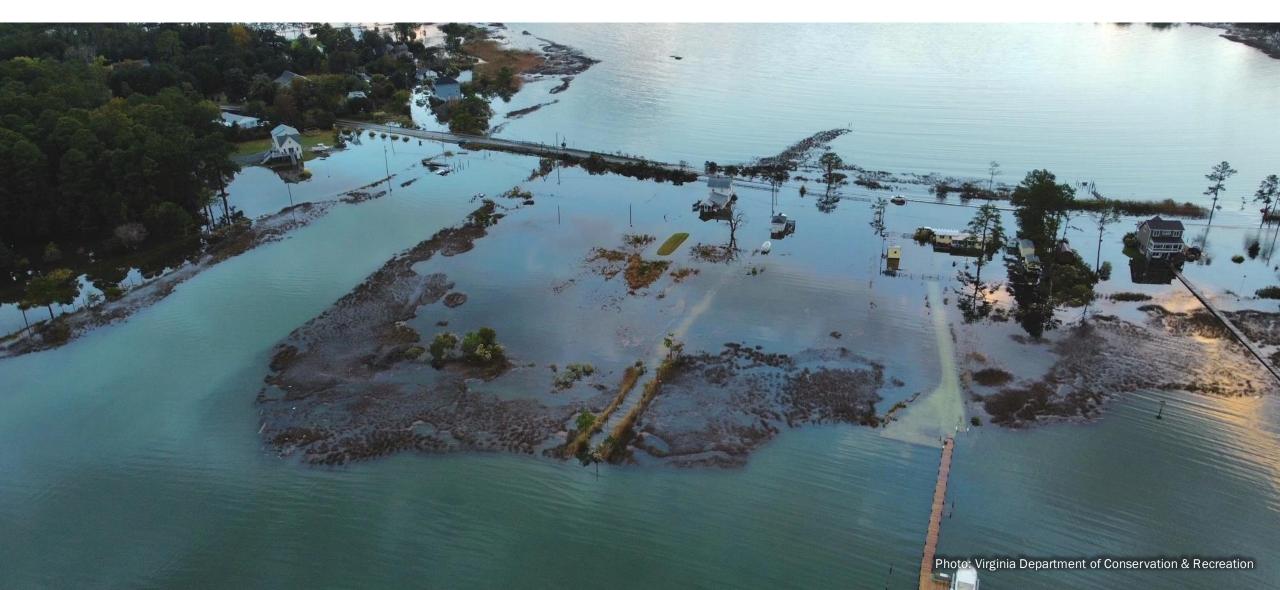




Coastal Resilience Master Plan, Phase II

Northern Neck Community Meeting | September 23, 2024



Welcome!



Tonight's Objectives

- Share information about the changing picture of flood risk and identified flood resilience solutions in coastal Virginia.
- Hear about your experiences with flooding and its impacts.
- Connect community members to flood resilience resources and practitioners.





Our Agenda

Presentation on the Coastal Resilience Master Plan, Phase II DCR Office of Resilience Planning

Learning and Sharing Stations
Open Time for All Attendees to learn
more about the CRMP and other
flood resources



OPEN HOUSE WALKTHROUGH

Join us and your fellow community members to talk about what's happening in your area, what you can do about it, and how we can come together to encourage action.

Station One: Flood Hazard Impacts

Explore our future flood projections to learn more about changing flood risk in your community.

Q&A with DCR staff about data findings and the CRMP. Phase II updates.

Station Two: Solutions Underway

Learn more about the ongoing flood resiliencerelated projects and initiatives in your community.

Q&A with DCR staff to learn about the CRMP's projects and initiatives inventory.

Station Three: Flood Stories and Mapping

Map locations of where you experienced flooding and talk with a project team members about how flooding affects your life.

Station Four: Flood Risk Look-Up

Explore the Virginia Flood Risk Information System (VFRIS) with DCR to learn more about current regulatory flood maps for areas where you live, work, and recreate

Station Five: Local/Regional Government

All tables with the number 5 are local/regional government representatives in your community.

Learn more about local flooding resources, programs, and activities.

