

## 2016-2017 Biennial Workplan for the Tree Canopy Outcome Management Strategy

### Tree Canopy Outcome Workplan

Effective date: 2016-2017

**Goal:** Habitat Goal

**Tree Canopy Outcome:** Continually increase urban tree canopy capacity to provide air quality, water quality and habitat benefits throughout the watershed. Expand urban tree canopy by 2,400 acres by 2025.

**Long term Target:** 2400 new acres of Tree Canopy by 2025

**2 year Target:** 410 acres

**Partner contributions to 2 year target:** DE: 10, DC: 80, MD: 90, NY: 10, PA: 120 VA: 80, WV: 20

Note: See Appendix of Additional State Actions for more detailed information on program activities in each state.

#### Management Approach 1: Bolster Funding & Partnerships

<b>Key Action**</b> <i>Description of work/project. Define each major action step on its own row. Identify specific program that will be used to achieve action.</i>	<b>Performance Target(s)</b> <i>Identify incremental steps to achieve Key Action.</i>	<b>Participating Entity</b> <i>Identify responsible partner for each step.</i>	<b>Geographic Location</b>	<b>Timeline</b> <i>Identify completion date (month &amp; year) for each step</i>	<b>Factors Influencing and/or Gap</b> <i>Identify related factor or gap in Management Strategy</i>
1. Implement state programs and grants to incentivize tree canopy progress <i>NOTE: see Appendix of Additional State Actions posted online for more detailed information.</i>  DE: 5 acres/yr DC: 40 acres/yr MD: 45 acres/yr NY: 5 acres/yr PA: 60 acres/yr VA: 40 acres/yr WV: 10 acres/yr	Implement state grant programs to assist communities with tree canopy expansion	DE Forest Service DNREC-CBIG	Delaware	Ongoing, track progress annually	Funding/Partnerships
	1. Increase tree canopy through street tree and other public property plantings 2. Increase tree canopy on private properties through incentive programs, such as Riversmart Homes	1. DDOT Urban Forestry Administration  2. DOEE	District of Columbia	Ongoing, track progress annually	Funding/Partnerships
	1. Continue implementing existing statewide urban and community forestry programs (Forest Conservation Act, Reforestation Law, and Roadside Tree Law) to maintain the net urban tree canopy statewide. 2. Continue implementing existing homeowner tree planting assistance programs such as the Marylanders Plant Trees coupon program and Lawn to Woodland program	1. Maryland Forest Service, State Highway Administration, local governments  2. Maryland Forest Service, with local nursery partners	Maryland	Ongoing, track progress annually	Funding/Partnerships

	<p>1. Increase tree canopy through TreeVitalize tree planting grants</p> <p>2. Engage colleges and universities around the state in completing i-Tree Streets inventories, with communities developing management plan as match (TreeVitalize grants). Provide inventory and i-Tree training; assist communities with UTC assessments when high resolution data is available and use with inventory data to create management plans.</p>	PA DCNR Bureau of Forestry, PSU Extension	Pennsylvania	Ongoing, track progress annually	Funding/Partnerships
	<p>1. Increase tree canopy on public and private properties through grants and incentive programs, such as Virginia Trees for Clean Water and Richmond Urban Tree Canopy Initiative.</p> <p>2. Greater development of the Virginia Tree Stewards which promote good tree care and increase tree planning in their areas of influence.</p>	<p>1.VA DOF and community partners and nonprofit organizations</p> <p>2. VA Urban Forest Council and Tree Steward Coordinator</p>	Virginia	Ongoing, track progress annually	Funding/Partnerships
	Increase tree canopy through Project Communitree grants and partnerships	WVDEP, Cacapon Institute, WVDOF	West Virginia	Ongoing, track progress annually	Funding/Partnerships
2. Assess and summarize federal, state, local and private funding opportunities available to support local UTC implementation, including riparian forest buffers in developed areas	<p>1. Develop project proposal and seek funding to complete the assessment through grant sources and/or partnership opportunities</p> <p>2. Provide list/links to available funding sources in each state on Chesapeake Tree Canopy Network website (see 4.2a below)</p>	USFS/Forestry Workgroup	CB-Wide	<p>1. Summer 2016</p> <p>2. Summer 2016</p>	Funding/Partnerships
3. Provide guidance/case studies/best practices for local governments and partner organizations on how to strengthen funding and partnerships for UTC	1. Collect case study/best practices in conjunction with #2 and make summaries available on website	USFS/Forestry Workgroup	CB-Wide	Fall 2017	Funding/Partnerships

4. Explore options for expanding UTC funding for diverse Chesapeake communities through leveraging federal, state, and private resources (e.g. work with Bay Funders Network)	1. Initial meeting with Bay Funders Network to discuss challenges and opportunities for UTC funding  2. Form a federal Tree Canopy team to identify and strengthen federal contributions to the tree canopy outcome	1. USFS  2. USFS EPA NPS DOD FWS USGS	CB-Wide	1. Spring 2016  2. Spring 2016	Funding/Partnerships
5. Work collaboratively with Bay Program partners to identify legislative, budgetary and policy needs to advance the goals of the Chesapeake Bay Agreement. We will, in turn, pursue action within our member state General Assemblies and the United States Congress. (Per CBC Resolution #14-1)	Work with GIT to consider policy changes or legislative actions identified by the GIT.	CBC	PA, MD, VA	Ongoing	Political climate and budgets

