



Resilient Fairfax Implementation

Update

Allison Homer, Senior Community Specialist,
Office of Environmental and Energy Coordination

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Resilient Fairfax Strategy Pillars

<p>Integrated Action Planning</p> 	<p>Climate Ready Communities</p> 	<p>Resilient Infrastructure & Buildings</p> 	<p>Adaptive Environments</p> 
			
<ul style="list-style-type: none"> • Resilience into county plans and policies • Resilience data collection • Resilience funding • Continued interagency coordination 	<ul style="list-style-type: none"> • Network of safe & resilient spaces • Community capacity to prepare for, withstand, and recover from events • Climate-ready development 	<ul style="list-style-type: none"> • Resilience in major county infrastructure decisions • County building & facility resiliency • Advocacy for external infrastructure resiliency, i.e., energy grid & transit 	<ul style="list-style-type: none"> • Protection of natural resources that enhance resilience • Restoration of damaged areas with nature-based and natural solutions

Status of 18 <u>Prioritized Strategies</u>			%*		
1	IAP.1a: Comprehensive Plan Updates for Resilience		7%		All strategies are scheduled to be complete (or annually ongoing) by or before Calendar Year 2030 . Strategy, sub-strategy, and IA milestones will vary. Roadmaps for each prioritized strategy can be found in the Resilient Fairfax plan .
2	IAP.2a: Resilience Metrics and Tracking System	(Y)	33%		
3	IAP.3a: County Climate Fund	(Δ)	10%		
4	IAP.3b: Pursue Federal and State Funding Opportunities	(Y)	25%		
5	IAP.4a: Long-term Interagency Collaboration System	(Y)	40%		
6	CRC.1a: Adaptation Action Areas		13%		
7	CRC.1b: Resilience Hubs	(Δ)	8%		
8	CRC.2a: Community Aid and Services for Resilience Needs	(Y)	6%		
9	CRC.2b: Climate Resilience Guidance & Education	(Y)	14%		
10	CRC.3a: Flood Risk Reduction Plan		17%		
11	CRC.3b: Heat-Resilient Design, Development, Practices		0%		
12	CRC.3c: Zoning and Other County Code Amendments		5%		
13	RIB.1a: Capital Improvement Program Process Updates		0%		
14	RIB.1b: Flood Resilience for County-owned Buildings		5%		
15	RIB.2a: Advocate and Partner for Energy Resilience	(Y)	25%		
16	AE.1a: Consolidated Natural Resources Management Plan		0%		
17	AE.1b: Survey and Protect Areas with Natural Resilience		5%		
18	AE.2a: Green Infrastructure Projects for Climate Resilience		20%		

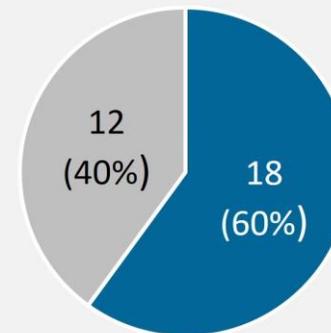
(Δ) = Recommended change in approach (Y) = Yearly strategy * Percent of Implementation Actions (IAs) from the Resilient Fairfax plan complete; size and scope of IAs vary.

Many of the 30 Additional (non-prioritized) Resilient Fairfax strategies have also started.

Status of <u>ADDITIONAL</u> Strategies	Started
IAP.1b: Strategic Plan Updates for Resilience	Yes
IAP.1c: Complete the Climate Health Plan	Yes
IAP.1d: Hazard Mitigation Coordination	Yes
IAP.2b: Climate Research Support	
IAP.2c: Consolidated Flood Database	
IAP.2d: Rainfall Data	Yes
IAP.2e: Database for Hazard Mitigation Action	Yes
IAP.2f: Tree Canopy Data	Yes
IAP.2g: LiDAR Data Updates	
IAP.2h: Climate Vector-Borne Disease Data	
IAP.3c: Funding for Long-Term Data Collection	
IAP.3d: Additional & Private Funding	
IAP.4b: Build Staff Capacity on Resilience	Yes
CRC.1c: Targeted Tree Plantings	Yes
CRC.1d: C-PACE Expansion	Yes
CRC.2c: Resilience Related Workforce Devel.	
CRC.2d: Expand Heat Warning System	Yes
CRC.3d: Update Public Facilities Manual	

