Delivering on our *Proud* PRIORITIES

Stormwater Management

Prince George's County, MD Proud — Get to Know Us

Angela D. Alsobrooks
County Executive

The Alsobrooks Administration is committed to creating more climate resilient communities through investments in stormwater management including residential storm drain maintenance, flood control, water quality restoration, education and outreach, research and planning.

Storm Drain Maintenance

The County' implements residential storm drain relief capital improvement projects (CIP) to address adverse drainage, flooding, or erosion conditions on residential properties. This program utilizes a priority rating system that has established criteria for eligible properties.

SPOTLIGHT: Flood Control Projects

Bear Branch Stream Restoration

The Bear Branch Stream Restoration project in Laurel is a major project accomplishment both in scale and scope. The stream restoration project limits were from Van Drusen Road and extend downstream to the sediment forebay at Laurel Lakes. Over 3,196 lf of eroded stream bed/ bank were restored and stabilized. Completed in July of 2022, and the project achieved 342 acres impervious surface treated (ISR) credit reportable under the County's MS4 Permit.

Bear Branch Stream Restoration Project
Laurel, MD

Riverdale Park Channel Improvements, Ph. 1

Riverdale Channel Rehabilitation Phase I – Wells Run Maintenance Improvements is currently under contract for construction. The project extends from 49th Avenue to Ravenswood Road. OSDM will install a 6-12 inch (up to 18 inches in low points) curbing that will increase the channel's capacity by approximately 15-18%. The curb will also have the co-benefit of reducing sediments and trash flowing into the stream from the rear of the properties. The work occurs within the existing easement and behind fence lines. DPW&T reviewed to ensure there were no adverse impacts from installing the curbing. The maintenance effort will be completed in the Summer of 2024.

Calvert Hill Drainage Improvement

The Calvert Hills Drainage Improvement Capital Improvement Project (CIP) represents major drainage infrastructure improvements in College Park, and within the Calvert Hills community. The design solution focuses on reducing flooding frequency through a combined approach of stormwater channel improvements, upgraded stormdrain conveyance systems, and underground stormwater detention structure to temporarily store and release stormwater flows.

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Water Quality Restoration

The County works to restore the health and beauty of community waterways by implementing water quality restoration Best Management Practices throughout streams, ponds, and storm drain infrastructure. These practices filter and remove pollutants resulting in improved water quality, habitat, and community uplift. Since 2019, the Alsobrooks Administration has implemented 316 water quality restoration projects restoring more than 5000 impervious acres. Here are some fast facts:

- 1200 inlets cleaned
- 5200 cubic yards of sediment removed in FY 2022
- 2600 linear feet of roadside drainage ditches cleaned
- Over $1 million invested in pumping station maintenance
- 29,600 linear feet of roadside drainage ditches cleaned

Residential Programs

The Alsobrooks Administration invests in outreach initiatives to improve the quality of life for neighbors and build climate resilience through green solutions that help residents manage stormwater runoff.

Rain Check Rebate Program

The Rain Check Rebate Program allows property owners to receive rebates for installing 'Rain Check' approved stormwater management practices. Homeowners, business and nonprofit entities (including housing cooperatives and churches) can recoup some of the costs of installing practices covered by the program.

- Rain Check Rebate Program (since Inception 2012)
- Number of applications approved: 1,212
- Number of best management practices Installed: 2,789
- Rebate amount awarded: $1,257,371

Stormwater Stewardship Grant Program

The Prince George's Rain Check Rebate program offers rebate incentives to homeowners, businesses, and others to install sustainable stormwater practices that will not only improve stormwater runoff quality but also help build community-wide climate resilience to flooding and other climate change vulnerabilities.