<b>Management Approach 2: Strengthen Policy and Ordinances</b>					
<b>Key Action**</b> <i>Description of work/project. Define each major action step on its own row. Identify specific program that will be used to achieve action.</i>	<b>Performance Target(s)</b> <i>Identify incremental steps to achieve Key Action.</i>	<b>Participating Entity</b> <i>Identify responsible partner for each step.</i>	<b>Geographic Location</b>	<b>Timeline</b> <i>Identify completion date (month &amp; year) for each step)</i>	<b>Factors Influencing and/or Gap</b> <i>Identify related factor or gap in Management Strategy</i>
1. Review state and local policies in place to support urban tree canopy and provide recommendations on best practices, model ordinances, etc. for Bay jurisdictions (e.g. Annapolis tree canopy legislation and volunteer program cited as a model)	1. Develop project proposal and seek funding to complete the assessment through grant sources and/or partnership opportunities 2. Post resources and case studies on policy/ordinances on Chesapeake Tree Canopy Network Website	USFS/Forestry Workgroup	CB-Wide	1. Summer 2016  2. Fall 2017	Policy/ Ordinances

<p>2. Support efforts to credit/incentivize tree canopy protection in addition to planting in the TMDL framework</p>	<p>1. Work with Urban Tree Canopy Expert Panel, Stormwater Workgroup, and other CBPO stakeholders to get tree canopy land use, loading rate and BMP recommendations incorporated into Phase 6 model 2. Work with Chesapeake Stormwater Network to provide guidance/training to stormwater professionals on integrating tree canopy into standards/specifications, etc.</p>	<p>USFS/FWG CBP Staff</p>	<p>CB-Wide</p>	<p>1. Summer 2016  2. Fall 2017</p>	<p>Policy/ Ordinances</p>
<p>3. Work with stormwater program managers (federal/state/local) to better integrate urban tree canopy and riparian buffer goals with TMDL/WIP implementation and MS4 programs</p>	<p>1. Work with TMDL/WIP coordinators in each state to get tree canopy targets into 2 Yr Milestones 2. Hold a meeting in each state with urban forestry and stormwater managers to identify opportunities for better integration</p>	<p>FWG/ Jurisdictions USFS EPA</p>	<p>CB-Wide</p>	<p>Fall 2015  Spring 2017</p>	<p>Policy/ Ordinances</p>

**Management Approach 3: Increase Technical Capacity and Knowledge**

<p><b>Key Action**</b> <i>Description of work/project. Define each major action step on its own row. Identify specific program that will be used to achieve action.</i></p>	<p><b>Performance Target(s)</b> <i>Identify incremental steps to achieve Key Action.</i></p>	<p><b>Participating Entity</b> <i>Identify responsible partner for each step.</i></p>	<p><b>Geographic Location</b></p>	<p><b>Timeline</b> <i>Identify completion date (month &amp; year) for each step)</i></p>	<p><b>Factors Influencing and/or Gap</b> <i>Identify related factor or gap in Management Strategy</i></p>
<p>1. Provide guidance, training, and technical assistance to help local governments and partners develop robust urban tree canopy implementation programs (see also state action plans)</p>	<p>1. Develop a survey/assessment to get input from local govts and urban forestry partners on training/TA needs, in coordination with Local Leadership Workgroup efforts</p>	<p>USFS/Forestry Workgroup</p>	<p>CB-Wide</p>	<p>Fall 2016</p>	<p>Knowledge/Capacity</p>

2. Support the development of Baywide high resolution UTC data updated regularly (e.g. every 5 years) to track progress/net gain	1. Bay-wide data to be completed by CBP partnership by Summer 2016 – give input during this process 2. Develop mechanism for making new Tree Canopy data accessible to state and local users	1.USGS Land Use Workgroup FWG 2. USGS FWG	CB-Wide	1. Summer 2016 2. Summer 2017	Knowledge/Capacity
3. Work with states to develop user-friendly tracking and verification systems for groups to report urban tree planting to the Chesapeake Bay model for BMP credit, in alignment with Chesapeake Bay Program Forestry BMP Verification Guidance	1. Develop tree planting tracking process in each state in alignment with Forestry BMP Verification Guidance; engage and train initial group of local partners in providing data	Forestry Workgroup/Jurisdictions	CB-Wide	Fall 2016	Knowledge/Capacity
4. Provide guidance and standards/best practices for tree planting and maintenance to improve long-term survival	1. Compile national model standards/best practices including Tree Owner’s Manual, ISA, Urban Tree Growth and Longevity Working Group; post to Chesapeake Tree Canopy Network website 2. Compile info from state and local partners on what standards they are currently using; assess and make recommendations on actions to enhance	USFS/Forestry Workgroup	CB-Wide	Spring 2017  Summer 2017	Knowledge/Capacity

