

LAND PRESERVATION PROGRAMS STORMWATER MANAGEMENT SEDIMENT AND EROSION CONTROL SHORELINE CONSTRUCTION AGRICULTURAL PRESERVATION ADVISORY BOARD Worcester County
GOVERNMENT CENTER

ONE WEST MARKET STREET, ROOM 1306 SNOW HILL, MARYLAND 21863

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October 30, 2025

WELL & SEPTIC
WATER & SEWER PLANNING
PLUMBING & GAS
CRITICAL AREAS
FOREST CONSERVATION
COMMUNITY HYGIENE

RE: Agricultural Land Preservation Advisory Board Meeting

Dear Worcester County Agricultural Land Preservation Advisory Board Member,

Our next meeting is scheduled for <u>Wednesday November 19, 2025 at 6:30 PM</u>. The meeting will be held in the Commissioners' meeting room, at the County Office building in Snow Hill.

Enclosed is the agenda and two draft chapters for the Comprehensive Plan that relate to agriculture. The Agriculture chapter and specifically the Priority Preservation Area (PPA) is required to be reviewed and approved by the board.

If you will be <u>unable to attend the meeting</u>, please contact me at 410-632-1220 ext 1302 or <u>kmunson@co.worcester.md.us</u>. It is essential that we have a quorum so that a board decision can be made.

As always, thank you for your participation and the time you devote to this board.

Sincerely,

Katherine G. Munson
Planning Manager

cc: Robert Mitchell, Environmental Programs Lily Wagner, Planner II

Worcester County Agricultural Land Preservation Advisory Board Meeting Agenda

Date: Wednesday, November 19, 2025

Time: 6:30 PM

Location: Worcester County Government Center, Snow Hill; Planning Commission Meeting Room, 1st Floor

6:30	Call to Order/Review and approval of June 25, 2024 meeting minutes
6:35	FY25/26 Easement Purchase Cycle Update/ FY27 funding expectations
6:40	New Board Member Recommendations
6:45	Review of the Proposed Priority Preservation Area and Agriculture Chapter, Comprehensive Plan
7:05	Adjourn

Worcester County Agricultural Land Preservation Advisory Board Meeting Minutes

Tuesday, June 25, 2024; 6:30 PM Worcester County Government Center Snow Hill, MD 21863

Attendance:

Advisory Board Members:

Kelley Gravenor--present Glenn Holland--absent Alan Hudson--present Curt Lambertson--present Christian Martin -- present Ed Phillips – absent Stuart Cooper-- present

Staff:

Robert Mitchell - Director of Environmental Programs Lily Wagner - Environmental Intern

Call to Order

The meeting was called to order at 6:30 PM.

Review and approval January 23, 2024 meeting minutes

Kelley Gravenor made a motion to approve the January 23, 2024 meeting minutes, Alan Hudson seconded the motion. Approval was unanimous.

FY24 Easement Purchase Cycle Update/FY25/26 funding estimates

Bob Mitchell provided information about offers and acceptances in FY24. All applicants accepted their offers.

He explained that \$800,000 is anticipated for the combined FY25/26 cycle.

FY25/26 Application Review and Approval

The following applications were submitted in FY25 (in alphabetical order)

- 1. Guy, Larry Dean and Deborah, TM 99, P 27; Hall Road, Pocomoke City; 96.75 acres
- 2. Maddux, Percy, S., TM 91, P 59; New Bridge Road; 144.92 acres
- 3. Maddux, Percy S., TM 99, P 49; 1226 Colona Road, Pocomoke City; 130.02 acres

Bob Mitchell explained that there were only three applications in this cycle and that all met the minimum requirements for the program. All three applicants also had subdivision rights.

Curt Lambertson made a motion to send all three applications to MALPF, Christian Martin seconded the motion. Approval was unanimous.

Rural Legacy Program update

Bob Mitchell updated the board on the Rural Legacy Program.

Bob Mitchell also talked to the board about the decrease in MALPF applicants. He noted an increase in solar companies reaching out to landowners with attractive offers. Members of the board added that they had heard of offers from solar companies promising landowners \$4500 to \$5000 per acre per year. Two members noted that they have received calls from solar companies.

The meeting adjourned at 7:10 PM.



Introduction

This chapter articulates the county's policy framework for sustaining agricultural land and industry. Despite the intensive urbanization of Ocean City and commercial and residential development of the northeastern portion of the county, Worcester County remains a largely rural community, with a landscape dominated by cropland and forest. Agriculture is second to tourism in sustaining the local economy.

According to the 2010 Land Use/Land Cover data produced by the Maryland Department of Planning, Worcester County contains 89,000 acres of cropland and 145,000 acres of forested land¹; 30% and 49% of the county, respectively. The 2022 Census of Agriculture, which collects data in a different way, notes that the county's 361 "farms" covered 104,121 acres or 34 percent of Worcester County (a negligible change from the 2017 census).² Average farm size was 288 acres (average farm size has been trending upward for decades), and median size was 63 acres.³ 92% are characterized as family farms.

Over 67,000 acres in Worcester County are classified as "prime farmland" with another 40,000 acres "prime farmland if drained or irrigated". According to the US Department of Agriculture (USDA)⁴, prime farmland is defined as land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber and oilseed crops. In addition, prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable [pH], acceptable salt content, and few or no rocks. When treated and managed properly, these soils have the capability to produce sustained high yields of crops. In order to classify the various levels of soil quality, USDA Soil Surveys include a Land Capability Classification system to group and prioritize soil classifications according to their limitations for field crops, the risk of damage if they are used for crops, and the way soils responds to management. Prime agricultural soils are considered to include Soil Capability Classes 1 and 2.

In the 17th and 18th centuries, tobacco was the mainstay agricultural commodity in Worcester County. This gave way to grain crops and livestock grazing by the early 20th century. Today, grains for poultry feed (corn, soybeans and wheat) are the mainstay crops, and Worcester County ranks fifth in the state in broiler production. According to the Census of Agriculture, 8.61 million broilers (meat type chickens) were sold in 2022.⁵ Worcester County ranks eighty-seventh among *all counties nationwide* in broiler production⁶. The total value of all agricultural products sold in Worcester County in 2022 was over \$289 million (ranking fifth in the state and a +16% change from 2017).⁷ The average market value of products sold per farm was over \$800,000 in 2022 (a +19% increase from 2017).⁸

¹ http://www.mdp.state.md.us/OurWork/landuse.shtml

² Census of Agriculture, USDA. 2022.

³ Ibid.

⁴ United States Department of Agriculture, Natural Resources Conservation Service; Soil Survey of Worcester County, Maryland. 1997.

⁵ Ibid.

⁶ Ibid.

⁷ Ibid.

⁸ Ibid



The poultry industry is a staple element of the economy on the Delmarva Peninsula as a whole. Overall, on Delmarva, chickens outnumber people 390 to 19. Not only chicken production itself, but also locally produced grains for feed are essential for the continued success of the chicken industry; the large base of local farmers is an important part of the "three legged stool" (poultry growers, poultry companies, and grain farmers) needed to sustain the industry. Contiguous farmland that is minimally disrupted by other types of development is also important for the continued success, and flexibility of farming industries. When residential and other development fragments farmland, it not only results in loss of farmland, but creates traffic, adjacent landowner complaints and other conflicts with agriculture which at some point becomes detrimental economically to farming on a larger scale.

Value-added agriculture includes not only the production and /or processing of agricultural products, but an associated public educational or interactive component, also known as "agritourism". With increased interest from the public, value-added products and agritourism has become a more viable economic option for farmers and processors in Worcester County, but it is still a small part of the overall agricultural economy in the county. According to the 2022 Census of Agriculture, farm-related income was over \$5.3 million in 2022, a 62% increase over 2017.¹⁰

The forest products industry is also important in Worcester County. Like farmland, all forestland is not equally productive. Forested riparian areas, critical area buffers, wetlands and certain hydric soils are important to protect for habitat and water quality, but not as critical to the forestry industry. The lower eastern shore has experienced a significant loss of local timber mills over the past several decades, mirroring a wider trend across Maryland's eastern shore with only a few remaining mills today. Market consolidation and other factors have contributed to this decline. Regardless, forestry contributes significantly to the economy and supports jobs. In the eastern shore region, in 2019, forestry contributed nearly \$203 million in direct economic impact to the state economy and supported 2,309 jobs¹¹. Direct contribution in Worcester County was \$25 million and 69 jobs directly involved in forestry¹². Beyond timber, forests provide essential ecological services such as clean air and water, habitat for hundreds of species of birds and other organisms, and contribute to the health of the Chesapeake and Coastal Bays. The more acres of forestland available in the future, the more likely Worcester's forests can be managed sustainably.

Goals and Objectives

It is important to note that farmland and forested land do much more for a community than provide for a specific industry. Cost of Community Service Studies carried out across the nation consistently find that farmland, forested land and other agricultural land use generates a fiscal surplus for a community, even when the land is assessed at its current agricultural use. In this way, farmland is similar to other commercial and industrial uses. In contrast, residential land use does not cover its costs to local government, it must be subsidized by the aforementioned land uses. Conversion of agricultural land to

⁹ Ibid

¹⁰ Ihid

¹¹ Hickman, John and Guy, Sarah. The Impact of Resource-Based Industries on the Maryland Economy. October 2022. Business Economic and Community Outreach Network (BEACON) at Salisbury University.

¹² Ibid.



residential land, therefore, should not be seen as a way to generate more revenue for local government and balance local budgets.¹³

Given the imperative to protect agricultural land, Worcester County will aim to target the following goals and recommended actions:

- 1. Protect and promote private farming and forestry by accommodating inevitable population growth through appropriate planning and zoning.
 - Action Item 9.1.1: Continue to support DNR forest service and other entities that provide technical assistance to private forest owners.
 - Action Item 9.1.2: Promote cooperative work between farmers/landowners and other stakeholders to balance water quality and productivity and other environmental challenges facing farmers and owners of forested land.
 - Action Item 9.1.3: Work with the state and other partners and entities to balance commercial solar development in rural areas with protection of farmland.
- Establish a Priority Preservation Area within which protection efforts will be focused and nonagricultural development will be discouraged. Specifically, in the long term, protect at least 85,808 acres through conservation easements and restrictive zoning.
 - Action Item 9.2.1: Continue purchase of Rural Legacy and Maryland Agricultural Land Preservation Fund (MALPF) easements using a system that prioritizes land most at risk for development and/or purchase of the best bargains.
 - Action Item 9.2.2: Cooperate with the Lower Shore Land Trust in their efforts to preserve farmland.
 - Action Item 9.2.3: Pursue other agricultural land conservation programs and funding, when available.
 - Action Item 9.2.4: Maintain State certification for the county's agricultural land preservation program, which allows access to additional agricultural transfer tax funds that are collected in the county.
- 3. Prioritize prime farmland for permanent protection.
 - Action Item 9.3.1: Continue to support the Soil Conservation District, the Extension Service and other entities that provide technical services, support innovation as well as promote environmental protection actions on agricultural land.
 - Action Item 9.3.2: Establish a farmland conservation fund as a source of local matching funds for land protection.

Agricultural Zoning

Approximately 84% of the county is currently zoned A-1 (Agricultural) or RP (Conservation); 169,158 and 87,463 acres respectively, after Worcester County underwent comprehensive re-zoning in 2009. In these zones only five lots may be subdivided from what was an entire parcel of land in 1967. In the A-1

¹³ American Farmland Trust. Fact Sheet: Farmland Information Center, Cost of Community Services Studies. September 2016.

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zone, 6 lots may be created under certain circumstances, including clustering of lots (extremely rare). In the RP zone up to 5 lots per parcel are permitted only by special exception. This has allowed the county to minimize development pressure in these zones. An A-2 zone was created from A-1 and E-1-zoned areas in 2009 (7,253 acres). This zone is intended to foster agricultural use, while also allowing uses of a more commercial nature that require large tracts of land that had been permitted in the entire A-1 zone prior to 2009. Worcester County has not adopted a tier map or otherwise make any changes to zoning regulations following the enactment of the Sustainable Growth and Agricultural Preservation Act of 2012 (the "septics law"). All of this has ensured that development is minimized in the A-1 zone. Figure 9-1. depicts the number of residential building permits issued annually, county wide and in the A-1 zone. Within the period of 2007 to 2025, 3,666 building permits were issued in total; 648 in the A-1 zone. This data shows that development is concentrated in designated growth areas, with limited development occurring in the A-1 zone. Subdivisions within the PPA are a similar metric to gauge development impact as reflected in Table 9-1. Residential Land Use and Land Protected in Priority Preservation Areas. From 2018 to 2024, approximately 1,158 acres were involved in subdivision for residential purposes and 4,365.67 acres were protected. Protection outstripped development more than 3-fold on a per acre basis in this time period. It's also likely that some of the acreage involved in subdivision remained in agricultural use. This slow pace of development is anticipated to continue to provide ample time for the acquisition of conservation easements on agricultural and forested land.

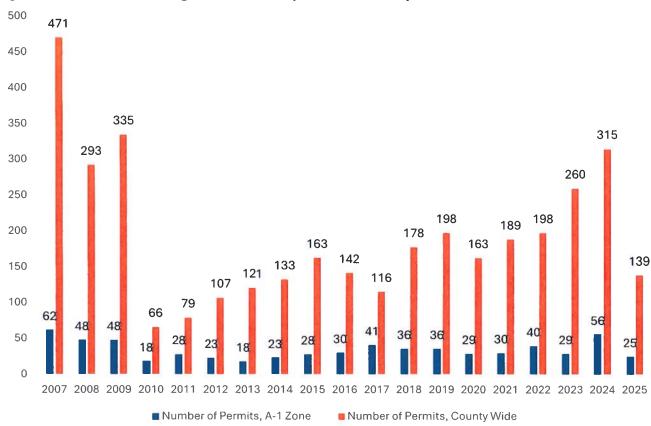


Figure 9-1. Residential Building Permits Issued by Worcester County 2007-2025



Table 9-1. Residential Land Use and Land Protected in Priority Preservation Area (PPA)

Year	Lands subdivided for residential use in the PPA	Residential units constructed in the PPA*	Lands Protected in the PPA
2018	11 lots; 72.41 acres	22	811.4 acres (MALPF) 474.8 acres (Rural Legacy)
2019	6 lots; 22.1 acres	21	800.17 acres (MALPF) 186.9 acres (Rural Legacy)
2020	6 lots; 36.79 acres	24	173.5 acres (MALPF) 137 acres (Rural Legacy) 56.7 acres (CREP Permanent Easement)
2021	11 lots; 120.67 acres	27	458.58 acres (MALPF) 2,046.48 acres (Rural Legacy) 153.56 (LSLT/MET)
2022	10 lots; 117 acres	38	481.46 acres (MALPF) 244.57 acres (Rural Legacy)
2023	19 lots; 578 acres	25	103.98 acres (MALPF) 88.74 (Rural Legacy)
2024	3 lots; 211 acres	39	722.84 acres (MALPF) 113.6 acres (Rural Legacy)

^{**}Data 2022 and prior is relevant to the original PPA

Priority Preservation Areas

To help keep a critical mass of land in farming use, the county established a state certified agricultural preservation program effective July 2004. Certified counties keep 75 percent of the agricultural transfer tax and are eligible for additional state matching funds which are used to fund the program. To remain eligible for this program, the county must establish a Priority Preservation Area (PPA) that includes a strategy for assuring the long-term integrity of the agricultural resources in this area (Agriculture Article 2-518 and State Finance and Procurement Article 5-408, modified by House Bill 2 in 2006). The county established a PPA in 2010 with adoption of a Priority Preservation Areas Element. The PPA established was 195,332 acres and at that time 53,724 acres, approximately 28% of the PPA, was protected land. In the 15 years since that time over 25,000 additional acres of farm and forested land have been protected. It's also important to note that during that period under 3,000 acres of land were converted to residential use. Table 9-1. Residential Land Use and Land Protected in Priority Preservation Area (PPA) shows acres subdivided and acres protected during the period of 2018 – 2024.

Figure 9-2. depicts the boundaries of the updated PPA, which has been expanded to include the entire Bishopville-Showell Rural Legacy Area that was established in 2024. The new PPA is 206,208 acres, 67% of the county's total area. 81,284 acres of the PPA (39%) are "prime farmland".

Table 9-2. provides data on land use in the PPA. Approximately 94% of the PPA is undeveloped. **Table 9-3.** provides a breakdown of protected land in the PPA. Approximately 38% of the PPA is already

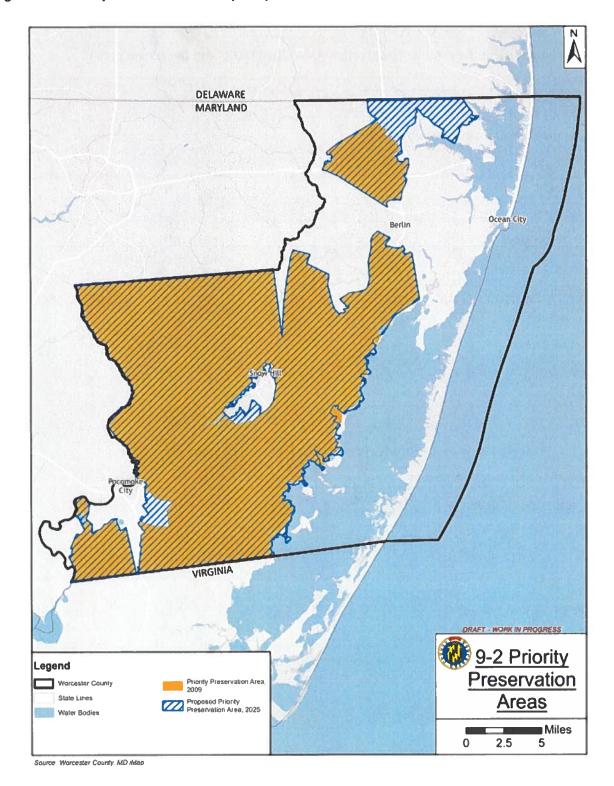


protected through state-ownership, conservation easements or other permanent mechanisms. The state requires that the acreage goal for land protection within the PPA be equal to at least 80% of the remaining undeveloped land in the area. To meet this goal, at least 165,000 total acres should be protected. Since 79,192 acres are already protected, 85,808 acres would need to be protected in the PPA to achieve 80% protection. Protection of this acreage and minimization of fragmentation is necessary to allow for continued function of the poultry industry, which is increasingly challenged by residential development in rural areas across Delmarva, as well as ensure adequate prime and farmable soils available to meet future market demands for food and other crop products. Dust, odor, chemical applications, noise and other activities associated with farming create conflicts with residential development, which can ultimately harm the industry.