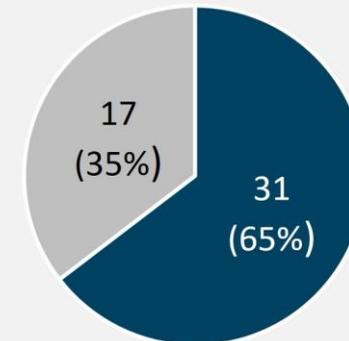
	Started
CRC.2d: Expand Heat Warning System	Yes
CRC.3d: Update Public Facilities Manual	
RIB.1c: Energy Resilience for County Bldgs	Yes
RIB.2d: Heat Resilience for County Bldgs	
RIB.1e: Resilient Procurement	
RIB.2b: Advocacy for Resilient Bldg Code	Yes
RIB.2c: Advocacy for Transportation Resilience	Yes
AE.1c: Conservation Easement Updates	
AE.1d: Climate in Urban Forestry	Yes
AE.2b: Stream Restorations	Yes
AE.2c: Urban Reforestation	Yes
AE.2d: Living Shorelines	Yes
AE.2e: Wetland & Floodplain Restorations	Yes
AE.2f: Regenerative Agriculture	

Status of **ADDITIONAL** Strategies



■ Started ■ Not Started

Status of **ALL** Resilient Fairfax Strategies

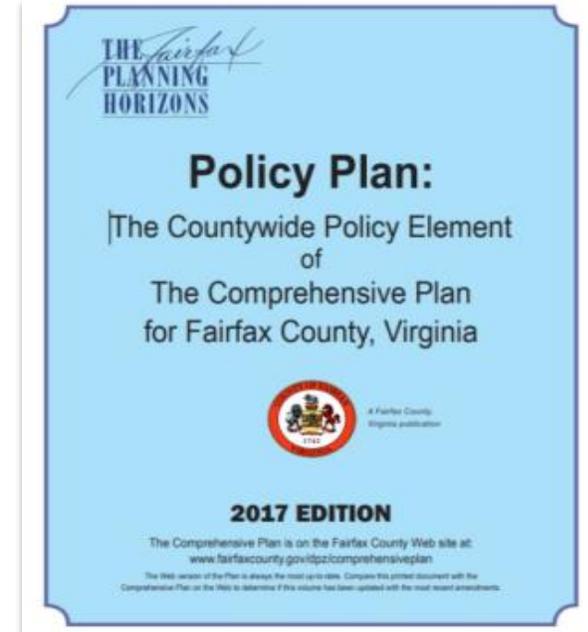


■ Started ■ Not Started

IAP.1a: Comprehensive Plan Updates for Resilience

Progress Updates

- ✓ Board Authorization of Comprehensive Plan Amendment to Environment Element of Policy Plan
- DPD and OEEC are working on early tasks for climate component of the larger amendment
 - Climate-related amendments scope, schedule, roles
 - Resilience and emissions reduction
 - Research of other jurisdictions' climate-related updates
 - Identification of potential sections and text in need of update
 - Plan for internal and external engagement



Funding and Resource Opportunities:

- Community Development Block Grant Mitigation (CDBG-MIT) Program
- General Fund (salaries)

Climate Hazards Addressed:	
Lead:	OEEC, DPD
Partners:	DEMS, DOT, DPWES, EDA, FCHD, FCPA, LDS, NCS
Timeline:	Long-term (5-8 years)
Cost:	\$ (\$0k - \$100k)
Existing Staff:	Yes

Resilience topic examples for CP:

- Urban Heat Island effect
- Flood-prone areas
- Natural resources that reduce impacts of climate hazards
- Impervious cover reductions
- Green infrastructure

IAP.3a: County Climate Fund

Implementation Actions Progress Bar

10%

Progress Updates (*Proposed Change in Approach*)