**Management Approach 4: Expand Community Outreach and Education**

<b>Key Action**</b> <i>Description of work/project. Define each major action step on its own row. Identify specific program that will be used to achieve action.</i>	<b>Performance Target(s)</b> <i>Identify incremental steps to achieve Key Action.</i>	<b>Participating Entity</b> <i>Identify responsible partner for each step.</i>	<b>Geographic Location</b>	<b>Timeline</b> <i>Identify completion date (month &amp; year) for each step)</i>	<b>Factors Influencing and/or Gap</b> <i>Identify related factor or gap in Management Strategy</i>
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<p>1. Work with the Diversity Action Team and solicit guidance from LGAC and others to facilitate greater local participation, including representation of underserved and underrepresented communities</p>	<p>1. Work with DAT, Local Leadership Workgroup, Citizen Stewardship Team, LGAC, CAC and other partners to integrate Tree Canopy opportunities into their other Strategy workplan efforts; develop list of joint actions</p>	<p>FWG DAT Local Leadership Workgroup Citizen Stewardship Workgroup LGAC CAC</p>	<p>CB-Wide</p>	<p>Ongoing</p>	<p>Outreach/ Education</p>
<p>2. Use online tools/webinars/listserves to support ongoing training and information sharing in the urban forestry community of practice (e.g. a “Chesapeake Tree Canopy” group within the existing Chesapeake Network tools)</p>	<p>1. Develop Chesapeake Tree Canopy Network website and listserve to serve as resource hub and community of practice  2. Use input from survey (3.1.1 above) to develop schedule of webinar/training/tools to be developed</p>	<p>1. Alliance for the Chesapeake Bay, USFS 2. USFS/FWG</p>	<p>CB-Wide</p>	<p>Spring 2016  Fall 2017</p>	<p>Outreach/ Education</p>
<p>3. Develop and pilot social marketing and other innovative outreach methods to broaden community engagement in urban tree canopy implementation</p>	<p>1. Make social marketing/ outreach resources available on Chesapeake Tree Canopy Network website 2. See 4.4.1</p>	<p>1. USFS/FWG</p>	<p>CB-Wide</p>	<p>Spring 2017</p>	<p>Outreach/ Education</p>
<p>4. Develop communication and outreach strategies targeted to diverse audiences, focusing on areas with greatest need and opportunity (e.g. low canopy/underserved communities; schools, faith-based, and other civic organizations; homeowner associations; etc.)</p>	<p>1. Pursue a workshop and case studies on community outreach strategies for Tree Canopy; emphasis on diversity/ environmental justice opportunities [GIT Funding proposal, other avenues] 2. Coordinate with CBPO Green Schools/Environmental Literacy partners to develop a School Tree Canopy Initiative</p>	<p>1. USFS/FWG DAT 2. USFS/FWG Education Workgroup</p>	<p>CB-Wide</p>	<p>Fall 2017  Summer 2017</p>	<p>Outreach/ Education</p>
<p>5. Continue and increase coordination between local agencies, non-profits, and utilities intended to protect property from and assist homeowners with maintaining over hanging tree limbs threatening property and human health.</p>	<p>1. Hold workshop with representatives from utilities, states, local govt, and nonprofits on tree canopy-utility issues and opportunities</p>	<p>USFS/FWG</p>	<p>CB-Wide</p>	<p>Fall 2017</p>	<p>Outreach/ Education</p>

6. Continue to increase and promote the number of Arbor Day events and UTC education programs on DoD installations for military community awareness.	1. Host Arbor Day/Tree Planting events at select DoD installations, integrating the importance of UTC.	DoD	DoD installations where applicable	2016-2017	Outreach/ Education
7. Develop educational resources that expand the awareness, appreciation, planting and stewardship of fruit and nut trees within educational institutions, under-served communities, parks and other public lands.	<p>1. Include fruit and nut trees and food forests in regional and local tree canopy goals and initiatives</p> <p>2. Pursue development of K-12 student-centered experiences and curricula that embed orchard ecosystems in STEM programs</p> <p>3. Plant orchards and orchard ecosystems at K-12 schools and institutions of higher learning</p> <p>4. Work with neighborhood associations, district planners and other civic groups to create publically accessible and managed orchards</p>	<p>USFS/Forestry Workgroup</p> <p>Local tree planting organizations and forestry boards</p> <p>Local nature centers</p> <p>Local planning boards</p> <p>Local universities and colleges</p> <p>Local school systems</p>	CB-Wide	Ongoing	Outreach/Education

**\*\*Note:** As a member of the Chesapeake Executive Council and a signatory to the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Commission (CBC) functions as the legislative arm of the Chesapeake Bay Program working within Maryland, Pennsylvania and Virginia and at the federal level to identify specific Bay management concerns requiring intergovernmental coordination and cooperation. CBC makes recommendations to the federal, state and local governments on legislative and administrative actions necessary to effectuate coordinated and cooperative management for the Bay watershed. The Commission will work collaboratively with Bay Program partners to identify legislative, budgetary and policy needs to advance the key actions identified in this outcome and to anticipate those needed in the future. The CBC's work is supported by the annual appropriations of its three member states totaling \$675,000 and is, on occasion, supplemented by project-specific grants.

#### Acronym Guide

AACC – Anne Arundel Community College  
ACFHP - Atlantic Coast Fish Habitat Partnership  
ACJV – Atlantic Coast Joint Venture  
AgNPS – AGricultural Non-Point Source Pollution Model  
Appalachian LCC - Appalachian Landscape Conservation Cooperative  
ASTSWMO – Association of State and Territorial Solid Waste Management Officials  
BayFAST/CAST/MAST/VAST – Federal Assessment Scenario Tool/Chesapeake AST/Maryland AST/Virginia AST

BDJV – Black Duck Joint Venture  
BKT – Brook trout  
BMP – Best Management Practice  
CAC – CBP Citizens’ Advisory Committee  
CAFO – Concentrated Animal Feeding Operation  
CB – Chesapeake Bay  
CBC – Chesapeake Bay Commission  
CBF – Chesapeake Bay Foundation  
CBIBS – Chesapeake Bay Interpretive Buoy System  
CBIG – Chesapeake Bay Implementation Grants  
CBP – Chesapeake Bay Program  
CBPO – Chesapeake Bay Program Office  
CBRAP – Chesapeake Bay Regulatory and Accountability Program grants  
CBSAC – Chesapeake Bay Stock Assessment Committee  
CBSSC – Chesapeake Bay Sentinel Site Cooperative  
CBT – Chesapeake Bay Trust  
CCWC – Choose Clean Water Coalition  
CEAP – Conservation Effects Assessment Project  
Chessie BIBI – Chesapeake Bay Basin-wide Index of Biotic Integrity  
CNMP – Comprehensive Nutrient Management Plan  
CNU – Christopher Newport University  
CRC – Chesapeake Research Consortium  
CREP – Conservation Reserve Enhancement Program  
CSN – Chesapeake Stormwater Network  
CWA – Clean Water Act  
DAT – CBP Diversity Action Team  
DC – District of Columbia  
DCNR – Pennsylvania Department of Conservation and Natural Resources  
DE – Delaware  
DEP – Department of Environment  
DE DNREC – Delaware Department of Natural Resources and Environmental Control  
DNR –Department of Natural Resources  
DoD – Department of Defense  
DOEE – Dist. Of Columbia Department of Energy and Environment  
DOF – Department of Forestry  
DOT – Department of Transportation  
DST – Decision support tool  
DU – Ducks Unlimited  
EC – Chesapeake Executive Council  
EJ SCREEN – Environmental Justice Screening and Mapping Tool  
EO Strategy – Executive Order 13508 Strategy for Protecting and Restoring the Chesapeake Bay Watershed  
EJ – Environmental Justice  
EL – Environmental Learning



