



Chesapeake Bay Program
Science. Restoration. Partnership.

Chesapeake Bay Program Update

STAC Quarterly Meeting
Williamsburg, VA
June 9–10, 2015

Nick DiPasquale, Director
EPA, Chesapeake Bay Program Office

CBP Program Updates

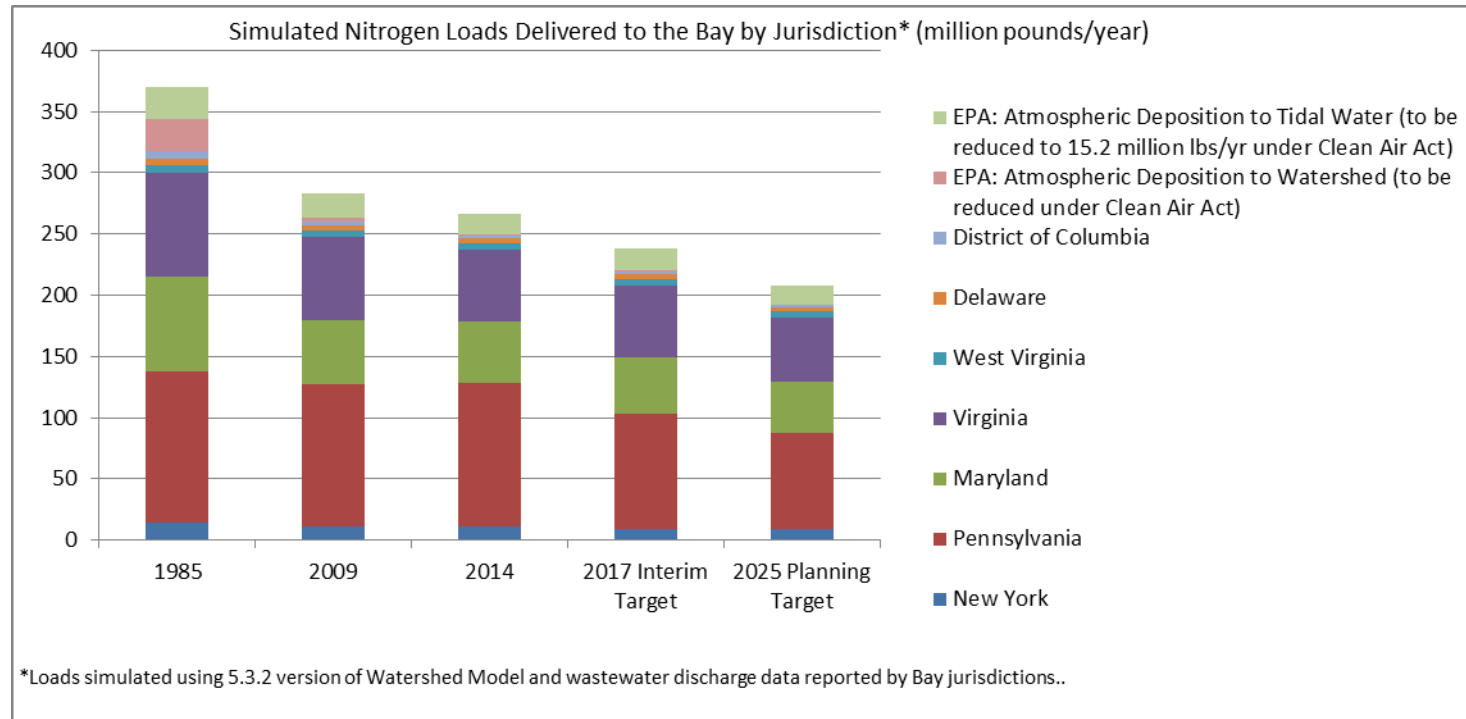
1. 2014 Interim Milestone Highlights
2. 2017 Midpoint Assessment Highlights
3. Revisions to BMP Expert Panel Protocol
4. BMP Verification Update
5. High Resolution Land Cover Initiative
6. FY 2015 Goal Team Funding
7. Climate Change Coordinator
8. Citizens and Non-Traditional Monitoring
9. Public Comments on Draft Management Strategies
10. Agreement Biennial Workplans
11. Independent Evaluator
12. Shad Abundance Indicator
13. FFY 2015 CBPO Budget
14. Federal Facility Targets Protocol

