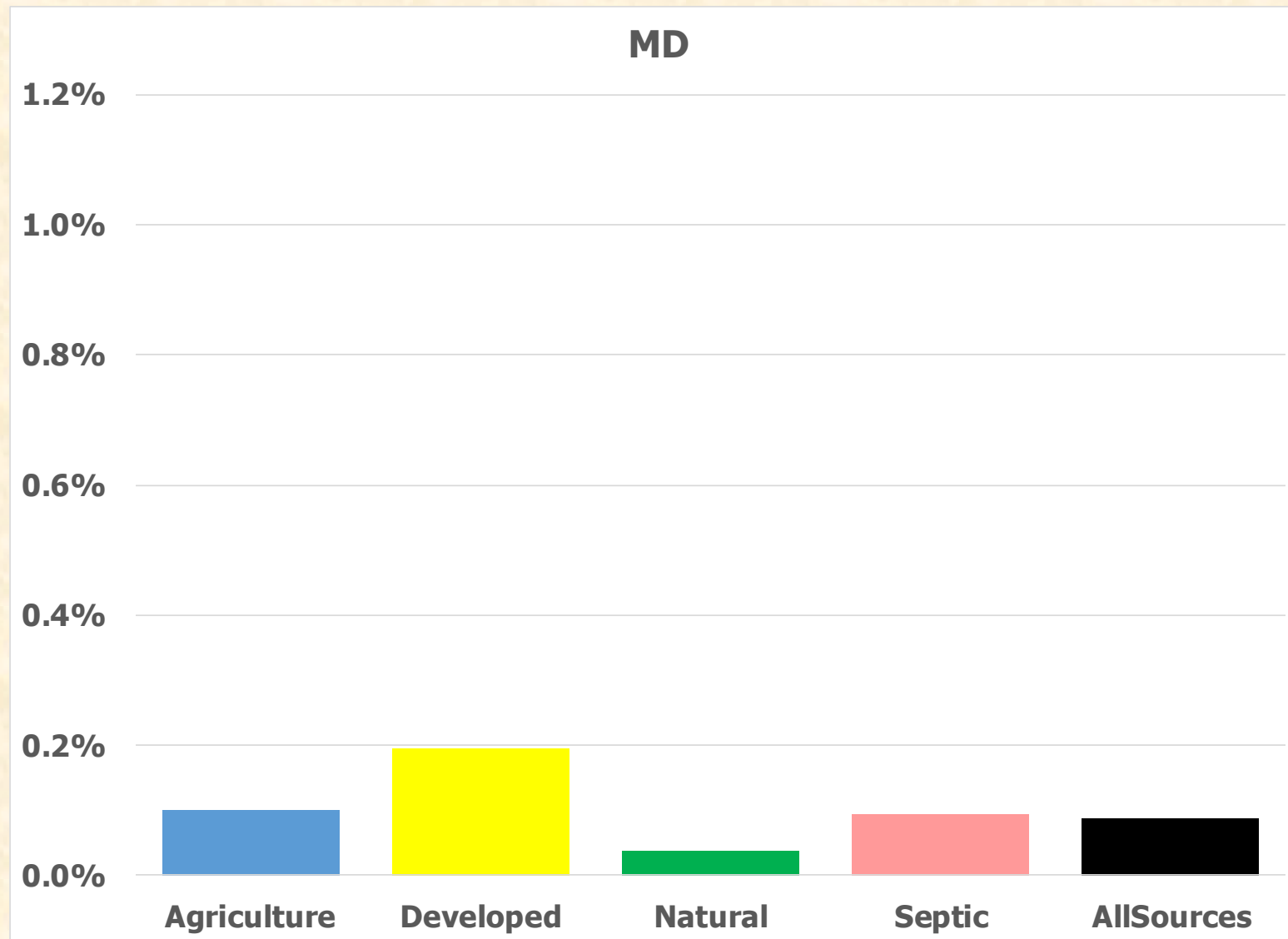
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