- **What the plan says:** Resilient Fairfax recommended research and creation of a County Climate Fund for resilience action
- **Why a change is proposed:** The Green Bank in development is an intensive effort with a similar goal
 - Green Bank code is currently limited to emissions reduction
 - Recommend requesting legislative change to allow the Green Bank to cover both climate mitigation and climate resilience projects, rather than creating a separate, similar entity
- **Funding for Resilient Fairfax in the meantime**
 - Using existing staff capacity, salaries built into budget
 - Pursuing grants
 - Some funding requested in the County Budget process for Resilient Fairfax implementation; limited to outreach, and shared with CECAP outreach



IAP.3b: Pursue Federal and State Funding Opportunities for Resilience

Implementation Actions Progress Bar

25%

Progress Updates

- ✓ Consolidated database of funding opportunities, shared with all relevant departments
- ✓ DPWES recently won 4 Community Flood Preparedness Fund grants for flood risk reduction (\$15.7 million)
- Unprecedented levels of federal funding available currently
- Grant tracking and staffing coordination across agencies to enable the county to seize current opportunities
- Pursuing EPA EJG2G Grant for possible Resilience Hub w/ FACS



FEMA



U.S. DEPARTMENT OF ENERGY



Strategy IAP.4a: Interagency Collaboration System for Climate Resilience



Progress Updates

- ✓ Staff from **20+ agencies** represented, continued from RF planning
- ✓ **Metrics and tracking system** across agencies
- ✓ **Climate Interagency Team** Microsoft system for coordination
- ✓ **Departments organized into Implementation Groups**
 - **Group 1 – All Agencies**
 - **Group 2 – Development Codes, Policies, and Plans**
 - **Group 3 – Community Services, Education, Engagement, Incentives**
 - **Group 4 – Natural Resources**
 - **Group 5 – Facilities and Operations**
 - **Group 6 – Data and Research**
- **March 3rd “All Hands” Meeting; sub-groups already meeting**
- **Breaking siloes, improving interagency coordination on overlapping initiatives, policy and plan updates, reporting, grants**



CRC.1a: Adaptation Action Areas (AAAs) where Resilience is Prioritized

Implementation Actions Progress Bar

13%

Progress Updates

- ✓ OEEC, GIS, and One Fairfax staff are refining the AAA data and maps
- Interagency effort to decide the best way to use AAAs in Fairfax
 - *Zoning Overlay? Higher design standards? CIP prioritization? Funding distribution? Incentives? Aid?*

Climate Hazards Addressed:



Lead:	OEEC
Partners:	DCC, DEI, DEMS, DFS, DPD, DPWES, FCDOT, FCHD, FCPA, HCD, LDS, NCS, NVSWCD, OCA, One Fairfax, UFMD
Timeline:	Medium-Term (2-5 years)
Cost:	\$\$ (\$100k - \$500k)
Existing Staff:	Partial