- Number of grants awarded: 139
- Grant amounts awarded: $11,383,213

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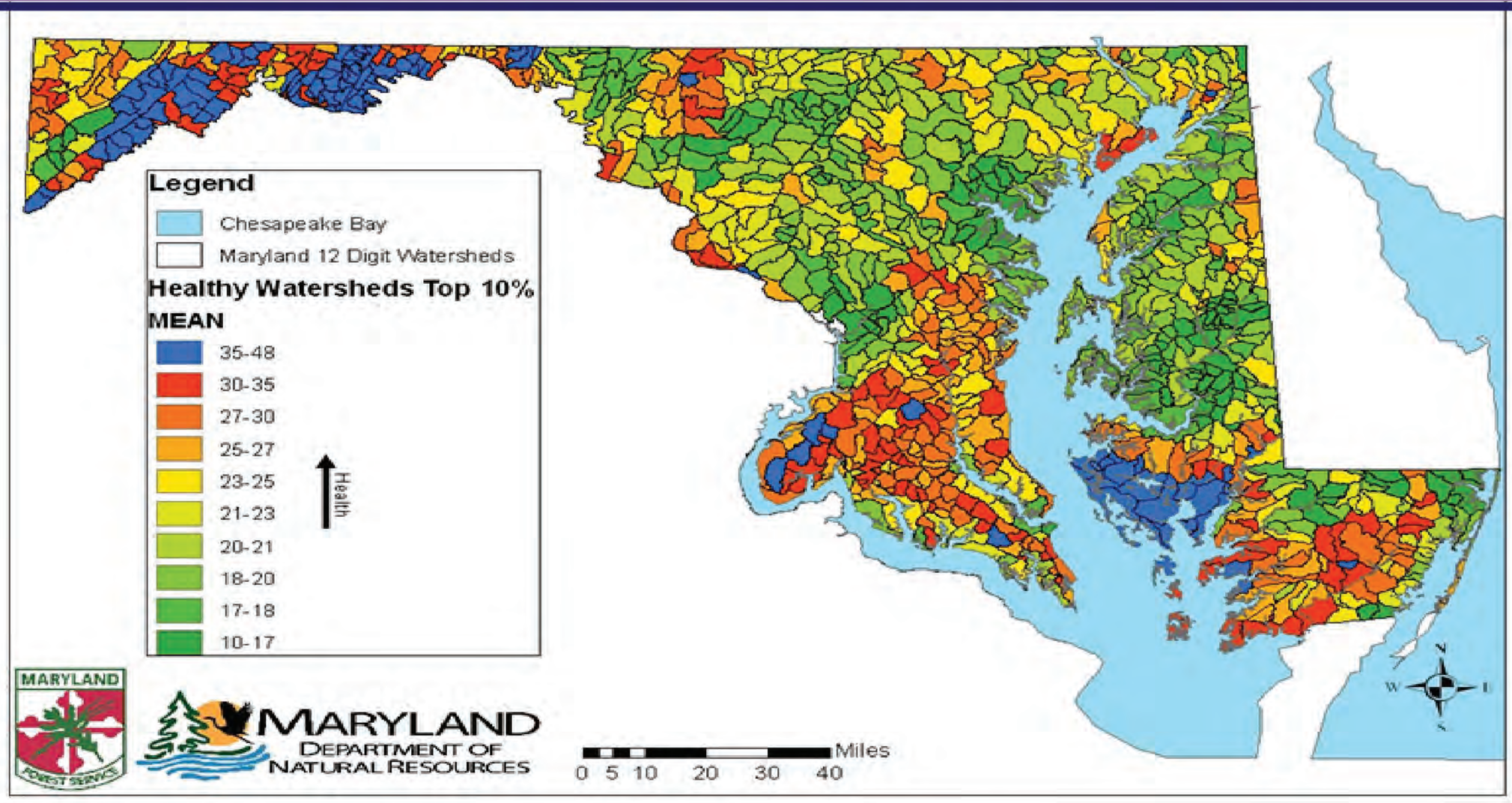
Research, Studies and Planning



Watershed-Level Flood Hazard Assessment and Mitigation Study

Initiated Watershed-Level Flood Hazard Assessment and Mitigation Study to define flood risks and identify flood mitigation alternatives for communities in the Western Branch, Guilford Run, Wells Run and Piscataway Creek Watersheds. Collectively, these watersheds encompass approximately 155 square miles of the total area within County's geographical boundary (approximately 500 square miles).

Investment $2,300,000 (ARPA Grant) + $233,000 (US Army Corp Engineers' funded)

Oxon Run Watershed-Level Flood Study

Initiated Watershed-Level Study to update flood hazard risks along the major streams of Oxon Run watershed. This study will update the county flood hazard area maps using current data and methodologies.

Investment Fully funded by US Army Corp Engineers under their Floodplain Management Services (FPMS) program)

Nuisance Flood Plan Phase 2: Urban Nuisance Flooding

Drafted the Nuisance Flood Plan Phase 2: Urban Nuisance Flooding. This plan identifies areas which are prone to nuisance flooding in urban areas (regular flooding due to poor drainage), identifies data gaps, refines options for tracking the effects over time, and identifies recommended actions to reduce flood risks. It builds upon the Nuisance Flood Plan Phase 1 which looked at nuisance flooding in the County caused by tidal events. The draft is under review.

Investment $115,000 (DNR Grant and County Funded)