A large base of forestland will be important to meet future needs for forest products, as well as protect air and water quality for county residents and visitors. Fortunately, a base of good forestland is already protected in the PPA. Most of the 38,400 acres of state-held land is forested. As noted above, 116,000 acres of the PPA are forested. Figure 9-2. depicts the PPA boundary and generalized land cover.



Figure 9-2. Priority Preservation Areas (PPAs)



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The county's land use plan map found in **Chapter 4 – Land Use** is consistent with the PPA. All growth areas are outside the boundary of the PPA. All areas within the PPA are identified as "Agriculture" or "Green Infrastructure".

Table 9-2. Land Use in the Priority Preservation Area (2010 MDP Land Use/Cover data)

Land Use Category	Acres	
Low-Density Residential/Large-lot subdivision	8,702	
Medium to High-Density Residential	140	
Commercial	369	
Industrial	162	
Institutional	192	
Open Urban Land	501	
Wetland	6,020	
Bare Ground/Extractive	339	
Open water	1,850	
Forest or Brush	116,000	
Cropland/agricultural use	71,945	
Roads	289	

Table 9-3. Protected Land in the Priority Preservation Area, as of September 2025

Land Protection Program/Owner	Acres	
The Nature Conservancy	5,426	
Rural Legacy Program Easement	13,467	
Deed Restricted Private Land	412	
MALPF Easement	10,740	
CREP Permanent Easement	655	
DNR-held Conservation Easement	5,285	
Forest Legacy	95	
State-owned Lands	38,777	
Other Lower Shore Land Trust Easement	1,946	
County-owned Lands	500	
WRE/WRP Easement	1,889	
Total	79,192	



Implementation

Worcester County has protected, on average, approximately 12,340 acres of farmland/productive forestland from 2009 to 2025, through the Rural Legacy and MALPF programs, the vast majority within the Priority Preservation Area (PPA). The county's stated goal has been to protect 1,000 acres annually within the PPA and the county protected an average of 823 acres annually.

MALPF

Created by the General Assembly in 1977, Maryland Agricultural Land Preservation Foundation (MALPF) purchases agricultural preservation easements that forever restrict development on prime farmland and woodland. Worcester County continues to have a "certified" agricultural land preservation program (as of July 1, 2004). This allows the county to retain additional transfer tax and access additional state funding match for purchase of agricultural easements through the Maryland Agricultural Land Preservation Foundation.

The pace of land protection increased significantly since 2009. From 2009 to 2025, 5,774+/- acres (37 properties) were protected with MALPF easements, or about 385 acres protected annually. Worcester County's approach to ranking that prioritizes discount offers along with other factors, has increased acreage protected. MALPF's "round 2" funding cycle prioritizes bargain sales, and Worcester County landowners have increasingly received "round 2" offers due to its competitive bid process. Worcester County also provides cash match from the agricultural land transfer tax, revenue collected by the county, as well as allocates funds most years from the county general fund. These funds are matched by MALPF on a 60/40 basis. This has allowed for additional MALPF easement purchases and has been necessary for the county to meet minimum acreage protection goals. The county should continue to provide an annual cash match to MALPF and consider establishing a farmland conservation fund that would support easement purchases.

Rural Legacy

The Rural Legacy Program was created to discourage sprawl development and protect areas, designated by local government, for future generations to enjoy. The Program provides farmers and landowners an alternative to developing (or subdividing) their land or selling their property to developers. The program also supports protection of water quality and habitat through additional protections including vegetative buffers and limitations on impervious surface. Under the Program landowners can sell or donate their development rights and still retain ownership to continue growing crops or limited raising of livestock (similar to the MALPF program). Worcester County's Coastal Bays Rural Legacy Area, which includes the entire Chincoteague Bay shoreline and watershed, lower Pocomoke River watershed, and connects the Chincoteague Bay to the Pocomoke State Forest with a permanent "greenway", is approximately 45,945 acres in size (expanded in FY2019). 18,000 acres+ are permanently protected, either by state ownership or privately owned land under conservation easement. Approximately 10,000 acres are protected with a Coastal Bays Rural Legacy easement as of October4, 2025. Due to difficulty finding remaining interested landowners, the county is focusing on the other two Rural Legacy Areas: Dividing Creek RLA and Bishopville-Showell RLA.

Dividing Creek Rural Legacy Area was created in 2008 in partnership with Somerset County, The Nature Conservancy and Lower Shore Land Trust. The boundary was expanded in 2019 in both counties. In Worcester County it includes the entire Dividing Creek watershed, portions of the Nassawango Creek watershed, and upper Pocomoke River shoreline and watershed. The Dividing Creek and Nassawango



watersheds are an area of Maryland recognized by The Nature Conservancy as high in biodiversity. The Dividing Creek Rural Legacy Area is also an area with productive and contiguous farmland. The Area is 55,526 acres in size, including both counties. Protection of the first Dividing Creek Rural Legacy Area easement in Worcester County occurred in 2009. Fourteen (14) properties have been protected in Worcester County to date, totaling over 3,500 acres.

The Bishopville-Showell Rural Legacy Area was established in 2024. The Area is 11,743 acres and contains important farmland under significant development pressure. It includes lands surrounding the unincorporated villages of Bishopville and Showell. Already multiple uses, some not compatible with agriculture have occurred in this area. Many of the farms are small, so unable to participate in MALPF, which requires a minimum of 50 acres to enroll. Protection of the remaining farms in this Area is needed to maintain the rural landscape. To date one easement has been purchased.

Donated Conservation Easements

Worcester County is served by the Lower Shore Land Trust, a non-profit organization that works in cooperation with the Maryland Environmental Trust to obtain donated permanent conservation easements in rural areas. Over 1,900 acres in Worcester County are protected by a donated conservation easement, held by the Lower Shore Land Trust and Maryland Environmental Trust. Landowners who donate have access to certain tax benefits.

Land Use Management

Worcester County's zoning code, and specifically the A-1 and RP zones as currently established, protects rural areas from irreversible, sprawl development that would negatively impact farming and forestry. Worcester County has not mapped any areas where major subdivisions may be developed on septic systems. These policies should continue.

Value-added processing, agro-tourism, continuing education for farmers, and educating county citizens on the value of supporting local farms are supportive actions that can be taken to keep farming viable. Value-added retail and agro-tourism are permitted by special exception in the A-1 zone, there are many roadside farm stands permitted throughout the county in several zoning districts, although exact numbers are not available. The A-1 zoning code allows farm owners to hold special events in their principally agricultural structures, thus allowing temporary/short-term uses that do not impact farming, but provide income, and may also help connect the public to the agricultural landscape and products. Farm breweries have emerged as a new growth area that the county supports through zoning policies.

Challenges

It's important to identify the challenges the agricultural sector/rural land faces and will face in the coming years. Farming is dynamic—the industry is continually affected by economic and regulatory factors, changes in population and land use and innovations in technology. Along with the threat of fragmentation and loss of farmland due to encroachment of other land uses, the poultry and associated feed industry are facing other issues. Saltwater intrusion and land loss is already occurring on the Delmarva peninsula and anticipated to continue to impact low lying land, including in Worcester County. This makes the soil unproductive as farmland or woodland transforms into marsh or open water. Storm surges exacerbate this. Drought conditions may increase in intensity and duration in the future, stressing both poultry and crops. Agricultural practices continue to trend towards intensification and



higher productivity, with yields per acre up 70% from 1982 to 2022¹⁴. While efficiency has also increased, balancing production with water quality protection will continue to pose a significant challenge. The poultry industry contends with economic issues including inflation, global trade conflicts, and avian influenza. The forestry industry faces declining forest markets. Pests and invasive plants pose threats to native vegetation. Continued parcelization of forested land poses a challenge for forest management, as many private forest owners may not use professional services to assist with sustainable management, and management of smaller woodlots can be more challenging. All of these challenges will require creative solutions, many at the local level.

¹⁴ Delmarva Land and Litter Collaborative.

8. NATURAL RESOURCES

Introduction

Natural resources and sensitive areas including streams, coastal bays, wetlands and their buffers, floodplains, habitats of threatened or endangered species, agricultural and forested lands, and many other protected areas and resources are important to the County to promote tourism, support forestry, agricultural, and fishing industries, and are essential to the County's quality of life and appeal for residents and visitors alike. However, these sensitive areas can be vulnerable to adverse impacts from development activities, residential and tourist use, and sea level rise. This Environmental Resources and Sensitive Areas chapter provides information and guidance on protecting these natural resources and sensitive areas. This chapter has been prepared considering the State of Maryland's Twelve Planning Visions, particularly the visions related to environmental protection, resource conservation, quality of life, and sustainability.

Goals and Objectives

Worcester County recognizes the importance of protecting its natural resources and will continue to do so by establishing and strengthening regulations and preparing for the future as climate change becomes an increasing threat. The County has developed several goals and recommendations that are discussed in more detail below:

- 1. Implement resource protection, conservation, and preservation strategies that promote high water quality and protect aquatic life and ecological function throughout Worcester County.
 - Action Item 8.1.1: Continue to monitor state and federal regulation changes with respect to natural resources protection and update the County code, as necessary.
 - Action Item 8.1.2: Continue the County's participation as a partner working within the Maryland Coastal Bays Program's Comprehensive Conservation and Management Plan (CCMP) for the restoration and protection of the Atlantic Coastal Bays.
 - Action Item 8.1.3: Adopt updated critical area map and continue to implement the Critical Area Program to minimize adverse effects of human activities on water quality and natural habitat and allow for development in a sensitive manner.
 - Action Item 8.1.4: Support State programs for the protection and the restoration of wetlands and consider a no net loss policy.
- 2. Undertake land preservation and other efforts to preserve and expand open space, forests and other "greenways" to protect habitat diversity, create biodiversity corridors, and provide contiguous areas for safe movement of people and animals throughout the County.
 - Action Item 8.2.1: Use codes and plan reviews to ensure native, non-invasive vegetation
 is preserved and/or planted along waterways, and within parks, open spaces, and
 public rights-of-way to the extent practicable.
 - Action Item 8.2.2: Establish and implement an invasive species removal program and focus on planting native species within natural areas and forest lands.

8. NATURAL RESOURCES

- Action Item 8.2.3: Support the continued implementation of the Forest Mitigation Plan and Accounting Procedure.
- Action Item 8.2.4: Consider establishing a specific no net loss of forest policy for the County within the requirements of the revised state Forest Conservation Act (FCA) law.
- Action Item 8.2.5: Permanently preserve agricultural land capable of supporting agricultural production.
- Action Item 8.2.6: Protect natural, forestry, and historic resources and the rural character of the landscape associated with farmland.
- Action Item 8.2.7: To the greatest degree possible, concentrate preserved land in large, contiguous blocks to effectively support long-term protection of resources and resource-based industries.
- 3. Prepare for and protect against impacts to natural resources, people, and infrastructure from Climate Change and sea level rise.
 - Action Item 8.3.1: To accommodate storm surges, nuisance flooding, rising sea levels, and climate change, prevent development in mapped flood zones and evaluate the appropriateness of going beyond FEMA requirements to consider additional restrictions based on projected sea level rise.
 - Action Item 8.3.2: Adopt local mitigation, floodplain management, and outreach
 activities that exceed the minimum National Flood Insurance Program (NFIP) and allow
 for the application for Community Rating System (CRS) participation through the
 Federal Emergency Management Agency (FEMA).
 - Action Item 8.3.3: Review the CoastSmart CS-CRAB boundary and ensure projects that
 are regulated under CoastSmart apply the correct horizontal limits of floodplains for
 consideration during design.
 - Action Item 8.3.4: Complete an updated inventory of eroding shorelines and consider stabilization methods to mitigate erosion for the most critical areas, with nonstructural or living shoreline approaches preferred.
 - Action Item 8.3.5: Complete an inventory and assess vulnerability of older commercial
 and residential structures to prepare for the anticipated higher frequency of heavy
 rainfall events and sea level rise.
 - Action Item 8.3.6: Direct concentrated growth away from vulnerable areas to planned growth areas to protect environmental resource and take advantage of adequate and adjacent water and infrastructure to accommodate residential and commercial expansion in an orderly, cost-effective and environmentally sustainable manner.
 - Action Item 8.3.7: Educate public on Maryland's new requirements for energy usage performance reporting.
 - Action Item 8.3.8: Educate residents on how to deal with heat waves and erratic weather to help prepare for such events and prevent the dangers of high temperatures.

8. NATURAL RESOURCES

Guiding Principles and Legislation

The guiding principles set forth in this plan help to foster protection, preservation, and conservation of natural resources and sensitive areas. Adhering to these principles provides for management of existing and future development in a way that sustains current and future populations, the environment, and the county's economic vitality. These guiding principles include:

- Careful management of natural resources and sensitive areas with goals of restoring and maintaining healthy natural systems.
- Focusing future growth within existing growth areas to ensure protection of natural resources and sensitive areas and to create resilient communities.
- Leveraging existing environmental programs and establishing new initiatives that foster universal stewardship of natural resources and sensitive areas, resulting in sustainable communities and protection of the environment.
- Collaboration with government, businesses, and residents for creation and maintenance of hazard-resilient communities that balance sustainable growth and resource protection.
- Encouraging opportunities with respect to the County's tourism and resource-based economy.

Legislation and Policies

The State's Land Use Article, which incorporates the provisions of the 1992 Economic Growth, Resource Protection, and Planning Act, requires local governments to include a "Sensitive Areas" element in their Comprehensive Plans. This element must include goals, objectives, principles, policies, and standards designed to protect the following sensitive areas from the adverse impacts of development:

- Streams or wetlands and their buffers
- Floodplains
- Habitats of threatened or endangered species
- Steep Slopes
- Agriculture or forest lands intended for resource protection or conservation
- Other areas in need of special protection

Maryland Land Use Article also requires comprehensive plans to include a Mineral Resources Element. The element must incorporate land use policies and recommendations for regulation necessary:

- To balance mineral resource extraction with other land uses.
- To the extent feasible, prevent the preemption of mineral resource extraction by other uses.

The County has a comprehensive program in place to protect natural resources and sensitive areas, including adherence to State and federal regulations and protections within the County ordinances and the development code. The County will monitor State and federal regulation changes with resource to natural resources and sensitive areas protection and will update ordinances, as necessary.

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Federal and State Regulations

- Clean Water Act, Section 404. The US Army Corps of Engineers (USACE) regulates the discharge of dredged or fill material into wetlands. The USACE district office determines whether various activities such as placement of fill material, levee and dike construction, mechanized land clearing, land leveling, transportation infrastructure construction, and dam construction require a permit.
- **Endangered Species Act.** The primary purpose of this Act is to protect wildlife, fish, and plants that are listed as threatened or endangered species by prohibiting their import or export and by preparing plans for their recovery.
- Maryland Department of the Environment, Land Management Administration (LMA). The LMA is
 responsible for licensing and permitting processes associated with mining activities, sewage sludge
 utilization, refuse disposal, groundwater discharge permits for rubble landfills, and other related
 permitting to protect the environment.
- Maryland Forest Conservation Act. The main purpose of this Act is to minimize the loss of
 Maryland's forest resources during land development by making the identification and protection of
 forests and other sensitive areas an integral part of the site planning process. Depending on the type
 or size of proposed development, Forest Stand Delineations and Forest Conservation Plans may be
 required
- Maryland Non-tidal Wetlands Protection Act. The Maryland Department of the Environment (MDE),
 Nontidal Wetlands and Waterways Division ensures there is no overall net loss of non-tidal wetland
 acreage and reviews the following construction activities: grading or filling, excavating or dredging,
 changing the existing drainage pattern, disturbance of water levels or water table, or destroying or
 removing vegetation. Permits are required for activities that alter a non-tidal wetland or wetland
 buffer.
- Chesapeake Bays and Coastal Bays Critical Areas Program. The Maryland General Assembly passed the Chesapeake Bay Critical Area Protection Program legislation in 1984 due to the decline of certain Chesapeake Bay natural resources. The Act was amended in 2002 to include the Maryland Atlantic Coastal Bays. The Critical Area includes all land within 1,000 feet of Maryland's tidal waters and tidal wetlands. It also includes the waters of the Chesapeake Bay, the Atlantic Coastal Bays, their tidal tributaries, and the lands underneath these tidal areas. As a result, each Maryland county and municipality fronting the Bay or its tributaries had to adopt a local Critical Area Plan and development ordinances, based on criteria established by the Critical Area Commission, which required that new development within the Critical Area minimize impacts on the Bay's water quality and plant, fish, and wildlife habitat.
- Maryland Tidal Wetlands Act. MDE manages tidal wetlands and provides resource protection for the
 activities such as filling open water and vegetated wetlands, construction of piers, bulkheads,
 revetments, dredging, and marsh establishment.
- Maryland's Stormwater Management Act of 2007. These regulations, effective May 4, 2009, require Environmental Site Design (ESD) through the use of nonstructural best management practices and other better site design techniques to be implemented to the maximum extent practicable.
- Policy for Nutrient Cap Management & Trading. MDE has developed this policy to support restoration of the Chesapeake Bay watershed while accommodating expected population growth.



While the trading regulations presently apply only to the Chesapeake Bay basin, Worcester County has requested the extension of nutrient trading regulations to the Atlantic Coastal Bays watershed.

- Water Quality Infrastructure Program. This program, administered by MDE, provides grants and loans for sewage treatment and drinking water system upgrades through the State's Biological Nutrient Removal (BNR) Cost-Share Grants Program, Supplemental Assistance Program, and State Revolving Loan Fund (SRF).
- Living Shorelines Protection Act. The Living Shorelines Protection Act of 2008 requires Maryland shoreline property owners to use natural materials to prevent erosion, except in areas where it can be demonstrated that these measures are not feasible. In making feasibility determinations, MDE considers areas of excessive erosion, areas subject to heavy tides, and areas too narrow for effective use of nonstructural measures. The goal of the act is to help communities become more resilient to climate change.
- Robert T. Stafford Disaster Relief & Emergency Assistance Act. In 2000, the Stafford Act enacted the Disaster Mitigation Act and, by FEMA's Interim Final Rule published in 2002, established in the Maryland Code that each Maryland jurisdiction adopt and maintain a Hazard Mitigation Plan (HMP). The HMP ensures eligibility for funding and technical assistance from State and federal hazard mitigation programs. It addresses natural hazards determined to be of high and moderate risk as defined by the updated results of the local hazard, risk, and vulnerability summary. Natural hazards continue to be evaluated during 5-year update cycles and include sea level rise and coastal resiliency planning priorities.
- Chesapeake Bay Restoration Act. This Act and subsequent policies, programs, and regulations
 address Bay restoration. This Act established the Chesapeake Bay Restoration Fund administered by
 MDE for upgrading the 66 largest wastewater treatment plants to Enhanced Nutrient Reduction
 (ENR) standards. This Act established the Septic Upgrade Program to remove nitrogen, and the fee
 paid by onsite sewage disposal system (OSDS) or septic users to fund the upgrade of septic systems
 with nitrogen-reducing technologies through the Septic Upgrade Program as well as connections of
 septic systems to sewers.
- Maryland Model Floodplain Management Ordinance (FPMO). MDE prepared the Maryland Model FPMO (January 2018) in response to the requirement that local jurisdictions adopt regulations that are fully compliant with the requirements of the National Floodplain Insurance Program (NFIP). For most communities, the requirement to update regulations is triggered by revisions to the Flood Insurance Rate Maps (FIRMs) and associated Flood Insurance Study (FIS).
- Maryland Coastal Bays Program. The Maryland Coastal Bays Program is one of the 28 National Estuary Programs receiving EPA funding for the restoration and protection of "estuaries of National significance." This grassroots, multi-stakeholder program collaborates to restore and protect the Maryland Coastal Bays watershed, which supports abundant wildlife, aquatic resources, and serves as a unique opportunity for tourists and residents to relax and recreate (the watersheds are both rural and urban). The towns of Ocean City and Berlin cooperate with the National Park Service, Worcester County, the EPA, and the Maryland Departments of Natural Resources, Agriculture and Environment and Planning to establish and implement a comprehensive plan (CCMP) for management of this sensitive resource.