Heat-Vulnerable



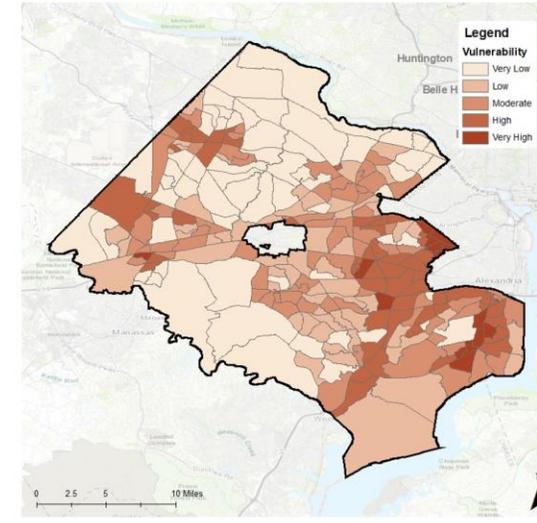
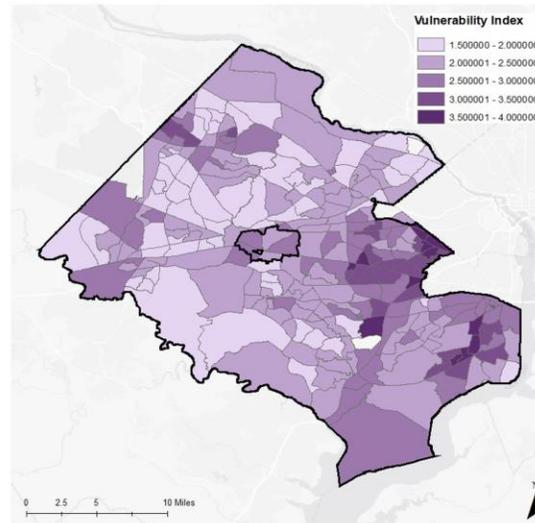
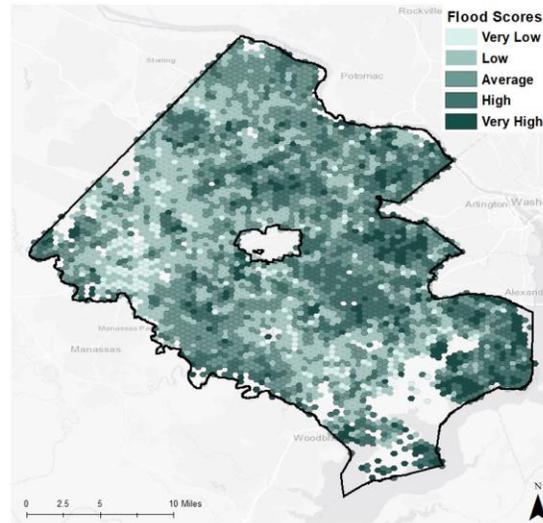
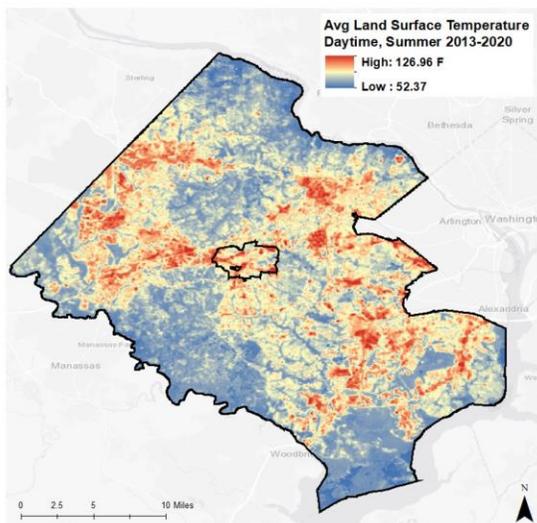
Flood-Vulnerable



One Fairfax



Potential* AAAs



CRC.1b: Pursue Development of Resilience Hubs

Implementation Actions Progress Bar

8%

Progress Updates and Proposed Change in Approach

- ✓ Identification of areas of the county in greatest need of hubs
- ✓ Research & definition of “Resilience Hubs” in Fairfax context
- ✓ Resilient Fairfax plan recommends detailed inventory/ evaluation of many potential hub sites before pursuing one pilot
- An opportunity has arisen for a pilot Resilience Hub now
 - Requesting BOS approval to pursue EJG2G grant
 - Partnership with county agencies, non-profits, others
 - Grant application due April 10th
- The vision for the Resilience Hub pilot :
 - A trusted place for community resilience before, during, and after severe weather events
 - Solar & battery back-up in case of power outages, environmental site rehabilitation, green infrastructure
 - Interagency training on flood risk reduction, emergency preparedness, heat risk reduction, environmental health, financial resilience, climate
 - Access to critical services and basic needs

Climate Hazards Addressed:



Lead:	OEEC
Partners:	DEMS, DFS, DPD, DPSC, DPWES, FCHD, FCPA, FCPS, FMD, GIS, HCD, LDS, NCS, OCA, One Fairfax
Timeline:	Medium-Term (2-5 years)
Cost:	\$\$\$ (\$500k - \$1 million)
Existing Staff:	Partial



