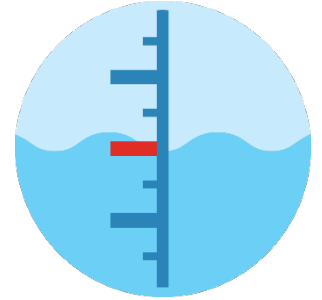


Federal Facilities Work Group

An Overview of the Annual Datacall for the DoD Chesapeake Bay Program

A Framework to Track and Report Data

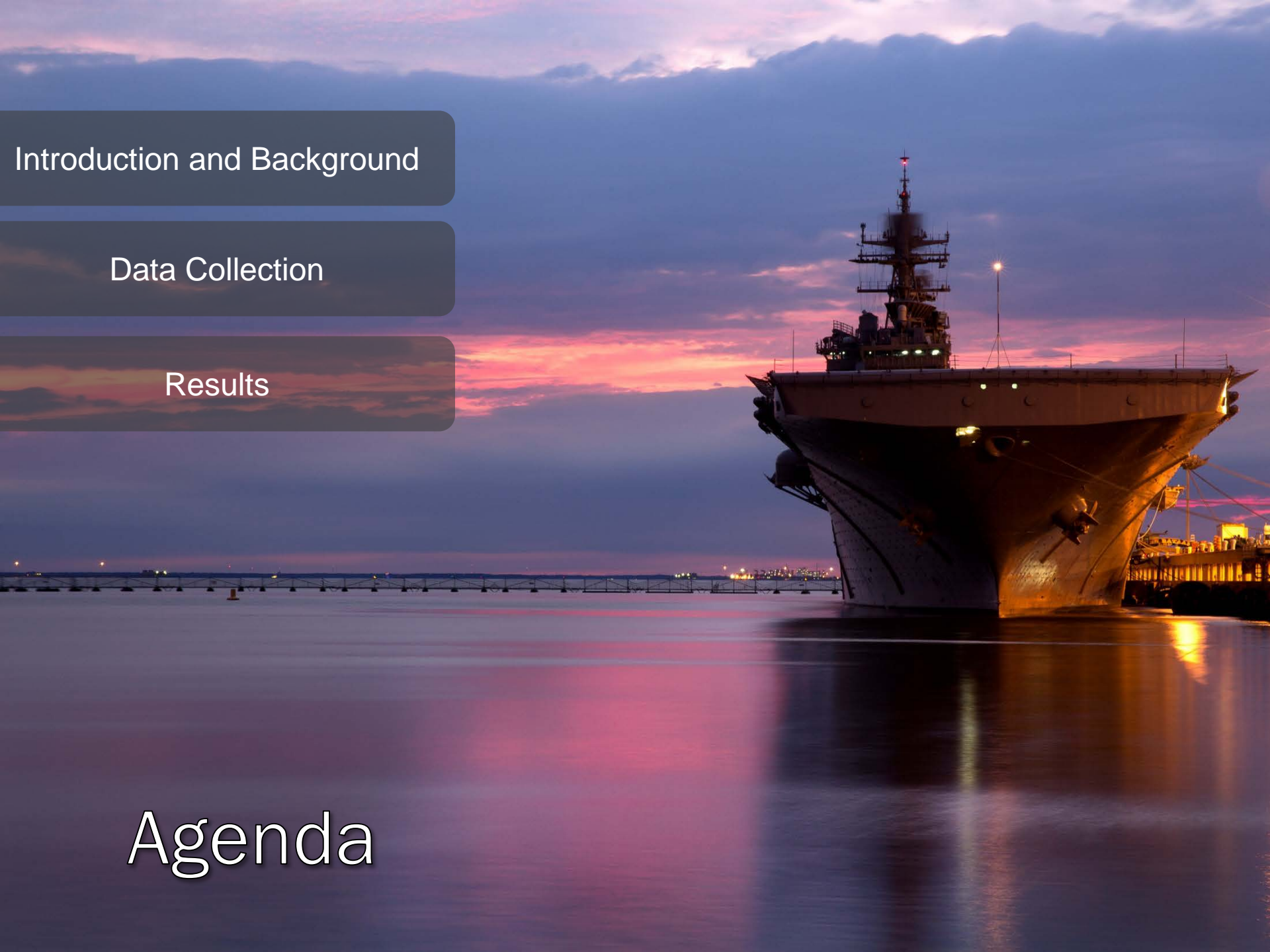


Introduction and Background

Data Collection

Results

Agenda





Background

Department of Defense (DoD) and the Chesapeake Bay Program (CBP)

The Navy is the Lead Agency for the DoD, and works with the Partnership to:

Lead Coordination for all military services.

Represent the DoD within the Partnership

Develop initiatives that align with Bay restoration and protection goals.

Track and Report Progress

Datacall

2nd

Largest Federal Land Holder

400K

Acres of Land in Watershed

130

DoD Installations

1%

Of Total Watershed Area

Drivers



Coordinate with Jurisdictions

Chesapeake Bay TMDL and Watershed Implementation Plans (2010)



Chesapeake Bay Program
Science. Restoration. Partnership.

Coordinate with CBP & EPA

2014 Chesapeake Bay Watershed Agreement

Two-Year Work Plan and Two-Year Water Quality Milestones



Report to Congress

Chesapeake Bay Accountability and Recovery Act

Executive Order 13508

Challenges

Federal facilities face unique challenges:



Multiple locations across the Chesapeake Bay



Different reporting requirements and frameworks in each jurisdiction

Ensure goals and share of effort is fair and equitable and then meet those goals

Multi-year program in an evolving landscape



Multiple, non-exclusive outcomes that must be reported and/or tracked

Challenges

Federal facilities face unique challenges:



Requirements for Datacalls

Best Management Practices (BMP) Datacall

- BMP Implementation Information from DoD Installations towards the **Chesapeake Bay TMDL**.
 - Quantify Credit Received
 - Input into Chesapeake Bay Model

APPROACH (SUMMER/FALL 2017)

1. Collect BMP implementation information