ELCSS – Environmental Literacy Challenge for Systemic Sustainability  
ERP – Elizabeth River Partnership  
EPA – Environmental Protection Agency  
Ex Comm - Executive Committee of the Sustainable Fisheries GIT  
FERC – Federal Energy Regulatory Commission  
FOD – Chesapeake Bay Program Federal Office Directors  
FTE – full time employee  
FWG – Forest Work Group  
FWS – Fish and Wildlife Service  
GIS – Geographic Information System  
GIT – CBP Goal Implementation Teams  
GMU – George Mason University  
GSA – General Services Administration  
HBCUs – historically black colleges and universities  
HSCD – EPA Hazardous Site Cleanup Division  
HWGIT – Healthy Watershed Work Group  
ICPRB – Interstate Commission on the Potomac River Basin  
IPC – Interfaith Partners for the Chesapeake  
LCC – Landscape Conservation Cooperatives  
LGAC – CBP Local Government Advisory Committee  
LL – Local Leadership  
LU – Land Use  
LUWG – Land Use Work Group  
MATOS - Mid-Atlantic Telemetry Observing System  
MB – CBP’s Management Board  
MD - Maryland  
MDE – Maryland Department of Environment  
MDSG – Maryland Sea Grant  
MOU – Memorandum of Understanding  
MSP – Math Science Partnership  
MS4 – Municipal Separate Storm Sewer System  
MWCOG – Metropolitan Washington Council on Governments  
MWEES – Meaningful Watershed Educational Experiences  
MWS – Master Watershed Stewards  
NAAQS – National Ambient Air Quality Standards  
NALCC - North Atlantic Landscape Conservation Cooperative  
NATA – National Air Toxics Assessment  
NCBO – NOAA Chesapeake Bay Office  
NGO – Non-government organization  
NEIEN – National Environmental Information Exchange Network  
NERR – Chesapeake Bay National Estuarine Research Reserve  
NFWF – National Fish and Wildlife Foundation  
NOAA – National Oceanic and Atmospheric Administration

NP – National Parks  
NPDES – National Pollutant Discharge Elimination System  
NRCS – Natural Resources Conservation Service  
NPS – National Park Service  
NYS DEC – New York State Department of Environmental Control  
ODU – Old Dominion University  
ORES – Oyster Reef Ecosystem Services  
ORP – Oyster Recovery Partnership  
OSSE – Office of the State Superintendent of Education  
PA – Pennsylvania  
PA DEP – Pennsylvania Department of Environmental Protection  
PCB – polychlorinated biphenyl  
PMP -- Pollution Minimization Plan  
PRFC – Potomac River Fisheries Commission  
PSC – CBP’s Principles' Staff Committee  
QA – quality assurance  
RFB – Riparian Forest Buffer  
RMNs - Regional Monitoring Networks  
SAV – Submerged Aquatic Vegetation  
SERC - Smithsonian Environmental Research Center  
SHWG – Stream Health Work Group  
SRBC -- Susquehanna River Basin Commission  
STAC – CBP Scientific and Technical Advisory Committee  
STAR – CBP Scientific and Technical Assessment Research team  
TCW – Toxics Contaminants Workgroup  
TEA - Tidewater Ecosystem Assessment Division of MD DNR  
TMDL – Total Maximum Daily Load  
TNC – The Nature Conservancy  
TSCA – Toxic Substance Control Act  
UMBC – University of Maryland Baltimore County  
UMCES – University of Maryland Center for Environmental Science  
UMCES-CBL – University of Maryland Center for Environmental Science-Chesapeake Biological Lab  
UMD – University of Maryland  
USACE – U.S. Army Corps of Engineers  
USDA – U.S. Department of Agriculture  
USFWS – U.S. Fish and Wildlife Service  
USFS – U.S. Forest Service  
USGS – U.S. Geological Survey  
UVA – University of Virginia  
VA – Virginia  
VCU – Virginia Commonwealth University  
VA CZM – Virginia Coastal Zone Management  
VBOE – Virginia Board of Education