Strategy CRC.3a: Implement the Flood Risk Reduction Plan for Fairfax County

Implementation Actions Progress Bar

17%

Progress Updates

- Big picture purpose: reducing flood risk through:
 1. **Physical projects constructed by the county**
 - DPWES manages dozens of [Stormwater Improvement Projects](#)
 - Resilient Fairfax implementation → updates how/where projects are prioritized (AAAs, CIP updates)
 2. **Development/ design standards**
 - Interagency team led by LDS and DPWES for analysis of flood risk areas, design standards, flooding level of service, and options
 - Task Order with Consultant for study is ongoing
 - Climate change included, using Resilient Fairfax data
 - DPWES/LDS update to the Board scheduled for **April 25th**
 3. **Community outreach and education**
 - DPWES and NVSWCD currently provide outreach and education
 - Resilient Fairfax: boost education, interagency collaboration



Climate Hazards Addressed:

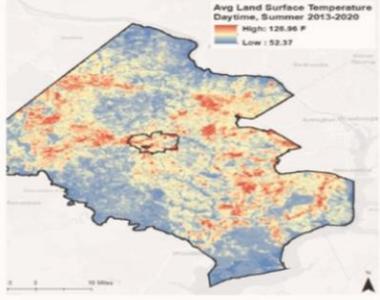
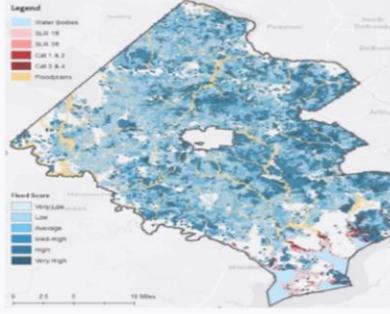
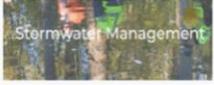


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Timeline:	Medium-Term (2-5 years)
Cost:	\$\$\$ (\$500k - \$1 million)
Existing Staff:	Partial

Climate Resilience Services (CRC 2a), Guidance and Education (CRC 2b)

Progress Updates

- ✓ **Resilience Dashboard** links to resilience-related services (from DPWES, DEMS, DFS, OEEC, NVSWCD, NCS) in one place
- Creating a **Climate Checklist** for residents (both resilience and emissions reduction)
- Interagency collaboration on community **education** and guidance
- Interagency collaboration on expanding access to **services**
- Resilience Hub pilot at Rising Hope → opportunity for pilot training program

<h3>WARMER</h3> 	<h3>WETTER</h3> 	<h3>WEIRDER</h3> 
<p>Extreme Heat Explore DEMS' extreme heat resources</p>  <p>Click Here →</p>	<p>Stormwater Management Find resources on the DPWES Stormwater Management website</p>  <p>Start Learning →</p>	<p>Ready Fairfax Explore Ready Fairfax for emergency preparedness</p>  <p>Learn More</p>
 <p>Native Plants Plant a native or non-invasive, climate-adapted tree.</p> <p>Start Now →</p>	 <p>Seeing Floods? Report flooding issues in Fairfax</p> <p>Click Here →</p>	<p>DEMS Watch DEMS webinars on emergency preparedness</p>  <p>Watch Now →</p>
<p>Cooling Assistance If you cannot afford air conditioning, apply for Cooling Assistance</p>  <p>Learn More →</p>	<p>Flood Insurance Protect yourself and your home with flood insurance</p>  <p>Get Started →</p>	<p>Emergency Kits Make emergency kits for your home and your car</p>  <p>Get Started →</p>
 <p>Upgrade Your Roof Keep your home cool with cool roofs, sealed leaks, and light-colored external paint</p> <p>Get Started →</p>	 <p>Drainage Problem? Find help with drainage and erosion issues on your property</p> <p>Learn More →</p>	<p>Volunteer Volunteer with the Community Emergency Response Team (CERT)</p>  <p>Click Here →</p>

Resilient Fairfax

Climate Adaption and Resilience Plan

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Questions?

Contacts:

- **Kambiz Agazi** | Director, OEEC
Kambiz.Agazi@fairfaxcounty.gov
- **Matt Meyers** | Division Manager
Matthew.Meyers@fairfaxcounty.gov
- **Allison Homer** | Planner IV, Project Manager
Allison.Homer@fairfaxcounty.gov
- **Neely Law, PhD** | Planner III
Neely.Law@fairfaxcounty.gov