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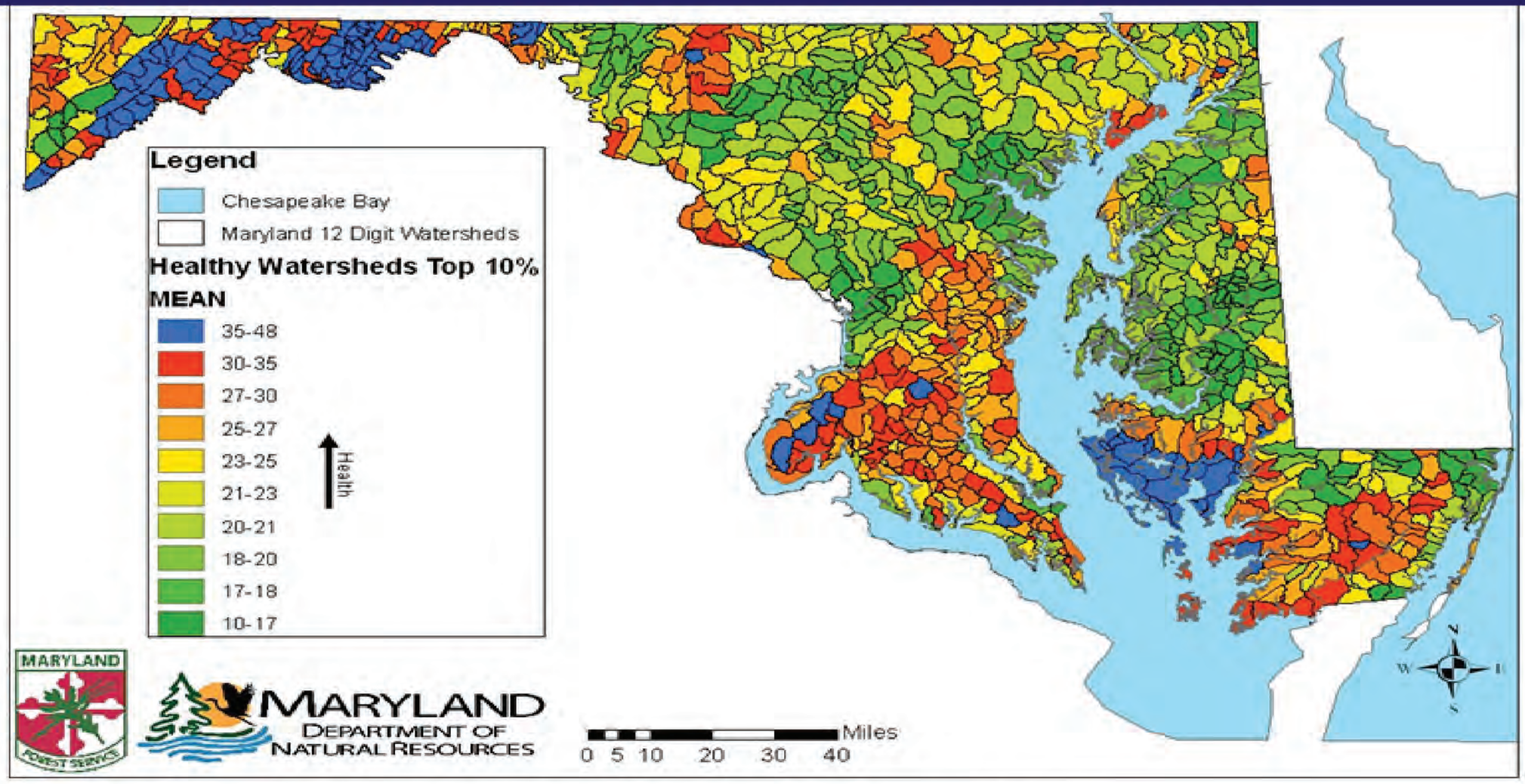

Residential Drainage – A Homeowner's Guide to Drainage Problems and Solution.

Produced the first phase of guidance document entitled, "Residential Drainage – A Homeowner's Guide to Drainage Problems and Solution," to help residents identify sources of common drainage problems and to guide them on do-it-yourself measures to protect and prevent these problems.

Investment: $60,000

Green Infrastructure Blitz Pilot Project

DoE is empowering residents to reduce and control runoff from their properties to alleviate localized flooding. This pilot will take a community-level approach to lessen frequency and severity of localized flooding and reduce flood damages by installing micro green infrastructure (GI) practices on residential properties. GI practices provide a dual benefit for water quality and quantity controls. The pilot project will demonstrate how cumulatively reducing runoff from individual residential lots is integral to combat localized flooding problems especially when paired with larger stormwater management improvement projects. It will promote GI practices which are available under the County's Rain Check Rebate Program and utilize grant funding to help reduce financial barriers to participation in the pilot project. Focus on communities in North Brentwood, Ft. Washington and in the vicinity of Joint Base Andrews.

Investment: Approximately $2,000,000 (Stormwater Stewardship Grant Program)

Joint Base Andrews (JBA) Community Resilience

Through a grant award from the US Department of Defense (DoD), DoE is undertaking a Stormwater Water Management Modeling (SWMM) study of the Henson Creek and Tinker Creek Watersheds to identify grey and green infrastructure improvement projects that will ultimately support Joint Base Andrews (JBA) military operations climate resilience. Through flood modeling of extreme weather-related events, the study will inform and rank the most critical county-owned drainage and roadway infrastructure around JBA at greatest risk during intense or extreme storm events. Staff anticipates using the study findings to justify, pursue, and leverage future available federal funding to construct any recommended stormwater and drainage improvement projects in partnership with JBA and DoD.

Investment: $712,800 (US Department of Defense grant) + $79,200 (County match)