2014 Oversight Status

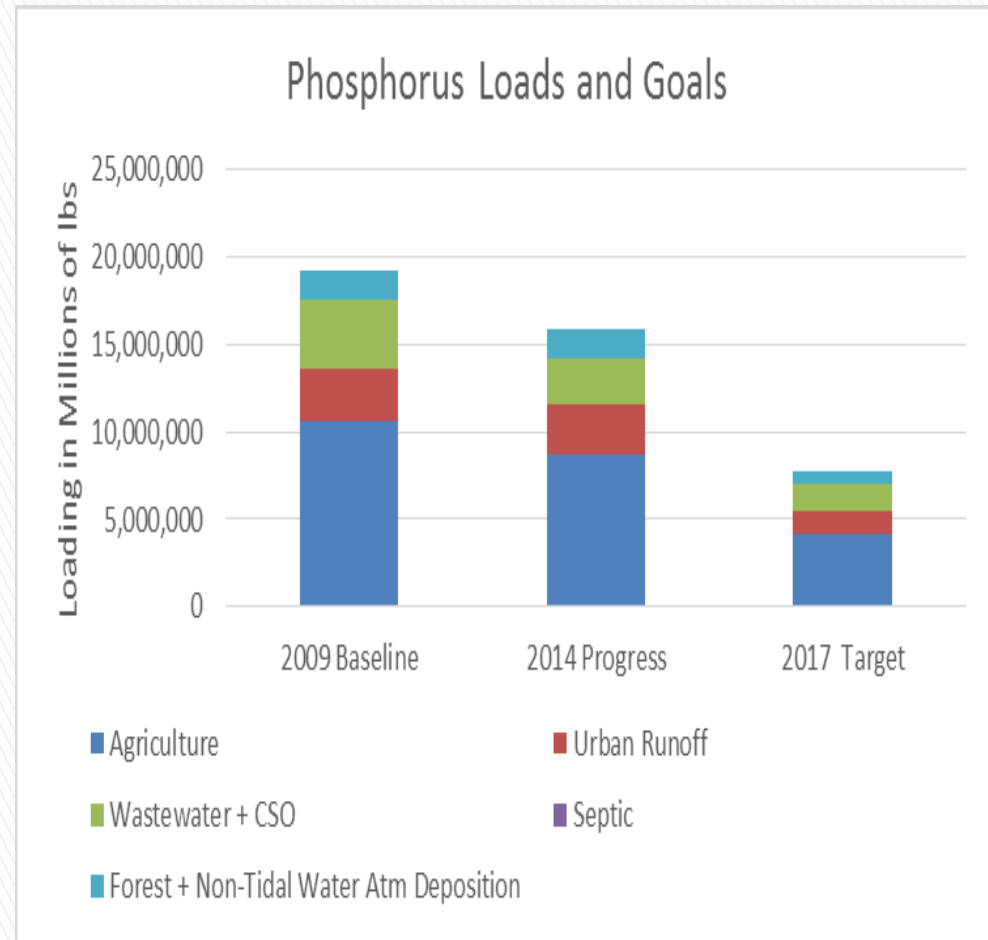
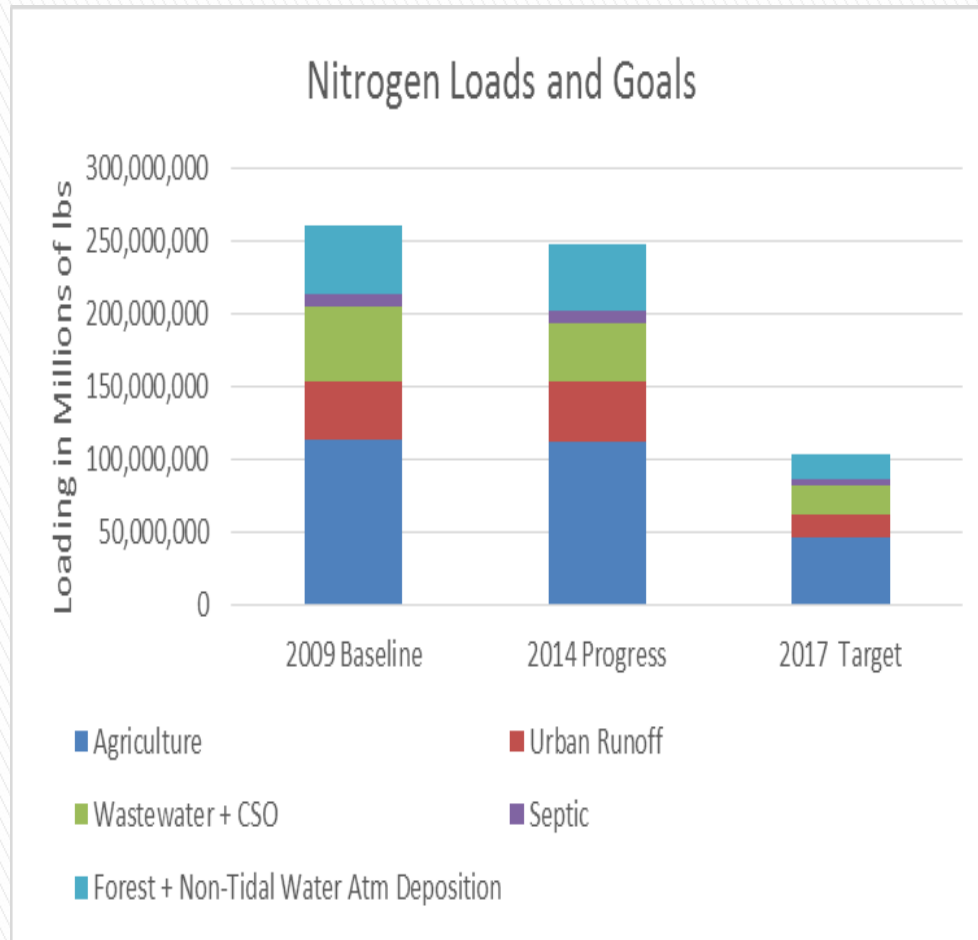
	Agriculture:	Urban/Suburban:	Wastewater:	Trading/Offsets:
DE	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
DC	Not Applicable	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
MD	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
NY	Ongoing Oversight	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight
PA	Backstop Actions Level	Backstop Actions Level	Ongoing Oversight	Enhanced Oversight
VA	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight	Ongoing Oversight
WV	Enhanced Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight

* Green fading to yellow indicates potential downgrade at the end of the 2014–2015 milestone period if specific actions aren't taken.

Overall Numeric Progress and Goals by Jurisdiction



Overall Numeric Progress and Goals by Sector



Watershed-wide N reduced by 17%; 38% would be “on pace”

Watershed-wide P reduced by 71%*; 38% would be “on pace”

* Although the 2014 Reducing Pollution Indicator suggests jurisdictions are ahead of schedule in reducing phosphorus loads, other recent data suggest additional level of effort will be needed to manage phosphorus.

2017 Midpoint Assessment Highlights

- ▶ The WQGIT has developed a detailed, month-by-month schedule of decisions and briefings associated with the midpoint assessment priorities. This schedule is available here: <http://timstest.tetrattech-ffx.com/BayMidpointAssessment>
- ▶ The collection of local land use data continues to be a high priority under the midpoint assessment.
 - State and local jurisdictions will have the opportunity to review their local land use data during the June–July timeframe. A webinar will be scheduled with further details about what this review period will entail.
- ▶ Key upcoming deadlines include:
 - June 30 2015: Deadline for jurisdictions' draft BMP verification programs/plans draft historical data cleanup
 - October 2015: Data inputs (e.g. BMP panel recommendations and land uses) due to the Modeling Workgroup for Phase 6 Watershed Model calibration

Revisions to the BMP Expert Panel Protocol

- ▶ Comments have been received from LGAC, STAC, CAC, Hampton Roads Planning District Commission, and VA DEQ
- ▶ Specific issues raised include:
 - More explicit language on what constitutes a conflict of interest and disclosing conflicts of interest
 - The consideration of local practitioners as potential panel members
 - The importance of panels functioning in accordance with the NAS practice standards
- ▶ Leadership from the Management Board, the Advisory Committees, and WQGIT met on June 2 to discuss the comments and reach consensus on a path forward
- ▶ A revised Protocol is expected to be submitted to the WQGIT for final approval during their July 13 conference call

BMP Verification

- ▶ BMP Verification Review Panel and BMP Verification Committee working on jurisdictional evaluation form
- ▶ Jurisdictions' proposed BMP verification programs documentation due June 30, 2015
- ▶ Partnership's independent BMP Verification Review Panel meeting in late July to review the jurisdictions' proposed programs and meeting in late August with each of the jurisdictions to discuss the Panel's reviews and what is still needed from each jurisdiction to meet the Partnership's five BMP verification principles

