

Federal Facilities Workgroup

Federal Agency BMP Credit Evaluation Update

September 13, 2022



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Federal Agency Data Request Results

Status of Federal Agency BMP Data Request						
Agency/State	MD	NY	PA	VA	DC	WV
ARS	Green	X	X	X	Green	X
DoD	Green	Green	Green	Green	Green	Green
GSA	Green	Red	Red	Green	Green	Red
NASA	Green	X	X	Green	X	X
NPS	Green	X	Green	Green	Red	Green
Smithsonian	Red	X	X	Red	Red	X
USACE	Green	Green	Green	Red	Red	Green
US FWS	Green	X	Green	Green	X	Green
USFS	X	X	X	Red	X	Red

Red: No BMPs reported

Green: BMP data was provided

Thank you to everyone who submitted BMP data!

Federal Agency Evaluation Update

BMP Credit Evaluation Results

BMP Credit Evaluation Results						
Agency/State	MD	NY	PA	VA	DC	WV
ARS	0%				0%	
DoD	96%	100%	98%	79%	39%	0%
GSA	7%	No BMPs reported.	No BMPs reported.	No BMPs reported.	6%	No BMPs reported.
NASA	62%			47%		
NPS	0%		100%	100%	No BMPs reported.	0%
Smithsonian	No BMPs reported.			No BMPs reported.	No BMPs reported.	
USACE	No BMPs eligible.	No BMPs eligible.	79%	No BMPs reported.	No BMPs reported.	No BMPs eligible.
US FWS	0%		75%	10%		0%
USFS				No BMPs reported.		No BMPs reported.

% = Number of BMPs in CAST / Number of BMPs Eligible for Credit in CAST

BMP Types Not Eligible for Credit

Some BMPs are not eligible for credit in CAST. Refer to the [CAST Source Data spreadsheet](#) or the [BMP Quick Reference Guide](#) for a list of creditable practices & the criteria for credit.



Indoor water conservation measures



Land conservation



Water quality monitoring



NPDES permit implementation

BMPs Not Eligible for Federal Credit

Federal agencies do not receive credit in CAST for some classes of BMPs because they do not have assigned pollutant loads in those source sectors.



Construction



Septic



Harvested Forest



Wastewater



Agriculture

What BMPs Are Eligible?

Abandoned Mine Reclamation

Advanced Grey Infrastructure Nutrient Discovery Program (IDDE)

Advanced Sweeping Technology – Multiple practices

Algal Flow-way Non-Tidal Monitored

Algal Flow-way Non-Tidal

Algal Flow-way Tidal

Algal Flow-way Tidal Monitored

Bioretention/raingardens - A/B soils, no underdrain

Bioretention/raingardens - A/B soils, underdrain

Bioretention/raingardens - C/D soils, underdrain

Bioswale

Conservation Landscaping Practices

Diploid Oyster Aquaculture 2.25 Inches

Diploid Oyster Aquaculture 3.0 Inches

Diploid Oyster Aquaculture 4.0 Inches

Diploid Oyster Aquaculture 5.0 Inches

Diploid Oyster Aquaculture Greater 6.0 Inches

Dirt & Gravel Road Erosion & Sediment Control - Driving Surface Aggregate + Raising the Roadbed

Dirt & Gravel Road Erosion & Sediment Control - Driving Surface Aggregate with Outlets