VDGIF – Virginia Department of Game and Inland Fisheries

VIMS – Virginia Institute of Marine Science

Virginia DEQ – Virginia Department of Environmental Quality

VMRC – Virginia Marine Resources Commission

WG – work group

WIP – Watershed Implementation Plan

WQN - Water Quality Network

**APPENDIX – Chesapeake Tree Canopy 2-Year Workplan : Additional State Actions/Programs**

**DELAWARE**

Delaware Actions (2016-2017)	Partners Responsible	Contact Person/ Website for more information
<b>1. Funding &amp; Partnerships</b>		
<u>Delaware Forest Service Urban and Community Forestry Annual Grant Program</u> offers up to 50K each year to communities throughout the state for tree planting, tree care, and tree management projects on publicly owned lands	DFS	DFS Urban and Community Forestry Program/ Kesha Braunskill, Coordinator – contact for all actions <a href="mailto:kesha.braunskill@state.de.us">kesha.braunskill@state.de.us</a> ; <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
<u>Partnership Tree Planting Grants</u> for the Chesapeake Bay Watershed planting grants for non-profit organizations based in Delaware	DFS	DFS Urban and Community Forestry Program/ <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
<u>Livable Lawns Program</u> offers \$50 native plant vouchers to residents throughout the state that follow the Livable Lawns guidelines to reduce fertilizer and pesticide runoff from lawns	DNREC, DNLA, DeIDOT, and UD	<a href="http://www.delawarelivablelawns.org/">http://www.delawarelivablelawns.org/</a>
<b>2. Policy &amp; Ordinances</b>		
DFS internal policy to work with local governments to pass tree canopy resolutions for 10 year periods	DFS	DFS Urban and Community Forestry Program/ <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
Work with 3 counties to ensure development regulations being implemented	DFS	DFS Urban and Community Forestry Program/ <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
Continue to work with municipalities to revise or develop tree ordinances throughout the state	DFS	DFS Urban and Community Forestry Program/ <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
<b>3. Technical Capacity &amp; Knowledge</b>		
<u>DFS Annual Arborist and Tree Care Workshop</u> - An annual conference to increase the knowledge and technical capacity of local contractors and governments within the state	DFS	DFS Urban and Community Forestry Program/ <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
Grant writing workshop- to aid grant applicants in completion of DFS Urban and Community Forestry Program competitive grant	DFS, DCH	DFS Urban and Community Forestry Program/ <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
<b>4. Community Outreach &amp; Education</b>		
DFS has two full time foresters who assist cities, towns, and communities with the management and care of their	DFS	DFS Urban and Community Forestry Program/ <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>

urban forestry resources		
DNREC and DFS have marketing outreach specialists to promote workshops and engage community residents	DFS, DNREC	<a href="http://www.dnrec.delaware.gov/swc/wa/Pages/WIPworkshops.aspx">http://www.dnrec.delaware.gov/swc/wa/Pages/WIPworkshops.aspx</a> <a href="http://www.delawaretrees.com">www.delawaretrees.com</a>
Reclaim our Rivers Workshop Series	DNREC	<a href="http://www.dnrec.delaware.gov/swc/wa/Pages/WIPworkshops.aspx">http://www.dnrec.delaware.gov/swc/wa/Pages/WIPworkshops.aspx</a>

**DISTRICT OF COLUMBIA - Tree Canopy 2-Year Workplan: Additional State Actions/Programs**

District of Columbia Actions (2016-2017)	Partners Responsible	Contact Person/ Website for more information
<b>1. Funding &amp; Partnerships</b>		
Continue to fund programs to encourage tree planting on residential properties through RiverSmart Homes and RiverSmart Rebates	DOEE	Lauren Linville ( <a href="mailto:lauren.linville@dc.gov">lauren.linville@dc.gov</a> ) <a href="http://doee.dc.gov/riversmart">http://doee.dc.gov/riversmart</a>
Continue to plant at least 4,150 trees each year in the MS4 area of the District in support of the District's MS4 permit	DOEE/DDOT	Jonathan Champion ( <a href="mailto:jonathan.champion@dc.gov">jonathan.champion@dc.gov</a> ) <a href="http://www3.epa.gov/reg3wapd/pdf/pdf_npdes/stormwater/DCMS4/MS4FinalLimitedModDocument/FinalModifiedPermit_10-25-12.pdf">http://www3.epa.gov/reg3wapd/pdf/pdf_npdes/stormwater/DCMS4/MS4FinalLimitedModDocument/FinalModifiedPermit_10-25-12.pdf</a>
Continue to develop planting plans and plant trees on large parcels in the District including parks and schools	DOEE/DDOT	Steve Saari ( <a href="mailto:steve.saari@dc.gov">steve.saari@dc.gov</a> )
Continue to work towards achieving a 40% tree canopy in the District by 2032	DDOT/DOEE	Earl Eutsler ( <a href="mailto:earl.eutsler@dc.gov">earl.eutsler@dc.gov</a> ) <a href="http://doee.dc.gov/sites/default/files/dc/sites/ddoe/page_content/attachments/Draft_Urban_Tree_Canopy_Plan_Final.pdf">http://doee.dc.gov/sites/default/files/dc/sites/ddoe/page_content/attachments/Draft_Urban_Tree_Canopy_Plan_Final.pdf</a>
<b>2. Policy &amp; Ordinances</b>		
Create an Urban Forestry Advisory Committee to assist the District in meeting its tree canopy goal	DDOT/DOEE	Ben Stutz ( <a href="mailto:ben.stutz@dc.gov">ben.stutz@dc.gov</a> ) <a href="http://doee.dc.gov/trees">http://doee.dc.gov/trees</a>
<b>3. Technical Capacity &amp; Knowledge</b>		
Hire DOEE Tree Coordinator	DOEE	Ben Stutz ( <a href="mailto:ben.stutz@dc.gov">ben.stutz@dc.gov</a> ) <a href="http://doee.dc.gov/trees">http://doee.dc.gov/trees</a>
Perform Tree Canopy Analysis	DDOT	Earl Eutsler ( <a href="mailto:earl.eutsler@dc.gov">earl.eutsler@dc.gov</a> )
<b>4. Community Outreach &amp; Education</b>		
Develop new RiverSmart outreach materials	DOEE	Lauren Linville ( <a href="mailto:lauren.linville@dc.gov">lauren.linville@dc.gov</a> ) <a href="http://doee.dc.gov/riversmart">http://doee.dc.gov/riversmart</a>
Develop new RiverSmart social media presence	DOEE	Lauren Linville ( <a href="mailto:lauren.linville@dc.gov">lauren.linville@dc.gov</a> ) <a href="http://doee.dc.gov/riversmart">http://doee.dc.gov/riversmart</a>