High Resolution Land Cover

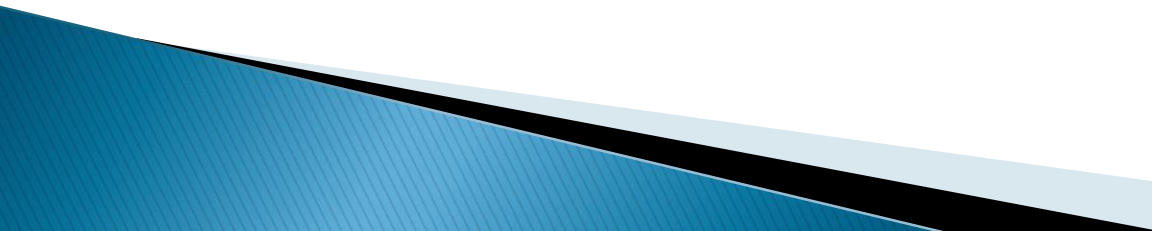
- ▶ The Partnership is funding the watershed-wide acquisition of high resolution (1 meter) land cover data for use
 - Chesapeake Conservancy is conducting this work via a cooperative agreement from the National Park Service funded through an interagency agreement with EPA
 - Data will be available for application in the Partnership's Phase 6 watershed model by May 2016, further increasing confidence in local land use data supporting work on the Midpoint Assessment
 - Will be acquired on a standard frequency (i.e., every 3 years)
- ▶ Will have application across many Bay Watershed agreement outcomes beyond its immediate application to water quality—BMP verification, habitat restoration and land acquisition prioritization, development of land use metrics, local governments applications...the list goes on and on!

FY 2015 Goal Team Funding

- ▶ RFP Issued April 6, 2015 *“Chesapeake Bay Program Office Fiscal Year 2015 Request for Proposals for Goal Implementation Team Project Support”*
- ▶ \$700k – \$900k per year for up to 5 years*
- ▶ Recipient will administer a program to support projects identified by CBP’s GITs through subawards
- ▶ GIT projects will support strategies to achieve *Chesapeake Bay Watershed Agreement* outcomes
- ▶ Proposals due May 21, 2015; September 7, 2015 estimated award

** Contingent on availability of funds*

CBP Climate Change Coordinator

- ▶ NOAA and EPA have recently completed the interview process for the Partnership's Climate Change Coordinator position
 - ▶ NOAA has made an offer.
 - ▶ We expect to have someone on board by the end of the month.
- 

Integration of Citizen and Non-traditional Monitoring

- ▶ EPA and the Alliance for the Chesapeake Bay finalized the new multiple year (2015–2021) cooperative agreement for *Integration of Citizen and Non-traditional Monitoring* on May 4, 2015.
- ▶ The cooperative agreement awarded to the Alliance for the Chesapeake Bay (Alliance) in partnership with the Izaak Walton League of America (League), the Alliance for Aquatic Resource Monitoring (ALLARM) at Dickinson College, and the University of Maryland Center for Environmental Science Integration and Application Network (UMCES IAN)
- ▶ The purpose is to provide technical, logistical, and outreach support for the integration of citizen-based and non-traditional monitoring networks into the Chesapeake Bay Program partnership.
- ▶ CBPO and key partnership contacts held a “kick-off” session last week with the Alliance and project partners who will be developing a Year 1 Work Plan

Public Comments on Draft Management Strategies

Total all Management Strategies	333
Sustainable Fisheries	31
Vital Habitats	67
Water Quality	16
Toxic Contaminants	17
Healthy Watersheds	7
Stewardship	37
Land Conservation	18
Public Access	8
Environmental Literacy	6
Climate Resiliency	108
Miscellaneous	18

Public Comments on Draft Management Strategies

30 distinct letters/sets of comments from organizations

Private Citizens and Citizen Organizations

99 letters Citizen Advocates (Sierra Club)
CBP Citizens Advisory Committee
Letter from 4 named citizen advocates
Letter from 2 students, U of MD, School Of Public Health

Utilities/Municipal Services

Hampton Roads Sanitation District (HRSD),
Maryland Association of Municipal Wastewater Agencies
Virginia Association of Municipal Wastewater Agencies, Inc.

Industry

Maryland Blue Crab Design Team (Fishing Industry)
Maryland Oysterman's Association
Maryland Waterman's Association

State/Local Government

CBP Local Government Advisory Committee
Carroll County Board of Commissioners
Carroll County Dept. of Land Use, Planning & Develop.
Clean Chesapeake Coalition
Maryland Department of Natural Resources
Maryland State Water Quality Advisory Committee
Metropolitan Washington Council of Governments
Montgomery County Department of Environment

Public Comments on Draft Management Strategies

Environmental/Advocacy/Conservation/NGOs

Chesapeake Bay Foundation

Choose Clean Water Coalition

Maryland Sierra Club

National Parks Conservation Association (NPCA)

Pennsylvania Campaign for Clean Water Stormwater

Workgroup (Workgroup)

Severn Riverkeeper Program

Izaak Walton League, a national conservation organization

Anne Arundel Water Access Committee

Federal Government

US Geological Survey

US Army Corps of Engineers

US Environmental Protection Agency

Public Comments on Draft Management Strategies

Chesapeake Bay Foundation

- Need local level targets
- Need to prioritize implementation at local levels
- Need timelines for taking action
- Federal Government should lead by example
- Great job on citizen stewardship; track progress
- Prioritize research needs for SAV

Choose Clean Water Coalition

- WQ MS needs better public and local gov. involvement
- Support programs that build capacity of NGOs
- Support climate change considerations in other MSs
- Need baseline and better data for diversity strategy
- Strongly support the Environmental Literacy MSs
- Need permanent protection of forest buffers
- Need robust local technical assistance
- Toxics and Tree canopy MSs will not meet outcomes

Maryland Sierra Club

- Need to ensure sufficient funding and adequate staffing at the state and local level, and the political will

Sierra Club Form letter

- Climate MS needs clearer baselines and commitments

Virginia Assoc. of Municipal Wastewater Agencies

- Objects to ref. of biosolids as potential source of PCBs
- Objects to making one sector bear “consequences” if another source sector fails to meet their goals
- Concerned that “local targets” could imply a legal obligation
- Objects to higher standards for discharges to healthy waters

Public Comments on Draft Management Strategies

Local Government Advisory Committee

- Need to clearly describe role of local government in achieving outcomes
- Need to identify costs and benefits to local governments and how to access tools and resources
- Need to educate local governments about the Agreement and expectations—especially clarify voluntary and mandatory components.
- Need to improve communication with local officials

CBP Citizens Advisory Committee

- US Dept. of Education needs to be an official partner
- Need baseline data on current diversity and strategies
- Local Leadership MS should focus more on rivers and local waters
- Need more concrete steps on delivering the message using existing local government associations
- Climate MS need to focus on more than just coastal communities
- Need to incentivize private landowner actions
- Wetlands MS seems to be very early draft; Need jurisdiction-specific goals for restoration and enhancement
- Need better prioritization for forest buffers
- Need to focus on quality, not just quantity, of access sites

Public Comments on Draft Management Strategies

Themes

Blue Crab

- Harvest of female blue crabs should be further restricted.
- Explicitly state the role and jurisdictional rights of the strategy partners.