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- Rural Legacy Program. The Rural Legacy Program was created to discourage sprawl development and protect areas, designated by local government, for future generations to enjoy. Under the program, landowners sell or donate their development rights as an alternative to developing or subdividing their land or selling their property to developers. This option provides farmers and landowners the ability to retain ownership to continue growing crops, harvest timber or limited raising of livestock (similar to the MALPF program). Purchasing and placing perpetual easements also helps to protect natural resources in areas identified as particularly important to conserve, therefore supporting protection of water quality and habitat through additional protections including vegetated buffers and limitations on impervious surface. In Worcester County specifically, these easements provide habitat and water quality benefits to the Coastal and Chesapeake Bays and the local watersheds. This program is funded through DNR Project Open Space Funds and State general obligation bonds. Worcester County has developed three Rural Legacy Areas (RLAs): The Coastal Bays (Chincoteague Bay Watershed) RLA, established in 1999, The Dividing Creek RLA, established in 2008, and the Bishopville-Showell RLA, established in 2024. To date, the County has protected over 13,300 acres of farmland and forests. The county has a goal of protecting an additional 2,000 acres within each Rural Legacy Area within the next 10 years.
- Watershed Planning. Watershed restoration plans (WRAS) have been completed for the Isle of Wight, Newport and Sinepuxent Bay subwatersheds. These documents provided a strategy for watershed protection and improvement, and outline locations and priorities for land use, best management practices (BMPs) and restoration of wetlands, habitats, and waterways. The WRAS program in Maryland has been molded into the WIP Phase III program for Chesapeake Bay watershed, and as part of the combined Coastal Bays Watershed Plan prepared in 2019 for the Atlantic Coastal Bays Watersheds for TMDL compliance as there was no comparable plan enacted for WIPs for the Coastal Bays. The Assawoman Watershed component of that plan has received plan approval from MDE and the EPA, making it eligible for Section 319 grant funding.
- Maryland Environmental Trust. The Maryland Environmental Trust (MET) was created in 1967 to protect Maryland's natural environment and is the state's primary recipient of donated conservation easements. MET is affiliated with the Maryland Department of Natural Resources (DNR) and governed by a citizen board of trustees. It is one of the oldest and largest land trusts in the country and has protected over 129,000 acres of scenic open space, primarily with donated conservation easements. It seeks to protect farms and forest lands, wildlife habitat, waterfront acreage, natural areas, historic sites, and valuable scenic features. MET and its cooperating local land trusts prefer to accept donations on lands greater than 25 acres, though there is no fixed minimum parcel size. Donations are accepted throughout the year. A property owner may benefit from a donated conservation easement by the federal income tax deduction, the Maryland property tax credit, the Maryland income tax credit, and through estate tax savings. MET promotes the protection of natural, historic and scenic resources through its Land Conservation Program, Stewardship Program and Land Trust Assistance Program and provides grants to non-profit organizations for environmental education projects through its Keep Maryland Beautiful Program. In Worcester County, most easements held by MET are co-held by the Lower Shore Land Trust.
- Maryland Agricultural Land Preservation Foundation. The Maryland Agricultural Land Preservation Foundation (MALPF) purchases agricultural preservation easements that forever restrict

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development on prime farmland and woodland. Worcester County continues to have a "certified" agricultural land preservation program (as of July 1, 2004). This allows the county to retain additional transfer tax and access additional state funding match for purchase of agricultural easements through MALPF.

County Regulations

The following is a list of key County code sections that pertain to natural resources and sensitive areas:

- NR 1-III: Agricultural Land Preservation. Agricultural land preservation program that protects agricultural land and woodland from development. This program allows owners of qualifying land to sell easements to the state, permanently protecting their land for agricultural use. Efforts to preserve agricultural land also leads to the protection of wildlife and the environmental quality of the Chesapeake and Coastal Bays and their many valuable tributaries.
- NR 1-IV: Forest Conservation. The Worcester County Forest Conservation Law was enacted under the Maryland Forest Conservation Act, which requires all county governments to adopt local forest conservation programs. The purpose of the Worcester County Forest Conservation Program is to "preserve, protect, and establish forest areas in conjunction with certain land development activities."
- NR 2-I: Shoreline Construction. The Natural Resources Division of the Department of Environmental Programs is responsible for all aspects of the Shoreline Construction process. These responsibilities include the intake, review, and approval of applications during the beginning stages of the project and also subsequent permitting and inspections duties that occur during the construction and/or installation of improvements to ensure they are completed in accordance with their approved plan and building standards.
- NR 3-I: Coastal Bays Critical Area. The County completed a comprehensive update of the Critical Areas ordinance in July 2024 with Bill No. 24-05. This update included all state regulatory changes relevant to the Critical Areas law and combined the Atlantic Coastal Bays and Chesapeake Bay codes into a single ordinance.
- BR 2-III: Floodplain Management. The purpose of this Chapter is to protect human life, health, and welfare; encourage utilization of construction practices to prevent or minimize future flood damage; minimize flooding of water supply and sanitary sewage disposal systems; maintain natural drainage; reduce financial burdens by discouraging unwise design and construction in areas subject to flooding; minimize need for rescue and relief efforts associated with flooding; minimize prolonged business interruptions; minimize damage to public facilities and utilities; reinforce those building in and occupying special flood hazard areas should assume responsibility for their actions; minimize impact of development on adjacent property within and near flood prone areas; provide and maintain flood storage and conveyance functions; minimize development impact on the natural and beneficial functions of floodplains; prevent floodplain uses that are hazardous or environmentally incompatible; and meet participation requirements of the National Flood Insurance Program (NFIP).

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Significant Updates Since the 2006 Comprehensive Plan

Since the adoption of the 2006 Comprehensive Plan, Worcester County has adopted and passed multiple environmental resolutions and bills. These include:

- The 2006 Comprehensive Plan Amendments. The 2006 Comprehensive Plan was amended in 2009 to add a Priority Preservation Areas Element (PPA) to identify specific areas of the county where agricultural land preservation is highest priority, to institutionalize the County's certified Agricultural Preservation Program and further the county's conservation objectives to ensure the long-term viability of agricultural and forestry resources in the County. The plan was also amended in 2011 to add a Water Resources Element (WRE) which detailed examinations on suitability of water and water resources that will be adequate for the needs of existing and future development proposed in the Land Use Element of the Comprehensive Plan.
- Resolution 12-7 Adopting 2012 Land Preservation, Parks and Recreation Plan. The County updated and replaced the 2006 Plan, which identifies specific actions for improving parks, recreation, and open space preservations in Worcester County. Plans were also adopted in 2017 and 2023.
- Resolution 14-22 Adopting 2014 Hazard Mitigation Plan Update. The County updated and replaced the 2006 Hazard Mitigation Plan to include new data, mapping, HAZUS Level 2 Analysis, status of 2006 recommendations and new Mitigation Strategies and Actions.
- Resolution 18-6 Adopting 2017 Land Preservation, Parks, and Recreation Plan. The County updated and replaced the 2012 Plan.
- Resolution 18-10 Adoption of Hurricane Evacuation Zone Maps Under FEMA's Know Your Zone
 Program. Developed and adopted Hurricane Evacuation Zone Maps in support of the Know Your
 Zone Program to help educate the public on knowing when to evacuate a specific area in the event
 of a hurricane or other critical emergency.
- Resolution 19-4 Adopting Revisions to 2017 Worcester County Land Preservation, Parks and Recreation Plan. The County adopted proposed revisions to the 2017 Plan, including an updated total acreage of land protected by Lower Shore Land Trust.
- Resolution 20-31 Adopting the 2020 Worcester County Hazard Mitigation and Resilience Plan. The County adopted the 2020 Worcester County Hazard Mitigation and Resilience Plan, which identifies various hazard types, associated risks, and ways to address vulnerabilities.
- Resolution 22-3 Modifying the Land Classification Designation for a Single Property in the Atlantic
 Coastal Bays Critical Area to Correct a Mapping Error. The County amended a mapping area for a
 property in the Coastal Bays Critical Area. The land use classification for this property was amended
 from Resource Conservation Area (RCA) to Limited Development Area (LDA).
- Bill 20-3 Natural Resources Special Events in Resource Conservation Areas. Establishes certain standards for events within Resource Conservation Areas of the Atlantic Coastal Bays Critical Area, including: activities must generally occur outside of the buffer area, and requiring compliance with and protection of Habitat Protection Areas.
- **Bill 20-4 Natural Resources Forest Conservation Law.** Repealed and reenacted a subsection of the Worcester County Forest Conservation Law regarding the amount of payment in lieu of afforestation and reforestation to require a person subject to this law to demonstrate to the satisfaction of the

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Department that they are unable to accomplish afforestation or reforestation onsite or offsite and appropriate credits generated by a forest mitigation bank in the County or in the same watershed are not available, before they shall be permitted to contribute money into the Forest Conservation Fund. Also established a rate of thirty and one half (30.5) cents per square foot for payments in lieu of afforestation and reforestation for projects located within a priority funding area, and 120 percent of the aforesaid rate for projects located outside a priority funding area, and provided that said rate may be adjusted annually for inflation.

- Bill 21-8 Natural Resources Critical Area Law. Various changes were made to the Critical Area Law
 as written in the Worcester County Annotated Code, primarily to update it to reflect current State
 regulations.
- Bill 23-09 LRPRP Update. This update reflected MDOT bikeways grant for 611 and the shared use path network along with new analysis and goals discussion and a revised Capital Improvements Program (CIP) that includes information from municipalities. The update also summarized public feedback on recreational/open space needs, updated parks and recreation inventory, and provides a level of service, proximity analysis and equity analysis to identify deficiencies and support the CIP.
- Bill 24-05 Natural Resources Worcester County Critical Area Law. Amended the Worcester County Chesapeake and Atlantic Coastal Bays Critical Area Law to update and combine the Chesapeake and Atlantic Coastal Bays and their tributaries to comply with State law.

Physiography

Worcester County is part of the Delmarva Peninsula, the three-state region named for the states of Delaware, Maryland, and Virginia. This peninsula is the largest on the East Coast at 170 miles in length and 70 miles in width. Worcester County is the seventh largest County in Maryland with a land area of 490 square miles. Adjacent to the Atlantic Ocean, Worcester County provides Maryland's only ocean beach frontage with 31 miles of beach. The County's Coastal Bays afford protection for aquatic resources, support abundant wildlife, and offer recreational benefits for tourists and residents. In the western portion of the County, the Pocomoke River serves as a navigable waterway connecting to the Chesapeake Bay.

The County is in the Atlantic Coastal Plain geophysical region of the State of Maryland. The Atlantic Coastal Plain is the largest physiographic province in Maryland and is underlain by a wedge of unconsolidated sediments including gravel, silt, sand and clay (Map 8-1 Geology). This wedge thickens as you travel eastward to the Atlantic coastline. Mineral resources are mainly sand and gravel, which are often used by the construction industry as aggregate materials. The landforms of the Coastal Plain have an important effect upon the retention and infiltration of rainfall, the hindrance of runoff, and the discharge of groundwater by evapotranspiration.

Land elevation in the County ranges from sea level to approximately sixty feet. The topography is level to gently rolling, with most of the land lying between twenty- and forty- feet above sea level. Coastal Bay tributaries in the east provide surface drainage with the St. Martin's River provides drainage for the northernmost party of the County, and the Pocomoke River and its tributaries drain the remaining two-thirds of the County.

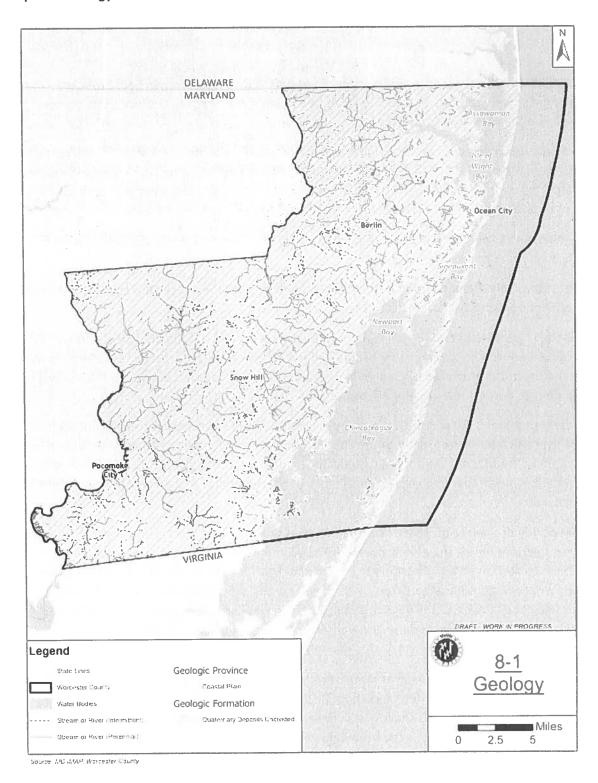
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The Coastal Bays and their tributaries cut across a number of different historical geologic formations. The primary formations – the Omar, Ironshire, and Sinepuxent formations – were deposited and eroded as sea level rose and fell during the glacial and intervening intergalactic episodes of the Pleistocene. The most recent Quaternary deposits represent tidal marshes that developed during the most recent sea level rise or transgression, which began approximately 18,000 years ago. All these formations have one thing in common: they are composed of unconsolidated sediments, such as gravel, sand, silt and clay. While the sediments are compacted, they have not been lithified or turned into rock and are therefore easily eroded.

The Coastal Bays are bordered on the east by two barrier islands, Fenwick, and Assateague, which serve as major tourist attractions. These barrier islands enclose five bays: Assawoman Bay, Isle of Wight Bay, Sinepuxent Bay, Newport Bay, and Chincoteague Bay. Coastal processes operating along the barrier islands, particularly episodic storms that move sediment from the ocean side to the bay side of the islands or that open inlets through the islands, affect the present day geology of the Bays.



Map 8-1. Geology



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Soils

The most current soil survey data is a product of the National Cooperative Soil Survey (NCSS), a joint effort of the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), other federal and State agencies, and local partnerships. The soil survey data identifies specific soi types and their limitations, which is important in determining whether they can support development. Examples of constraining factors can include steep slopes, wetness, depth to bedrock, frost action, shrink/swell, erosion factors, and flooding.

All seven recognized classes of natural soil drainage are represented in the County: excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. General definitions for each drainage class and the percent of soils in the County associated with each drainage class, as defined by the USDA, are below:

Excessively drained (3 percent): Water is removed very rapidly. The occurrence of internal free water commonly is very rare or very deep.

Somewhat excessively drained (3 percent): Water is removed from the soil rapidly. Internal free water occurrence commonly is very rare or very deep.

Well drained (11 percent): Water is removed from the soil readily but not rapidly. Internal free water occurrence commonly is deep or very deep; annual duration is not specified. Water is available to plants throughout most of the growing season in humid regions. Wetness does not inhibit growth of roots for significant periods during most growing seasons.

Moderately well drained (10 percent): Water is removed from the soil somewhat slowly during some periods of the year. Internal free water occurrence commonly is moderately deep and transitory through permanent rock. The soils are wet for only a short time within the rooting depth during the growing season, but long enough that most terrestrial plants that are not adapted to particularly wet conditions are affected.

Somewhat poorly drained (2 percent): Water is removed so slowly that the soil is wet at a shallow depth for significant periods during the growing season. The occurrence of internal free water commonly is shallow to moderately deep and transitory to permanent. Most terrestrial plants that are not adapted to particularly wet conditions have restricted growth unless artificial drainage is provided. The soils commonly have one or more of the following characteristics: low or very low saturated hydraulic conductivity, a high-water table, additional water from seepage, or nearly continuous rainfall.

Poorly drained (27 percent): Water is removed so slowly that the soil is wet at shallow depths periodically during the growing season or remains wet for long periods. Most terrestrial plants that are not adapted to particularly wet conditions cannot be grown unless soil is artificially drained. The occurrence of internal free water is shallow or very shallow and common or persistent. The soil, however, is not continuously wet directly below plow-depth.

Very poorly drained (22 percent): Water is removed from the soil so slowly that free water remains at or very near the ground surface during much of the growing season. The occurrence of internal free water



is very shallow and persistent or permanent. Most terrestrial plants that are not adapted to particularly wet conditions cannot be grown unless soil is artificially drained. The soils are commonly level or depressed and frequently ponded.

The remainder of the land (22 percent) is not classified by drainage class, as it is water, developed land, or subaqueous.

Table 8-1. Worcester County Soils, groups soil descriptions by their drainage class, which refers to the frequency and duration of wet periods under conditions like those that were present when the soil formed (See Map 8-2, Soils). Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil.