Station Six: Partner Organizations

All tables with the number 6 represent flood resilience-related partner organizations.

Learn more resources, programs, and initiatives in your community and across the state.







Virginia DCR's Role in Flood Resilience



Virginia Department of Conservation and Recreation (DCR)

- Who We Are: Virginia's lead natural resource conversation agency
- What We Do: Enable and encourage people to enjoy and benefit from Virginia's natural and cultural resources
- What We Value: The diversity of nature, culture and communities to ensure a sustainable and equitable future for recreational access and a healthy environment for all Virginians to enjoy.
- How We Do It: DCR accomplishes its mission through funding, expertise, education, acquisition and improved access.





DCR Office of Resilience Planning

Planning for a flood resilient future.



Matt Dalon
Program Manager



Carolyn Heaps-Pecaro Resilience Planner



Arthur Kay
Resilience Planner



Ellie Plisko VCU Wilder Fellow

Our mission is to distribute knowledge and coordinate action to achieve a flood-resilient future for Virginia through informed planning and proactive, intergovernmental solutions.

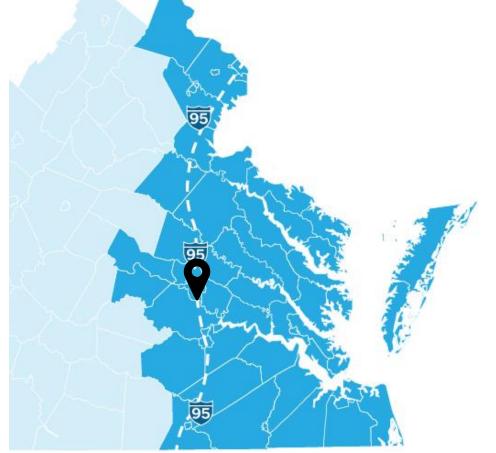


The Virginia Coastal Resilience Master Plan

A **trusted resource** to assist government entities in making evidence-based decisions to mitigate severe and repetitive flooding.

- Provides a unified baseline analysis of the threat of increasing flood exposure and impacts.
- **Identifies opportunities** to prioritize impactful flood resilience solutions.

Despite being called "coastal" the plan addresses all forms of flooding in this region. Nearly six million people, or 70% of the state's population, call coastal Virginia home.





Coastal Resilience Master Plan, Phase II

The Phase I Plan was released in December 2021. Phase II of the plan will be released in **December 2024.**

WHAT'S NEW IN PHASE II?



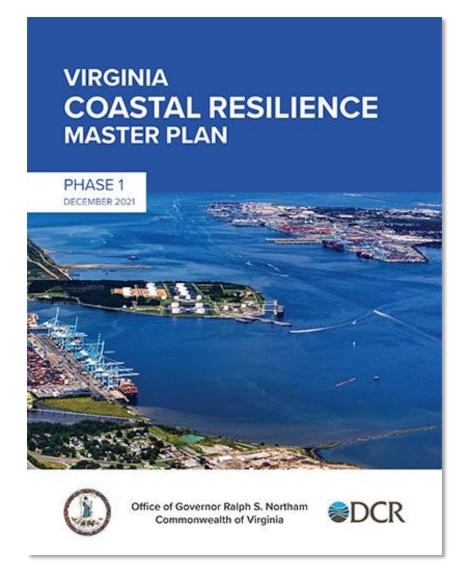
Identify flood hazard exposure and impacts based on all major sources of flooding, including coastal, rainfall-driven and riverine flooding.



Update the online inventory of **projects, initiatives, and funding** for flood resilience using info from active stakeholders.



Document opportunities for continued improvement in flood hazard data, technical assistance, funding, engagement, and more.





Outreach and Engagement for a Better Plan

OUR GOALS FOR CONNECTING WITH STAKEHOLDERS

- Understand how our end-users would like to use our findings.
- Understand on-the-ground experiences with flooding to be able to present them alongside our modeled findings.
- Understand solutions to address flood risk and present them in the plan.
- Drive awareness of coastal flooding and encourage whole community action toward coastal flood resilience.