Oysters

- Limit harvest of wild oysters / promoting aquaculture
- Oyster Industry/Seafood industry should be involved in the restoration planning process.
- Comments from individual citizens.

Stream Health

- Support local efforts
- Need better monitoring and tools

Forest Buffers

- Overall support for strategy

Water Quality

- include more specifics in MS, e.g. targeting local participation and cross outcome collaboration
- Need more detail on Phase III WIP development and 2-year milestones

Toxics

- Need to reflect fracking, microbeads, other specific toxics
- Need PCB requirements/monitoring

Healthy Watersheds

- Need clear definition of healthy waters

Local Leadership

- Need clearer expectations, tools, resources for local leaders

Diversity

- Need baseline and current conditions; establish numeric funding goals and

Climate Resiliency

- Need to establish clear baselines and identify how climate change will impact water quality.

Agreement Biennial Workplans

- ▶ Management Strategies summarize the Partnership's management process and the collective thinking of the Partnership for each outcome or related group of outcomes.
- ▶ **Biennial, two-year workplans** for each strategy will summarize the specific commitments, actions and resources each partner will do individually and collectively to reach the two-year target for the outcome.
- ▶ PSC agreed to a revised timeline for the development of the workplans:
 - First drafts due November 1, 2015
 - Agreed to a 45-day public input period
 - Final drafts due by April 2016 (to align with due dates for the WQ 2 yr. milestones).

Agreement Biennial Workplans

Goal: *Restore, enhance and protect a network of land and water habitats to support fish and wildlife, and to afford other public benefits, including water quality, recreational uses and scenic value across the watershed.*

Outcome: *Sustain and increase the habitat benefits of SAV (underwater grasses) in the Chesapeake Bay. Achieve and sustain the ultimate outcome of 185,000 acres of SAV Bay-wide necessary for a restored Bay. Progress toward this ultimate outcome will be measured against a target of 90,000 acres by 2017 and 130,000 acres by 2025.*

Long term Target: *130,000 acres by 2025*

2 year Target: *60,000 acres by 2016*

Partner contributions to 2 year target: *MD 25,000 acres; VA 25,000 acres; DC 10,000 acres.*

Management Approach 1: <i>Restore Water Quality</i>					
Key Action Steps	Output/Result	Timeline	Partner Responsible	Estimated Project Cost	Identified Funding
<i>Define each action step on its own row. Define as many action steps as necessary by adding rows to the table. Identify specific program that will be used to achieve action.</i>		<i>Identify completion date (month and year) for each action step.</i>	<i>Identify responsible partner for each action step.</i>	<i>Best estimate total cost of project (need)</i>	<i>Best Estimate of funding available and identified</i>
		<i>December 2016</i>	<i>GIT 2</i>		
		<i>December 2016</i>	<i>MD</i>		
		<i>December 2016</i>	<i>DC</i>		
		<i>December 2016</i>	<i>EPA</i>		
		<i>December 2016</i>	<i>CBC</i>		

Chesapeake Bay Accountability and Recovery Act

Two Main Parts

1. Chesapeake Bay Crosscut Budget
2. Independent Evaluator for the Chesapeake Bay Program

Crosscut Budget

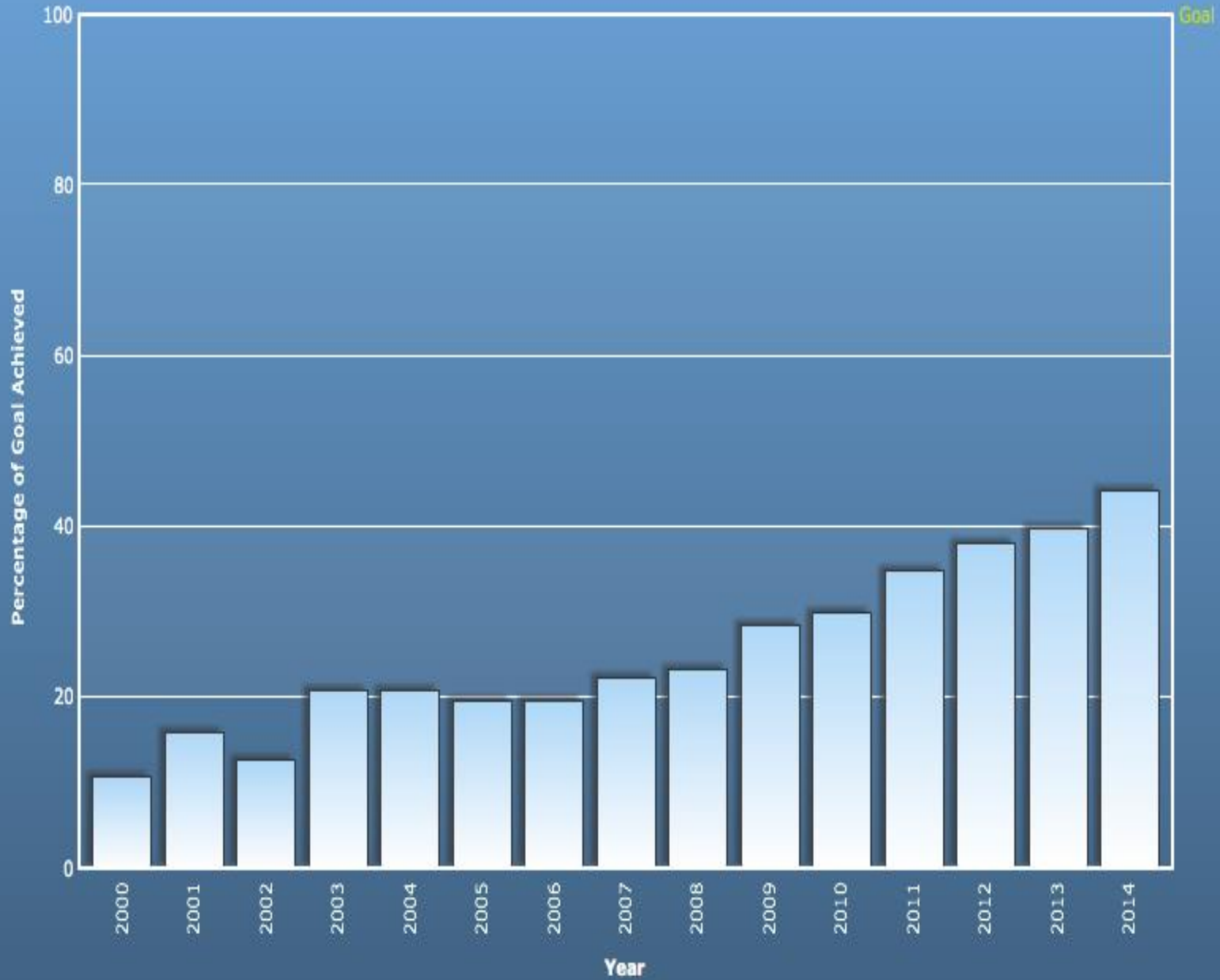
- ▶ OMB in consultation with the Executive Council shall submit to Congress a Financial Reporting.
 - Who Reports?
 - All **Federal** agencies that carry out restoration activities, including funding given to the states
 - **State** restoration activities to the extent information is available
 - What Do They Report?
 - Restoration activities for the succeeding fiscal year, the current fiscal year and the two preceding fiscal years
 - For the first 3 years, projects exceeding **\$300,000**
 - After 3 years, projects exceeding **\$100,000**