**MARYLAND - Tree Canopy 2-Year Workplan: Additional State Actions/Programs**

Maryland Actions (2016-2017)	Partners Responsible	Contact Person/ Website for more information
<b>1. Funding &amp; Partnerships</b>		
Small grant programs to assist communities fund tree planting and educational projects on public lands	Maryland Urban & Community Forestry Council; Chesapeake Bay Trust; nonprofits	<a href="http://dnr2.maryland.gov/forests/Pages/programs/urban/mucfcgrant.aspx">http://dnr2.maryland.gov/forests/Pages/programs/urban/mucfcgrant.aspx</a> <a href="http://www.cbtrust.org/site/c.mijPKXPCJnH/b.5457271/k.C58E/Grants.htm">http://www.cbtrust.org/site/c.mijPKXPCJnH/b.5457271/k.C58E/Grants.htm</a>  For more information, visit your local government's and local nonprofits' websites.
Financial assistance, via a coupon program, to landowners interested in planting a tree	MD Forest Service; local governments; nonprofits	<a href="http://trees.maryland.gov/">http://trees.maryland.gov/</a> <a href="http://www.treebaltimore.org/">http://www.treebaltimore.org/</a>  For more information, visit your local government's and local nonprofits' websites.
Financial assistance to landowners with one acre or more of plantable space	MD Forest Service; local governments	For more information, visit your local government's and local nonprofits' websites.
Assistance for tree planting projects on public land by reducing tree cost through a partnership with a private nursery and through nonprofits	MD Forest Service; TreeBaltimore; non profits	<a href="http://dnr2.maryland.gov/forests/Pages/treemendous/default.aspx">http://dnr2.maryland.gov/forests/Pages/treemendous/default.aspx</a> <a href="http://www.treebaltimore.org/">http://www.treebaltimore.org/</a>  For more information, visit your local government's and local nonprofits' websites.
Private/public partnerships between nurseries and state and local governments that enable participation in financial assistance programs	MD Forest Service; nonprofits; local governments	<a href="http://trees.maryland.gov/">http://trees.maryland.gov/</a> <a href="http://dnr2.maryland.gov/forests/Pages/treemendous/default.aspx">http://dnr2.maryland.gov/forests/Pages/treemendous/default.aspx</a>  For more information, visit your local government's and local nonprofits' websites.
Financial assistance to landowners with property adjacent to streams plant streamside forest buffer	MD Forest Service	<a href="http://dnr2.maryland.gov/forests/Documents/byb_program.pdf">http://dnr2.maryland.gov/forests/Documents/byb_program.pdf</a>
<b>2. Policy &amp; Ordinances</b>		
Continue implementing existing statewide forestry programs (such as Forest Conservation Act, Reforestation Law, Critical Area Law, Roadside Tree Law) to maintain the net tree canopy statewide	MD Forest Service; MD State Highway Admin; local governments.	<a href="http://dnr2.maryland.gov/forests/Pages/Urban-Community.aspx">http://dnr2.maryland.gov/forests/Pages/Urban-Community.aspx</a>  For more information, visit your local government's website.
To meet a "no net loss of forest by 2020" policy adopted by statute,	MD Department of Natural Resources; MD	<a href="http://planning.maryland.gov/OurWork/compPlans/Welcome.shtml">http://planning.maryland.gov/OurWork/compPlans/Welcome.shtml</a>

develop guidelines, policies and standards as a component of the local governments' comprehensive plans (2013 Forest Preservation Act and MD Land Use Article	Dept of Planning; local governments	For more information, visit your local government's website.
<b>3. Technical Capacity &amp; Knowledge</b>		
Establish a Continuing Education program for MD Licensed Tree Experts	MD Forest Service	<a href="http://dnr2.maryland.gov/forests/Pages/programapps/newtreeexpert.aspx">http://dnr2.maryland.gov/forests/Pages/programapps/newtreeexpert.aspx</a>
Conduct yearly trainings and certification of state and local governments' tree care workers	MD Forest Service	<a href="http://dnr2.maryland.gov/forests/Pages/publicemployeesstudyguide.aspx">http://dnr2.maryland.gov/forests/Pages/publicemployeesstudyguide.aspx</a>
Provide forest resource inventories to local governments at least every 5 years upon request	MD Forest Service	Marian Honecny, <a href="mailto:marian.honecny@maryland.gov">marian.honecny@maryland.gov</a> Rob Feldt, <a href="mailto:rob.feldt@maryland.gov">rob.feldt@maryland.gov</a>
Provide assistance to those local governments developing UTC implementation plans upon request	MD Forest Service	Marian Honecny, <a href="mailto:marian.honecny@maryland.gov">marian.honecny@maryland.gov</a> Rob Feldt, <a href="mailto:rob.feldt@maryland.gov">rob.feldt@maryland.gov</a>
<b>4. Community Outreach &amp; Education</b>		
Recognize tree planting and tree care efforts by communities via the PLANT recognition award program	Maryland Urban & Community Forestry Council	<a href="http://dnr2.maryland.gov/forests/Pages/programs/plantinfo.aspx">http://dnr2.maryland.gov/forests/Pages/programs/plantinfo.aspx</a>
Tree City USA recognition awards program	National Arbor Day Foundation	<a href="http://www.arborday.org/programs/TreeCityUSA/index.cfm">http://www.arborday.org/programs/TreeCityUSA/index.cfm</a>
Tree Campus USA recognition awards program	National Arbor Day Foundation	<a href="https://www.arborday.org/programs/treecampususa/">https://www.arborday.org/programs/treecampususa/</a>
Establish / continue state and local citizen stewardship programs to plant and maintain existing trees and forest	MD Forest Service; Maryland Urban & Community Forestry Council; Chesapeake Bay Trust; local governments; nonprofits	<a href="http://dnr2.maryland.gov/forests/Pages/treemendous/default.aspx">http://dnr2.maryland.gov/forests/Pages/treemendous/default.aspx</a> <a href="http://www.treebaltimore.org/">http://www.treebaltimore.org/</a> <a href="http://dnr2.maryland.gov/forests/Pages/programs/urban/mucfcgrant.aspx">http://dnr2.maryland.gov/forests/Pages/programs/urban/mucfcgrant.aspx</a> <a href="http://www.cbtrust.org/site/c.mijPKXPCJnH/b.5368633/k.BDEA/Home.htm">http://www.cbtrust.org/site/c.mijPKXPCJnH/b.5368633/k.BDEA/Home.htm</a>  For more information, visit your local government's and local nonprofits' websites.