Coastal Resilience Master Plan, Phase II: Plan Components

FLOODING IN COASTAL VIRGINIA

FLOOD HAZARDS

Where is flooding likely to occur in the future?

FLOOD IMPACTS

What impacts is flooding likely to cause in the future?

ADVANCING FLOOD RESILIENCE

FLOOD RESILIENCE SOLUTIONS

What projects and initiatives are underway to address flooding?

FINANCING FLOOD RESILIENCE

How much money is needed for flood resilience? What funding resources exist?

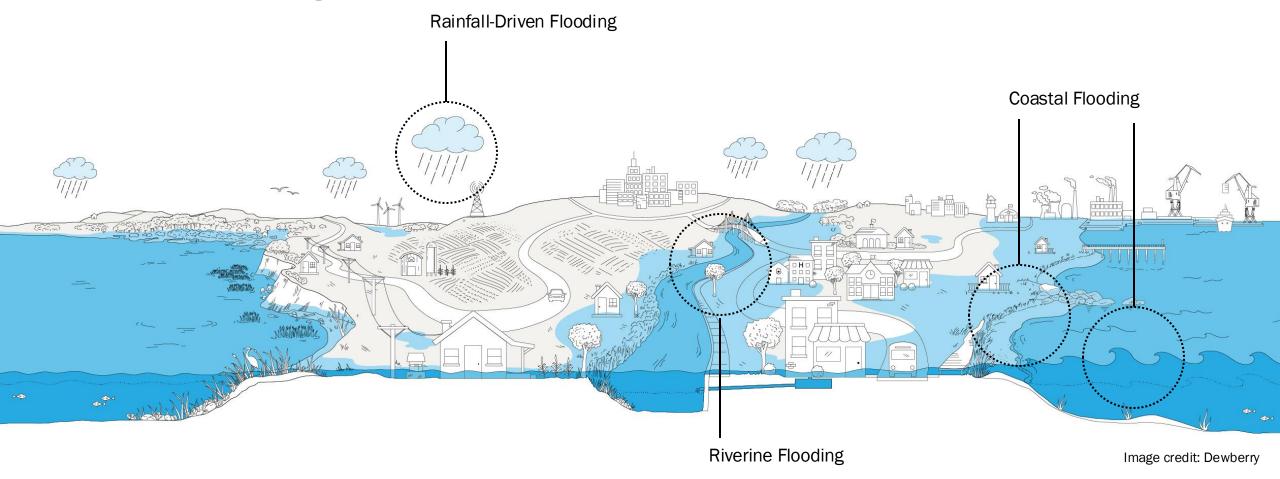
RECOMMENDATIONS

What actions should the state and other actors take to continue addressing flooding in coastal Virginia over the next four years?