Independent Evaluator

- ▶ Working on process for:
 - EC Nomination of Independent Evaluators
 - Administrator Appointment
 - Within 30 days of EC submission of nominees
 - Consultation of the scientific community
 - Demonstration of excellence in marine science, policy evaluation, or other studies relating to complex environmental restoration activities
 - Funding mechanisms – Who funds and how?
 - Issues include:
 - Competition requirements
 - Conflict of interest
 - Timeline
 - Assurance of qualifications
 - Funding amount and sustainability

American Shad Abundance

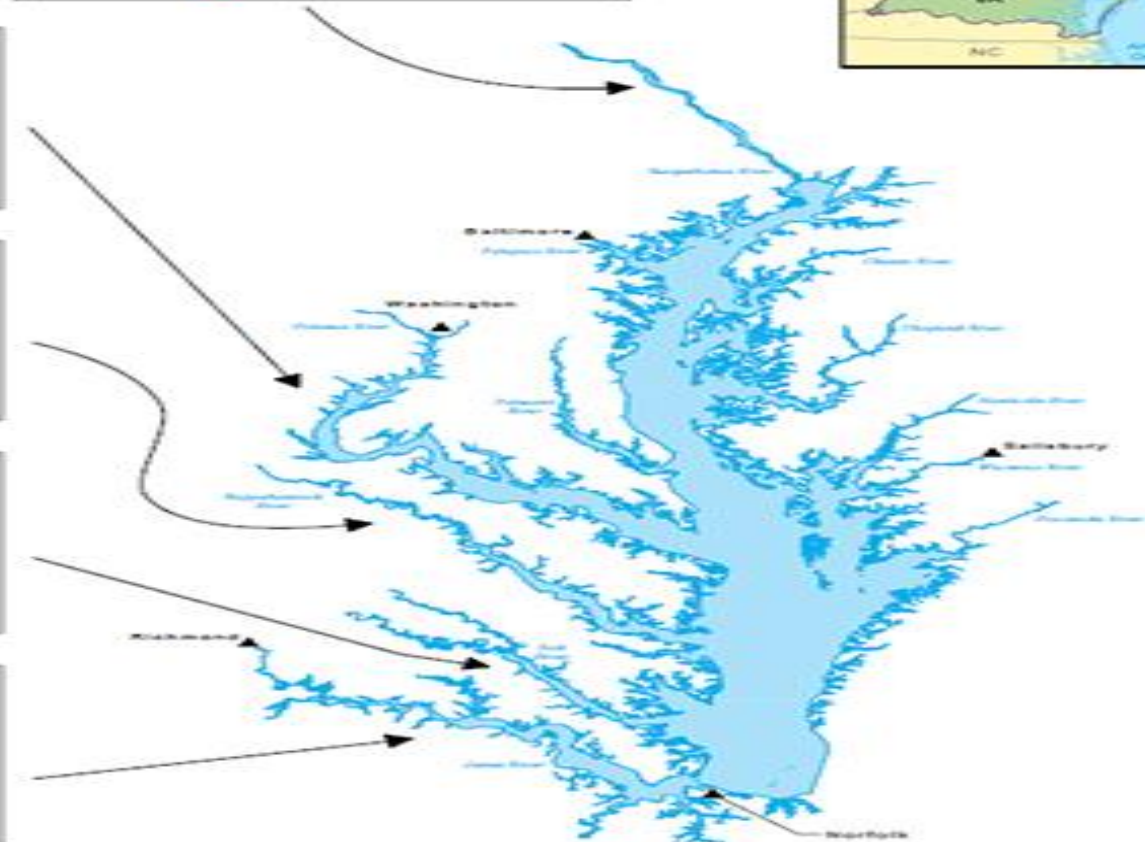
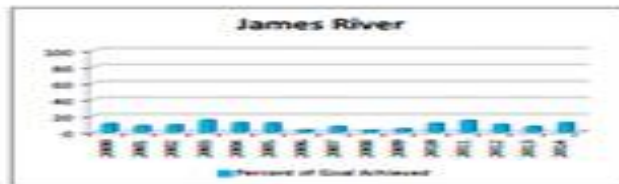
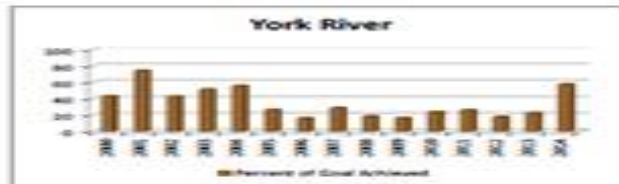
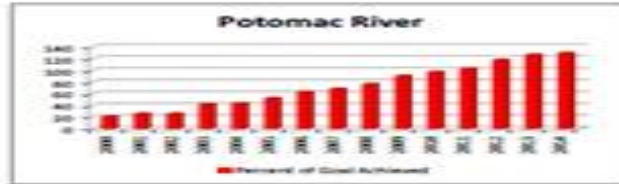
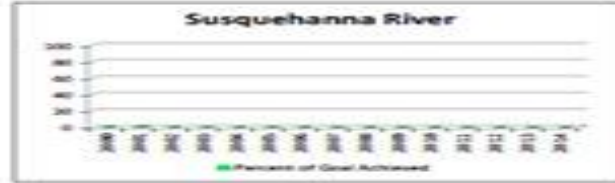
Goal: 100%



