Appendix A – Meetings and Outreach

Meetings Contents:

Prince George's County – Laurel, MD Multi-Jurisdictional HMP Update Kick-Off Meeting 12-2-16 Presentation

Prince George's County – Laurel, MD Multi-Jurisdictional HMP Update Kick-Off Meeting 12-2-16 Sign-In Sheet

Prince George's County-Laurel, MD Multi-Jurisdictional HMP Update HIRA Results Meeting 3-10-2017 Presentation

Prince George's County-Laurel, MD Multi-Jurisdictional HMP Update HIRA Results Meeting 3-10-2017 Sign-In Sheet

LEPC Roster

Outreach Contents:

Capital Heights Roundtable Agenda

Capital Heights Roundtable Sign-In Sheet

Capital Heights Day Photos

Proclamation of "Flood Awareness Month"

Prince George's County – Laurel MD Multi-Jurisdictional Hazard Mitigation Plan Update

KICK-OFF MEETING DECEMBER 2, 2016

Prince George's County

and

The City of Laurel

Maryland

Hazard Mitigation Plan





2010 Update

Agenda

- Welcome & Introductions
- 2. Schedule and Plan Update Process
- 3. Hazard Prioritization
- Data Needs
- 5. Committee Member Responsibilities
- 6. MAC HMP Update Aspirations
- Next Steps
- 8. Wrap Up & Future Meetings

Introductions

- Name
- Department/Role

Hazard Mitigation Plan Update

Project Scope:

Update the Prince Georges County – City of Laurel 2010 Hazard Mitigation Plan to remain compliant with Maryland Emergency Management Agency and FEMA requirements

Prince George's County, City of Laurel and Dewberry

Committee members need to: ensure that this is your plan through MAC engagement with Prince George's County and Laurel OEM and Dewberry

- Critical facilities update to Dewberry
- Capacity assessment survey and 2010 mitigation actions update to Dewberry
- 2017 new mitigation actions (in-person meetings/calls)
- Support draft review and outreach
- ► Participate & make the final decisions

Prince George's County OEM, MAC and Dewberry

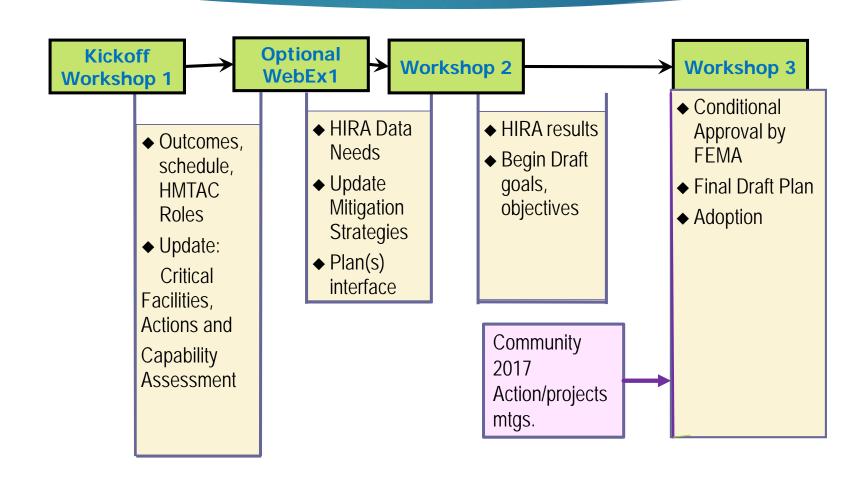
- Prince George's County OEM team is here to:
 - Assist departments with new plan actions
 - Coordinate Public Outreach and participation (social media emphasis)
 - Facilitate communication and project scheduling/reporting with Maryland Emergency Management Agency and Dewberry

Mitigation Action Committee and Dewberry

- Dewberry is here to:
 - Lend technical expertise and consultation
 - Partner with PG County and Laurel staff and local government staff to update all required sections of the plan
 - Prepare and crosswalk the draft and final plan sections

We will do the heavy lifting to assure you receive a compliant, relatable plan that positions your region and community to become more resilient.

Project Approach: Planning Process



Schedule

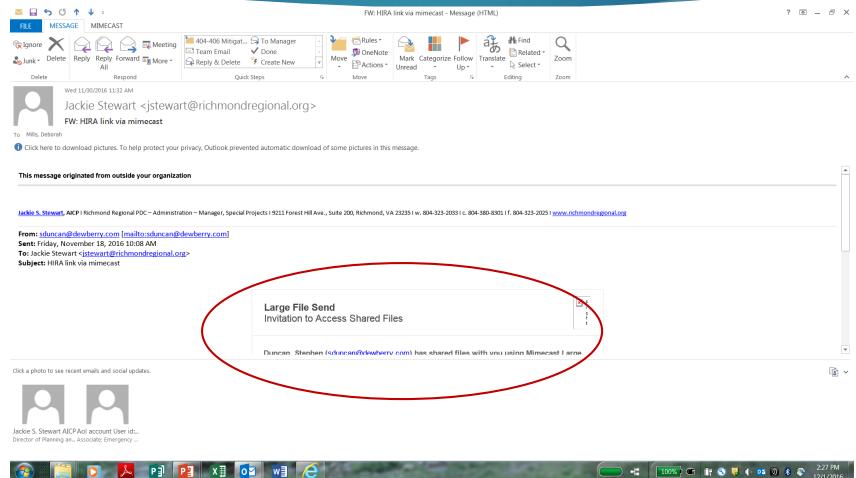
Task	Dec	Jan	Feb	Mar	April	May	June	Jul
Kick-off Meeting	1							
HIRA Update/Development				2				
Capability Assessment								
Draft Plan/ Mitigation Strategies								
Final Meeting & Implementation Kick-off						3		
MEMA/FEMA Review						©	©	
Plan Submittal/Adoption Support/Close Out								

1 – 3 MAC Workshops - HIRA Results/Mitigation workshop % 0

Department on-site/call Mitigation Strategies Meetings/WebEx

Draft Plan review submittal and meeting with MEMA if needed

Mime Cast Large File Submittal





























Why does hazard mitigation matter?

Hazard Mitigation

...is a sustainable action that will reduce or eliminate injury to citizens, damages to structures and allow continuity of critical society functions...

Resiliency Definition

...capacity to maintain/regain functionality &vitality from natural, climate-induced, or man-made stressors and disturbances. Resiliency strategies can provide communities with tools for bouncing back more quickly from extreme weather or other high-impact events.

Resiliency planning provides communities with the ability to adapt and thrive despite changing environmental, social, and economic conditions.