 - **HISTORICAL BMPs** – BMPs implemented prior to July 1, 2016
 - **PROGRESS BMPs** – Status of BMPs implemented between July 1, 2016 and June 30, 2017
 - **PLANNED BMPs** – Funding for BMPs planned to be implemented after June 30, 2017
2. Review, consolidate, and validate
3. Submit to jurisdictions and EPA

Requirements for Datacalls

Projects and Indicators (P&I) Datacall

- Summary of Overall Program Performance Indicators, determined from Two-Year Work Plan
- DoD Project contributions to **Chesapeake Bay Agreement (2014) Goals and Outcomes**
- Funding distributed between **CBARA Categories** and **Executive Order 13508 Goals**

GENERAL APPROACH

1. Collect Project Information
 - **Implemented Projects**
 - **Funded Projects**
 - **Contribution towards program and regulatory goals**
2. Review, Consolidate, and Validate
3. Summarize in Annual Progress Report



Data Collection

BMP Data Collection

PROCESS FOR DOD INSTALLATIONS |



Military Installations
Keep Inventory of
BMPs

Inventories are
Validated and
Consolidated for all
of DoD

Submit Inventories
to Jurisdictions

States Submit BMP
Records to EPA for
Inclusion in the
Model

BMP Datacall Structure

Instructions: Provides detailed information about the data request



Instructions are adapted to each jurisdiction: provides information about required fields, requested attributes, and definitions

BMP Reporting: Installations update previously-reported BMPs and add BMPs



Pre-populated spreadsheet includes **Historical BMPs:**
Installations can change data and/or add or delete records



Installations are asked to provide information about **Progress BMPs** in the latest jurisdiction reporting template.



Installations are asked to provide information about **Planned BMPs** in the latest jurisdiction reporting template.

Planned BMP information was converted to the Phase 6 land BMP template for the Chesapeake Bay Assessment Scenario Tool (CAST).