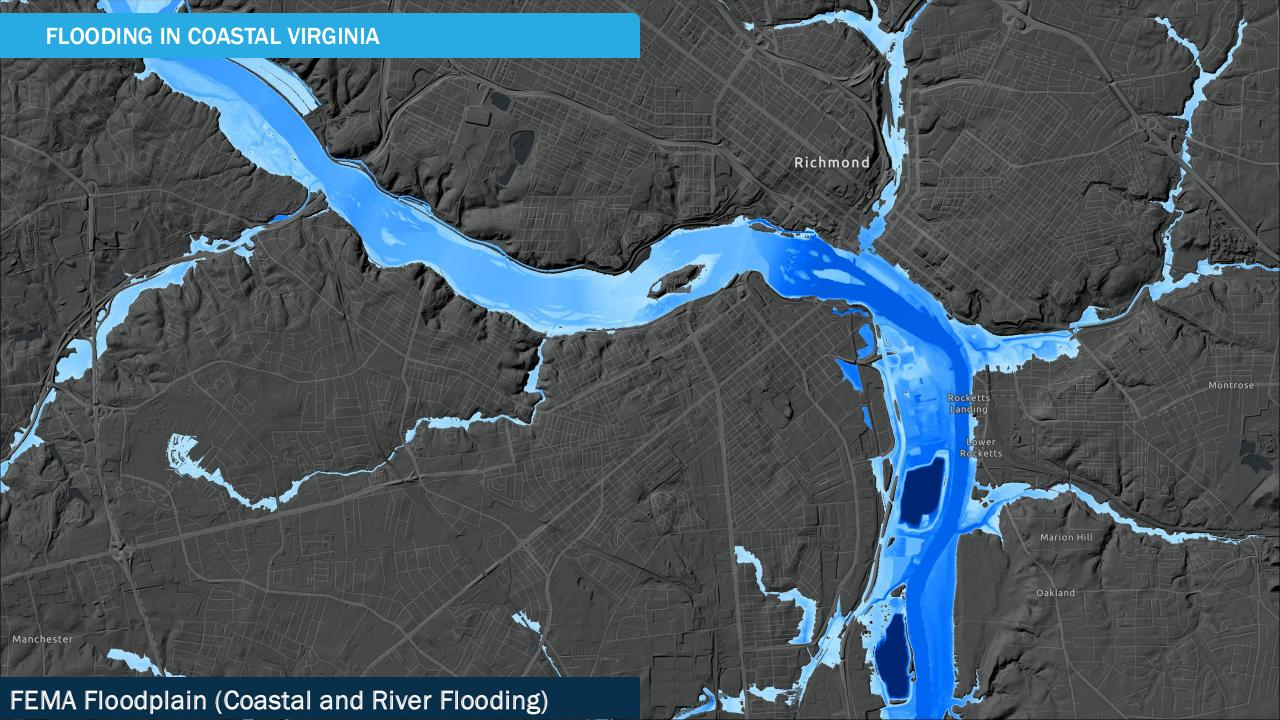


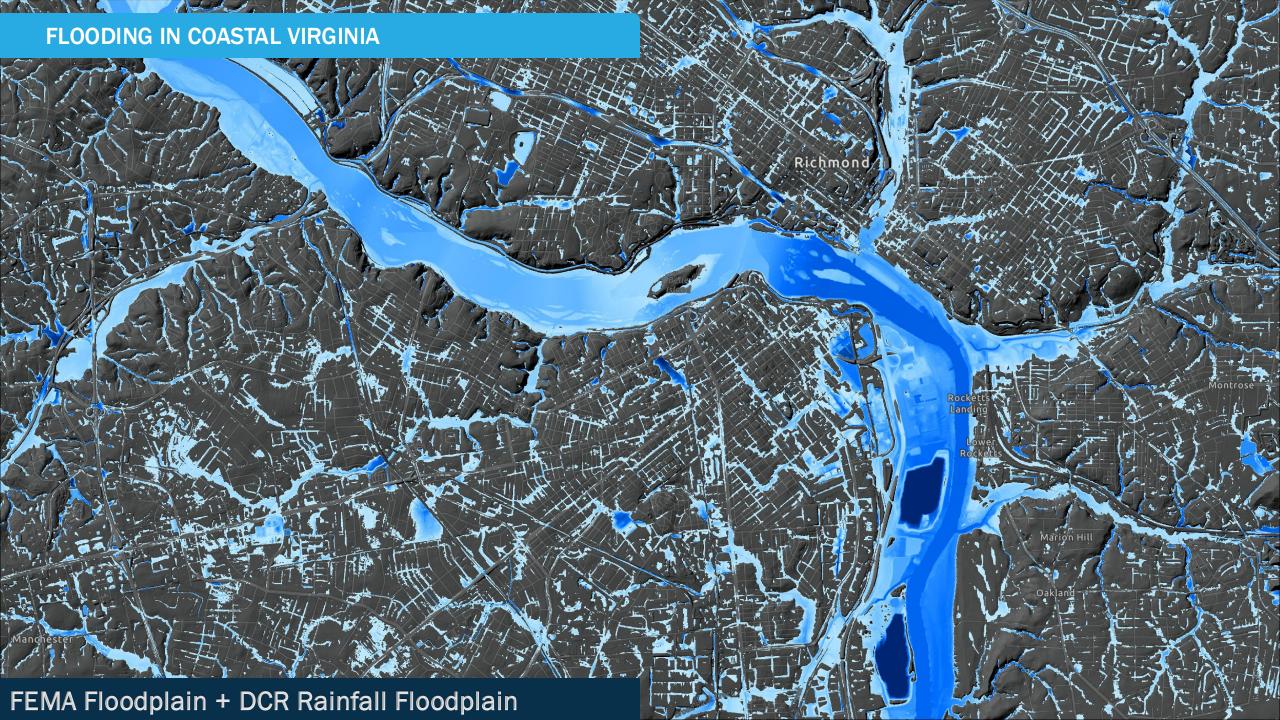
FLOODING IN COASTAL VIRGINIA

Sources of Flooding

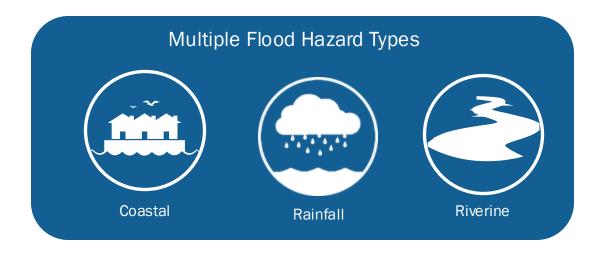


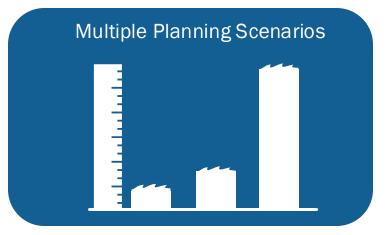


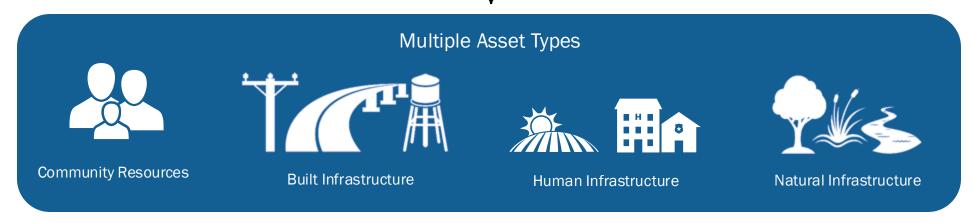




Understanding Flood Impacts

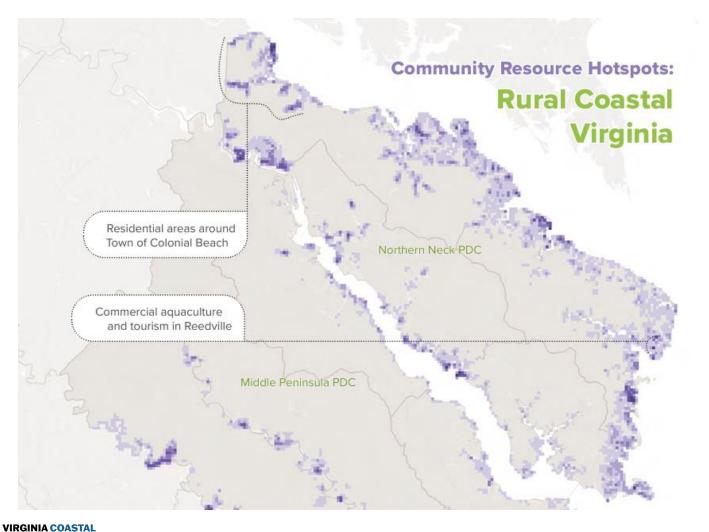








Example of Flood Impact Information from Phase I



Residential Population Exposed		2020	2080	Change
Accomack- Northampton PDC	High tide	200	7,800	+ 3816%
	Extreme flood	10,900	14,600	+ 34%
Middle Peninsula PDC	High tide	170	7,600	+ 4407%
	Extreme flood	13,900	21,000	+ 51%
Northern Neck PDC	High tide	140	2,400	+ 1642%
	Extreme flood	3,800	9,900	+ 157%
Annualized Struct	2020	2080	Change	
Accomack- Northampton PDC	Residential	\$20.7M	\$289M	+1299%
	Non-Residential	\$7.63M	\$77.0M	+ 909%