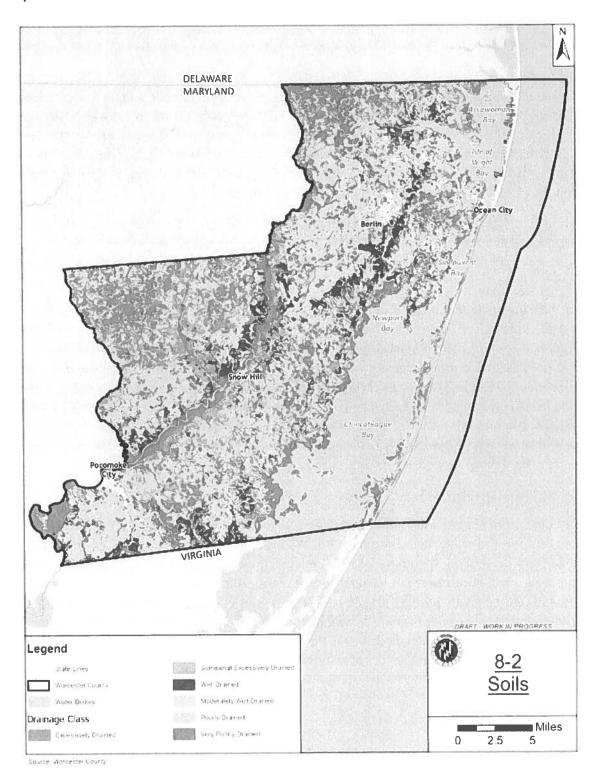
Table 8-1. Worcester County Soils

Drainage Class	Soil Name	
Excessively Drained	Acquango sand, 5 to 10 percent slopes, occasionally flooded; Evesboro loamy sand, 0 to 2, 2 to 5, and 5-15 percent slopes; Runclint loamy sand, 0 to 2 and 2 to 5 percent slopes	
Somewhat Excessively	Cedartown-Rosedale complex, 0 to 2 and 2 to 5 percent slopes; Galestown	
Drained	loamy sand, 0 to 2, 2 to 5, and 1 to 10 percent slopes	
Well Drained	Fort Mott loamy sand, 0 to 2 and 2 to 5 percent slopes; Hambrook sandy loam, 0 to 2 and 2 to 5 percent slopes; Matapeake fine sandy loam, 0 to 2 and 2 to 5 percent slopes; Matapeake silt loam, 0 to 2 and 2 to 5 percent slopes; Nassawango fine sandy loam, 0 to 2 and 2 to 5 percent slopes; Nassawango silt loam, 0 to 2 and 2 to 5 percent slopes; Rosedale loamy sand, 0 to 2 and 2 to 5 percent slopes; Sassafras sandy loam, 0 to 2, 2 to 5, and 5 to 10 percent slopes, Northern Tidewater Area; Udorthents, loamy, 0 to 5 percent slopes	
Moderately Well Drained	Brockatonorton sand, 0 to 2 and 2 to 5 percent slopes, occasionally flooded; Hammonton loamy sand, 0 to 2 percent slopes, Northern Tidewater Area; Hammonton loamy sand, 2 to 5 percent slopes; Mattapex fine sandy loam, 0 to 2 ad 2 to 5 percent slopes; Mattapex silt loam, 0 to 2 and 2 to 5 percent slopes, Northern Tidewater Area; Woodstown sandy loam, 0 to 2 and 2 to 5 percent slopes, Northern Tidewater Area	
Somewhat Poorly Drained	Klej loamy sand, 0 to 2 and 2 to 5 percent slopes	
Poorly Drained	Askecksy loamy sand, 0 to 2 percent slopes; Elkton sandy loam, 0 to 2 percent slopes; Elkton silt loam, 0 to 2 percent slopes; Fallsington sandy loams, 0 to 2 percent slopes, Northern Tidewater Area; Fox Hill sand, 0 to 2 percent slopes, frequently flooded; Hurlock loamy sand, 0 to 2 percent slopes; Othello silt loams, 0 to 2 percent slopes, Northern Tidewater Area; Zekiah sandy loam, frequently flooded	
Very Poorly Drained	Beaches, very frequently flooded; Berryland mucky loamy sand, 0 to 2 percent slopes; Broadkill mucky silt loam, 0 to 1 percent slopes, very frequently flooded, tidal; Boxiron and Broadkill soils, 0 to 2 percent slopes, very frequently flooded, tidal; Chicone mucky silt loam, frequently flooded; Kentuck silt loam; Longmarsh and Indiantown soils, 0 to 1 percent slopes, frequently flooded; Manahawkin muck, 0 to 2 percent slopes, frequently flooded, Northern Tidewater Area; Mullica-Berryland complex, 0 to 2 percent slopes; Nanticoke and Mannington soils, 0 to 1 percent slopes, very frequently flooded, tidal; Puckum muck, 0 to 2 percent slopes, frequently flooded, occasionally ponded; Purnell peat, 0 to 1 percent slopes, very frequently flooded, tidal; Transquaking and Mispillion soils, 0 to 1 percent slopes, occasionally flooded, tidal; Transquaking and Mispillion soils, 0 to 1 percent slopes, very frequently flooded, tidal	

Source: NCSS Web Soil Survey



Map 8-2. Soils



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Mineral Resources

Sand and, to a lesser extent, gravel are the County's only mineral resources. These resources are mined and used for road fill and other construction uses. As of 2024, there were 24 active surface mines in the County.

Surface mining is defined as the breaking of the soil surface to extract or remove minerals. This includes all parts of the extraction or removal process of minerals from their original location, the processing of minerals at the site of extraction, as well as the extraction of sand, gravel, rock, stone, earth or fill from borrow pits for highway construction purposes or other facilities. Surface mining operation permits are issued by MDE. Periodically, site inspections of permitted areas occur to ensure the conditions of the permit, and the accompanying Reclamation Plan, are being fulfilled.

All discontinued surface mining operations are required to be reclaimed per MDE standards. In some cases, discontinued extraction areas transition into wetlands, ponds, and other habitats. Some discontinued areas are actively reused for extraction of dried spoils for wetland and shoreline restoration projects.

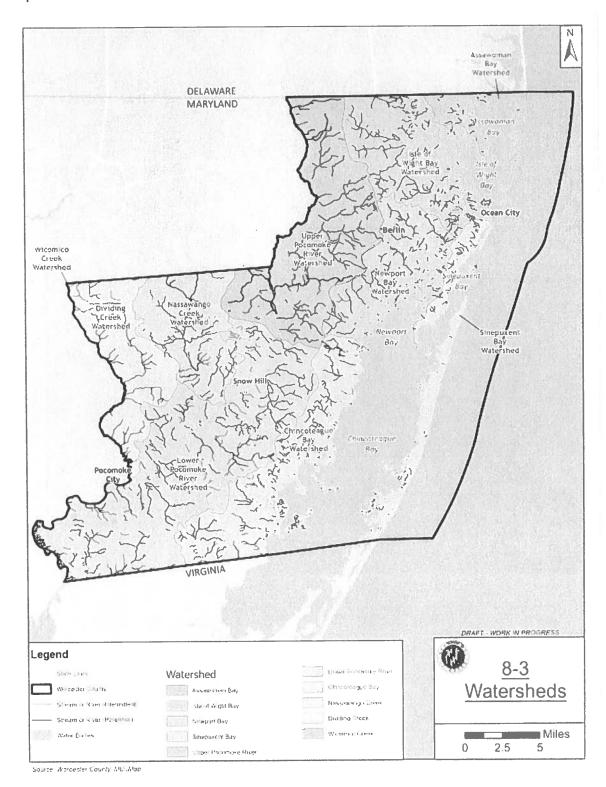
New surface mining operations are permitted within the Critical Area if identification of appropriate post-excavation uses for this land such as recreation, habitat restoration, open space, or development are accomplished according to the appropriate land management classification and other applicable County and State codes and ordinances. New surface mining operations are not permitted in the Critical Area where: important natural resources occur; highly erodible soils exist; the use of renewable resource lands would result in the substantial loss of long-range productivity of forest and agriculture, or would result in a degrading of water quality or a loss of vital habitat; lands are within 100 feet of the mean high water line of tidal waters, tidal wetlands, or the edge of streams. More information on the Critical Area can be found in the **Critical Area** section of this Chapter.

Streams and Stream Buffers

Worcester County contains ten 8-digit watersheds: Assawoman Bay Watershed, Isle of Wight Bay Watershed, Newport Bay Watershed, Sinepuxent Bay Watershed, Upper Pocomoke Bay Watershed, Nassawango Creek Watershed, Wicomico Creek Watershed, Dividing Creek Watershed, Lower Pocomoke River Watershed, and Chincoteague Bay Watershed. These watersheds contain a network of streams, tributaries, and creeks that are used for irrigation, provide important spawning grounds for fish and shellfish, help support other kinds of wildlife, support commercial and recreational fishing and attract outdoor enthusiasts. Map 8-3. Watersheds shows the ten watersheds in the County while Map 8-4. Environmental Features shows the network of waterways throughout the County.

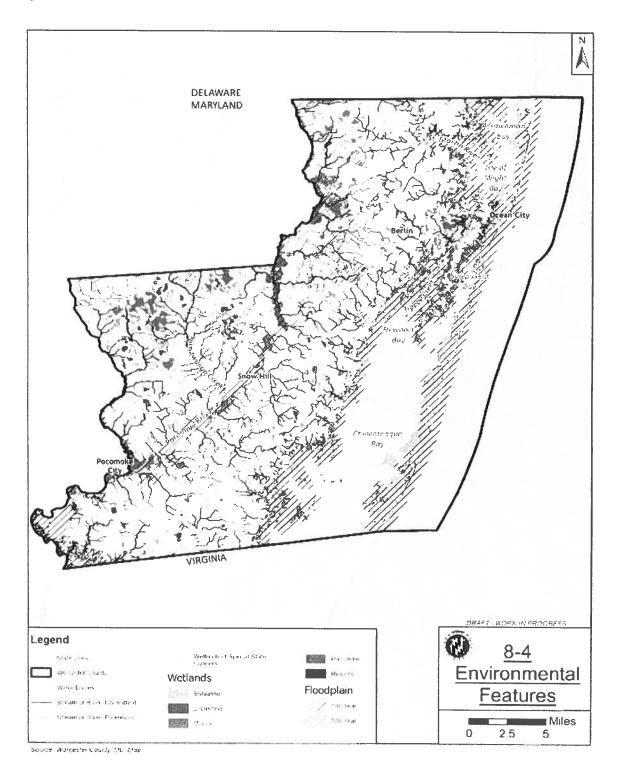


Map 8-3. Watersheds





Map 8-4. Environmental Features



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The Pocomoke River is the main tributary of County's portion of the Chesapeake Bay Watershed. Important tributaries to the Pocomoke River include the Nassawango Creek and Dividing Creek. Associated with the upper Coastal Bays are large tidal tributaries such as the St. Martin River, Turville, and Herring Creeks, and Trappe Creek is a large tidal tributary associated with the lower Coastal Bays. Significant smaller tributaries include Manklin Creek, Greys Creek, Marshall Creek, and Roy Creek. These vital waterbodies are vulnerable to adverse impacts from development activities and certain types of agricultural practices, and their protection and regulation is a vital aspect of County plans.

Streams are categorized by the USACE based on the balance and timing of the stormflow and base flow components. Stormflow refers to streamflow that is influenced by precipitation events, such as rain and snow/snowmelt, while base flow refers to the streamflow that is sustained between those precipitation events. These include:

- Ephemeral streams flow only during or immediately after periods of precipitation. They generally flow less than 30 days per year.
- Intermittent streams flow only during certain times of the year. Seasonal flow in an intermittent stream usually lasts longer than 30 days per year.
- Perennial streams flow continuously during both wet and dry times. Baseflow is dependably generated from the movement of groundwater into the channel.

Stream buffers are areas along the lengths of stream banks established to protect streams from human disturbances. They are defined by the State as an existing, naturally vegetated area or an area established in vegetation and managed to protect aquatic, wetlands, shoreline, and terrestrial environments from man-made disturbances (COMAR 27.02.05).

Stream buffers are a best management technique to reduce sediment, nitrogen, phosphorus and other runoff pollutants by acting as a filter, thus minimizing damage to streams. A healthy stream buffer will hold soil in place, filters stormwater runoff pollutants, can provide a refuge area for threatened animals and plants, hide predators from prey, and keep streams shaded and cool. The effectiveness of a buffer depends on the width and other factors such as soil erodibility, steep slopes, and wetlands. Ideal stream buffers include:

- Stream banks and steep slopes, which should remain intact to prevent erosion from clogging the stream bed and provide habitat for plants and animals.
- Streamside forests and other vegetation to provide habitat and shading, stabilize banks, and produce leaf litter to support microscopic shredders, filter feeders and decomposers that form the base of a healthy stream food chain.
- Floodplains, where most streamside wetlands are formed and where energy dissipation, natural filtration, food storage, and water storage occur.

Worcester County currently does not have a defined width for stream buffers that are not within the County's Chesapeake Bay Critical Area or Coastal Bays Critical Area but will be established with the adoption of the model floodplain ordinance. These programs generally require a minimum 100-foot vegetated buffer extending landward from the tidal water's mean high water line, tidal wetlands and

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tributary streams. It is recommended that the County establish a standard stream buffer of 100 feet for perennial streams and 50 feet for intermittent streams outside of the Critical Area.

Groundwater is a major source of the County's existing and future water supply. The land area that overlays the aquifers that contribute water to the public water supply well is defined as the County's Wellhead Protection Area. The aquifer systems providing the community water supply and the wellhead protection area are integrally connected to many surface waters and streams, making protection of both groundwater and surface waters critical for ensuring public health, safety, and welfare. The designation of Wellhead Protection Area and careful regulation of activities within these districts ensures a future supply of safe and healthy drinking water. For more information on Wellhead Protection Area, see Chapter 11 – Water Resources.

Critical Areas

Both Chesapeake Bay Critical Area and Atlantic Coastal Bays Critical Area are found in Worcester County. The Chesapeake Bay Critical Area was established by the Maryland General Assembly in 1984 due to concern about the decline of water quality and natural resources of the Chesapeake Bay. The Critical Area is denoted as the area of land that exists within 1,000 feet of the mean high-water line of tidal waters of the landward edge of tidal wetlands, and all waters of and lands under the Chesapeake Bay and its tributaries. Worcester County Chesapeake Bay Critical Area begins 1,000 feet beyond the head of the tide at Whiton Crossing and includes about 10,000 acres of the County that lie within the Pocomoke River Watershed. Chesapeake Bay Critical Area maps were initially based on the 1972 State Wetland Inventory maps, with updates made in each jurisdiction by the Critical Area Commission. Current tax maps showing the Chesapeake Bay Critical Area were adopted by the Worcester County Commission in September 2003, but updates have been initiated with DNR.

In 2002, Maryland's General Assembly formally recognized the five Coastal Bays unique to Worcester County and their ecological value. Over the last quarter century, these bodies of water had felt the effects of significant growth along the County's shoreline and needed protection. Like the Chesapeake Bay Critical Area, the Atlantic Coastal Bays Critical Area is denoted as the area of land that exists within 1,000 feet of the head of the tide or tidal wetlands. Current tax maps showing the Atlantic Coastal Bays Critical Area were adopted by the Worcester County Commission in November 2002, but updates hare currently underway with DNR. Both the Chesapeake Bay Critical Area and Atlantic Coastal Bays Critical area will be referred to simply as "Critical Area" for the remainder of this document.

Critical Area is broken up into different designations. These designations are classified by the land's predominant use and intensity of development and is one of the following:

- RCA—Resource Conservation Area. An area characterized by nature-dominated environments
 including wetlands, forests, abandoned fields, and resource-utilization activities (e.g., agriculture,
 forestry, fisheries activities, aquaculture).
- LDA—Limited Development Area. An area that is currently developed with low- or moderate intensity uses, which contains areas of natural plant and animal habitats and where the quality of runoff has not been substantially altered or impaired.



• IDA—Intensely Developed Area. An area where residential, commercial, institutional, or industrial land uses are predominant and where relatively little natural habitat, if any, occurs.

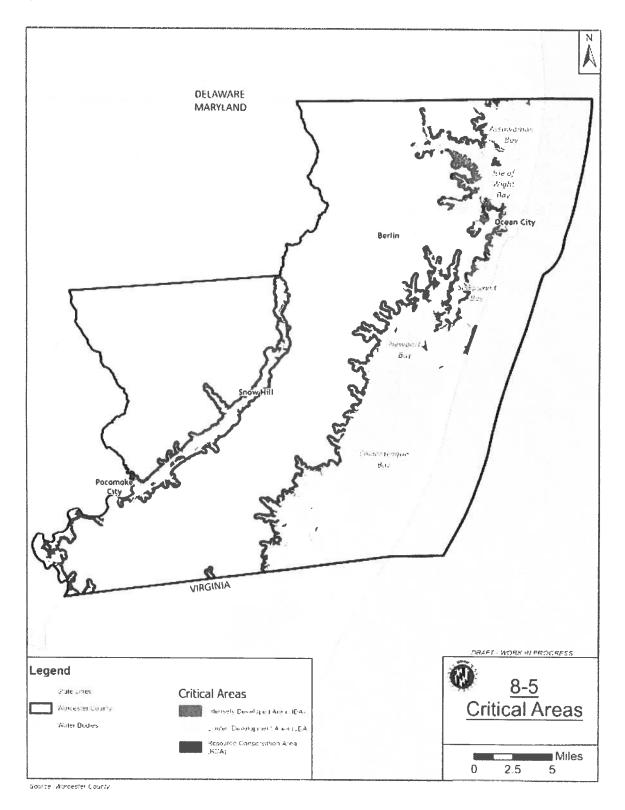
Approximately 57,671 acres of land in the County fall within the Critical Area. While development is not prohibited within the Critical Areas, it is reviewed for compliance with the appropriate designation. The most restrictive is the RCA, which limits densities to no greater than one dwelling unit per 20 acres and limits lot coverage generally to a maximum of 15% of the lot area. These areas are usually undeveloped areas characterized by agricultural use, forests, or other natural resources. Approximately 26,429 acres of the County's land area are designated as RCA.

The density and intensity of use in the LDA and IDA are established by using the underlying zoning classifications. Lot coverage in the LDA is generally limited to a maximum of 15% of the lot area. There are no lot coverage limits within the IDA, but it is required to minimize the destruction of forest and woodland vegetation and to control sediment, reduce runoff, and remove nutrients. Properties within the IDA are subject to water quality improvement requirements to offset an increased lot coverage. Approximately 3,094 acres of land are designated LDA within the County, and approximately 3,603 acres are designated as IDA.

On all waterfront properties or properties that border tidal wetlands, there is a 100-foot buffer that is measured from mean high water, the most landward extent of tidal wetlands, or the bank of tributary streams. In this area there are greater restrictions on what can legally occur relative to clearing, cutting, structures or general disturbance. In some areas, however, the restrictions are reduced. These less restrictive buffer areas are known as buffer management areas. Map 8-5. Critical Areas show the extent of Critical Areas throughout the County.

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Map 8-5. Critical Areas



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Wetlands

Wetlands are defined by wetland hydrology, hydric soils, and hydrophytic vegetation (i.e., plants adapted to wet conditions). Wetlands help to reduce or mitigate flooding impacts, provide erosion control, maintain and improve water quality, support groundwater recharge, and provide habitat for various plants and animal species. Wetlands are categorized as nontidal or tidal. Nontidal wetlands are defined by the MDE as inland, freshwater areas not subject to tidal influence and are usually covered or saturated with water for long periods during the growing season. Tidal wetlands include saltwater and brackish areas as well as some freshwater habitats. These wetlands may be permanently, irregularly, or seasonally flooded.