BREAK - Hazard Rankings

Hazard Type	2010 HMP Planning Consideration Level	2017 PG County – City of Laurel Update MAC Kick-off Meeting
Natural		
Winter Storms	Medium - High	High
Flooding (river, stream, coast)	High	High
Wind (including Hurricanes, Thunderstorms)	Medium - High	Medium
Drought	Medium - High	Low
Wildland Fire (brush, forest)	Medium	Low
Tornado	N/A	Combined w/wind
Earthquake	N/A	Low
Land Movement	Medium - High	Low
Stream bank Erosion	Medium - High	Low
Extreme heat/cold	Heat - medium	Low
Human-Caused		
Dams (Impoundment Failure)	Medium - High	High

HIRA Update

- What natural hazard events have occurred since 2010?
- What specific vulnerabilities exist in the County and City that may not have been captured in the previous plan?
- Please provide any updates to areas of concern noted in HIRA narrative.

Critical Facilities

- Critical facilities include public safety, buildings used for sheltering, schools, health care (hospitals and long-term care), correctional facilities, utilities and other vital to community continuity of services after a disaster.
- MPO can be added to this list transportation, drainage, etc.
- Existing list will be emailed next week. Please review and provide deletions/modifications/additions by August 19, 2016.

Capability Assessment

- We will update information provided in tables and text in Hazard Identification, Risk Assessment and Vulnerability (HIRA) Chapter
- Develop a master table for summary program/plan initiative data customized to 2010 HMP actions included in the Appendix.
- We will reach out to you with specifics for your Department in December.
- Target completion late-January.

Mitigation Actions Status

- ID completed, deleted, or deferred actions or activities from the 2010 plan as a benchmark for progress.
- Existing list will be distributed during December.
- Please review and provide deletions/modifications/additions by January 16, 2017 to Jillian Browning jbrowning@dewberry.com copied to Deborah Mills at dmills@dewberry.com.

Public Involvement in Plan Update

- Document how the community was kept involved during the plan maintenance process over the previous five years.
 - ▶ What has been done since 2011?

MAC Hazard Mitigation Plan Update Aspirations

- What keeps you up at night?
- What do you like about current plan?
- To enable cross-cutting mitigation themes and actions/projects are the necessary people/departments ready to participate?
- Are there other efforts currently going on in your community that we should be aware of?
- What would some positive outcomes be?
- What information/expertise can you contribute?

What's Next?

- Data gathering for HIRA (MEMA, PG and Laurel staff and Dewberry)
- Data gathering for Capability Assessment
- Initiation of Public Outreach
- Reporting and updates to 2011 Plan Accomplishments
- Vulnerability analysis Update and Kick-off for Goals, Objectives and Mitigation actions Workshop (early March)

Questions, Comments, Discussion

Deborah G. Mills, C.F.M.

Associate

Dewberry

804.335.9946

dmills@dewberry.com

MEETING SIGN-IN SHEET

Project:

Prince George's County - City of Laurel

Meeting Date:

Purpose:

Project Kick-off

December 2, 2016

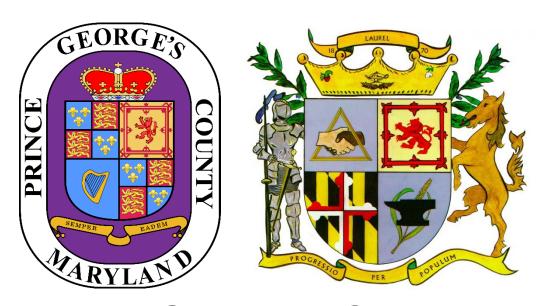
Name	Title	Agency	Phone	E-Mail
Name Gwen Chiletey XDXX MCUFAN	Associale Director	Dept of Public Works	3/499-8523	gtclerkley@co.pg.md.
KDRX WONEAN	LT	PGPD	3017724740	KLMCUEANE CO. PG. MD. VS
Jack Brock	PLANNING DIRECTOR	City of Laurel	301-725-5300	Ibrock@laurel. MD. 45
	EMBROSNEY MANAGER	City of Laurel	301-725-5300	seller elaurel. no.us
Todd Addis	Security Monager	OIT	301-883-3351	W+ADDISE CO.Pg. rd. us
CHRIS AKINBOBOLA		DOE	301-883-7157	Caalcinbobole@co.pg.nd.
CatherineEscarpeta	GIS Analyst	DOE	3018835990	crescarpeta @co.pg.nd.
Danfenlans Nice	Associale Dones for	DOE	301. 883. 5839	Mnixma Co. jag. md. us
Joe Perez.	CAPTAIN	PGPO	202-957-8822	JRPEREZ@CO.PG.MDUS
Vernon L. Stinney	Division Ch.f	DANET OHM SOMO	301-499-8556	VLStinnell@co.pg.MD.VS
Debbie Tyner	Deputy Director	MNCPPC	(301) 699-2580	debbie. tyner Opgparks
	Mojor	6660	3015837170	CEHAMBY ECO. PL. MD. US
William Alexander	Major	PGPD	4103101297	WAAIEXANDERECOPGM
	GIS Analyst	City of Laurel	301-725-5300 x2214	
Theresa Martin Chris Akinbobola Page 1 of 1		Od Clari		cankin bobola @ co.pg.m

Bill Goddard

Depty. City Hamin. City of Laurel

Prince George's County and	the City of Laurel Hazard	Mitigation Plan Update Kick Off N	leeting December 2, 2016 Sign-In Sheet	
	Name	Position	Email	Phone
Office of Homeland Security - Office of Emergency Management	Ronald Gill	Deputy Director	regill@co.pg.md.us	(240) 619-6497
Office of Homeland Security - Office of Emergency Management	Courtney Mariette	Regional Planner	cemariette@co.pg.md.us	301-324-4453
Department of Environment	Dawn Hawkins-Nixon	Associate Director	dhnixon@co.pg.md.us	301-883-5839
Department of Environment	Chris Akinbobola	Special Assistant	caakinbobola@co.pg.md.us	301-883-7157
Department of Environment	Catherine Escarpeta	GIS Analyst	crescarpets@co.pg.md.us	301-883-5990
PGPD	Kirk McLean	LT	clmclean@co.pg.md.us	301-772-4740
PGPD	Joe Perez	Captain	jrperez@co.pg.md.us	202-957-8822
PGPD	Charles Hamby	Major	cehamby@co.pg.md.us	301-583-7170
PGPD	William Alexander	Major	waalexander@co.pg.md.us	410-310-1297
Department of Public Works and Transportation	Gwen Clerkley	Associate Director	gtclerkley@co.pg.md.us	301-499-8523
Department of Public Works and Transportation	Vernon L. Stinnett	Division Chief	vlstinnett@co.pg.md.us	301-499-8556
Office of Information Tech.	Todd Addis	Security Manager	wtaddis@co.pg.md.us	301-883-3351
MNCCPPC	Debbie Tyner	Deputy Director	debbie.tyner@pgparks.com	301-699-8556
City of Laurel	Jack Brock	Planning Direcor	jbrock@laurel.md.us	301-725-5300
City of Laurel	Stephen Allen, Sr.	Emergency Manager	sallen@laurel.md.us	301-725-5300, ext. 2246
City of Laurel	Theresa Martin	GIS Analyst	tmartin@laurel.md.us	301-725-5300, ext. 2214
City of Laurel	Bill Goddard	Deputy City Administrator	-	-