Shad Abundance (2014) Ecosystem Health Assessment



Chesapeake Bay and Tributaries



Data Sources: Chesapeake Bay Program
For more information, visit www.chesapeakebay.net
Disclaimer: www.chesapeakebay.net/terms_of_use.htm

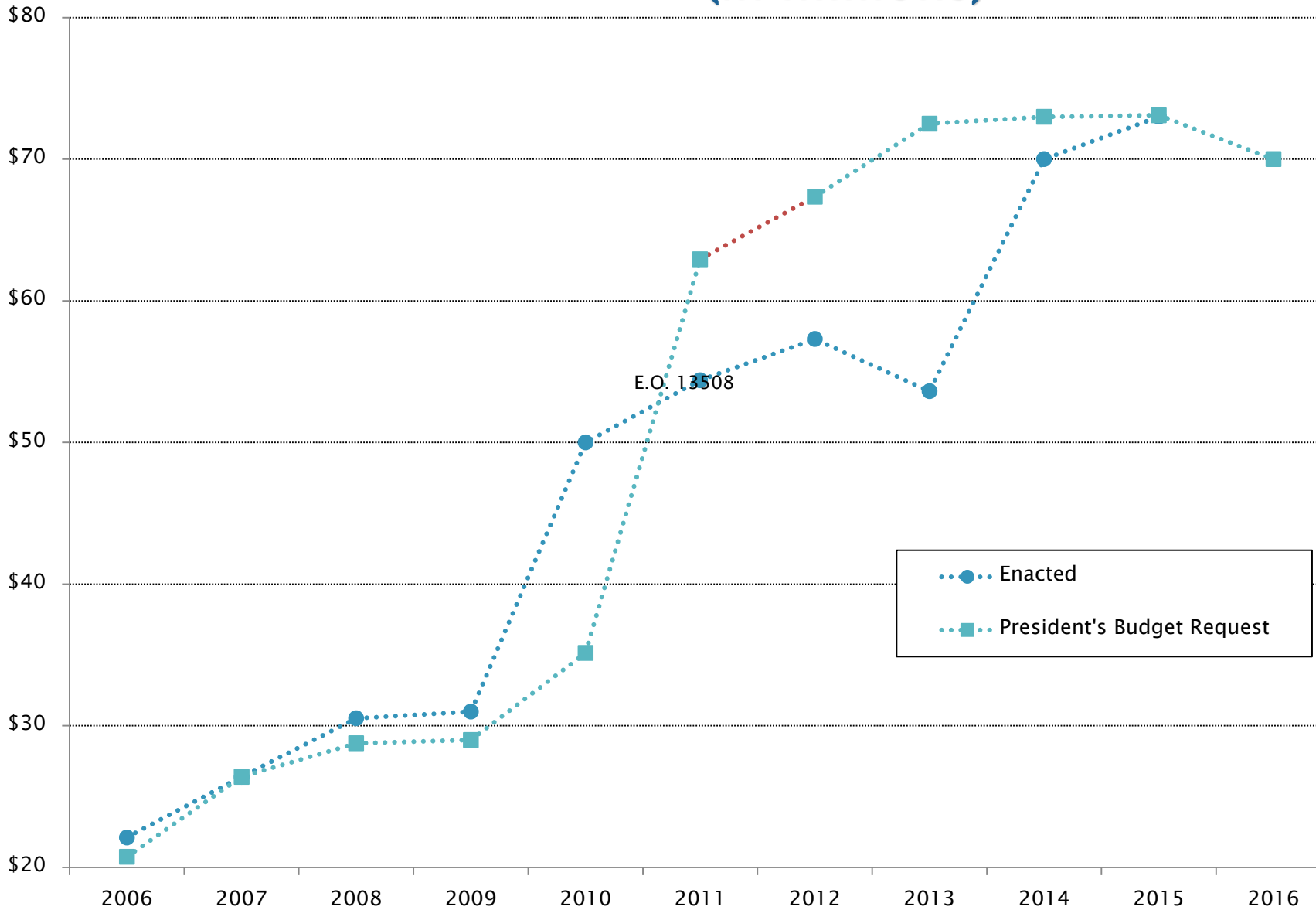
Note: The Y axis is not the same for all graphs.



Funding Overview

- ▶ Chesapeake Bay Program Funding under CWA S.117
 - Chesapeake Bay Implementation Grants (CBIG)
 - Chesapeake Bay Reporting and Accountability Grants (CBRAP)
 - Local Government Implementation Funding
 - New \$5 million “pot” in 2014
- ▶ Innovation Nutrient and Sediment Reduction (INSR) Grants
 - Managed by National Fish and Wildlife Foundation (NFW)
- ▶ Small Watershed Grants (SWG)
 - Managed by NFWF
- ▶ Federal Agency Funding (2011–2015)

Chesapeake Bay Program Funding (in millions)