BMP Data Collected

BMP Types

Extent

Specific
Measurements

Areas Treated

Locations

Land Uses

Inspection
History

Funding

Status

Solutions for Challenges

Installations are located in six jurisdictions

- Jurisdiction reporting templates are adapted to DoD reporting requirements with additional fields for internal use

Datacall is distributed to installations in five military services

- DoD CBP maintains an up-to-date distribution list

Multi-year program

- Installations receive a spreadsheet with the previous historical and progress record pre-populated for verification

DoD CBP has limited resources

- AH/BC validates data and contacts installation for additional information needed to maximize credit.
- Prioritizes needed data, determines key regulation years

Modifications to Jurisdiction Templates

- Conditional Color Coding for Required Fields
- Message Prompts for Further Details
- Drop Downs for Structured Data
- Additional Fields Specific to DoD CBP

E	F	G
Date Installed	BMP Name	Measurement Name

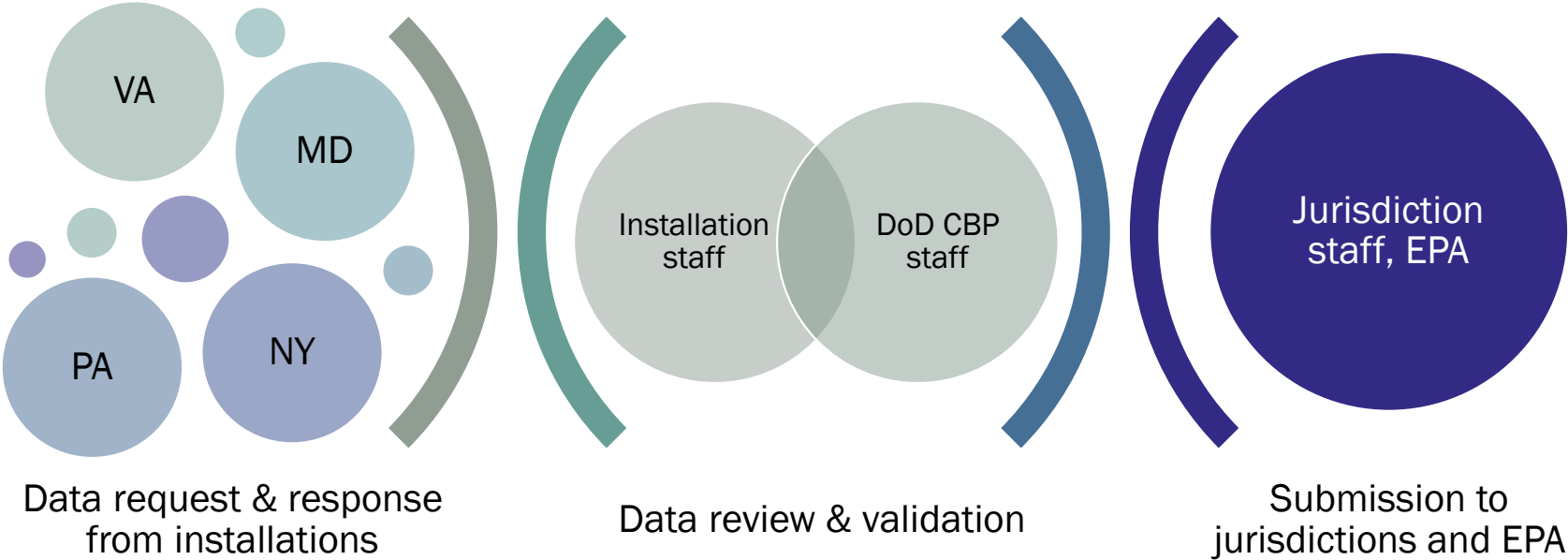


I	J	K
Installed	BMP Name	Measurement Name
	Street Sweeping	
	TBD	
	Permeable Pavement	
	Impervious Area Removal	
	Bioswale	
	Bioretention	

Required, enter the date the BMP was installed (mm/dd/yyyy).