Prince George's County & City of Laurel, Maryland Hazard Mitigation Plan Update

Hazard Identification and Risk Assessment

Results Meeting March 10, 2017

Agenda

- 1. Welcome
- 2. Project Schedule
- 3. Risk Assessment
- 4. Mitigation Goal Refresh and Strategies
- County and Laurel Mitigation Action Update
- 6. Outreach Brainstorming
- 7. Potential Project evaluation May
- 8. Next Steps



Schedule

Task	Dec	Jan	Feb	Mar	Apr	May	Jun- Oct	Jan
Kick-off Meeting	1							
HIRA Update/Development				2				
Capability Assessment								
Draft Plan/ Mitigation Strategies					26			
Resiliency Integration & Implementation Kick-off							3	
VDEM/FEMA Review							•	
Plan Submittal/Adoption Support								

- 1 3 HMTAC Workshops HIRA Results/Mitigation Goals/Implementation workshop/Resiliency Incorporation
- ★ Local on-site Mitigation Strategies Meetings/WebEx
- Draft Plan review session with VDEM/ RR and Crater PDC if needed



Major HIRA Components

Identify and profile hazards affecting the region:

Vulnerability to critical facilities and estimate losses

Vulnerability for current and future land use and development



Plan Update Requirements

- Hazard Identification and Risk Assessment
 - Describe all hazards that affect the region; rationale for omitting recognized hazards from analysis
 - Hazard Profiles
 - Location
 - Extent
 - Previous occurrences
 - Probability of future events
 - Vulnerability Assessment
 - Summary of the County and City's vulnerability to each hazard
 - Summary of potential hazard impacts



2017 Plan Update Changes

New analyses and updates: Updated each hazard profile

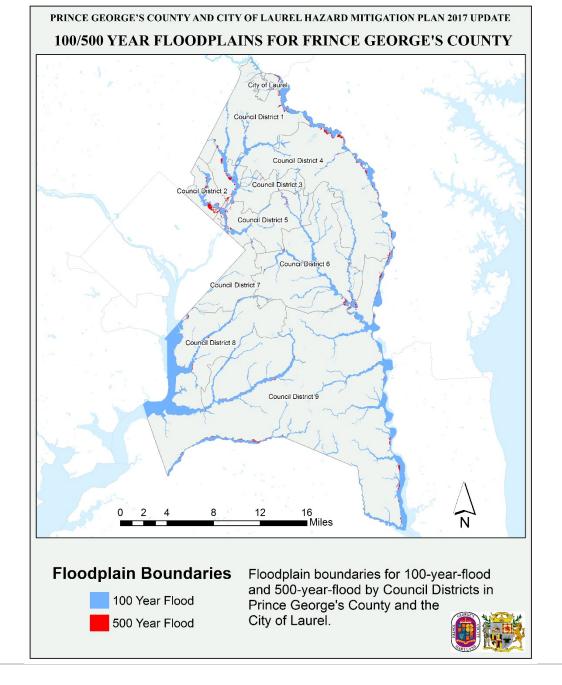
- Hazard profile
- NCDC storm events data
- 2010 present storm/disaster occurrences
- Summary risk by jurisdiction using new data

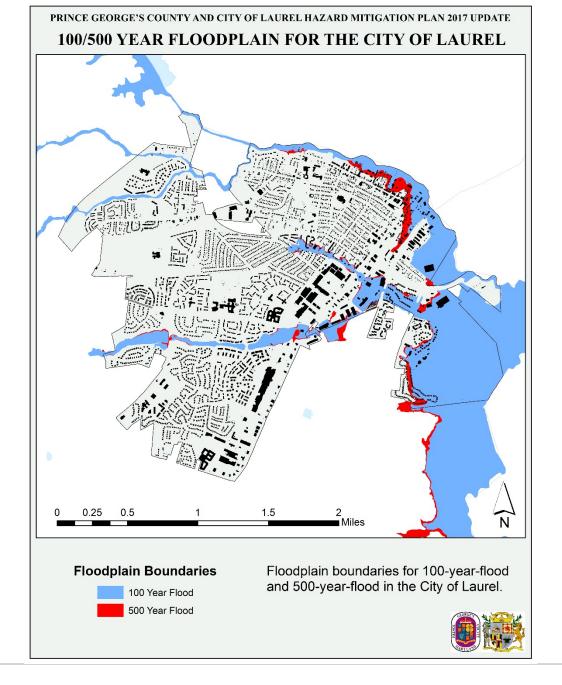
New maps based on updated data

 HIRA summary that includes overall relative risk and critical facility risk comparison by hazard.



Riverine Flooding





FEMA NFIP Participation Dates

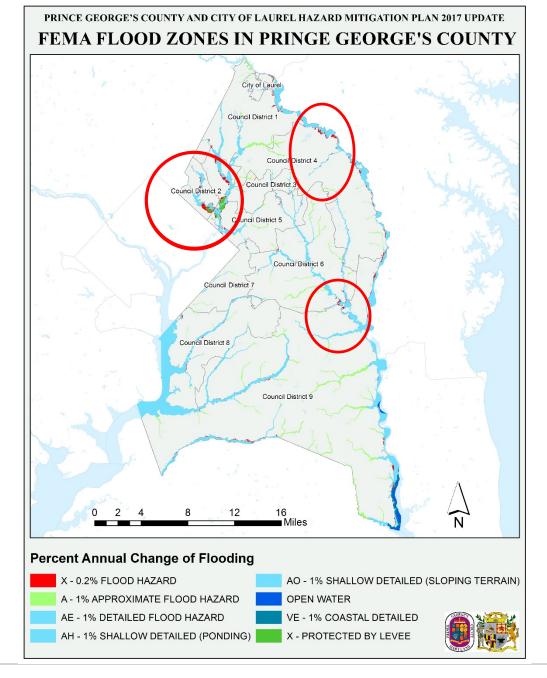
Jurisdiction	Initial FHBM Identified	Initial FIRM Identified	Current Effective Map Date
City of Laurel	9 Aug 1974	1 Nov 1978	16 Sep 2016
Prince Georges County	N/A	4 Aug 1972	16 Sep 2016

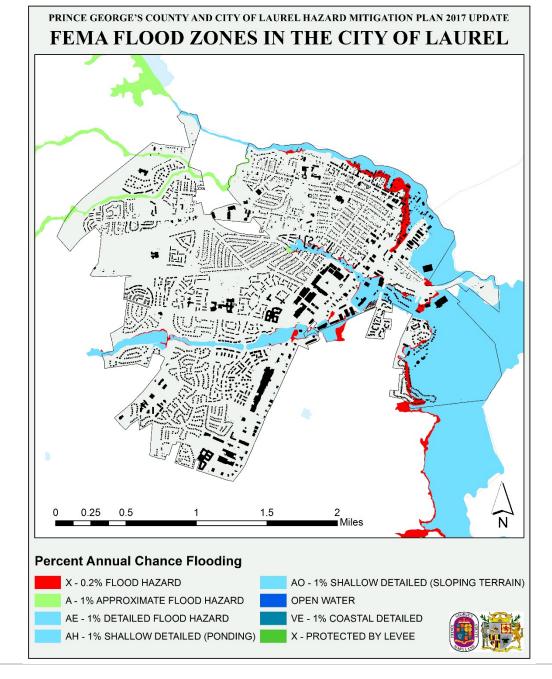
NFIP Policies in Force

Jurisdiction	Policies in Force	Insurance In-Force Whole	Written Premium In-Force
City of Laurel	150	\$36,977,200	\$185,372
Prince Georges			
County	3,387	\$778,365,800	\$2,232,266