Fiscal Year 2015 Chesapeake Bay Program Funding

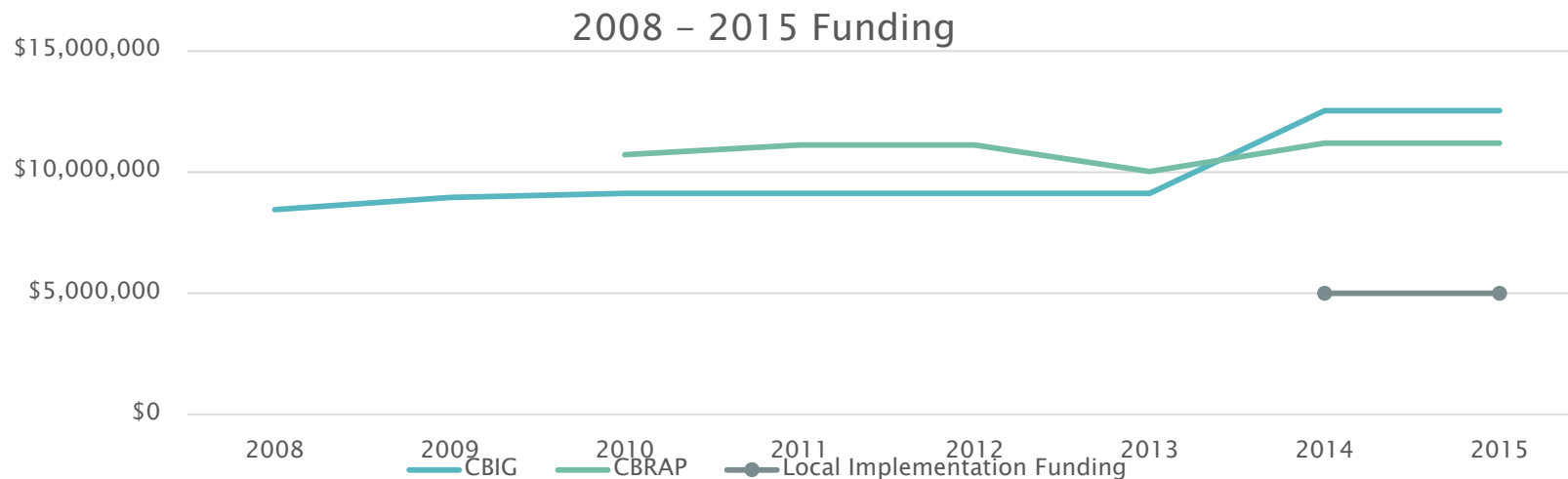
Region 2	\$225,000
Region 3	\$69,233,000
Philadelphia	\$4,396,000
Annapolis	\$64,837,000
Office of Water	\$45,000
Office of Enforcement and Compliance Assurance	\$957,000
Office of General Counsel	\$462,000
Office of Environmental Information	\$1,516,000
Office of Administration and Resources Mgmt.	\$562,000
Total	\$73,000,000

Fiscal Year 2015 Chesapeake Bay Program Office Funding

Intramural	\$4,858,079
Extramural	\$10,864,424
Operational Support	\$2,836,327
Partnership and Executive Order Support	\$3,164,322
Data Management	\$4,863,775
TMDL Implementation	\$2,859,266
Reporting and Accountability	\$751,215
Innovative Nutrient/Sediment Reduction Grants	\$6,000,000
Small Watershed Grants	\$6,000,000
Water Quality Monitoring Grants	\$4,201,916
State Accountability and Implementation Grants	\$29,302,100
Total	\$64,837,000

CBIG, CBRAP and Local Implementation Funding 2008–

FY	CBIG	CBRAP	Local Government Funding	Total
2008	\$ 8,453,000			\$ 8,455,008
2009	\$ 8,962,660			\$ 8,962,660
2010	\$ 9,128,000	\$ 10,728,624		\$ 19,856,624
2011	\$ 9,128,000	\$ 11,120,000		\$ 20,248,000
2012	\$ 9,128,000	\$ 11,120,000		\$ 20,248,000
2013	\$ 9,128,000	\$ 10,022,000		\$ 19,150,000
2014	\$ 12,547,100	\$ 11,200,000	\$ 4,999,720	\$ 23,747,100
2015	\$ 12,547,100	\$ 11,200,000	\$ 4,999,720	\$ 23,747,100
Total	\$ 79,021,860	\$ 65,390,624	\$ 9,999,440	\$ 144,414,492



FY15 Chesapeake Bay Program Funding (CWA S. 117)

Jurisdiction	CBIG	CBRAP	Local Government Funding	Total
DE	\$ 1,250,000	\$ 820,465	\$ 366,000	\$ 2,436,465
DC	\$ 1,250,000	\$ 723,036	\$ 322,784	\$ 2,295,820
MD	\$ 2,515,700	\$ 2,758,047	\$ 1,231,270	\$ 6,505,017
NY	\$ 1,250,000	\$ 1,007,224	\$ 449,654	\$ 2,706,878
PA	\$ 2,515,700	\$ 2,666,819	\$ 1,190,544	\$ 6,373,063
VA	\$ 2,515,700	\$ 2,552,098	\$ 1,139,329	\$ 6,207,127
WV	\$ 1,250,000	\$ 672,311	\$ 300,139	\$ 2,222,450
Total	\$ 12,547,100	\$ 11,200,000	\$ 4,999,720	\$ 28,746,820

Innovative Nutrient and Sediment Reduction Grants (INSR) and Small Watershed Grants (SWG) 2008 – 2014 Watershed-Wide Totals

- ▶ **Managed by National Fish and Wildlife Foundation (NFWF)**
- ▶ **All CBSF awards for 2008–2014**
 - \$74.2M in total grant funding
 - \$44.6M in INSR
 - \$13.4M in SWG
 - \$32.3M in other NFWF Federal and private sources
 - \$139.8M in additional local matching resources

Federal Funding Summary 2011–2015

▶ Approximately \$2.2 billion over 5 years

Department/ Agency	FY 2011 President's Budget Request ¹	FY 2012 Operating Levels ²	FY 2013 Operating Levels	FY 2014 Operating Levels	FY 2015 Operating Levels
USDA Total	\$153,578,000	\$121,488,000	\$135,449,000	\$111,014,000	\$126,725,000
Farm Service		(\$37,081,000)	\$34,304,000	\$34,304,000	\$30,200,000
NRCS	\$149,740,000	\$119,828,000	\$98,000,000	\$75,300,000 ³	\$94,000,000
Office of Chief Economist	\$150,000	\$350,000	\$350,000	\$350,000	\$350,000
USFS	\$3,688,000	\$1,310,000	\$2,795,000	\$1,060,000	\$2,175,000
U.S. Dept. of Commerce / NOAA	\$19,346,250	\$9,208,425	\$10,119,000	\$8,436,442	\$7,202,750
DoD Total	\$13532,013	\$121,254,616	\$89,106,945	\$118,855,437 ⁴	\$63,441,667
Services	\$7,521,000	\$101,169,616 ⁵	\$71,146,945	\$93,855,437	\$41,841,667
USACE	\$6,011,013	\$20,085,000 ⁵	\$17,960,000 ⁵	\$25,000,000 ⁷	\$21,600,000
DOI Total	\$42,817,218	\$23,906,000	\$21,227,233	\$25,758,725	\$30,725,986
FWS	\$15,161,27	\$10,146,000	\$10,294,000	\$11,553,745	\$11,070,986
NPS	\$19,169,640	\$6,411,000	\$3,876,233	\$4,515,980	\$8,466,000
USGS	\$8,486,304	\$7,349,000	\$7,057,000	\$9,689,000	\$11,189,000
EPA	\$248,873,881	\$184,010,730	\$174,821,744	\$197,504,967	\$206,301,507
Total	\$486,648,362	\$459,867,771	\$430,723,922	\$461,569,571	\$434,396,910