**PENNSYLVANIA - Tree Canopy 2-Year Workplan: Additional State Actions/Programs**

Pennsylvania Actions (2016-2017)	Partners Responsible	Contact Person/ Website for more information
<b>1. Funding &amp; Partnerships</b>		
TreeVitalize® “Street Tree Inventory” grant	DCNR BOF, PA UCFC, PSU Extension	<b>Rachel Reyna--</b> <a href="mailto:rreyna@pa.gov">rreyna@pa.gov</a> For all actions listed <a href="http://www.treevitalize.net/">http://www.treevitalize.net/</a>
Tree City USA communities & Tree Campus USA (ordinance required to participate)	DCNR BOF, PSU Extension, STC/EAC's	
TreeVitalize “Street Tree Planting” grant	DCNR BOF, PA UCFC, STC/EAC's, community groups, homeowners, nurseries, Cons.Districts	
TreeVitalize “Trees Count, PA!” coupon program	DCNR BOF, PA UCFC, STC/EAC's, community groups, homeowners, nurseries, Cons.Districts	
Unique TreeVitalize planting partnerships (ex: public radio)	DCNR BOF, PA UCFC, STC/EAC's, community groups, homeowners, nurseries, Cons.Districts	
Supporting local tree planting initiatives (i.e. Chester Co., Lancaster City, Franklin Co.)	DCNR BOF, PA UCF, STC/EAC's, community groups, homeowners, nurseries, Cons.Districts	
TreeVitalize "Pruning" grant	DCNR BOF, PA UCFC, PSU Extension	
<b>2. Policy &amp; Ordinances</b>		
Municipal shade tree ordinance work	DCNR BOF, PSU Extension, STC/EAC's	
TreeVitalize “Trees Count, PA!” coupon program	DCNR BOF, PA UCFC, STC/EAC's, community groups, homeowners, nurseries,	

	Cons.Districts, PLNA	
<b>3. Technical Capacity &amp; Knowledge</b>		
EAB Management Plans	DCNR BOF, PA UCFC, PSU Extension	
<a href="http://www.pacomunityforests.org">Lunchtime urban forestry webinar series (sessions are recorded and archived at www.pacomunityforests.org)</a>	DCNR BOF, PA UCF, PSU Extension	
Interactive Community Tree Map (Pennsylvania Community Tree Map)	DCNR BOF, PA UCFC	
<b>4. Community Outreach &amp; Education</b>		
TreeVitalize "Trees Count, PA!" coupon program	DCNR BOF, PA UCFC, STC/EAC's, community groups, homeowners, nurseries, Cons.Districts	
Tree Tenders® (Classroom)	PHS, Tree Pittsburgh, PSU Extension, Tree Tenders, DCNR BOF	
Advanced Tree Tenders	PHS, Tree Pittsburgh, PSU Extension, Tree Tenders, DCNR BOF	
Tree Tenders (online course)	PHS, Tree Pittsburgh, PSU Extension, Tree Tenders, DCNR BOF	
ISA Arborist Short Course (4/year)	PSU Extension	
Development of smartphone apps for tree ID & right tree, right place	DCNR BOF, PA UCFC , Harrisburg University	
<a href="http://www.pacomunityforests.org">Lunchtime urban forestry webinar series (sessions are recorded and archived at www.pacomunityforests.org)</a>	DCNR BOF, PA UCFC, PSU Extension	
Facebook & Constant Contact outreach	PA UCFC	

**VIRGINIA - Tree Canopy 2-Year Workplan: Additional State Actions/Programs**

Virginia Actions (2016-2017)	Partners Responsible	Contact Person/ Website for more information
<b>1. Funding &amp; Partnerships</b>		
Virginia Urban and Community Forestry Grants	VDOF, USFS	Barbara White <a href="http://www.dof.virginia.gov/forestry/community/index.htm">http://www.dof.virginia.gov/forestry/community/index.htm</a>
Virginia Trees for Clean Water	VDOF, USFS CBP	Barbara White
Richmond Urban Tree Canopy Initiative	VDOF, ACB, Altria	Lara Johnson
<b>2. Policy &amp; Ordinances</b>		
Urban Forest Emergency Management Plans	Natural Path Forestry Consultants	Mark Duntemann
		Barbara White
<b>3. Technical Capacity &amp; Knowledge</b>		
Green Infrastructure Planning	Green Infrastructure Center , VDOF	Karen Firehock <a href="http://www.gicinc.org/">http://www.gicinc.org/</a>
Urban Tree Canopy Guidance Doc	VA Tech, Department of Forest Resources & Environmental Conservation, VDOF	Dr. Eric Wiseman
Virginia Tree Stewards	Trees Virginia, VDOF	Barbara White <a href="http://treesvirginia.org/">http://treesvirginia.org/</a>
Virginia Urban Forest Strike Team	VDOF	David Stone
Community Design Assistance Center	Virginia Tech	<a href="http://www.cdac.arch.vt.edu/">http://www.cdac.arch.vt.edu/</a>
<b>4. Community Outreach &amp; Education</b>		
Waynesboro Health Care for Urban Trees	Trees Virginia , VDOF	Barbara White <a href="http://treesvirginia.org/">http://treesvirginia.org/</a>
Roanoke Tree Health Care Workshop	Trees Virginia, VDOF	Barbara White <a href="http://treesvirginia.org/">http://treesvirginia.org/</a>
Northern Virginia (NOVA) Quarterly Urban Forestry Roundtable	NOVA Committee,	Nora Palmatier <a href="http://treesvirginia.org/">http://treesvirginia.org/</a>
NOVA Biennial Urban Forestry Conference	NOVA Committee	Nora Palmatier <a href="http://treesvirginia.org/">http://treesvirginia.org/</a>
Mid-Atlantic Horticulture Short Course	VA Horticulture Foundation	Dawn Alleman <a href="http://www.mahsc.org/">http://www.mahsc.org/</a>
VA Big Tree Program	VA Tech, Trees VA	Dr. Eric Wiseman <a href="http://bigtree.cnre.vt.edu/">http://bigtree.cnre.vt.edu/</a>
Hampton Roads Urban Forestry Roundtable		