NFIP Claims as of 31 Dec 2016

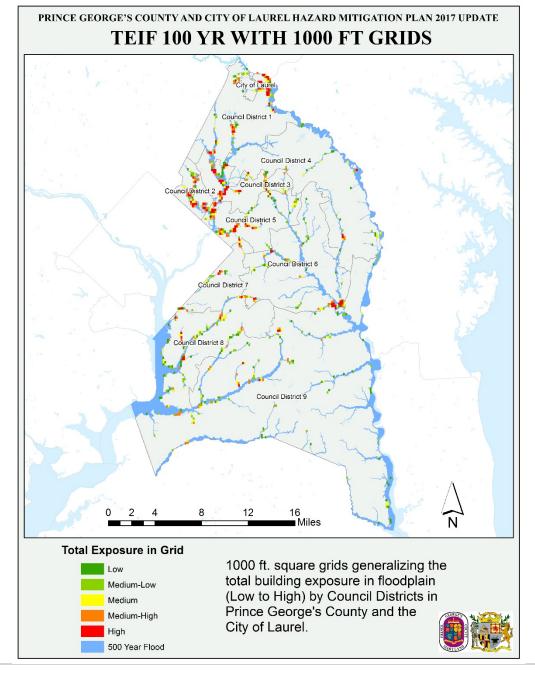
Jurisdiction	Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments
City of Laurel	17	5	0	12	\$99,871
Prince Georges					
County	680	384	2	294	\$4,168,896
Maryland Totals	18,145	13,223	49	4,873	\$289,719,855



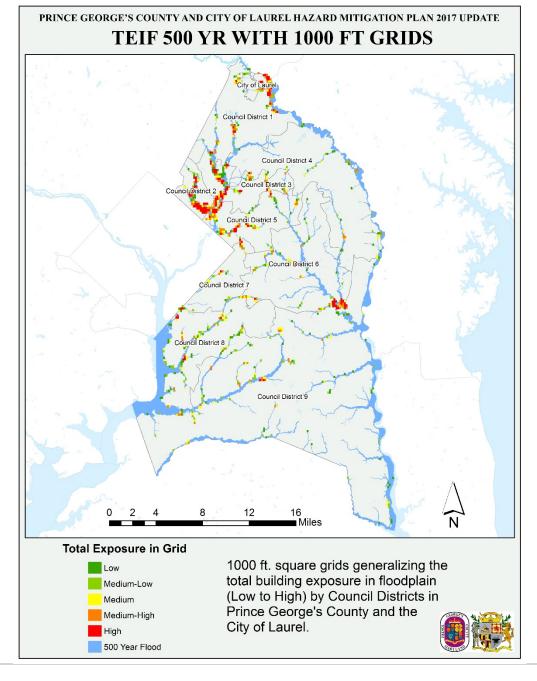


Total Exposure In Floodplain (TEIF) by Political Areas

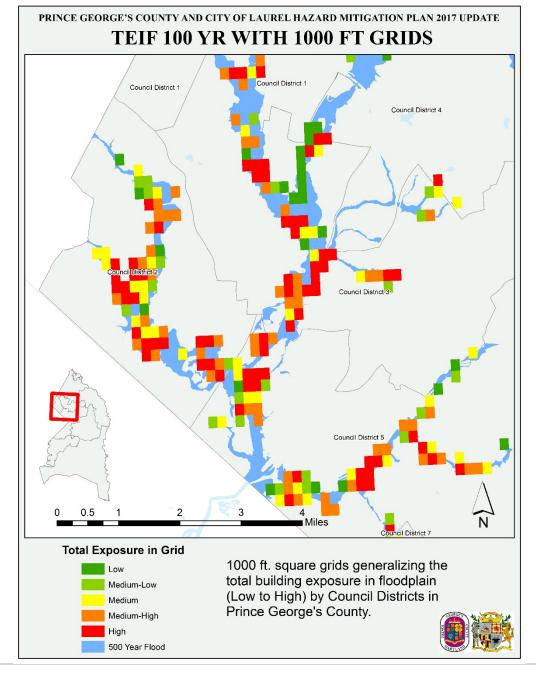
Political Area	TEIF 100 Yr	TEIF 500 Yr
City of Laurel	\$14,300,000	\$250,000,000
Council District 1	\$22,500,000	\$348,000,000
Council District 2	\$17,700,000	\$542,000,000
Council District 3	\$20,900,000	\$316,000,000
Council District 4	\$2,560,000	\$29,800,000
Council District 5	\$14,800,000	\$224,000,000
Council District 6	\$3,050,000	\$109,000,000
Council District 7	\$2,410,000	\$35,100,000
Council District 8	\$7,400,000	\$91,100,000
Council District 9	\$7,670,000	\$169,000,000
Total	\$113,000,000	\$2,110,000,000



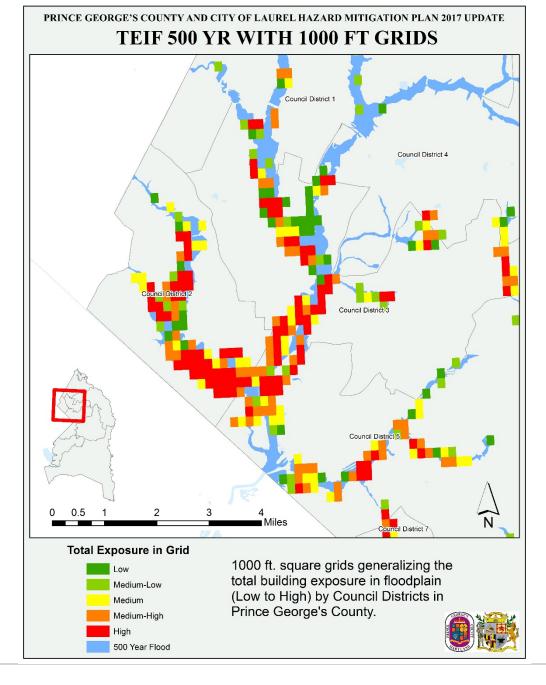
1000 sq. foot
Grids showing general
Floodplain exposure
1% Special Flood
Hazard Area
(regulated floodplain)