BMP Datacall Summary

56 INSTALLATIONS in 5 states and Washington, D.C. responded to the Phase I Datacall



2,983 HISTORICAL BMPS and 163 PROGRESS BMPS submitted to the jurisdictions.
\$11.9 MILLION invested in BMP implementation in the 2017 progress year.

Project Data Collection (P&I Datacall)



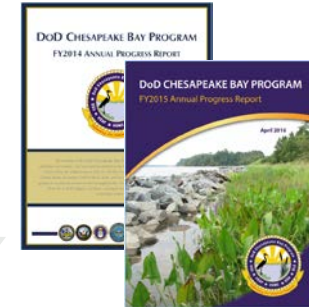
Each Installation
Provides Data

Installations are asked to:

- Update Plan Reported from Previous Year
- Report New Projects
- Associate Projects with Management Strategies and Regulatory Drivers
- Provide Further Information for DoD CBP Program Metrics



Data is Validated,
Consolidated, and
Summarized



Final Results are Published
in Annual Reports, Future
Workplans, and Other
Publications



Projects & Indicators Datacall Structure

Contact Information: Select installation name and provide contact information



Previously-reported projects are pre-populated for the selected installation

Project Data: Installations update previously-reported projects, add new projects



If a project could provide TMDL credit, the information needed to report the BMP should be entered on the **TMDL Credit** sheet.



Each project is associated with a series of regulatory goals and outcomes

Installation Information: Installations are asked for specific information that is consolidated to assess progress toward program metrics



Metrics include Work Plan performance targets (number of fish surveys conducted, wastewater treatment plant upgrades)

Projects & Indicators Data Collected

Project
Category

Project
Narrative

Project Status

Fiscal Year
Funded

Cost

Measurement
Reported and
Units

Regulatory
Drivers

Funding
Source

Management
Strategy

Goals and Outcomes

Each Project must be associated with a value from these four categories:

2014 Chesapeake Bay Agreement Goals
Climate Resiliency
Environmental Literacy
Healthy Watersheds
Land Conservation
Public Access
Stewardship
Sustainable Fisheries
Toxic Contaminants
Vital Habitats
Water Quality

2014 Chesapeake Bay Agreement Outcomes
2017/2025 WIP
Adaptation
Blue Crab Abundance
Blue Crab Management
Citizen Stewardship
Diversity
Environmental Literacy
Fish Habitat
Fish Passage
Forage Fish
Forest Buffer
Healthy Waters
Land Use Methods and Metrics Development
Land Use Options Evaluation
Local Leadership
Monitoring and Assessment
Oyster
Protected Lands
Public Access Site Development
Stream Health
Student
Submerged Aquatic Vegetation
Sustainable Schools
Toxic Contaminants Policy and Prevention
Toxic Contaminants Research
Tree Canopy
Water Quality Standards Attainment and Monitoring
Wetlands

EO 13508 Goals
Conserve Land and Increase Public Access
Develop Environmental Markets
Expand Citizen Stewardship
Recover Habitat
Respond to Climate Change
Restore Clean Water
Strengthen Science
Sustain Fish and Wildlife

CBARA Categories
Education
Feasibility Studies
Infrastructure Development
Monitoring
Physical Restoration
Planning
Scientific Research

Available values for Regulatory Drivers are automatically determined by Project Category

Solutions for Challenges

Installations are located in six jurisdictions

- All installations enter information in one spreadsheet
- Template is constructed to facilitate final consolidation

DoD must track and report multiple, non-exclusive outcomes

- Template is built based on unique regulatory and program requirements and targets for DoD
- The Goals & Outcomes crosswalk can capture if a project contributes to multiple drivers or outcomes.

DoD must meet goals

- Spreadsheet is built to provide metrics that DoD is making progress and meeting goals.