Map 8-4. Environmental Features, shows that approximately 76,672 acres (approximately 18 percent of the County) are covered in tidal and nontidal wetlands. This map is a guidance map and likely only represents minimums. These wetlands are classified as palustrine, lacustrine, estuarine, and riverine. The most abundant type is palustrine or freshwater wetlands, which may be either tidal or nontidal, which represent 68 percent of the County's total wetlands (51,877 acres). Estuarine wetlands (salt and brackish wetlands) represent 31 percent of the County's total wetlands (24,119 acres). There is a very small percentage of lacustrine wetlands (less than 1 percent of total wetlands or 288 acres), riverine wetlands (less than 1 percent of total wetlands or 7 acres), and marine wetlands (less than 1 percent or 380 acres). Additionally, 8,026 acres or 10 percent of the wetlands in Worcester County are designated as Wetlands of Special State Concern, primarily located along the Pocomoke River and Nassawango Creek. These wetlands are considered the best examples of Maryland's nontidal wetland habitats and are designated for special protection under the State's nontidal wetlands regulations.

There are Tier II waters in Worcester, which are streams and rivers where water quality exceeds the state minimum standards and biological communities are healthy, robust, and diverse. These waterbodies have extra review and protective measures for development within their watershed areas. MDE has designated Little Mill, Nassawango, and Dividing Creek as Tier II waters. MDE divvies up Tier II waters according to their ability to maintain ecological integrity. Waters with "assimilative capacity remaining" can withstand proposed landcover changes. Those classified as "no assimilative capacity remaining" require a more in-depth analysis of the potential impacts from proposed landcover changes and may need impact mitigation.

While the United States Geological Survey (USGS) and the Maryland Department of Natural Resources (DNR) both provide generalized mapping of wetland areas, the specific location and extent of wetlands require a site-by-site analysis. Final delineation of wetland locations is required as part of the development review process.

The USACE and MDE jointly regulate the wetland activities in the County. That regulation occurs through Section 404 of the Clean Water Act, Maryland Nontidal Wetlands Protection Act, Maryland Tidal Wetlands Act, and the Waterway and 100-year Floodplain Construction Regulations. MDE also regulates shoreline activities under the Living Shorelines Protection Act, with authorization from MDE and a permit from the local government required prior to starting a project.

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Sea level rise, subsidence, erosion, and development remain the largest threats to the County's wetlands. The County has measures in place to protect wetlands, such as zoning the Pocomoke River Corridor and much of the Chincoteague Bay shoreline and shorelines of its tributaries as "RP" Resource Protection District. Currently, the total amount of RP zoned land is 86,737 acres. Additionally, much of the Nassawango Creek corridor is owned and protected by the Nature Conservancy. 7,500+ acres of the southeastern portion of the Chincoteague Bay watershed are permanently protected from development with Rural Legacy easements and approximately 1,000 acres of this area is wetlands. There are also established Rural Legacy Easements in the Lower Pocomoke River watershed and the Dividing Creek watershed. More information on efforts to preserve wetlands in the County can be found in the Conservation Lands section of this chapter.

Floodplains and Flood Hazards

The National Weather Service classifies flooding as "the inundation of normally dry areas due to increased water levels in an established watercourse." Floods threaten life, safety, and health and causes damage to property and infrastructure. Flooding can occur during any season of the year from a variety of sources. Riverine floodplains and coastal areas tend to be the most susceptible to flooding, however flooding can occur in other areas due to unusually long periods of heavy rainfall. There are multiple flood types, including:

- Riverine Flooding: Originates from a body of water, typically a river, creek, or stream, as water levels rise onto normally dry land. Water from snowmelt, rainfall, freezing streams, ice flows, or a combination thereof, causes the river or stream to overflow its banks into adjacent floodplains.
- Flash Flooding: Occurs when a large volume of water flows or melts over a short period, usually from slow moving thunderstorms or rapid snowmelt. These types of floods occur rapidly with significant impacts, and due to their localized nature do not have well-defined hazard areas.
- Urban Flooding: This type of flooding occurs due to development and the ground's decreased ability
 to absorb excess water without adequate drainage systems in place. This type of flooding typically
 occurs when land uses change from fields or woodlands to roads and parking lots. When the amount
 of water generated from rainfall and runoff exceeds a storm water system's ability to remove it,
 developed areas may flood.
- Nuisance Flooding: This type of flooding is associated with high tides that flow back through the stormwater system, increasing or raising the level of groundwater, and overtopping the banks and edge of waterways. The occurrence of nuisance flooding is an indicator of rising water levels in the Atlantic Ocean, Chesapeake Bay and Coastal Bays, and associated tributaries. Areas that were previously dry now flood during high tide events since the water elevation is high enough to crest the banks of waterways through outfalls that were previously high enough to prevent backflow while also allowing outflow. A Nuisance Flooding Plan was prepared in 2020 and is scheduled to be updated in 2025 and will be incorporated as a chapter within the updated Worcester County Hazard Mitigation and Resilience Plan.

The National Flood Insurance Program (NFIP) produces Flood Insurance Rate Maps (FIRMs) nationwide, which are a community's official map where the Federal Emergency Management Agency (FEMA) has

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delineated both the special hazard areas and the risk premium zones applicable to the community. The NFIP underwrites flood insurance coverage using the information from the FIRM and the associated Flood Insurance Study (FIS). Communities that adopt and enforce regulations that meet or exceed NFIP criteria are eligible for flood insurance. Buildings built to these regulations have lower flood risk and insurance rates.

The County participates in the NFIP with an effective date of its FIRM and FIS of July 16, 2015. The Town of Berlin, Ocean City, Pocomoke City, and the Town of Snow Hill also participate in the NFIP.

The County is prone to various forms of flooding, and FEMA's Digital Flood Insurance Rate Map (DFIRM) shows flood inundation areas that are depicted as flood zones. These flood zones include A, AE, AO, VE and X (shaded and un-shaded). Floodplains are shown on **Map 8-4: Environmental Features.**

In 2018, the MDE prepared the Maryland Model Floodplain Management Ordinance (FPMO) in response to the requirement that local jurisdictions adopt regulations that are fully compliant with the requirements of the NFIP. For most communities, the requirement to update regulations is triggered by revisions to the Flood Insurance Rate Maps (FIRMs) and associated FIS.



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Table 8-2. FEMA Special Hazard Flood Areas (SHFA) Risk Areas

Flood Zone	Description
А	Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.
AE	Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are provided. AE Zones are now used on new format FIRMs instead of A1-A30 Zones.
АО	River or stream flood hazard area, and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1-3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage.
	Moderate Risk Areas
X (Shaded) 0.2% or 500-Year	Moderate flood area(s), shaded area(s) shown on FIRM, are the areas between the limits of the base flood and the 0.2% annual chance (or 500-year) flood.
	Minimum Risk Areas
(Unshaded)	The areas of minimal flood hazard, which are areas outside the SFHA and higher than the elevation of the 0.2% annual chance flood, are labeled Zone X (unshaded).
ource: FFMA	

Source: FEMA

There are 88,319 acres of FEMA-mapped 100-year flood zone in the County, which equates to approximately 20 percent of the County's total land area. There are 11,123 acres of FEMA-mapped 500-year flood zones, which equates to approximately 3 percent of the County's total land area.

Undisturbed floodplains are important for moderating storm floodwaters, absorbing wave energy, and reducing erosion and sedimentation. Additional resources within floodplains, such as wetlands and stream buffers, also help to maintain water quality, provide recharge groundwater, protect fisheries, and provide habitat and natural corridors for wildlife. By protecting floodplains from development, downstream communities benefit from reduced risks and costs associated with loss of life and property.

It is important to note that FIRMs provide an analysis of flood scenarios based on past events and data. They indicate areas of high, moderate, and low risk. Future conditions are not considered. FEMA FIRMS do not account for:

- Shoreline erosion, wetland loss, subsidence, or relative sea rise
- Upland development or topographic changes
- Degradation or settlement of levees and floodwalls
- Changes in storm frequency and severity
- Effects of multiple storm events

While some of these factors do not impact the County directly, or have as great an impact as others, it is important to be aware that approximately 25 percent of flood damages nationally occur to structures

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that are outside of FEMA mapped flood hazard areas and that few, if any, standards exist nationwide for development in the areas immediately adjacent to the floodplain or outside of mapped floodplain areas.

To help the County review proposed developments, developers are required to provide detailed base flood elevation information to the County. The County then provides this information to FEMA and request revisions to floodplain maps with more accurate data as needed.

In 2000, the Stafford Act enacted the Disaster Mitigation Act and, by FEMA's Interim Final Rule published in 2002, established in the Maryland Code that each Maryland jurisdiction adopt and maintain a Hazard Mitigation Plan (HMP). The HMP ensures eligibility for funding and technical assistance from State and federal hazard mitigation programs. It addresses natural hazards determined to be of high and moderate risk as defined by the updated results of the local hazard, risk, and vulnerability summary. Natural hazards continue to be evaluated during five-year update cycles and include sea level rise and coastal resiliency planning priorities. The County's latest version of this plan is the 2020 Worcester County Hazard Mitigation and Resilience Plan.

Community Rating System (CRS)

Worcester County is not currently participating in the FEMA Community Rating System (CRS). The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed NFIP requirements. As an incentive, flood insurance premium rates are discounted to reflect reduced risk. Additional benefits of the CRS include:

- Increased opportunities for citizens and property owners to learn about risk, evaluate their individual vulnerabilities, and take action to protect themselves as well as their homes and businesses;
- Adoption of floodplain management activities that enhance public safety, reduce damage to property and public infrastructure, and avoid economic disruption and loss;
- Opportunities for communities to evaluate the effectiveness of their flood programs against a nationally recognized benchmark;
- Availability of free technical assistance for community officials in designing and implementing some activities; and
- Incentives for communities to maintain and improve their flood programs over time.

The three goals of the CRS include:

- 1. Reducing and avoiding flood damage to insurable property
- 2. Strengthening and supporting the insurance aspects of the NFIP
- 3. Fostering comprehensive floodplain management

These goals can be reached by implementing higher regulatory standards, establishing a robust public outreach initiative, preserving open space to reduce flooding risk and increase resiliency, and creating an emergency preparedness plan.

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It is recommended that the County consider applying for participation in the CRS as many of the activities that are awarded points in the rating system are already underway. These activities include, but are not limited to, open space preservation and establishing a Hazard Mitigation and Resilience Plan.

Coastal Bays

Atlantic Coastal Bay resources in Maryland only occur in Worcester County. There are five Coastal Bays: Newport Bay, Assawoman Bay, Chincoteague Bay, Isle of Wight Bay, and Sinepuxent Bay (see Map 8-4. Environmental Features). In total, these bays boast 248 miles of shoreline and nearly 35,000 acres of wetlands. They are home to a variety of wildlife, including 360 different types of birds as well as more than 108 rare, threatened and endangered species. These five bays receive drainage from approximately half of Worcester County and have felt the effects of the significant growth along the County's shoreline over the last quarter century and area in need of protection. Because sea level rise is eroding tidal wetlands and shorelines in all the Coastal Bays in the County, each faces its own challenges and ecosystem threats based on various factors such as geography, land use, and environmental influences.

Multiple restoration projects have been completed by the Maryland Coastal Bays Program in partnership with various entities who have helped both fund and maintain efforts. These various entities include Worcester County, the Maryland Department of Transportation State Highway Administration (SHA), The Lower Shore Land Trust, the Coastal and Estuarine Land Conservation Program, the National Estuary Program, DNR, and other private partners. These projects include living shorelines, establishment of nature parks, wetland restoration, dam removal, establishment of a kayak launch, and various other efforts to preserve ecological function of sensitive resources and provide educational and recreational spaces for residents and tourists to enjoy.

The 2023 Maryland Coastal Bays Report card gave the Coastal Bays an overall score of a "B-", which is the highest score the Coastal Bays have ever received since the annual report card began in 2008. Coastal Bay health is defined by four water quality indicators – nitrogen, phosphorus, chlorophyll a, and dissolved oxygen – and two biotic indicators – seagrass and hard clam – toward scientifically derived ecological thresholds or goals. More information on each Bay and their 2023ratings is below.

Newport Bay

In 2023, Newport Bay received a "C minus" on the Maryland Coastal Bays report card. Intact natural shorelines, high wetland coverage, and low impervious surfaces were balanced by degraded water quality, low densities of hard clams, and poor seagrass coverage. This resulted in Newport Bay's overall ecosystem health grade ranking as last in the Coastal Bays. Newport Bay, one of the smallest of the Coastal Bays, sports wide and productive marshes on both banks. The Bay's many tributaries come together in a vast complex of wetlands, channels, ponds, and uplands. However, extensive mosquito ditches are also present in these marshes, which compromise natural drainage.

With 42% forested land, Newport Bay has the second-highest proportion of land covered with woodland of any subwatershed of the Coastal Bays. Add to this the watershed's diverse hardwood forests and lack of loblolly pine monocultures, and the area emerges as one of the most important forest hubs in the Coastal Bays watershed. While Berlin anchors the watershed's northern side, the expansive tidal guts,

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marshes, and forests on Newport Bay's southern side help it rival Chincoteague Bay in wildlife diversity. Like its southern cousin, its expansive marshes and riparian forest provide critical habitat for birds, reptiles, amphibians, and rare plants. Extensive hardwood forested wetland on the watershed's northeastern and southeastern sides is important for maintaining water quality and also for forest interior dwelling birds. About 325 ha (800 acres) of forest (7% of the total forestland) are currently protected in the 11,000-ha (27,400-acre) watershed.

Assawoman Bay

The Assawoman Bay watershed includes both Worcester County and Sussex County in Delaware. The northern half of Ocean City drains into Assawoman Bay; over 40% of the overall drainage is from Delaware. This area is largely planned for agriculture, other than existing developed areas and Ocean City. In 2023, Assawoman Bay received a "B minus" on the Maryland Coastal Bays report card, which is its highest recorded rating. Assawoman Bay is directly connected to Little Assawoman Bay in Delaware through a channel known as 'The Ditch.' The extent of exchange between these two waterbodies is unknown, but wind and tides are thought to play an important role. Preliminary monitoring results suggest that Greys and Roys Creeks, as well as the Ditch, may contribute negatively to the water quality in the northern end of Assawoman Bay. Additionally, substantial loss of tidal marsh occurred in Assawoman Bay prior to implementation of wetlands protection laws in the 1970s. Only small parcels of tidal marsh remain today on the bay shore of Fenwick Island. However, substantial areas of tidal marsh still survive along the mainland shoreline. The remaining marshes of this area are probably highly vulnerable to loss in association with rising sea level.

Chincoteague Bay

The Chincoteague Bay watershed is the largest of the five Coastal Bay watersheds, with both Worcester County in Maryland and Accomack County in Virginia contributing to the drainage area. The drainage area contains extensive marshes, farms, and forest, with forested areas accounting for nearly half of the land cover. There are twelve wetlands of special state concern in the watershed. In 2021, Chincoteague Bay received a "B minus" on the Maryland Coastal Bays report card. In recent years there has been an increase in nutrients and phytoplankton in the bay, which is a threat to seagrass coverage. Many bay islands are also being lost to erosion and sea level rise. These islands provide essential habitat for numerous waterbird species as well as other organisms. Like the other Coastal Bay watersheds, agricultural activities contribute to nutrient pollution in the bay

Isle of Wight Bay

The Isle of Wight Bay watershed is the second largest of the five Coastal Bay watersheds, with both Worcester County in Maryland and Sussex County in Delaware contributing to the drainage area, with headwaters near Selbyville, Delaware. This watershed contains Ocean City, Ocean Pines, some of West Ocean City, and most of the Route 50 commercial corridor. This area has been a receiver of population growth and development. In 2023, Isle of Wight Bay received a "B minus" on the Maryland Coastal Bays report card.

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Isle of Wight Bay and its watershed are the most heavily used of the Coastal Bays. Bounded on the east by densely developed Ocean City, it is also bounded on the west by very dense residential development. The north boundary is Route 90 with two in-line bridge spans leading from the mainland to Cape Isle of Wight and then to north Ocean City. The south boundary is the Route 50 bridge, bringing traffic into south Ocean City. Flowing into Isle of Wight Bay are waters from Herring Creek, Turville Creek, and St. Martin River, all with increasing residential development.

There are at least 111 canals adjacent to the Coastal Bays, 59 of which are in Isle of Wight Bay. Most of these canals were built between 1960 and 1980 by development projects that dug the canals to create residential waterfront lots. Dead-end canals are problematic for several reasons. They usually have only one opening. Most were dug through wetlands with the material being side-cast to build elevation. The canals were often dug deeper than their receiving waters, creating lower bottom elevation and poor flushing. This causes canal water to stagnate and become depleted of dissolved oxygen, which is essential for organisms to survive. The canals receive pollutants from stormwater runoff. The Ocean Pines community alone, located in both Isle of Wight Bay and St. Martin River watersheds, has 322 km (200 mi) of ditches, mostly draining into 19 km (12 mi) of canals that serve to remove stormwater from 8,300 properties.

While the amount of waterfront has increased dramatically by this development, the result is that non-point source pollution from all residences has increased as well. Additionally, the loss of wetlands associated with this development has meant a decreased ability to filter out nutrients and pollution before reaching the bays. Animal waste, lawn trimmings, fertilizers, fishing waste (scraps and bait), and trash are all major sources of pollution.

Sinepuxent Bay

Sinepuxent Bay ranked first in the Coastal Bays for estuarine health and second for watershed health, receiving a "B plus" on the 2023 Maryland Coastal Bay Report card. It had the best water quality, highest density of hard clams, and greatest seagrass coverage—likely due to its small, relatively undeveloped watershed and good oceanic flushing through the Ocean City Inlet. This resulted in Sinepuxent Bay's overall ecosystem health ranking as the best of the Coastal Bays. Sinepuxent Bay's long, thin dimensions give its recreational qualities a dichotomous feel.

On its northern end, near the Ocean City Inlet, yachts and commercial fishing boats depart for sea from the sprawling West Ocean City Harbor. A public boat ramp there also brings jet skiers and recreational boaters from around the East Coast. Good fishing in the inlet and the northern half of the bay makes for crowded conditions in July and August north of Assateague Road. South of there, campgrounds, shallow water, and limited development change the scene to a rural one. On the eastern border of Sinepuxent Bay lies one of the East Coast's true gems — Assateague Island National Seashore. The barrier island, known for its wild horses, is a refuge for both wildlife and the two million people who visit the island every year.