Dirt & Gravel Road Erosion & Sediment Control - Outlets only

Dry Detention Ponds and Hydrodynamic Structures

Dry Extended Detention Ponds

Filter Strip Runoff Reduction

Filter Strip Stormwater Treatment

Filtering Practices

Floating Treatment Wetland 10% Coverage of Pond

Floating Treatment Wetland 20% Coverage of Pond

Floating Treatment Wetland 30% Coverage of Pond

Floating Treatment Wetland 40% Coverage of Pond

Floating Treatment Wetland 50% Coverage of Pond

Forest Buffer

Forest Planting

Grass Buffers

Impervious Disconnection to amended soils

Impervious Disconnection to amended soils

Impervious Surface Reduction

Infiltration Practices w/ Sand, Veg. - A/B soils, no underdrain

Infiltration Practices w/o Sand, Veg. - A/B soils, no underdrain

Mechanical Broom Technology – Multiple practices

Non Urban Shoreline Erosion Control Non-Vegetated

Non Urban Shoreline Erosion Control Vegetated

Non Urban Shoreline Management

Non Urban Stream Restoration

Non Urban Stream Restoration Protocol

Nutrient Management Maryland Commercial Applicators

Nutrient Management Maryland Do It Yourself

Nutrient Management Plan

Nutrient Management Plan High Risk Lawn

Nutrient Management Plan Low Risk Lawn

Oyster reef restoration – enhanced denitrification

Oyster reef restoration – nutrient assimilation

Permeable Pavement w/ Sand, Veg. - A/B soils, no underdrain

Permeable Pavement w/ Sand, Veg. - A/B soils, underdrain

Permeable Pavement w/ Sand, Veg. - C/D soils, underdrain

Permeable Pavement w/o Sand, Veg. - A/B soils, no underdrain

Permeable Pavement w/o Sand, Veg. - A/B soils, underdrain

Permeable Pavement w/o Sand, Veg. - C/D soils, underdrain

Site-Specific Monitored Oyster Aquaculture

Storm Drain Cleaning

Stormwater Performance Standard-Runoff Reduction

Stormwater Performance Standard-Stormwater Treatment

Tree Planting - Canopy

Triploid Oyster Aquaculture 2.25 Inches

Triploid Oyster Aquaculture 3.0 Inches

Triploid Oyster Aquaculture 4.0 Inches

Triploid Oyster Aquaculture 5.0 Inches

Triploid Oyster Aquaculture Greater than 6.0 Inches

Urban Shoreline Erosion Control Non-Vegetated

Urban Shoreline Erosion Control Vegetated

Urban Shoreline Management

Urban Stream Restoration

Urban Stream Restoration Protocol

Vegetated Open Channels - A/B soils, no underdrain

Vegetated Open Channels - C/D soils, no underdrain

Wet Ponds and Wetlands

Wetland Enhancement

Wetland Rehabilitation

Inspection, Maintenance, and Lifespan Issues

Some BMPs are excluded from CAST because of the BMP's inspection, maintenance, or implementation information.



BMP is not credited due to an outdated inspection.

Need to report a recent passed inspection.



BMP is not credited due to a failed inspection.

Need to report a maintenance date or a recent passed inspection.



BMP is not credited because it is already accounted for in the CAST baseline data.

No action required; pollutant reductions are already captured in CAST.

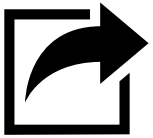


BMP is not credited because it is an annual BMP implemented in a past year.

No action required; report annual BMPs each year they are implemented in a new row.

Other Issues

Federal agencies do not receive credit in CAST for some classes of BMPs because they do not have assigned pollutant loads in those source sectors.



BMP not found in jurisdiction database.

BMP may need to be reported to the jurisdiction; be sure to use the jurisdiction's specified reporting template.



BMP is not credited due to missing required information.

Provide missing information.

Federal Agency Evaluation Update

Spreadsheet Organization: READ ME

Federal Agency BMP Credit Evaluation

Virginia

Dated September 9, 2022

Purpose

The purpose of the BMP Credit Evaluation is to compare each major federal agency's BMP record to the BMP data assigned their agency code in the jurisdiction database, the National Environmental Information Exchange Network (NEIEN), and the Chesapeake Bay Assessment Scenario Tool (CAST). This evaluation also leverages information provided in the NEIEN Validation Report to describe why some BMPs are not included in the CAST 2021 Progress scenario.

Limitations

This evaluation only determines if BMPs are present in the CAST 2021 Progress scenario; it does not assess the amount of the BMP that is credited or the associated pollutant reductions.

It also does not assess BMPs in the jurisdiction database, NEIEN, or CAST that are not assigned to the correct agency code. Furthermore, the explanations for lack of credit are limited to error codes identified from NEIEN, BMPs that need to be reported to the jurisdiction, and BMP types that are not eligible for credit for federal agencies.

Organization

The workbook includes a tab for each federal agency, which includes the BMP records provided by the federal agency. For the purposes of the BMP Credit Evaluation, some columns have been added to this sheet. These column headers are shaded with gold fill color. A description of the columns are included here:

Column Title	Description
RecordID	RecordID contains a unique identifier assigned to the BMP for this analysis.
Is it Credited?	The cell contents (YES/NO) indicate if the BMP is present with the correct federal agency code in CAST.
Jurisdiction Status	The cell contents (PRESENT/ABSENT) indicate if the BMP was found in the jurisdiction's database of federal BMPs.
NEIEN BMP Status	The cell contents indicate if the BMP was present in the NEIEN validation report with a BMP error (ERROR), if it was present in the NEIEN validation report without a BMP error (NO ERROR), or if the BMP was not found on the sheets that screen for BMP errors (ABSENT).