P&I Datacall Summary



57 INSTALLATIONS
RESPONDED



790 TOTAL
PROJECTS
REPORTED



437 FY2017
PROJECTS
COMPLETED

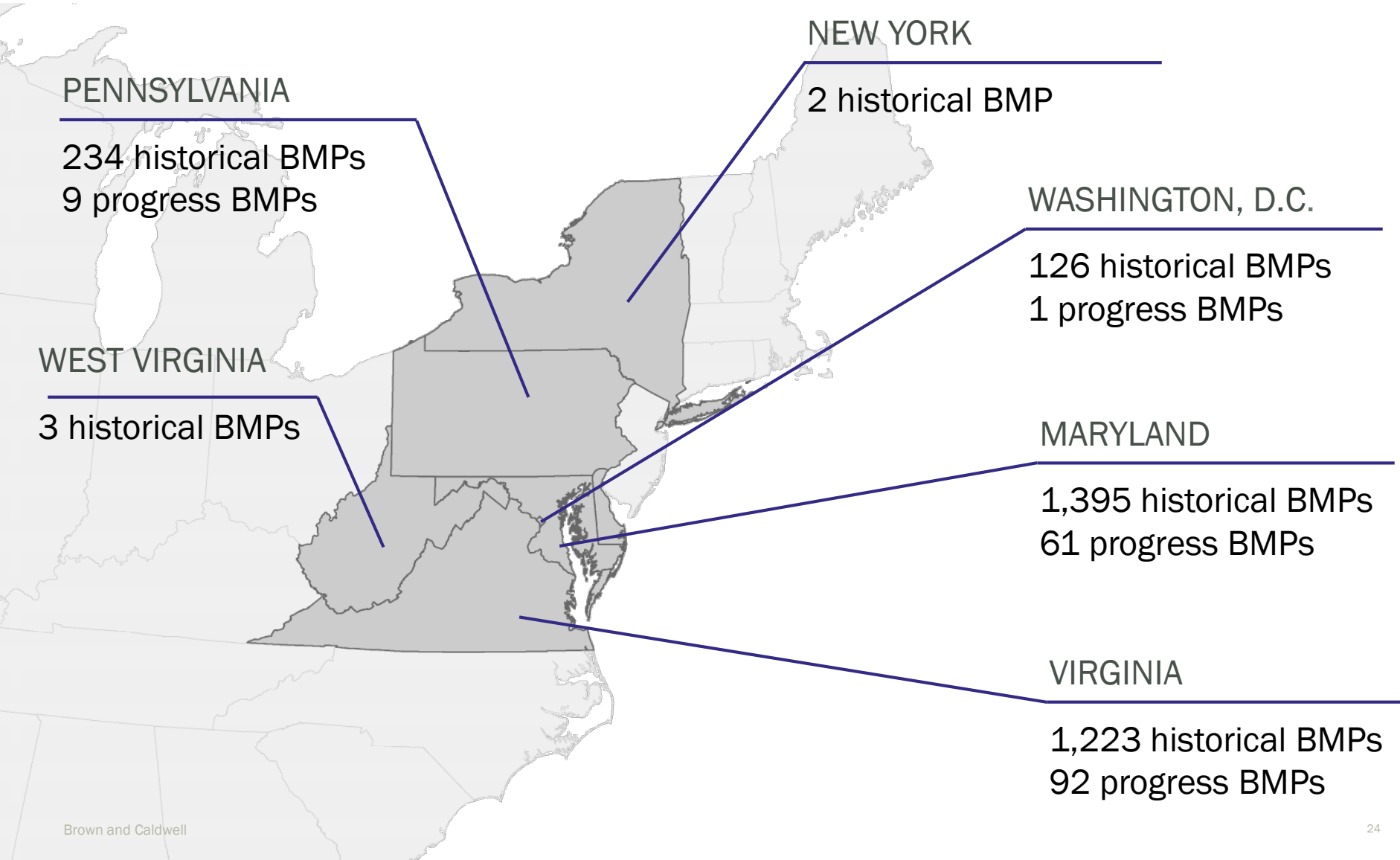


353 FY2018 &
FY2019 PROJECTS
PLANNED

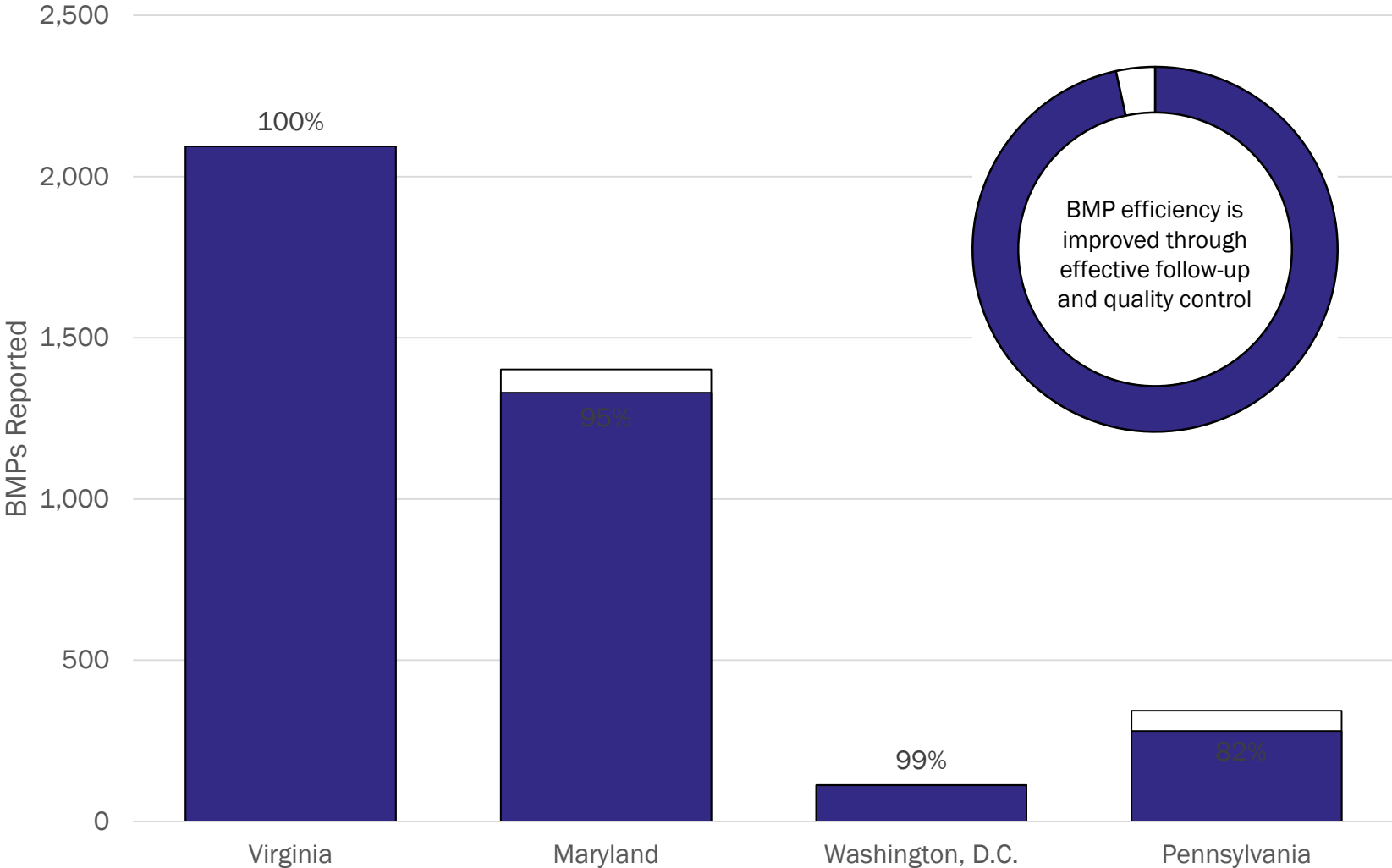


Results

BMPs Reported by Jurisdiction



FY2016 BMP Credit Efficiency



Project Funding in FY2017

Funding is reported by the Management Strategies from the 2014 Bay Agreement

Engaged communities -

\$717,000

Includes projects related to environmental education, beautification, and public access at DoD installations.

