

DRAFT 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

Key Action** <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>	Performance Target(s) <i>Identify incremental steps to achieve Key Action.</i>	Participating Entity <i>Identify responsible partner for each step.</i>	Geographic Location	Timeline <i>Identify completion date (month & year) for each step)</i>	Factors Influencing and/or Gap <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
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Management Approach 2: Strengthen Policy and Ordinances

Key Action** <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>	Performance Target(s) <i>Identify incremental steps to achieve Key Action.</i>	Participating Entity <i>Identify responsible partner for each step.</i>	Geographic Location	Timeline <i>Identify completion date (month & year) for each step</i>	Factors Influencing and/or Gap <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
2. Support efforts to credit/incentivize tree canopy protection in addition to planting in the TMDL framework	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.	USFS/FWG CBP Staff	CB-Wide	1. Summer 2016 2. Fall 2017	Policy/ Ordinances

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	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	FWG/ Jurisdictions USFS EPA	CB-Wide	Fall 2015 Spring 2017	Policy/ Ordinances
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Management Approach 3: Increase Technical Capacity and Knowledge					
Key Action** <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>	Performance Target(s) <i>Identify incremental steps to achieve Key Action.</i>	Participating Entity <i>Identify responsible partner for each step.</i>	Geographic Location	Timeline <i>Identify completion date (month & year) for each step)</i>	Factors Influencing and/or Gap <i>Identify related factor or gap in Management Strategy</i>
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)	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	USFS/Forestry Workgroup	CB-Wide	Fall 2016	Knowledge/Capacity
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					
Key Action** <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>	Performance Target(s) <i>Identify incremental steps to achieve Key Action.</i>	Participating Entity <i>Identify responsible partner for each step.</i>	Geographic Location	Timeline <i>Identify completion date (month & year) for each step)</i>	Factors Influencing and/or Gap <i>Identify related factor or gap in Management Strategy</i>
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	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	FWG DAT Local Leadership Workgroup Citizen Stewardship Workgroup LGAC CAC	CB-Wide	Ongoing	Outreach/ Education

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)	1. Develop Chesapeake Tree Canopy Network website and listserv 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	1. Alliance for the Chesapeake Bay, USFS 2. USFS/FWG	CB-Wide	Spring 2016 Fall 2017	Outreach/ Education
3. Develop and pilot social marketing and other innovative outreach methods to broaden community engagement in urban tree canopy implementation	1. Make social marketing/ outreach resources available on Chesapeake Tree Canopy Network website 2. See 4.4.1	1. USFS/FWG	CB-Wide	Spring 2017	Outreach/ Education
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.)	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	1. USFS/FWG DAT 2. USFS/FWG Education Workgroup	CB-Wide	Fall 2017 Summer 2017	Outreach/ Education
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.	1. Hold workshop with representatives from utilities, states, local govt, and nonprofits on tree canopy-utility issues and opportunities	USFS/FWG	CB-Wide	Fall 2017	Outreach/ Education
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

****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
MWWCOG – 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