CBP Funding Highlights

- ▶ CBP Funding has more than doubled since 2009
 - \$30 million to \$73 million
- ▶ CBP State Grant Funding almost tripled since 2009
 - \$8 million to \$24 million
- ▶ Grant funding increases for all states to implement new Bay Agreement beginning in 2014
- ▶ FY15 CBP Grant Guidance issued on March 3, 2015
- ▶ Over \$2 billion in Federal agency funding

CBP Funding Highlights

▶ Other Key Initiatives

- Establishing a new Citizens Monitoring Network
- Expanding the CBP non-tidal monitoring network (40 new stations)\
- Creating a new CBP Climate Change Coordinator position
- Setting up a new Local Government grant funding “set-aside” of \$5 million/per year
- Funding the High Resolution Land Cover Data Initiative (watershed-wide)
- Creating the CAST/VAST/BayFAST scenario assessment tools
- Establishing funding for GITs under the new Agreement
- Providing WIP Assistance Contractor Support for jurisdictions

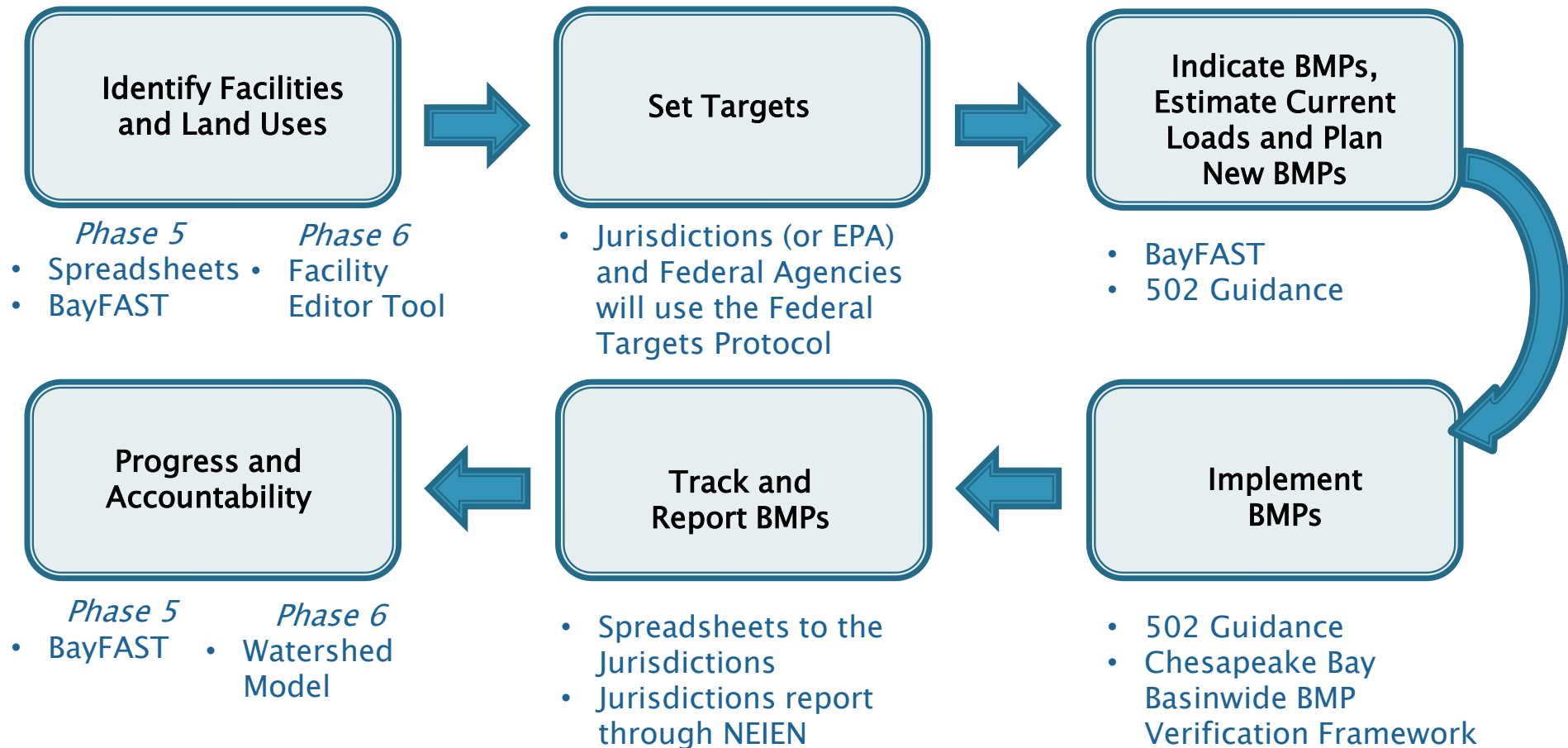
Rivers of the Chesapeake LWCF Collaborative

- ▶ President's Budget FY2016 includes \$39.7 million for land protection in the Chesapeake Bay Watershed through the land and water conservation fund (LWCF).
- ▶ If fully appropriated, funding could conserve up to 7,500 acres
- ▶ More than \$33 million is tied directly to the Rivers of the Chesapeake LWCF proposal.
- ▶ Compared to \$7.5 million in FY2015 LWCF funds for the Chesapeake Bay Watershed.
- ▶ NPS, USFWS, BLM and USFS will all receive funding under the proposal.

Federal Facilities Targets: Progress to Date

- ▶ Federal Facilities Targets Action Team (FFTAT) formed by PSC and charged with developing Federal targets protocol.
- ▶ Biweekly meetings of FFTAT beginning in January 2015
- ▶ Co-chaired by VA and EPA
- ▶ Jurisdictions on FFTAT: VA, MD, DC and PA
- ▶ Federal Agencies: DOD, ACOE, DHS, GSA, NPS, USDA, EPA
- ▶ Draft Protocol completed and out for review by FFTAT and WQ GIT; MB approval will be requested @ June 17 MB Meeting

Federal Agencies Participation in Chesapeake Bay TMDL and WIPs



Purpose of Targets Protocol

- Document defines the procedures for setting nitrogen, phosphorus and sediment loading targets for federal facilities consistent with the 2010 Chesapeake Bay TMDL (Bay TMDL).
- Developed to assist the Bay jurisdictions with setting federal facility targets.
- To assist the federal agencies with using the Chesapeake Bay Facility Assessment Scenario Tool (BayFAST) to develop plans
- Final Targets for 2017 and 2025 to be set by jurisdictions by July 31, 2015. May be updated after Phase 3 WIPs completed.

Questions?

www.ChesapeakeBay.net
www.ChesapeakeStat.com



Chesapeake Bay Program
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