Abundant life -

\$8.5 million

Composed of projects related to multiple outcomes that enhance or create habitat for plant and animal species.

Conserved land -

\$11.9 million

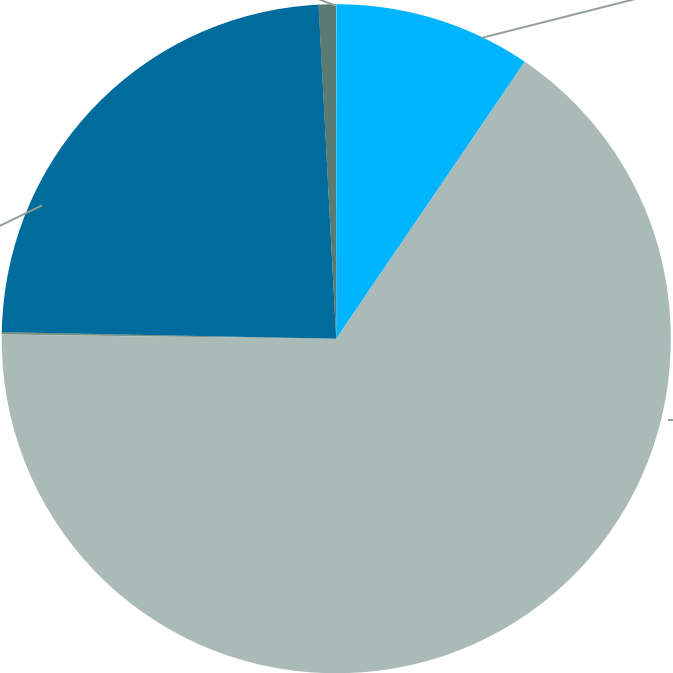
Climate change -

\$99,300

Clean water -

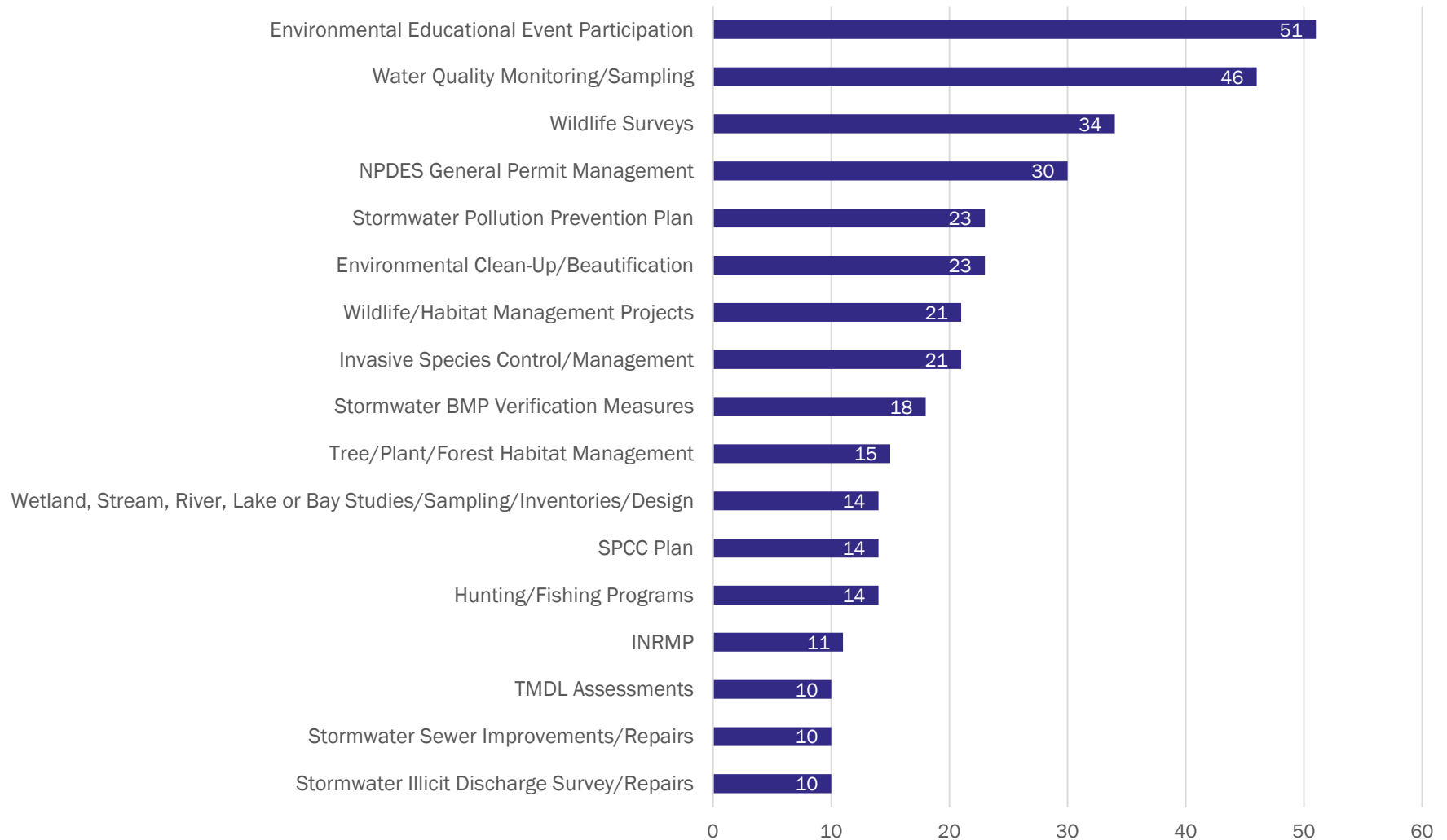
\$66.8 million

Total funds are composed of FY2017 BMPs from the BMP datacall in addition to Clean Water projects from the P&I datacall.



Total | \$88 million

Top Project Categories



Program Indicators and Work Plan Results



TREE CANOPY

32,636 trees were planted across 24 installations



CONSERVED LAND

9,077 additional acres protected through land conservation



CITIZEN STEWARDSHIP

36 installations hosted a total of 264 events with almost 34,000 total volunteers

Meeting Goals

How does the datacall demonstrate that DoD has met its goals?

Project & indicators datacall directly informed update of **FY2016-2017 Two-Year Work Plan** and development of **FY2018-2019 Two-Year Work Plan**

Funds invested in BMP implementation demonstrate progress toward Bay TMDL as part of the **Water Quality Milestones**.

DoD will conduct an **Internal Midpoint Assessment** with Chesapeake Bay Assessment Scenario Tool (CAST) and BMP records accepted into the Model



Will be informed by crediting report (called Red/Yellow/Green Light Report)

Planned BMP records collected in BMP datacall will be used with CAST to assess progress toward 2018-2019 Work Plan and 2025 goals (as federal facility targets, MS4 permit requirements, or local area goals)



Challenges for Installations

A Different Scale

Datacall compiles installation records. What if individual facilities do not have this information?



Inventory BMPs



Inspect, maintain, or verify BMPs

Conclusions & Moving Forward

- Datacall structure is part of a comprehensive strategy to address multi-faceted challenges for DoD.
- The Data Collected has been:
 - Incorporated into the Chesapeake Bay Model
 - Published in Annual Reports and DoD Publications
 - Used in the Development of the 2018-2019 Work Plan
- Possible Considerations for the Future:
 - Alternative Data Entry Platform
 - Improved Data Validation Processes

Thinking of water in new ways



QUESTIONS?

Brown AND
Caldwell

®