READ ME

DoD

NASA

NPS

USFWS

Jurisdiction

Interpreting Overall Results

The **READ ME** sheet includes a table with a summary of the results of the **BMP Credit Evaluations by agency**.

	DoD	NASA	NPS	USFWS
BMPs in CAST from Agency Dataset	1388	16	20	2
BMPs Not in CAST from Agency Dataset	471	40	1	102
Number of BMPs Eligible for Credit	1755	34	20	21
Number of Eligible BMPs Not in CAST	367	18	0	19
BMPs in only Jurisdiction Dataset	574	19	85	11
Percent BMPs in CAST (of Eligible BMPs)	79%	47%	100%	10%

Interpretation Notes:

This is the maximum number of BMPs that can be credited.

These are the BMPs that potentially could be credited but are not currently.

These are BMPs that should be added to the federal agency's record or removed from the jurisdiction record.

Number of BMPs from the data provided by the federal agency that are and are not present in the **CAST 2021 Progress** scenario.

Number of BMPs from the data provided by the federal agency that are considered eligible for credit in **CAST** and the number of those BMPs that are not in **CAST**.

Number of BMPs that are present in the jurisdiction database that could not be matched to a record in the federal agency dataset.

Federal Agency Evaluation Update

Spreadsheet Organization: Agency Tabs

	A	B	C	D	E	F	G	H	I	J
	RecordID	Is it Credited	Jurisdiction Status	NEIEN BMP Status	NEIEN BMP Event Status	CAST Status	Can the BMP type be credited to Feds?	NEIEN Error Code	Notes	Upload
1	VADOD127	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
2	VADOD128	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
3	VADOD1283	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
4	VADOD1290	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
5	VADOD1311	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
6	VADOD1312	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
7	VADOD14	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
8	VADOD1446	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
9	VADOD1447	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
10	VADOD1448	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
11	VADOD1482	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
12	VADOD1483	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
13	VADOD1485	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
14	VADOD1499	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
15	VADOD1510	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
16	VADOD1511	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
17	VADOD1513	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
18	VADOD1516	NO	PRESENT	ABSENT	ERROR	ABSENT	NO	BMP failed inspection.	Annual BMPs implemented in past progress years are not credited in the current year.	
19	VADOD1534	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
20	VADOD1535	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
21	VADOD1536	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
22	VADOD1538	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
23	VADOD1549	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
24	VADOD1560	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
25	VADOD1571	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
26	VADOD1582	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
27	VADOD1593	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
28	VADOD1604	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
29	VADOD1610	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	
30	VADOD1611	NO	PRESENT	ABSENT	ABSENT	ABSENT	NO		Annual BMPs implemented in past progress years are not credited in the current year.	

Status columns: Captures BMP status in the jurisdiction database, NEIEN, & CAST.

Is it Credited: Is the BMP present in the CAST 2021 Progress scenario?

NEIEN Error Code: Error code straight out of NEIEN, if applicable.

Notes: BC observations and recommendations.

Spreadsheet Organization: Jurisdiction tab

In Federal Database?: “ABSENT” indicates the BMP was not found in the federal agency’s BMP record. A number corresponds to the BMP’s row on the federal agency sheet.

Brown and Caldwell

Recommended Actions for Federal Agencies

1. Review BMPs that are not in the jurisdiction database.

Prioritize reporting of these BMPs in the next data collection period.

2. If the BMP lifespan is expired, report the latest inspection date. If required information is missing, report it in the next data collection period.

3. Review BMPs that are in the jurisdiction database but not in your data record. Determine if these BMPs exist at your facilities.

If so, assess if updates should be reported in the next data collection period.

If not, coordinate with the jurisdiction to remove the invalid records.

4. Review BMPs that are not credited that do not have a NEIEN Error Code. If it is not clear why the BMP isn't credited, coordinate with the jurisdiction.

Remaining Tasks

Task 3: 2021 Progress Evaluation

For federal agencies with a reasonably complete BMP record (criteria TBD), BC utilize CAST to evaluate the federal agency's 2021 Progress loads.

Task 5: Level of Progress Evaluation

In jurisdictions where there is consensus between the FFWG, federal agencies, and the jurisdictions on the FPGs, BC will calculate the remaining reductions required to meet the FPGs for the federal agencies included in Task 3.

Task 6: Summary Technical Memorandum

BC will develop a report summarizing the results of the completed evaluations.

Task 7: FFWG Presentations

BC will present the results of the complete evaluations to the FFWG in a one-hour webinar.



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Questions?