Middle Residential

Peninsula PDC Non-Residential

Northern Residential

Agricultural Land Acres Exposed		2020	2080	Change
Accomack- Northampton PDC	High tide	5,300	17,800	+ 236%
	Extreme flood	24,600	31,400	+ 28%
Middle Peninsula PDC	High tide	1,900	9,200	+ 375%
	Extreme flood	13,100	19,200	+ 47%
Northern Neck PDC	High tide	900	4,600	+ 415%
	Extreme flood	6,100	11,000	+ 82%

\$355M + 1317%

\$136M + 1110%

\$13.1M \$64.6M + 394%

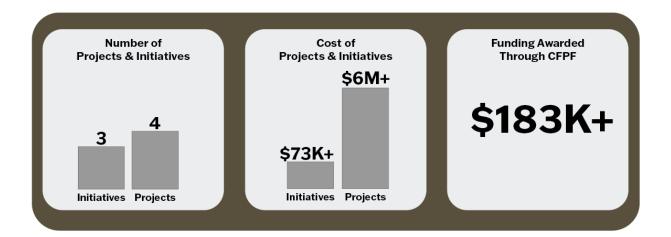
\$11.2M

Neck PDC Non-Residential \$7.96M \$28.2M + 255%

^{*} Projected average annualized losses due to damages to structures and contents.

ADVANCING FLOOD RESILIENCE

Projects & Initiatives in the Northern Neck



- Most project and initiative owners are local governments.
- An additional three projects not counted benefit the Northern Neck as well as other areas of the coastal region.
- Coastal flooding is the most common challenge addressed by projects.
- Assistance to septic system owners is an area of focus for the region.

RESILIENCE MASTER PLAN

PROJECT EXAMPLE

North Beach Resilience Project

Project Owner: Town of Colonial Beach

Project Type: Beaches and Dunes, Levees & Dikes, Offshore

Breakwater, Seawalls

Project Cost: \$3,300,000

Status: Site Assessment and Preliminary Design

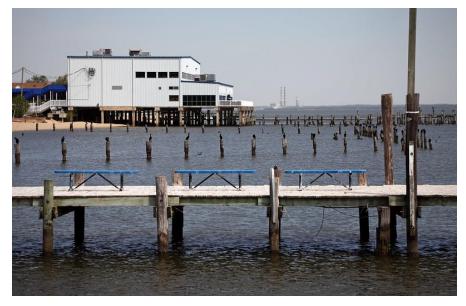


Image Source: Aileen Devlin, 2022 via Virginia Sea Grant Flickr

Other Opportunities to Be Involved

- The Phase II Plan will be released in December 2024
- Public Webinars:
 - September 2024: updates on the planning process and draft plan
 - December 2024: updates on the final plan
- Public Comment:
 - January 2025
- Sign up for our email list to get updates on these opportunities.



www.dcr.virginia.gov/floodstory



Additional Resources at Partner Stations

- Friends of the Rappahannock
- Historic Land Conservancy
- Northern Neck Land Conservancy
- Northern Neck Planning District Commission
- Northern Neck Soil & Water
 Conservation District

- Old Dominion University's Institute for Coastal Adaptation & Resilience
- Virginia Department of Environmental Quality, Coastal Zone Management and Environmental Justice
- Virginia Institute of Marine Science
- Wetlands Watch



Thank you!





Sign up for our Newsletter

dcr.virginia.gov/signup

Visit us Online

dcr.virginia.gov/resilience-planning

Send us an Email

flood.resilience@dcr.virginia.gov



Visit the Learning and Sharing Stations



Learning and Sharing Stations

We'll be here until 8pm.

Stick around to:

- Learn more about flood risk and resilience efforts.
- Engage in Q&A with DCR and partners.
- Share your flood stories.
- Enjoy refreshments!

DCR Stations

Station 1: Flooding Impacts

Station 2: Solutions Underway

Station 3: Flood Stories and Mapping

Station 4: Flood Risk Lookup