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Sinepuxent Bay's small, relatively undeveloped shoreline and flushing from the Ocean City Inlet give it the best water quality among the Coastal Bays. With the lowest nitrogen levels, Sinepuxent Bay enjoys healthy fisheries and abundant seagrass.

Hazard Mitigation

Hazard mitigation involves reducing the risks of natural hazards and their associated damage to people and property. The County developed a 2020 Worcester County Hazard Mitigation and Resilience Plan that addresses all natural hazards that are most likely to affect Worcester County. The natural hazards identified in the County include coastal hazards (flooding, storms, sea level rise, and erosion), riverine flooding, wildfire, wind, drought, thunderstorms, tornados, winter storms, and hazardous materials. These were ranked to provide structure and prioritize mitigation goals and actions. Table 7-3 shows the overall risk potential identified in the 2020 plan for each hazard. For more information on these hazards, please see the 2020 Worcester County Hazard Mitigation Plan.

Table 8-3. Worcester County Hazard Identification and Risk Assessment

Identified Hazard	Type of Events	2020 Worcester Hazard Identification and Risk Assessment
Coastal	Coastal Flooding; Coastal Storms; Storm Surge; Hurricane/Tropical Storm; Nor'easter; Potential Sea Level Rise; Shoreline Erosion	High
Flood	Riverine Flood	Medium-High
Wildfire	Wildfire; Brush Fire; Conflagration	Medium-High
Wind	Thunderstorm winds; non-thunderstorm wind	Medium-High
Drought	Drought; Extreme Heat	Medium
Thunderstorm	Thunderstorm; Lightning; Hail	Medium
Tornado	Tornado	Medium
Winter Storm	Winter Storm; Extreme Cold; Nor'easter (Snowfall)	Medium-Low
HazMat	Toxic Chemicals	Medium-Low

Source: 2020 Worcester County Hazard Mitigation and Resilience Plan

Climate Change

Climate change refers to the long-term change in the average weather patterns and temperatures. Worcester County is susceptible to climate change, facing pressing issues such as sea level rise, heavy precipitation events, and increasing temperatures. Adaptation of infrastructure in the face of climate change and mitigation of the effects on the County is an important part of what will shape Worcester County in the coming years.

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The 2015 Maryland Commission on Climate Change (MCCC) Act required the MCCC and its participating agencies to develop an action plan and firm timetable for mitigation of and adaptation to the likely consequences and impacts of climate change in Maryland. In February 2021, MDE released the 2030 Greenhouse Gas Reduction Act (GGRA) Plan, which is a comprehensive plan that sets a clear and unifying path for the State to dramatically reduce greenhouse gas emissions that contribute to climate change.

In 2020, the County prepared their 2020 Worcester County Hazard Mitigation and Resilience Plan, which received a 'satisfactory' rating from FEMA. The plan "seeks to eliminate or reduce hazard related human, economic, and environmental losses" and includes unincorporated areas of the County as well as the towns of Berlin, Pocomoke, and Snow Hill. Ocean City has its own plan, the 2017 Ocean City, Maryland Hazard Mitigation Plan. While the County's Hazard Mitigation and Resilience plan mostly addresses current impacts of hazards for a five-year span (2020-2025), it also identifies and addresses the anticipated role of climate change for hazards such as flooding, extreme weather events, extreme heat, and coastal erosion.

Sea Level Rise

The rising and spreading of water over normally dry land is referred to as inundation. Scientists use models to develop maps showing the possible impacts of inundation based on various Sea Level Rise (SLR) scenarios for state's waterways and the land that surrounds them (watersheds). These maps reflect the filling of these watersheds at constant elevations, also referred to as bathtub modeling. In other words, the maps show the water levels rising in the watersheds similar to the filling of a bathtub.

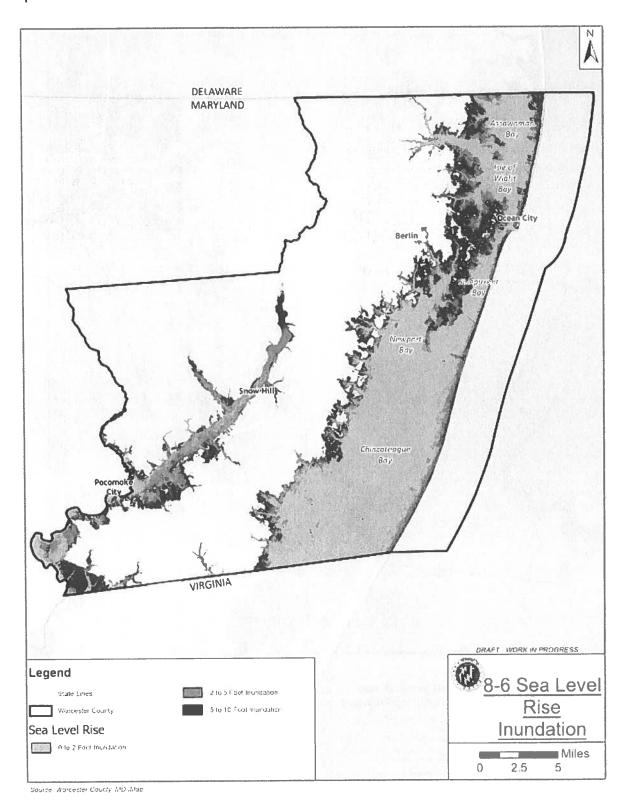
Worcester County boasts 774 miles of coastline, which are important for the County's economy and quality of life. Due to its location, low elevations, and dependence on the coast, the County is particularly vulnerable to the effects of SLR. Changes in sea level have the potential to impact existing infrastructure and natural resources in the short-term and also the durability of future development with long-term design life.

The impacts of 2-, 5-, and 10-foot SLR are shown in **Map 8-6. Sea Level Rise Inundation**. With many areas of the County susceptible to SLR, it is important to consider potential associated impacts, which include coastal erosion, flooding and loss of wetlands, saltwater intrusion, and expansion of flood-prone areas. Long-range planning and accounting for changes in sea level that may be expected in the County will help lead to informed decisions for public and private investments by minimizing risk potential for damage to both existing and future resources.

The Maryland CoastSmart Council was established in 2014 by the Maryland General Assembly for the purpose of adopting specific Coast Smart siting and design criteria to address impacts associated with sea level rise and coastal flooding on future capital projects. Per the Maryland CoastSmart regulations, state construction projects and projects in coastal areas that receive more than \$500,000 in state funding must apply the horizontal limits of a floodplain corresponding to a Design Flood Elevation (DFE) with 3 feet of freeboard. This will show wider inundation areas. MDE, DNR, and other state agencies developed the CoastSmart – Climate Ready Action Boundary (CS-CRAB) for the Maryland CoastSmart Council, which shows these updated horizontal limits that account for these wider inundation areas consistent with projected Maryland sea level rise. This boundary is shown on Map 8-7. CS-CRAB.

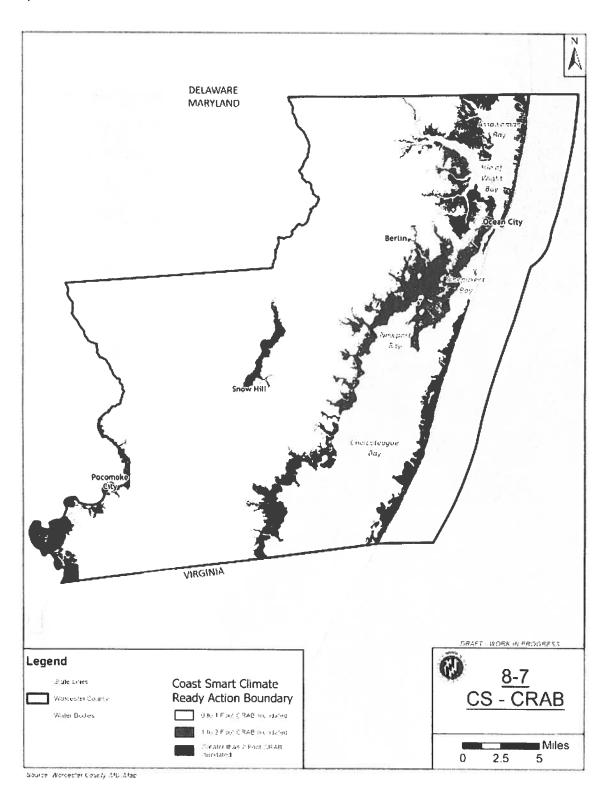
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Map 8-6. Sea Level Rise



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Map 8-7. CS-CRAB



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In 2008, a document was prepared for the County titled *Sea Level Response Strategy* which presented several scenarios to assess the impacts of sea level rise on Worcester County over the next century. The document also provided a prioritization of response options to determine which options would be useful despite uncertainties in the rate and range of sea level rise. The *2020 Worcester County Hazard Mitigation and Resilience Plan* indicates that the Seaside area of Worcester County ranks "very high" on the SLR Hazard Ranking, while the Bayside area ranks "low."

One of the expected impacts of sea level rise is coastal erosion, which causes loss of land and habitat, damage to infrastructure, increase vulnerability to hazards, and economic impacts especially for areas that rely on coastlines for recreational industries and tourism.

Shoreline erosion is not a serious threat to human life; however, it is a slow and ongoing geological process that could lead to significant economic, property and infrastructure loss. The 2008 Sea Level Rise Response Strategy, Worcester County, Maryland, notes that approximately 56% of the county's shoreline is receding, with 4% eroding at over 4 feet per year. These eroding areas are candidates for nonstructural or living shoreline stabilization approaches to mitigate erosion.

The 2020 Nuisance Flood Plan was prepared to document the County's response and monitoring of these conditions. Worcester County, Maryland is experiencing nuisance flooding in mapped floodplains that is occurring on a more frequent basis, including urban flooding in the towns of Pocomoke City and Snow Hill. This has County and town responders busy responding to these events. These challenges are exacerbated by the increase in frequency and intensity of storms caused by higher global temperatures creating more favorable conditions for heavier and more frequent participation. Citing one useful tool for reported nuisance flooding events, the County has logged 158 events reported to the MyCoast reporting application, with the majority occurring within the Town of Ocean City, which has their own nuisance flooding plan. Worcester County has approximately 92 roads that were identified in the Hazard Mitigation and Resilience Plan as being potentially flooded during an event with 33 roads identified as impacted by tidal flooding, which is frequently referred to as "sunny day" or high tide flooding.

The 2020 Worcester County Hazard Mitigation and Resilience Plan notes that the Virginia Institute of Marine Science inventoried a large portion of the Coastal Bays and found that approximately 26% of the shoreline was armored or contained some form of erosion control structures. However, these erosion control measures often cause erosion to nearby unarmored shores. It is recommended that the County complete an updated inventory of eroding shorelines and consider stabilization methods to mitigate erosion for the most critical areas, with nonstructural or living shoreline approaches preferred.

Another impact of sea level rise is saltwater intrusion. As sea level rises, the extent of tidal, brackish surface waters within the Chesapeake Bay, Coastal Bays, and Atlantic Ocean expands both upstream and landward above and below the ground, which in turn increases saltwater intrusion into aquifers. Saltwater intrusion is discussed further in the Water Resources section.

Heavy Precipitation Events

Climate change is expected to result in more frequent heavy precipitation events. This can lead to flooding, especially in areas with inadequately sized drainage infrastructure. This flooding can result in

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safety hazards, inaccessible roadways, travel delays, and damage to buildings or other infrastructure. The County's infrastructure and its ability to handle such events plays a contributing role in how effectively the area can be evacuated and how it can prevent damage from these events. Planning for these events determine how successful the County and emergency services can respond to these events. An assessment of the vulnerability of older commercial and residential structures would be helpful to prepare for the anticipated higher frequency of heavy rainfall events.

Temperature Rise

Another key issue surrounding climate change is a steady rise in temperature. Rising temperatures will result in a longer growing season, heat waves, and more consecutive days where it does not cool off at night. This has many implications for infrastructure and human health. Air conditioning systems in buildings may not be sized appropriately for increasing temperatures and shorter, milder winters can mean residents are dealing with more ticks and mosquitoes. Of particular concern are vulnerable populations who may not have access to air conditioning in the summer. Although temperature is not something that can be controlled, there are ways for the County to prepare for a possible increase. Tree planting and shade contribute greatly to heat dispersion. Making sure buildings are up to code for cooling systems will also mitigate the effects of long-term temperature changes. Educating people on how to deal with heat waves and erratic weather also helps prepare the population for such events and can be a successful way to prevent the dangers of high temperatures.

Habitats of Rare, Threatened, and Endangered Species

The Federal Endangered Species Act of 1973 requires a list of endangered and threatened species and the protection of those species and their ecosystems. The primary State law that allows and governs the listing of endangered species is the Nongame and Endangered Species Conservation Act (Md. Natural Resources Code Ann. §10-2A). This Act is supported by regulations that contain the official State Rare, Threatened, and Endangered Species list.

Protecting animal and plant species and their habits is important for many reasons:

- Animal and plant species contribute to the County's environmental quality, making it an attractive place to live.
- An abundance of animal and plant species support outdoor recreational activities such as hunting, boating, wildlife viewing, and hiking.

Habitats of rare, threatened, and endangered species are defined as areas that, due to physical or biological features, provide important elements for the maintenance, expansion, and long-term survival of threatened and endangered species. This area may include breeding, feeding, resting, migratory, or overwintering areas. Physical or biological features include (but are not limited to) the structure and composition of the vegetation, faunal community, soils, water chemistry, and quality; and geologic, hydrologic, and microclimatic factors.

The DNR's Wildlife and Heritage Service Natural Heritage Program (WHS) tracks over 1,250 native plants and animals that are among the rarest in Maryland and most in need of conservation efforts as elements

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of the State's natural diversity. Lists of rare, threatened, and endangered animals and plants, including federally listed species are maintained by the WHS, statewide, which officially recognizes 566 species and subspecies as endangered, threatened, in need of conservation, or endangered extirpated:

- Endangered. A species whose continued existence as a viable component of Maryland's flora or fauna is determined to be in jeopardy.
- Threatened. A species that appears likely, within the foreseeable future, to become endangered in Maryland.
- In Need of Conservation. A species whose population is limited or declining in Maryland, such that it may become threatened in the foreseeable future if current trends or conditions exist.
- Endangered Extirpated. A species that was once a viable component of the flora or fauna of Maryland, but for which no naturally occurring populations are known to exist.

As of November 2021, within the County, 28 animals and 97 plants are listed (see **Table 8-4**). Of these, 3 animals and 1 plant species are listed as endangered under the federal *Endangered Species Act*, which include the Leatherback Sea Turtle, the Red-cockaded Woodpecker, the Roseate Tern, and Chaffseed.

Table 8-4. Listed Species in Worcester County

Category	Plants	Animals
Endangered	66	20
Threatened	22	3
In Need of Conservation	0	2
Endangered Extirpated	9	3
Total	97	28

Source: Maryland Department of Natural Resources

Populations of many island and marsh nesting birds in the Coastal Bays are in decline, including the common tern (state-endangered and facing 90% decline), seaside sparrow, salt marsh sparrow (projected for extinction by 2060), and black skimmer (near extirpation). All of Maryland's breeding royal terns and black skimmers nest in the Coastal Bays and the salt marsh sparrow only lives in salt marshes. Erosion of islands and decline in salt marsh habitat in the bays is a significant reason for the decline.

Multiple projects are underway to combat loss of habitat and subsequent population decline for island and marsh nesting birds. The Maryland Coastal Bays Program and DNR have deployed a raft to serve as habitat for common terns as a stop gap measure until more island habitat can be restored. Additionally, Marshes for Tomorrow, an effort with Audubon and Maryland Coastal Bays Program, is working to restore marsh at a landscape scale in Maryland, including the Coastal Bays, which will provide critical habitat for the salt marsh sparrow.

To assist in identifying the potential habitats for these species areas, DNR designates Sensitive Species Project Review Areas (SSPRAs). SSPRAs represent the general location of documented rare, threatened, and endangered species, and other areas of concern including Critical Areas, Natural Heritage Areas, Listed Species Sites, and Nontidal Wetlands of Special State Concern.

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Forest Interior Dwelling Species (FIDS) are those species that require large blocks of forests to survive and maintain sustainable populations. FIDS include a diverse group of birds such as tanagers, warblers, and vireo, as well as short-distance migratory birds such as woodpeckers, hawks, and owls. Many factors have contributed to the decline of FIDS; however, the loss and fragmentation of forests on the breeding grounds is a major contributor to this decline. In general, FIDS are not well adapted to compete with species that evolved along forest edges and openings. The fragmentation of large forest tracts largely through land development threatens the habitat needed for long-term survival of these species and exposes them to predators or competing species.

When forests are under extreme stress, individual species and their habitats become threatened, thereby endangering the health of the forest. The plants, animals, and forests are essential to maintaining biological diversity in this region. The distance between blocks of forests influences the abundance of many FIDS. Some species can survive in smaller forests if they are connected to other areas via corridors.

Aquatic habitats are another vital resource—they not only protect waterways and their biodiversity, but also help with the County's resiliency efforts in the face of climate change. Submerged aquatic vegetation (SAV, i.e. bay grasses) serves as important food, nursery, and habitat for many species of fish and fowl. Its health is a good indicator for measuring Chesapeake Bay and Coastal Bay restoration progress as the health of these grasses are closely linked to water quality. They provide essential food and habitat for many important species of waterfowl, fish, shellfish, and invertebrates; remove suspended solids from the water; protect shorelines from erosion; and oxygenate the water. Shellfish beds are both an economic and a natural resource—the bottom (benthic) community provides food for bottom feeding fish.

Within Worcester Couty, portions of the Upper Pocomoke River watershed, Dividing Creek watershed, Lower Pocomoke River watershed and the entire Nassawango Creek watershed are identified as stronghold watersheds by DNR. These watersheds are considered to be the most important for the protection of Maryland's freshwater stream biodiversity and are places where greatest conservation need species of stream-dwelling fish, amphibians, reptiles, or mussels have the highest abundance or diversity. These species are generally most sensitive to environmental degradation, with a small change in watershed or stream health able to permanently eliminate one or more of these sensitive species. Maintaining the health of these watersheds is critical for sustaining these species and the vital ecosystem services they provide.

The County contains three State designated Natural Heritage Areas. These include Lower Nassawango Creek, Mattaponi, and North Sinepuxent Bay Dunes. Natural Heritage Areas are within legally protected lands, such as parks or state wildlife management areas. They must contain one or more threatened or endangered species or wildlife species in need of conservation, must be a unique blend of geological, hydrological, climatological, or biological features, and must be considered to be among the best Statewide examples of its kind.