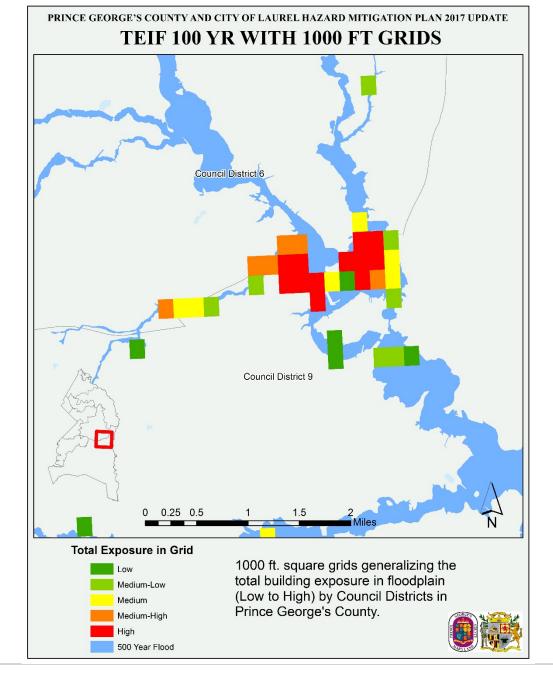
1000 sq. foot Grids showing general Floodplain exposure 0.02% Special Flood Hazard Area (regulated floodplain)

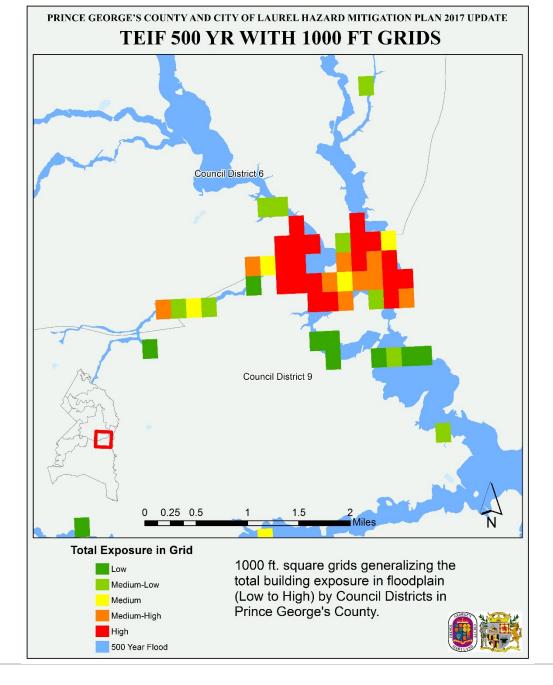


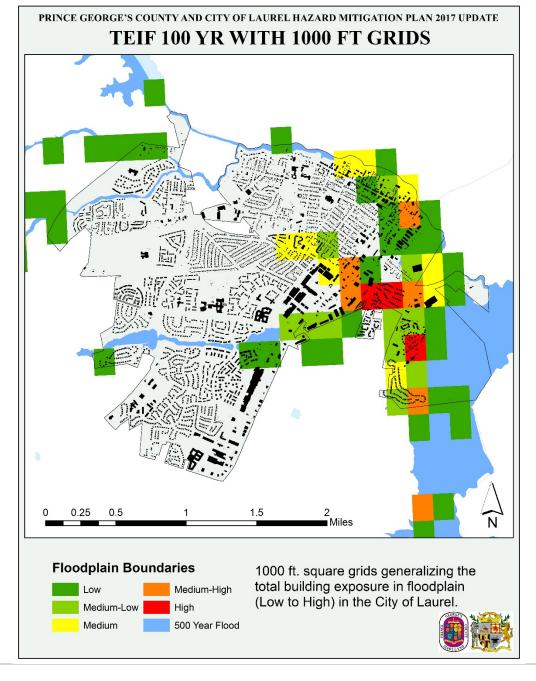
Zoomed in 1% Floodplain exposure – Council Districts 1 - 5



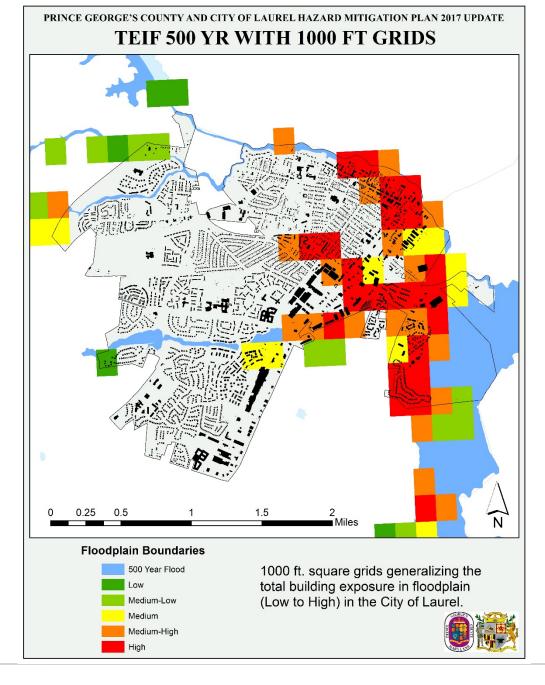
Zoomed in 1% Floodplain exposure – Council Districts 1 - 5