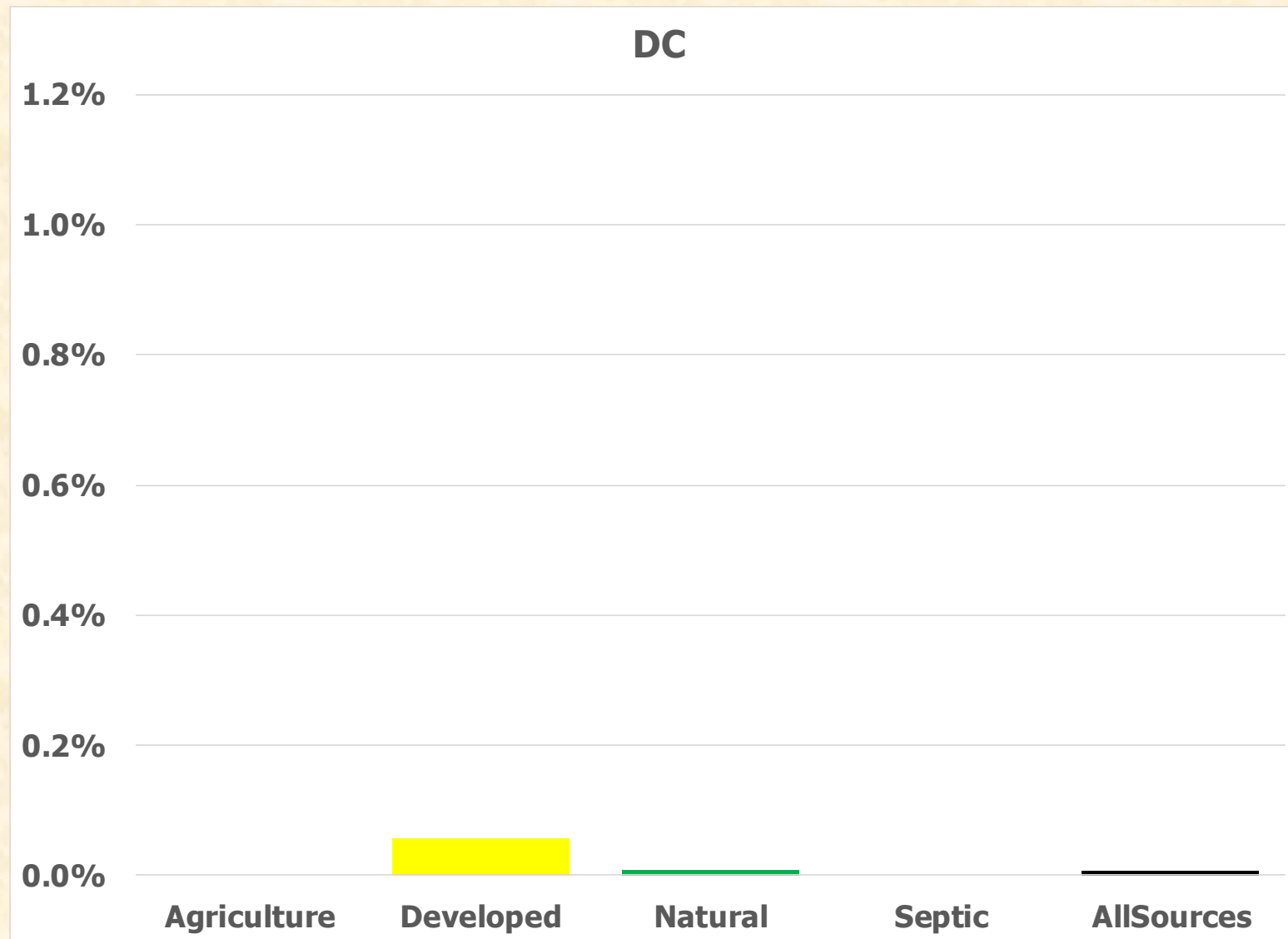
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BMP Credit Duration