In the late 1990s, DNR began an effort to identify ecologically important lands in Maryland. The result of this effort is a mapped network of large blocks of intact forest and wetlands called "hubs" linked



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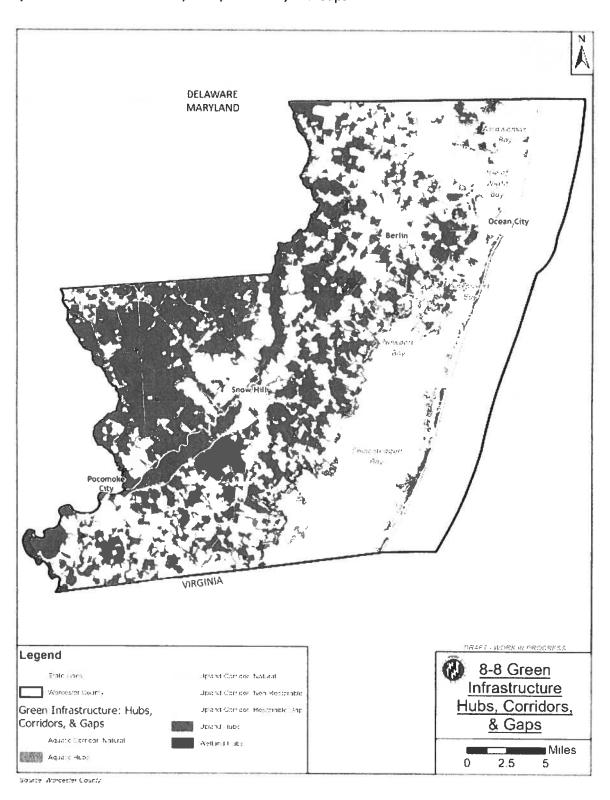
together by linear features such as forested stream valleys, ridgelines, or other natural areas called "corridors." Map 8-8. Green Infrastructure, Hubs, Corridors and Gaps, shows the location of these hubs and corridors, which are vital to maintaining healthy wildlife populations across the state, while also providing a number of ecosystem services to the citizens of Maryland, including clean water, clean air, carbon sequestration, and climate resilience. In August 2024, DNR and the Chesapeake Conservancy partnered to update mapping of these hubs and corridors, calling it Maryland's Habitat Connectivity Network. The updated mapping helps the state understand where the most important natural habitat areas in the state are currently located, how these areas are connected, and how these areas have changed in the past two decades. These data will also provide essential information to help target and prioritize lands for protection or restoration.

Map 8-9. Ecological Areas includes significant wildlife assessment areas in the County including SSPRAs, Targeted Ecological Areas, and FIDS habitats. These areas may need special management or protection because of their importance to conservation of threatened or endangered species. The County should continue to pursue all efforts to protect habitats of threatened and endangered species by adopting regulations protecting these species from habitat loss. Further protection of woodlands or forested lands will have a positive impact on targeted ecological areas and wildlife habitats, will contribute to ecological balance, and offer sustained recreational opportunities for residents. Development in these areas should be discouraged and if development does occur, techniques to reduce impacts on targeted ecological areas and wildlife habitats should be utilized. Control of non-native invasive species within ecological areas will further protect wildlife and habitats from degradation. The County may consider establishing and implementing an invasive species removal program and focus on the planting of native species within open lands, ecological areas, natural areas, and forest lands.



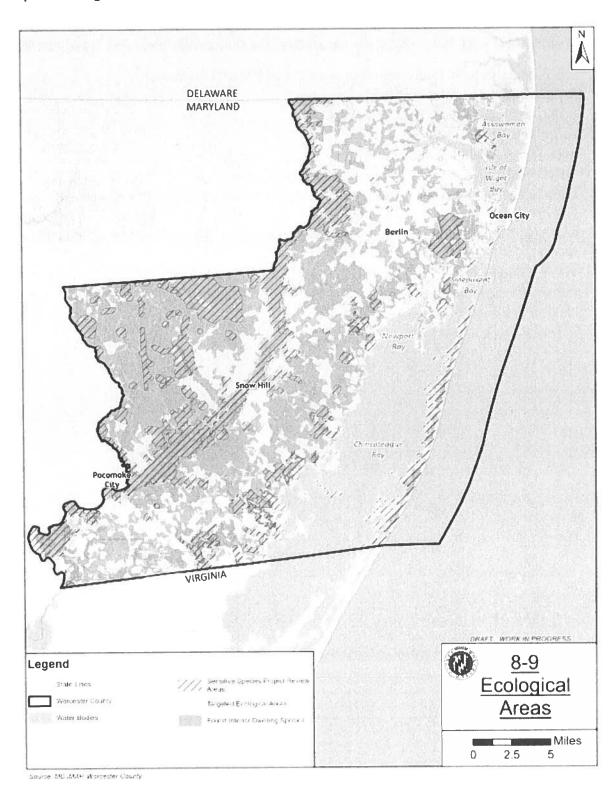
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Map 8-8. Green Infrastructure, Hubs, Corridors, and Gaps



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Map 8-9. Ecological Areas



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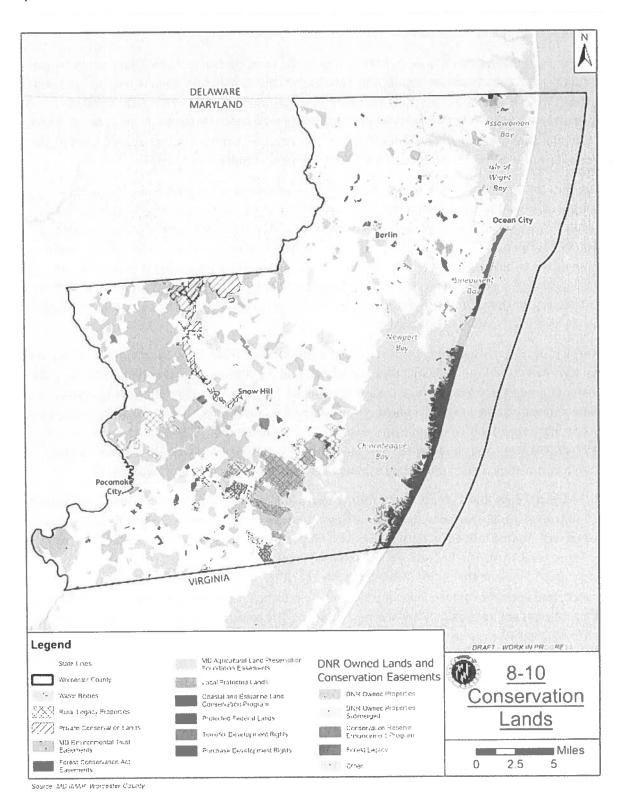
Conservation Lands

Map 8-10. Conservation Lands identifies areas of conservation lands based on the status of properties through a variety of federal, State and County preservation and conservation programs. These include:

- Maryland Agricultural Land Preservation Foundation (MALPF) Easements
- Maryland Environmental Trust (MET)
- DNR Owned Lands and Conservation Easements
- Forest Conservation Act Easements
- Rural Legacy Easements and Areas
- Coastal and Estuarine Land Conservation Program (CELCP)
- Conservation Reserve Enhancement Program (CREP) including the Permanent Easement Program
- Maryland Coastal Bays Program's (MCB) Comprehensive Conservation and Management Plan (CCMP)
- Private Conservation
- Protected Lands local and federal
- Transfer of Development Rights (TDR) Areas
- Purchase Development Rights

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Map 8-10. Conservation Lands



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As of 2025, a total of 32.8% of County lands are protected with easements or with state ownership; this is 26% of the Coastal Bays watershed. A few of the conservation programs and achievements in the County are highlighted in this section.

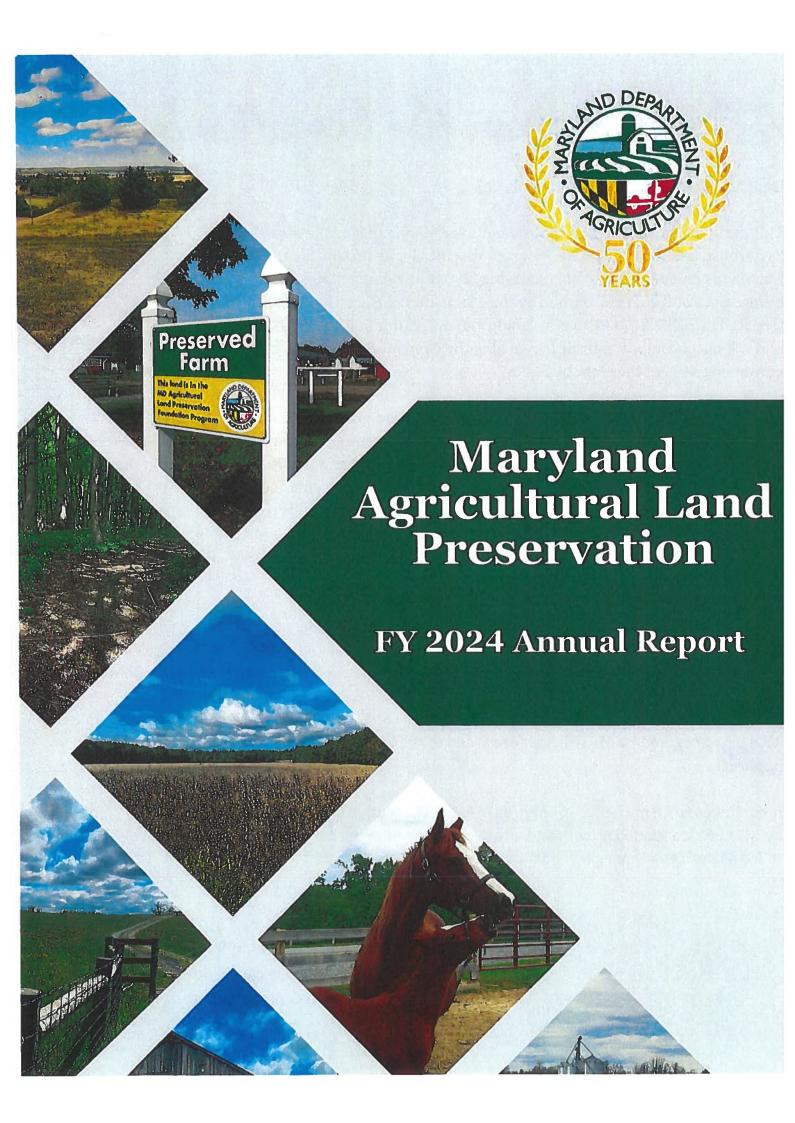
The MALPF program, in existence since 1977, is one of the most successful farm preservation programs in the country. It strives to preserve sufficient agricultural land to maintain a viable base of food and fiber production. The pace of land protection increased significantly since 2017. From 2017 to 2024, approximately 3,696 acres (25 properties) were protected with MALPF easements, or about 462 acres protected annually. Over 10,700 acres in Worcester County have been permanently protected by the Maryland Agricultural Land Preservation Foundation (MALPF) Program as of 2025.

The Program consists of two basic steps: the application process and the purchase of perpetual agricultural conservation easements. MALPF's "round 2" funding cycle prioritizes bargain sales, and Worcester County landowners have increasingly received "round 2" offers due to its competitive bid process. Worcester County also provides cash match from the agricultural land transfer tax, revenue allocated by the county, as well as funds allocated from the county general fund. These funds are matched by MALPF on a 60/40 basis. This has allowed for additional MALPF easement purchases and has been necessary for the county to meet minimum acreage protection goals. The county should continue to provide an annual cash match to MALPF.

In order to protect natural resources, the County has established three Rural Legacy Areas (RLAs): the Coastal Bays RLA (1999) the Dividing Creek RLA (2008) and the Bishopville-Showell RLA (2024). To date, Worcester County's Coastal Bays Rural Legacy Area, which includes the entire Chincoteague Bay shoreline and watershed, lower Pocomoke River watershed, and connects the Chincoteague Bay to the Pocomoke State Forest with a permanent "greenway" is approximately 45,945 acres (expanded in FY2019). 17,711 acres and counting are permanently protected as of January 2025, either by state ownership or privately owned under land conservation easement in this Rural Legacy Area.

The 2024 Coastal Bays Rural Legacy application stated a goal of protecting an additional 2,500 acres by FY34. 9,900 acres are protected with a Coastal Bays Rural Legacy easement as of end of 2025. Dividing Creek RLA was created in 2008 In partnership with Somerset County, The Nature Conservancy, and Lower Shore Land Trust. The boundary was expanded in 2019 in both counties. In Worcester County, it was expanded to include the entire Dividing Creek watershed, portions of the Nassawango Creek watershed, and upper Pocomoke River shoreline and watershed. The Dividing Creek and Nassawango Creek watersheds are an area of Maryland recognized by The Nature Conservancy as high in biodiversity. The Dividing Creek RLA is also an area with productive and contiguous farmland. The area is 55,526 acres in size, including both counties. Protection of the first Dividing Creek RLA easement in Worcester County occurred in 2009. Thirteen (13) properties have been protected in Worcester County to date (6 since 2017, totaling approximately 3,472 acres. FFY26 Dividing Creek RLA application stated a goal of protecting an additional 4,500 acres by FY36.

The Bishopville-Showell Rural Legacy Area was established in 2024. The Area is 11,743 acres and contains important farmland under significant development pressure. Many of the farms are small, so unable to participate in MALPF, which requires a minimum of 50 acres to enroll.



A Message from the Executive Director

Dear Stakeholders.

This past year saw major accomplishments for Maryland land preservation as a whole, and for the MALPF Program specifically. As of January 1, 2024, Maryland achieved its goal of conserving 30% of the entire state, six years before the 2030 goal established by the Maryland the Beautiful Act (enacted in 2023). MALPF was a significant contributor in meeting that goal and will play an important role in reaching the even more ambitious goal of conserving 40% of the state by 2040.



By fall 2024, MALPF settled 85 of the 88 offers to purchase agricultural easements in the FY22 application cycle; settled 90 of the 110 offers to purchase agricultural easements in the FY23 application cycle; and entered into 145 contracts to purchase agricultural easements in the FY24 application cycle. The continuous acquisition of MALPF easements speaks to the Program's success in bolstering the agricultural industry by providing an influx of funds to landowners of newly MALPF-eased farms. The ongoing dedication and commitment of the MALPF Board of Trustees, staff, attorneys, appraisers, and all our county partners ensures that the MALPF program will continue to protect Maryland's farmland well into the future.

At the end of FY24, MALPF has preserved 2,757 farms across Maryland, totaling over 370,000 acres of land, at a public investment of over \$972 million. Due to the reduction in the FY25 MALPF budget, the MALPF Board of Trustees decided to combine the funds of FY25 and FY26 into a single application cycle, accepting applications in July 2024. MALPF received 218 new applications for the FY25/26 application cycle to sell an easement to the State through the MALPF program, of which 192 were accepted by MALPF and forwarded to the Maryland Department of General Services for appraisal.

It continues to be my honor to serve as MALPF's Executive Director. I remain unceasingly amazed by MALPF's continued growth and unwavering commitment to recognize and respond to the needs of Maryland's ever-changing agricultural industry.



Sincerely,

Michelle Cable

Michelle Cable

Executive Director

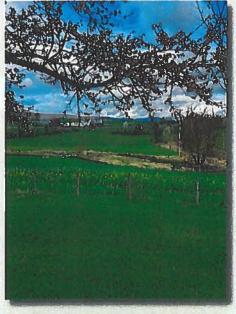
What is the Maryland Agricultural Land Preservation Foundation (MALPF)?

The primary purpose of MALPF is to preserve sufficient agricultural land to maintain a viable local base of food and fiber production for the citizens of Maryland. The state program purchases development rights on farms and restricts them to only agricultural uses by using perpetual agricultural conservation easements, which are recorded in the land records. In other words, the program pays landowners to continue what they have done for years, decades, or sometimes a century or more — farm their land.

MALPF easements allow for all types of agricultural operations to be conducted on the farm. The easement defines agriculture/agricultural uses as "any use of the easement property which directly contributes to the production, conversion, processing, storage, or sale of agricultural products generated on the easement property and/or management of products such as livestock, horses, poultry, crops, trees, shrubs, plants, other vegetation, and aquaculture." It is important that the terms of the easement allow for owners to grow and evolve as the agricultural industry changes through the years.

Established in 1977, and has since grown into one of the most successful programs

of its kind in the country.



Frederick County Farm



Eligibility and Criteria

SIZE: The minimum easement size is 50 contiguous acres. If a property is less than 50 acres, a landowner may still be eligible to apply and should visit our website to review Fact Sheet 12, "Small Properties in the Agricultural Land Preservation Program," or confer with the local program administrator.

If a property is contiguous to an existing easement, the landowner may apply to sell an easement regardless of the acreage.

PRODUCTIVITY: An easement is purchased on land that is either currently being used for producing food or fiber or has the capability to do so. Woodland management and harvesting operations are eligible to join this program. The productivity of the soil as measured by the U.S. Department of Agriculture's (USDA) Soil Conservation Service Land Classification System is a major criterion. Soil requirements for the property to qualify to participate in the program are:

- At least 50% of the land is classified as Class I, II, or III soils; or -
- If the land is wooded, 50% of the land is classified as Woodland Group 1 or 2 soils; or -
- If the reason the land could not meet the above conditions was because of flood-plain or wetland soils, those areas could be excluded as a percentage of land; or -
- If there is an insufficient percentage of Class I, II, or III soils alone and there is an
 insufficient percentage of Woodland Groups 1 and 2 soils alone, the land would qualify if
 the combination of the two exceeded 60%; or -
- Land with lower soil capabilities may qualify under certain conditions.

LOCATION: Land that lies within the boundaries of a 10-year water and sewer service area plan is generally ineligible unless it has extraordinary productive capability and is of significant size.

DEVELOPMENT RIGHTS: A property must have at least one unused development right associated with the property to sell an easement.

LOCAL CRITERIA: The criteria listed above are the minimum eligibility standards set by the state. The program is administered jointly by the county and state. The county may impose criteria which could be in addition to or more stringent than the state. The county also ranks the applications in order of priority and may be limited by MALPF in the number of applications that are forwarded to MALPF in an application cycle.

2024 Legislative Update

SB 777/HB 918 - State Treasurer - Membership Responsibilities

This legislation removed the State Treasurer (or his/her representative) as an ex officio member of the MALPF Board (as well as other state boards and commissions). This will reduce the MALPF Board of Trustees from thirteen, to twelve members, which will create the possibility of a tie vote, which is effectively a "no" vote, since a majority vote is required to approve any motion, etc. The law became effective June 1, 2024.