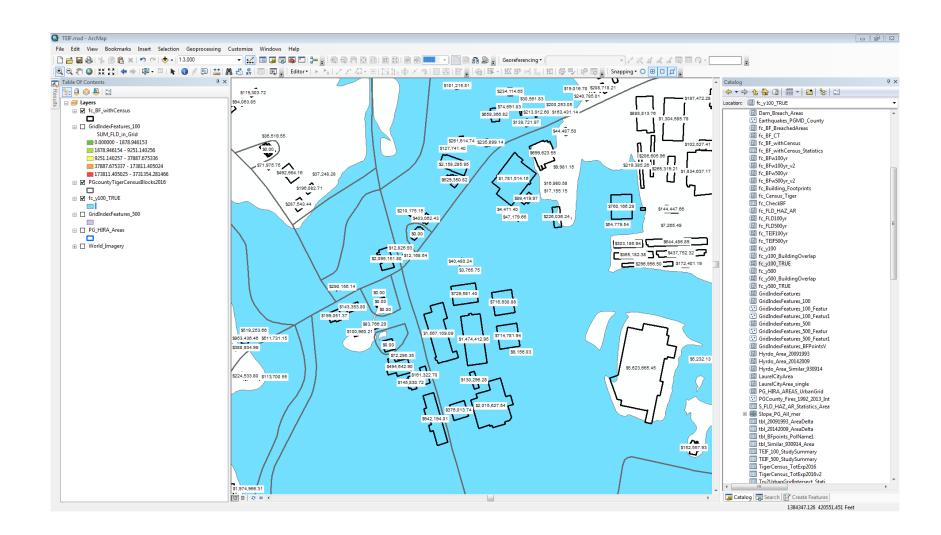


1% floodplain exposure shown with building footprints City of Laurel

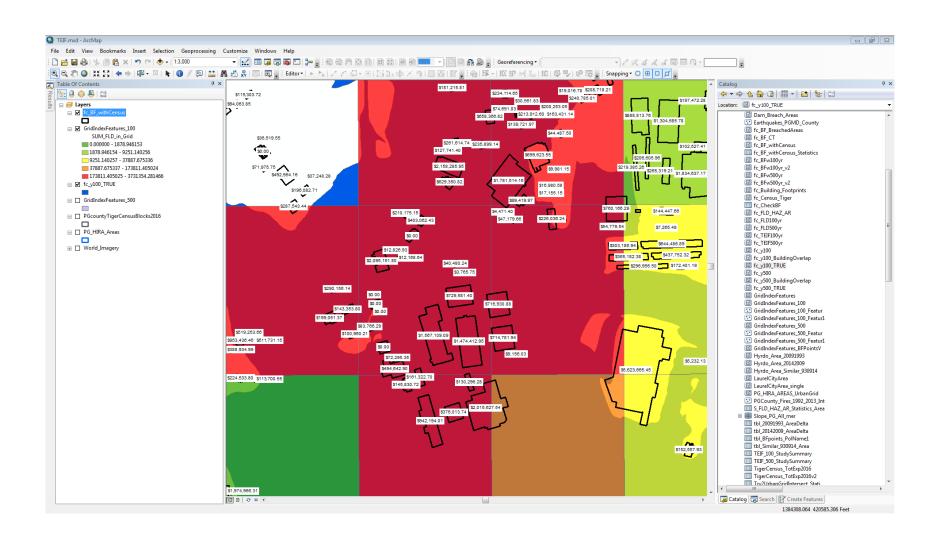


0.02% Floodplain exposure with building footprints City of Laurel

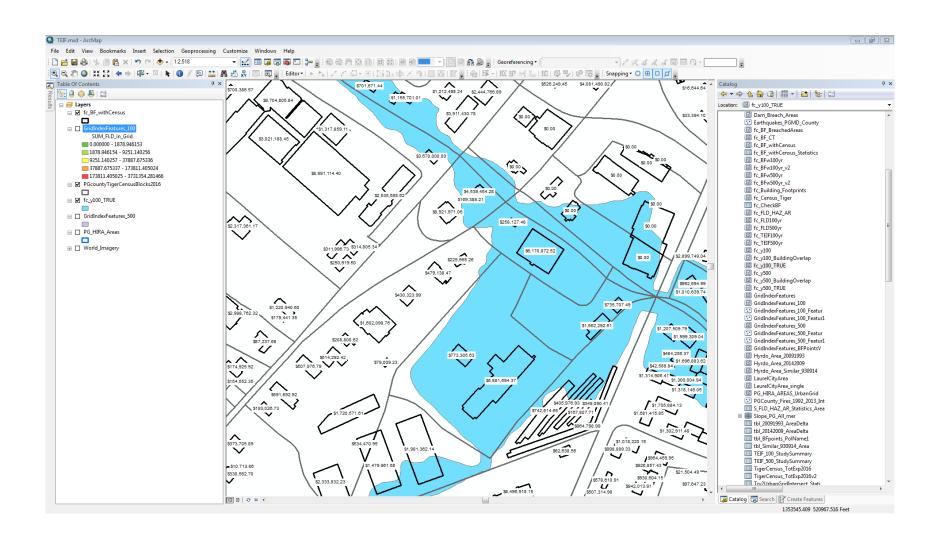
TEIF 2.0 – Prince George's County



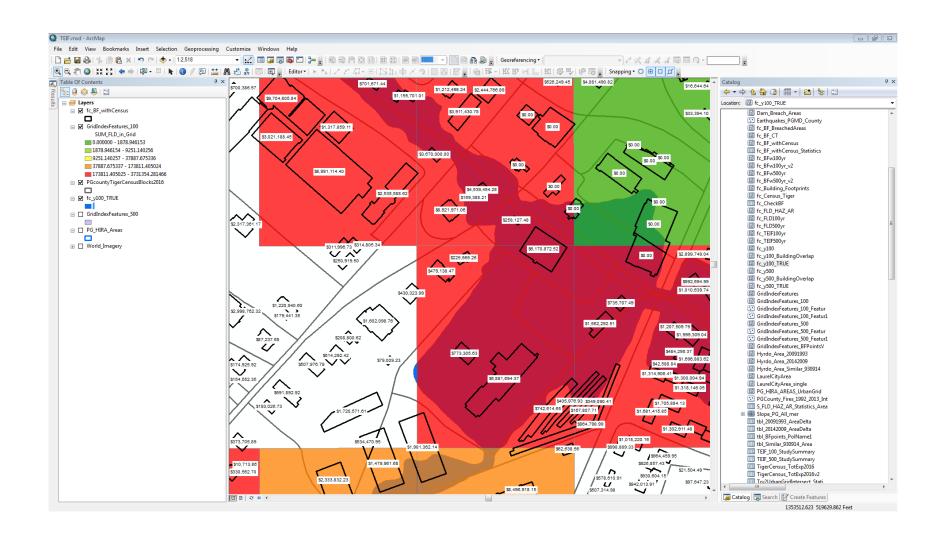
TEIF 2.0 – Prince George's County



TEIF 2.0 – City of Laurel



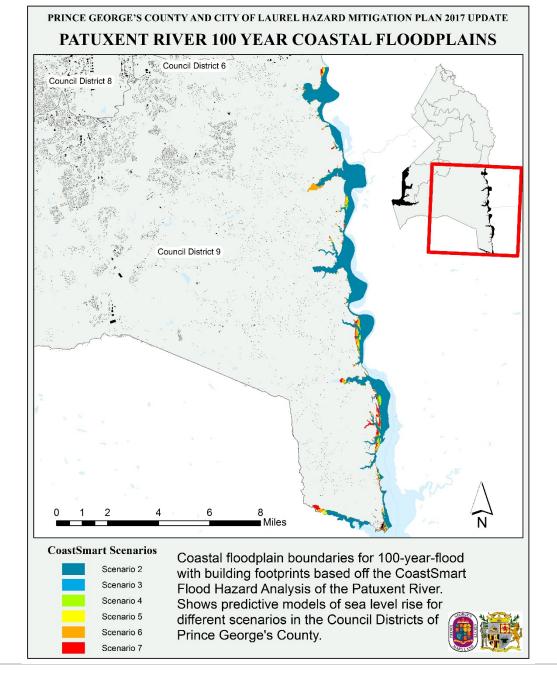
TEIF 2.0 – City of Laurel

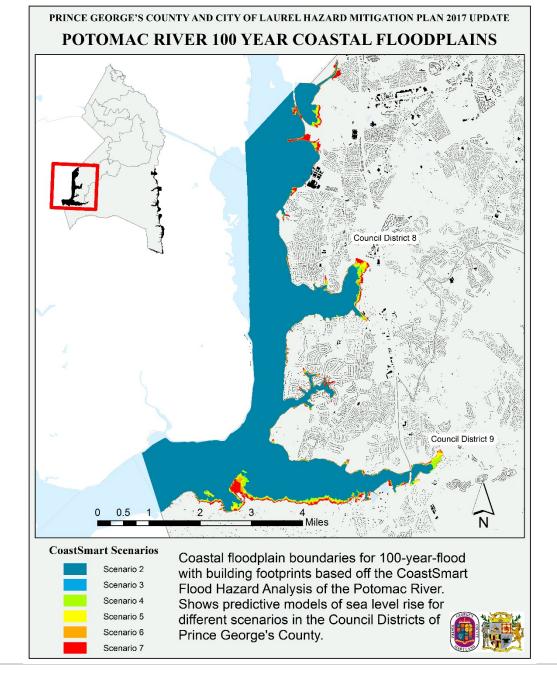


Coastal Flooding

Coastal Flooding Coast Smart Exposure Summary

Sea Level Rise Scenario	Weighted Average BFE	Number of Buildings Affected	Approximate Value of Affected Buildings
2	6.34	105	\$12,700,000
3	6.53	107	\$13,000,000
4	7.90	167	\$21,600,000
5	9.00	205	\$25,700,000
6	10.4	238	\$31,400,000
7	12.8	382	\$56,400,000





Dam Hazard Risk

Duckett Dam – Sunny Day Scenario Low Risk Scenario

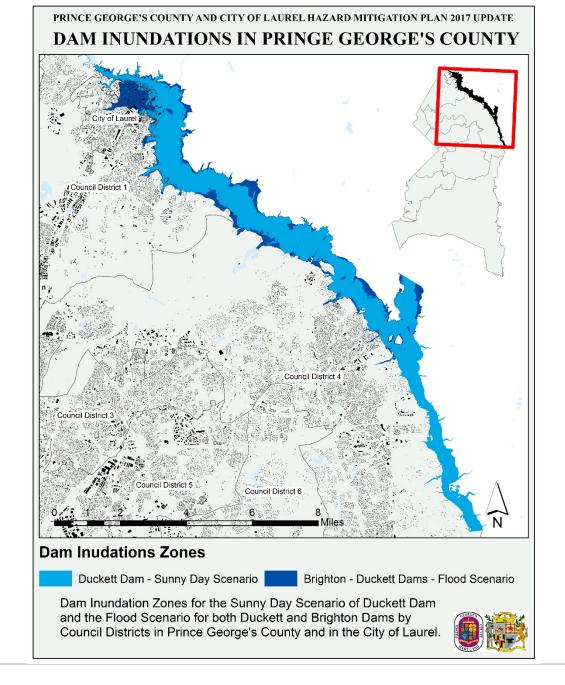
Political Area	Buildings Affected	Total Exposure Value	
City of Laurel	650	\$425,000,000	