**WEST VIRGINIA - Tree Canopy 2-Year Workplan: Additional State Actions/Programs**

West Virginia Actions (2016-2017)	Partners Responsible	Contact Person/ Website for more information
<b>1. Funding &amp; Partnerships</b>		
Secure & sustain <a href="#">WV Chesapeake Bay Program</a> funding for urban forestry under goal to “broadly engage the public in BMPs including UTC”	WV DEP & <a href="#">Cacapon Institute (CI)</a>	Frank Rodgers <a href="mailto:frodgers@cacaponinstitute.org">frodgers@cacaponinstitute.org</a> <a href="http://www.wvca.us/bay/">http://www.wvca.us/bay/</a>
1.a. Continue funding for <a href="#">WV Project CommuniTree</a>	CI	Frank Rodgers <a href="mailto:frodgers@cacaponinstitute.org">frodgers@cacaponinstitute.org</a> <a href="http://www.cacaponinstitute.org/Forestry/CTree.htm">http://www.cacaponinstitute.org/Forestry/CTree.htm</a>
1.b. Continue funding <a href="#">Potomac Headwaters Leaders of Watersheds</a>	WV DEP, NFWF, NOAA Chesapeake Bay Office	Frank Rodgers <a href="mailto:frodgers@cacaponinstitute.org">frodgers@cacaponinstitute.org</a> <a href="http://www.cacaponinstitute.org/education.htm">http://www.cacaponinstitute.org/education.htm</a>
Secure & sustain WV Chesapeake Bay Program funding for Bay Community Tree Grants	WV DOF	Herb Peddicord <a href="mailto:herb.f.peddicord@wv.gov">herb.f.peddicord@wv.gov</a>
<b>2. Policy &amp; Ordinances</b>		
Pursue the Jefferson County Urban Tree Canopy Goal & Plan	Jefferson County Planning, WV DOF, CI	<a href="#">Herb Peddicord</a> , <a href="#">Frank Rodgers</a>
Pursue Martinsburg stormwater fee ordinance to include voluntary offsets using urban tree canopy as credit for stormwater mitigation	The City of Martinsburg , Region 9	
<b>3. Technical Capacity &amp; Knowledge</b>		
Engage WV Urban & Community Forestry Council, WVU, Shepherd U., and other institutions of higher learning to expand technical support for tree planting activities in the WV Bay counties.	WV DOF, CI	Robert Hannah <a href="mailto:robert.l.hannah@wv.gov">robert.l.hannah@wv.gov</a> <a href="#">Frank Rodgers</a>
Promote and disseminate Mountaineer Treeminders education and training through Project CommuniTree.	CI	<a href="#">Tanner Haid</a> <a href="mailto:ctree@cacaponinstitute.org">ctree@cacaponinstitute.org</a>
Provide technical support to Jefferson County Parks & Recreation Council to implement turf-to-tree and low-mow efforts on county’s parks		<a href="#">Tanner Haid</a> <a href="mailto:ctree@cacaponinstitute.org">ctree@cacaponinstitute.org</a>
Provide technical support for planning and implementation through Bay Community Tree	WV DOF	<a href="#">Herb Peddicord</a> <a href="mailto:herb.f.peddicord@wv.gov">herb.f.peddicord@wv.gov</a>

Grants		
Disseminate best practices for planting and maintenance of trees through WV Project CommuniTree	CI	<a href="#">Tanner Haid</a> ctree@cacaponinstitute.org
Use new high resolution CBP 2015 UTC Landover Study to identify new priority planting sites.	CI	<a href="#">Frank Rodgers</a> frodgers@cacaponinstitute.org
<b>4. Community Outreach &amp; Education</b>		
Reach four municipalities with Bay Community Tree Grants	WV DOF	<a href="#">Herb Peddicord</a> herb.f.peddicord@wv.gov
Utilize EPA, US Forest Service, Census and other environmental, social, and ethnic indicators to target urban forestry education and outreach to diverse, underserved, and at-risk communities.	CI	<a href="#">Frank Rodgers</a> frodgers@cacaponinstitute.org
Expand outreach and recruitment of diverse, underserved, and at-risk communities for WV Project CommuniTree	CI	<a href="#">Tanner Haid</a> ctree@cacaponinstitute.org
Reach 25 communities, watershed association, faith based organization, school, and/or other volunteer groups through Project CommuniTree	CI	<a href="#">Tanner Haid</a> ctree@cacaponinstitute.org
Reach six schools with Potomac Headwaters Leaders of Watersheds, Plant-A-Tree or Growing Native	CI, <a href="#">Potomac Watershed Partnership</a>	<a href="#">Molly Barkman</a> mbarkman@cacaponinstitute.org <a href="http://www.potomacpartnership.org/">http://www.potomacpartnership.org/</a>