SB 969/ HB 1165- Watershed, Stream, and Floodplain Restoration - Chesapeake and Atlantic Coastal Bays Restoration and Stream and Floodplain Restoration Funding (Whole Watershed Act)

The Whole Watershed Act (the "Act") passed into law with an effective date of July 1, 2024. Among other things, the Act creates a Whole Watershed Restoration Partnership and Fund under the Department of Natural Resources to accelerate restoration of the Chesapeake Bay and Atlantic Coastal Bays and their watershed. The Act will be funded from multiple existing programs and agencies, including MALPF (as well as the Maryland Agricultural Cost Share Program – MACS), to pay for the projects under the Whole Watershed Restoration Partnership.

The Maryland Department of Agriculture has a representative on the State Management Team that provides guidance on the creation and administration of the Act. The Act does not include any specifics on the amount or timing of funds that could be diverted from MALPF into the Whole Watershed Restoration Partnership projects. The details of implementing the Act will be developed over the next year.



Frederick County Farm



FY24 Report on the Certification of Local Agricultural Land Preservation Programs

Maryland's Certification of Local Agricultural Preservation Programs, known as the Certification Program, was created in 1990. The goals of the program are to:

- Preserve the important role agriculture plays in maintaining the state's high environmental quality;
- Encourage development of county agricultural preservation programs, which complement the Maryland Agricultural Land Preservation Foundation's (MALPF) preservation efforts; and
- Employ agricultural land preservation as a tool to manage growth.

Counties able to demonstrate they have an effective program to preserve productive farmland and forests are eligible to participate in the Certification Program. Local preservation programs consist of a combination of preservation tools such as low-density agricultural zoning, purchase or transfer of development rights programs, right-to-farm policies, support for agricultural businesses, and the designation of agriculture as the best use of certain lands.

To qualify for and retain certified status, counties are required to designate a Priority Preservation Area (PPA). Counties concentrate their preservation efforts and program funding into their PPAs in order to preserve large contiguous blocks of agricultural and wooded land.

Participation in the Certification Program by interested counties is voluntary. Certified counties enjoy the benefit of retaining 75% of their locally generated agricultural transfer tax revenue, while non-certified counties retain 33%. All retained revenue must be spent or encumbered for qualifying land preservation expenditures within six years of collection, otherwise those collected funds revert to MALPF. The increase in participating counties' share of the agricultural land transfer tax helps to support and enhance their preservation programs in ways that best meet local goals and needs.

In FY24, Charles County submitted its recertification report for joint action by the Maryland Department of Planning (MDP) and the MALPF Board. To determine eligibility for recertification, MDP reviews each county request against the Certification Program's regulatory requirements, and then makes a recommendation to the Secretary of Planning and the MALPF Board.

As of June 30, 2024, 17 of the 23 counties are now certified. Recertification reports were due on October 1, 2024 for Harford, Prince George's, Talbot and Washington counties, whose certification periods end on June 30, 2025 (extensions are available). Interim certification reports are due from Anne Arundel, Baltimore, Calvert, Caroline, Carroll, Cecil, Frederick, Kent, Montgomery, Queen Anne's, St. Mary's and Worcester counties.

A 5-year recertification period is required by law for county farmland preservation programs that MDP and the MALPF Board determine to be consistently effective in achieving preservation goals.

MALPF Board of Trustees Field Trip

MALPF Board of Trustees ("Board") continues to hold its monthly meetings virtually, with the Board, MALPF staff, county partners, landowners, and other interested parties participating either through their computers, or by phone. The virtual Board meetings have been efficient and successful, with the Board electing to maintain meeting virtually rather than returning to in person meetings.

The MALPF field trips are not Board meetings, but learning opportunities, as well as an avenue for Board members in attendance to interact with each other and MALPF staff. Through field trips, Board members and staff have an opportunity to meet the landowners, learn about their farms, and to continue learning about different types of agricultural operations (including forestry) throughout Maryland. This year, MALPF staff organized an Eastern Shore field trip, to learn more about the forestry industry in Maryland.



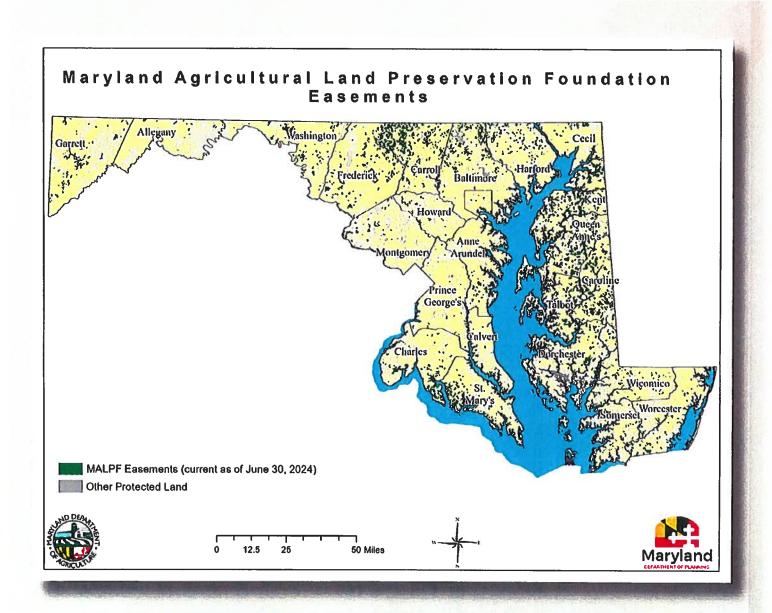
The field trip made three stops, each focusing on different aspects of the forest industry. The day started by visiting an easement property in Queen Anne's County owned by the Rhodes family. This easement is actually held by the Eastern Shore Land Conservancy, which provided an opportunity to discuss how the various easement programs work collaboratively. The Rhodes incorporate timber harvesting into the management of their farm, and there was a good discussion regarding a recent timber harvest, where they worked with professional foresters to ensure that the family's objectives were met, and the harvest was conducted using best management practices both during and after it was completed.



After the property visit, the group visited Hardwood Mills and saw firsthand how logs are turned into lumber. It was fascinating to watch the operators work (not to mention very loud). The final stop of the day was to Cypress Branch State Park, a Department of Natural Resources owned property. The group was shown a recently installed wood heating system (a wood chip boiler)that is used to heat structures at the State Park. This system shows how wood can help meet Maryland's green energy goals, while also supporting the forestry industry. The Board and staff learned a great deal about Maryland's forestry industry, and how forest management and harvests on easement properties can be part of the process.

The Board looks forward to field trips continuing in 2025. Getting out and meeting the farm owners, and seeing the farms in person, provides both Board members and staff opportunities to see the impact that the MALPF program has made around the State.

MALPF Statewide Easement Map



Easement Settlements in FY24

COUNTY	NUMBER OF EASEMENTS	TOTAL NUMBER OF ACRES	ACQUISIT	ION COST	AVERAGE FARM SIZE IN ACRES
			AVERAGE PER ACRE	TOTAL	
Allegany					
Anne Arundel	1	105	\$10,901	\$1,147,500	105
Baltimore	2	223	\$7,089	\$1,584,100	112
Calvert					
Caroline	8	1,445	\$3,112	\$4,496,092	181
Carroll	8	601	\$7,111	\$4,274,609	75
Cecil	1	136	\$5,733	\$782,340	136
Charles	13	1,394	\$3,850	\$5,366,372	107
Dorchester	7	682	\$3,497	\$2,384,386	97
Frederick	10	1,572	\$6,541	\$10,281,228	157
Garrett	1	173	\$2,100	\$362,550	173
Harford	8	593	\$6,912	\$4,096,159	74
Howard	1	14	\$12,093	\$173,654	14
Kent	8	1,745	\$4,091	\$7,139,955	218
Montgomery	1	293	\$6,996	\$2,051,635	293
Prince George's				The second secon	
Queen Anne's	8	1,807	\$3,569	\$6,451,501	226
St. Mary's	5	634	\$7,875	\$4,990,305	127
Somerset	3	535	\$2,376	1,270,921	178
Talbot	3	350	\$4,527	\$1,585,732	117
Washington	6	801	\$4,704	\$3,766,527	133
Wicomico	4	432	\$3,248	\$1,401,484	108
Worcester	4	476	\$1,605	\$764,454	119
TOTALS	102	14,012	\$4,594	\$64,371,504	137

Easement Acquisition Costs in FY24

	*	As of June 30, 2024	
FISCAL YEAR	NO. OF FARMS	ACQUISITION COST	ACRES
FY77 - FY06	1,708	\$342,578,700	236,259
FY07	70	\$40,297,919	9,592
FY08	106	\$78,270,208	13,810
FY09	79	\$68,588,962	9,787
FY10	68	\$52,814,641	8,816
FY11	14	\$6,783,740	1,527
FY12	41	\$21,217,570	4,692
FY13	16	\$7,925,597	1,773
FY14	52	\$26,302,733	6,117
FY15	33	\$19,569,931	4,324
FY16	31	\$17,719,957	4,219
FY17	28	\$17,062,423	4,481
FY18	56	\$29,561,084	7,402
FY19	46	\$23,838,120	5,530
FY20	65	\$31,486,292	8,335
FY21	91	\$43,127,680	10,656
FY22*	82	\$47,777,257	11,240
FY23*	69	\$32,873,695	7,448
FY24	102	\$64,371,504	14,012

^{*}Corrections made to previous year's reporting.

Total Easements Acquired through 2024

County	Total Easements Acquired		PERCENT OF TOTAL	
	Number	Acreage	Cost	OF IOIAL
Allegany	18	2,010	\$4,100,079	0.54%
Anne Arundel	47	5,807	\$25,383,314	1.57%
Baltimore	268	26,927	\$105,113,299	7.28%
Calvert	35	4,715	\$12,267,678	1.27%
Caroline	250	36,344	\$44,129,820	9.82%
Carroll	411	46,748	\$111,445,344	12.63%
Cecil	108	16,087	\$41,245,305	4.35%
Charles	115	16,097	\$54,415,859	4.35%
Dorchester	111	16,875	\$26,054,158	4.56%
Frederick	180	27,347	\$81,987,734	7.39%
Garrett	63	7,893	\$12,118,036	2.13%
Harford	169	17,686	\$64,651,709	4.78%
Howard	34	4,098	\$8,355,364	1.11%
Kent	133	25,403	\$62,542,103	6.87%
Montgomery	37	5,646	\$24,490,338	1.53%
Prince George's	20	1,972	\$15,524,196	0.53%
Queen Anne's	214	36,861	\$77,892,540	9.96%
St. Mary's	149	15,304	\$67,664,053	4.14%
Somerset	64	7,266	\$12,845,550	1.96%
Talbot	91	13,923	\$38,446,069	3.76%
Washington	100	16,012	\$45,696,521	4.33%
Wicomico	70	8,370	\$16,460,534	2.26%
Worcester	70	10,614	\$19,767,037	2.87%
TOTALS	2,757	370,005	972,596,640	100.00%

^{****}Chart was inadvertently omitted from FY2023 Annual Report****

MALPF Board and Staff

Appointed Board Members

William Allen, Chair, Member At-Large
Cricket Goodall, Vice Chair, Maryland Farm Bureau Representative
Gilbert O. Bowling, Jr., Member At-Large
Catherine Cosgrove, Member At-Large
Gary Dell, Member At-Large
Elizabeth Hill, Maryland Agricultural Commission Representative
Joseph W. Wood, Member At-Large
J. Bruce Yerkes, Maryland Grange Representative
Vacant, Young Farmer Representative

Ex-Officio Board Members

Honorable Brooke E. Lierman, Maryland Comptroller Honorable Kevin Atticks, Maryland Secretary of Agriculture Honorable Rebecca Flora, Maryland Secretary of Planning

Foundation Staff

Michelle Cable, Executive Director
Chana Turner, Lead Administrator
Elizabeth Beales, Administrator
Rama Dilip, Administrator
Erin Lueders, Administrator
Kim Hoxter, Administrative Officer
Amanda Massoni, Fiscal Specialist









County Program Contacts

CONTACT INFORMATION

(Chair of County Agricultural Advisory Boards listed in *italics*)

ALLEGANY	DORCHESTER	QUEEN ANNE'S
Roy S. Cool, Planner	Cassie Dyson	Donna K. Landis-Smith
Department of Planning & Zoning	Planning & Zoning	Queen Anne's County SCD Office
701 Kelly Road, Suite 109	Post Office Box 107	211 E. Water Street
Cumberland, MD 21502	501 Court Lane, Room 111	Centreville, MD 21617
rcool@alleganygov.org	Cambridge, MD 21613	(443) 988-4178
phone 301 876-9552	(410) 228-3234 X1149	Chair: Randy Hutton
Chair: Benjamin Sansom	Chair: Vacant	
ANNE ARUNDEL	FREDERICK	ST. MARY'S
Jane Cox (acting)	Shannon O'Neil	Priscilla Leitch
Dept. of Planning & Zoning 2664 Riva Rd. 4 th Floor	Office of Agriculture	Dept. of Econ. & Com. Dev.
2664 Riva Rd. 4 th Floor	118 N. Market St.	P.O. Box 653
Annapolis, MD 21401	Frederick, MD 21701	26737 Radio Station Way, Suite E-1
(410) 222-7444	(301) 600-1411	Leonardtown, MD 20650
Chair: Steve Hopkins	Chair: Sandra Tucker	(240) 309-4022
		Chair: Jow Wood
BALTIMORE	GARRETT	SOMERSET
Megan Benjamin	Siera Wigfield, Senior Planner	Catherine Skeeter
Baltimore Čo. Dept. of Planning	Office Of Planning & Land Management	Planning & Zoning
105 West Chesapeake Ave, Suite #101	203 South 4th Street Room 208	Somerset County Office Complex
Towson, MD 21204	Oakland, MD 21550	11916 Somerset Avenue
(410) 887-3480	swigfield@garrettcounty.org	Princess Anne, MD 21853
Chair: Richard M. Bernstein	(301) 334-7477	(410) 651-1424
	Chair: Gary Berkebile	Chair: Mike King
CALVERT	HARFORD	TALBOT
Jennifer David	Jennifer Wilson	Elisa Deflaux, Dept. of Planning &
	Planning & Zoning	Zoning
Dept. of Planning & Zoning	220 South Main Street	215 Bay Street, Suite 2
County Service's Plaza 3rd Floor 150 Main Street, Suite 304	Bel Air, MD 21014	Easton, MD 21601-2782
Prince Frederick, MD 20678	(410) 638-3103 x 1353	(410) 770-8034
	Chair: Jeffrey Holloway	Chair: Vacant
(410) 535-1600 x-2338 Chair: V. Wilson Freeland	Chair: Jejjrey Holloway	Chair. Vacana
Chair: V. Wilson Freeland		
CAROLINE	HOWARD	WASHINGTON
		IMMIIIIGION
It only Committee (actions)	Lov Lorsi	Chrie Rogge
Leslie Grunden (acting)	Joy Levy	Chris Boggs Wash Co Dont Planning & Zouing
Dept. of Planning & Codes	Planning & Zoning	Wash, Co. Dept. Planning & Zoning
Dept. of Planning & Codes Health & Public Services Building	Planning & Zoning 3430 Courthouse Drive	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue
Dept. of Planning & Codes Health & Public Services Building 403 South 7 th Street, Suite 210	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742
Dept. of Planning & Codes Health & Public Services Building 403 South 7 th Street, Suite 210 Denton, MD 21629	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447
Dept. of Planning & Codes Health & Public Services Building 403 South 7 th Street, Suite 210 Denton, MD 21629 (410) 479-8105	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742
Dept. of Planning & Codes Health & Public Services Building 403 South 7 th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth
Dept. of Planning & Codes Health & Public Services Building 403 South 7 th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr.	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice
Dept. of Planning & Codes Health & Public Services Building 403 South 7 th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey Planning, Housing & Zoning	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey Planning, Housing & Zoning 400 High Street	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr.	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chain: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chain: Thomas E. Irwin, Jr. CECIL	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chain: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chain: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chain: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chain: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chain: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chain: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chain: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chain: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carman CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond Vice Chair: Brandon Van Bibben CHARLES	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond Vice Chair: Brandon Van Bibben CHARLES	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond Vice Chair: Brandon Van Bibben CHARLES Charles Rice, Dept. of Planning &	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond Vice Chair: Brandon Van Bibben CHARLES Charles Rice, Dept. of Planning & Growth Management	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KBNT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler PRINCE GEORGE'S Jeanine Nutter Soil Conservation District Field Service Center	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond Vice Chair: Brandon Van Bibben CHARLES Charles Rice, Dept. of Planning &	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler PRINCE GEORGE'S Jeanine Nutter Soil Conservation District	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond Vice Chair: Brandon Van Bibben CHARLES Charles Rice, Dept. of Planning & Growth Management ricec@charlescountymd.gov 200 Baltimore St.	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler PRINCE GEORGE'S Jeanine Nutter Soil Conservation District Field Service Center 5301 Marlboro, MD 20772	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
Dept. of Planning & Codes Health & Public Services Building 403 South 7th Street, Suite 210 Denton, MD 21629 (410) 479-8105 Chair: Beth Carmean CARROLL J.P. Smith, Jr. County Office Building 225 North Center Street Westminster, MD 21157 (410) 386-2214 Chair: Thomas E. Irwin, Jr. CECIL William Goldman, Planning & Zoning wgoldman@ccgov.org 200 Chesapeake Blvd., Suite 2300 Elkton, MD 21921 (410) 996-5220 Chair: Paul Drummond Vice Chair: Brandon Van Bibben CHARLES Charles Rice, Dept. of Planning & Growth Management ricec@charlescountymd.gov 200 Baltimore St. La Plata, MD 20646 (301) 645-0651	Planning & Zoning 3430 Courthouse Drive Ellicott City, MD 21043 (410) 313-4382 Chair: Jamie Brown KENT Robert Tracey Planning, Housing & Zoning 400 High Street Chestertown, MD 21620 (410) 778-7467 Chair: David Hill MONTGOMERY Mike Weyand 18410 Muncaster Road Derwood, MD 20850 (301) 590-2856 Chair: Randy Stabler PRINCE GEORGE'S Jeanine Nutter Soil Conservation District Field Service Center 5301 Marlboro, MD 20772 (301) 574-5162 X3	Wash. Co. Dept. Planning & Zoning 747 Northern Avenue Hagerstown, MD 21742 (240) 313-2447 Chair: David Roth WICOMICO Kaylee Justice P.O. Box 870 125 North Division Street, Rm 203 Salisbury, MD 21803-0870 (410) 548-4860 Chair: Marshall Wells WORCESTER Katherine Munson Natural Resources Division Worcester County EP 1 West Market Street, Room 1302 Snow Hill, MD 21863-1070 (410) 632-1220 X1302
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