Council District 1	772	\$487,000,000	
Council District 4	125	\$9,210,000	
Total	1547	\$921,210,000	

Brighton and Duckett Dam High Risk Scenario

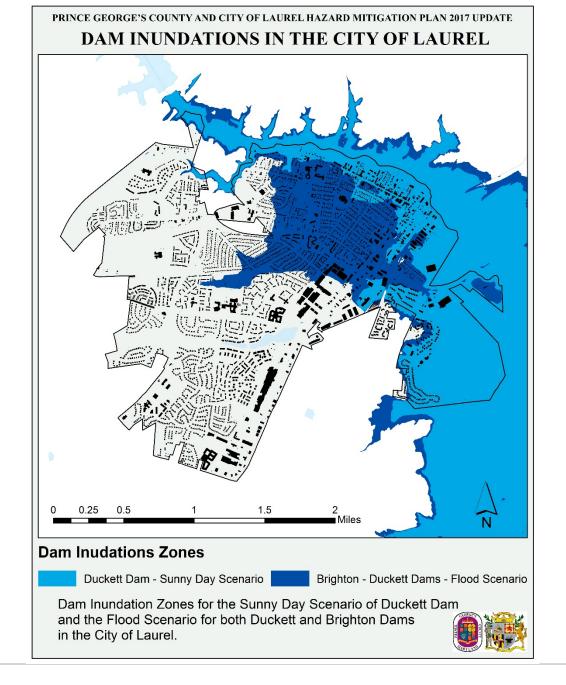
Political Area	Buildings Affected	Total Exposure Value	
City of Laurel	2736	\$1,040,000,000	
Council District 1	3036	\$1,170,000,000	
Council District 4	282	\$10,300,000	
Total	6054	\$2,220,300,000	

Small Dam Inundation Zones

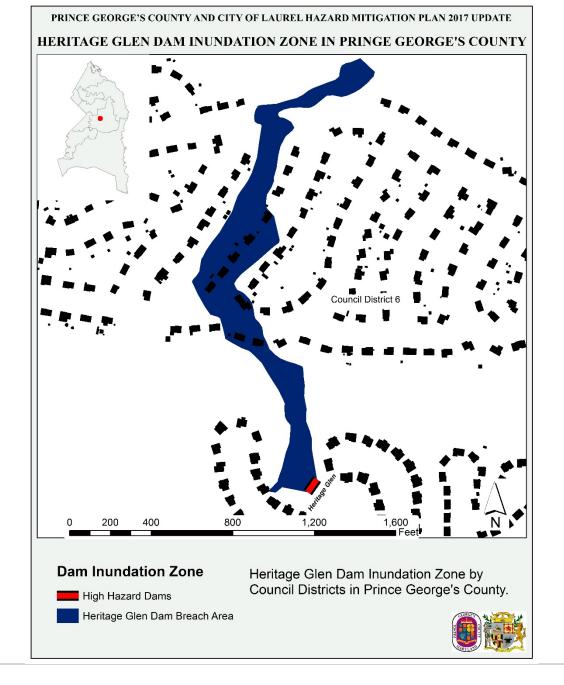
Dam Breach Area	Political Area	Buildings Affected	Building Exposure
Heritage Glen Dam Breach Area	Council District 6	14	\$3,800,000
Indian Creek 2 & 3 Dam Breach Area	Council District 1	163	\$38,700,000
Lake Arbor Dam Breach Area	Council District 6	99	\$25,300,000
Largo Town Center Dam Breach Area	Council District 6	1	\$52,500,000
Laurel Lake Dam Breach Area 1	City of Laurel	40	\$44,400,000
Laurer Lake Dani Breach Area 1	Council District 1	41	\$44,500,000
Laurel Lake Dam Breach Area 2	City of Laurel	35	\$62,900,000
Laurer Lake Dain Breach Area 2	Council District 1	39	\$79,700,000