2018-2019 Nitrgoen Load Change Due To Expiring BMPs





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Schedule for TMDL-Related Scenarios

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Model-Related Schedule

2020 Progress

- NEIEN Appendix and DET are posted and final as of 8/31/20 for 2020 Progress scenario
- September 1, 2020 – Jurisdictions are encouraged to begin submitting their BMP implementation to NEIEN for the progress assessment.
- Ongoing review of submissions will occur between September and December, with the expectation that December 1 data submissions are QA/QC'd and final.



Model-Related Schedule

2020 Progress Scenario Data Needs

- Previous year's data is assumed for the following if no state data is received. Previous year is 2013 for most jurisdictions AND for most of these seven data requests:
 - Deadline has passed
 - Construction - defaults except DC, DE, PA, VA and WV
 - Harvested forest - defaults except VA and WV
 - CAFO/AFO animal splits



Model-Related Schedule

2020 Progress Scenario Data Needs

- Previous year's data is assumed for the following if no state data is received. Previous year is 2013 for most jurisdictions AND for most of these seven data requests:
 - Due Dec. 1
 - Biosolids
 - Ag and Urban Spray Irrigation
 - Rapid Infiltration Basins
 - Large Monitored Septic Systems
 - CSO Pass-Through Factors



CAST Data Needs

Jurisdiction Reporting for Annual Progress Model Scenario

Progress Data (submitted annually)	DC	DE	MD	NY	PA	VA	WV
Animals in permitted/non-permitted feeding space, number or percent	NA	2013	2013	2013	2013	2013	2013
Construction, acres	2020	2020	2017	None	2020	2020	2020
Harvested forest, acres	NA	None	2013	None	None	2020	2020
Biosolids	NA	2013	2013	2013	2013	2013	2019
Agricultural spray irrigation	NA	2013	2019	2013	2013	2013	2013
Urban spray irrigation	NA	1985	2019	None	None	1985	2019
Rapid infiltration basins (RIB)	NA	1995	2019	None	None	None	None
Large monitored septic systems - commercial	NA	2016	None	None	None	2016	1995
Large monitored septic systems - residential	NA	1995	None	None	None	2016	None
CSO pass thru	2018	NA	2014	1984	2014	1999	2019



Model-Related Schedule

2020 Progress

- An updated version of the Point Source Data Submission app was released
- Along with facility data, the information includes the categories CSO, spray irrigation, large onsite systems, and rapid infiltration which continue to be submitted via spreadsheets using the templates provided at (<https://archive.chesapeakebay.net/VT/> Filename: WWTP_CSO_Biosolid_Irrigation_LargeOnsite_RIB_In put_Templates2016).



Model-Related Schedule

2020 Progress

- Federal agencies are to submit their data to states by October 1, 2020 so the states can incorporate the federal submissions into their overall submission.
- New templates are posted to CAST in the federal agency section. It is a good idea for federal agencies to check with states to ensure that those are the preferred template for each state.



Model-Related Schedule

2020 Progress

- December 1, 2020 – QA/QC'd final data to be submitted by jurisdictions, including any updates to BMP Verification Program Plans describing new data sources and changes to methods of tracking to CBPO – both wastewater data and non-wastewater BMPs.



Model-Related Schedule

2020 Progress

- Outstanding verification issues from EPA's assessment of 2019 progress BMP data and/or the jurisdiction's BMP Verification Program Plan (QAPP) should be addressed with the BMP data and QAPP submission for 2020 progress.
- Additional revisions to the jurisdictions' QAPPs may be necessary after December 1 as a result of EPA's review of each jurisdiction's 2020 Progress submissions.



Model-Related Schedule

2020 Progress

- February 8, 2021 – Final progress run information for progress available to jurisdictions – needed for outside reporting of progress on commitments and to keep results relevant.