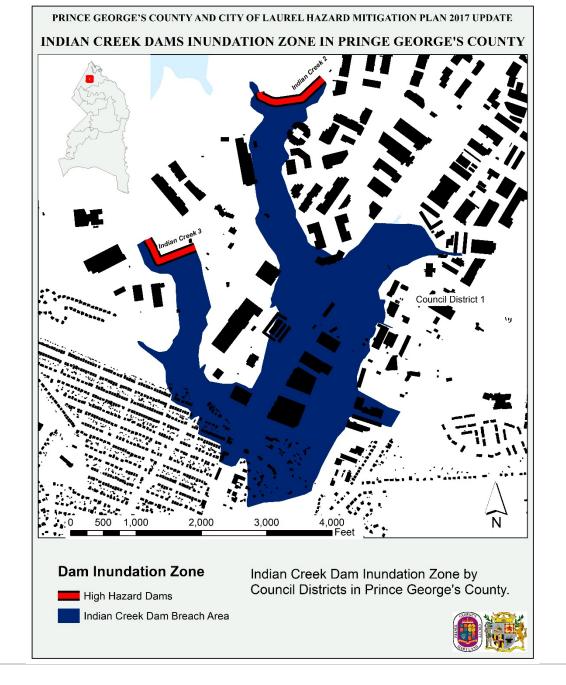


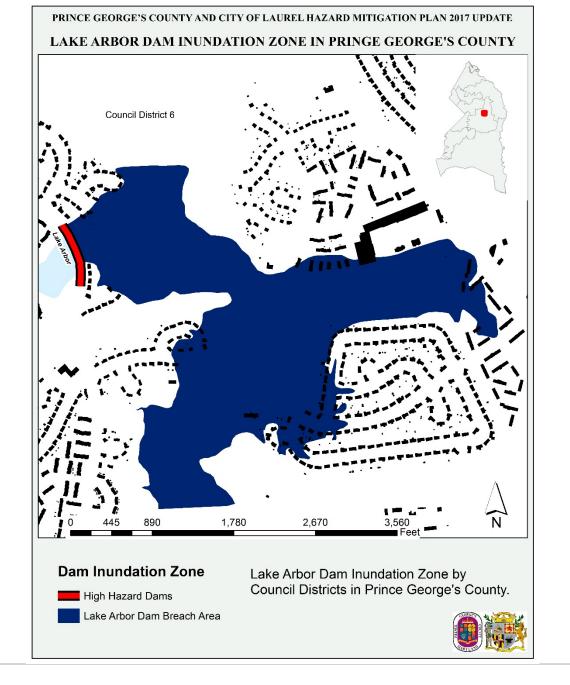




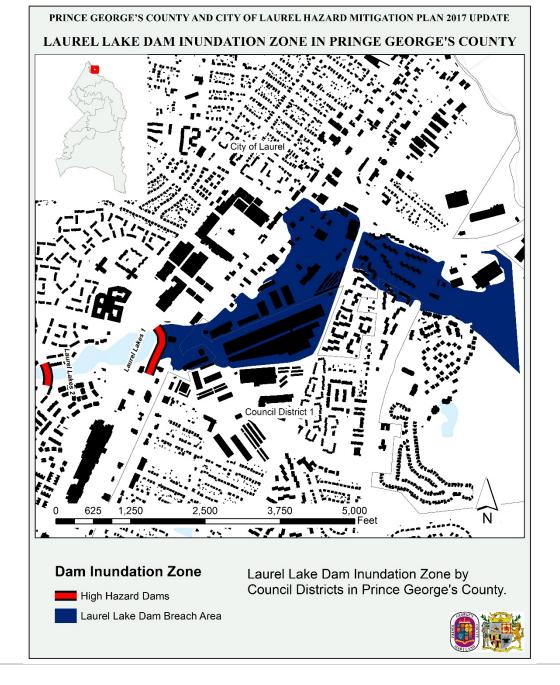


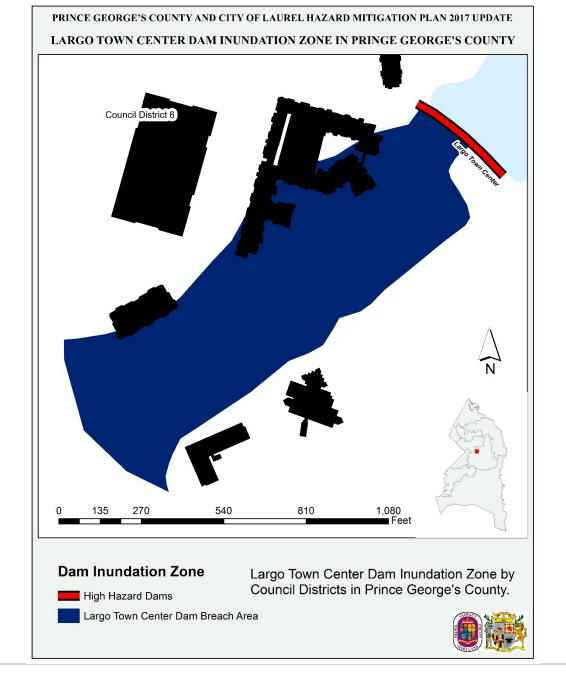














Levee Hazard Risk

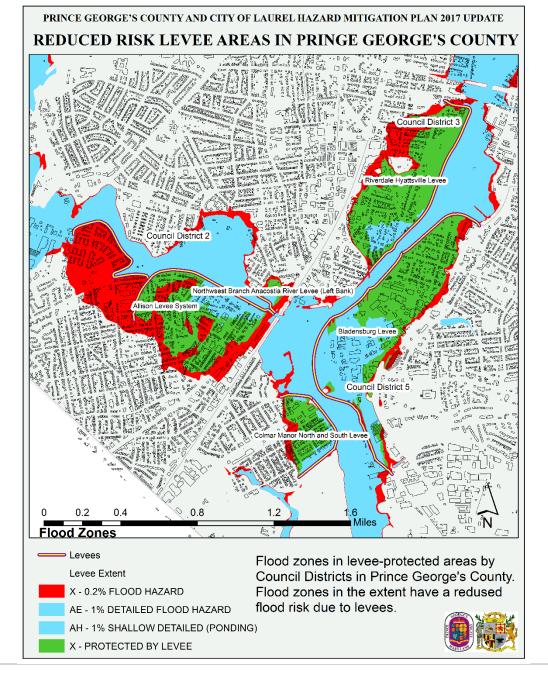
Levee Area Risk Exposure

Levee System	Political Area	SFHA Flood Zone	SFHA Flood Zone Subtype	Building Count	Building Exposure
	Council District 2	AE		11	\$3,370,000
Allison Levee		АН		131	\$19,000,000
System		X	0.2 Pct Annual Chance	724	\$265,000,00 0
		X	Reduced Flood Risk Due To Levee	580	\$161,000,00 0
Colmar Manor		AH		24	\$3,360,000
North and	Council District 5	Х	0.2 Pct Annual Chance	50	\$10,400,000
South Levee		X	Reduced Flood Risk Due To Levee	257	\$52,800,000
		AE		13	\$4,410,000
Bladensburg	Council District 5	АН		48	\$43,700,000
Levee		X	0.2 Pct Annual Chance	44	\$19,200,000
		X	Reduced Flood Risk Due To Levee	376	\$74,900,000
Northwest		AH	0.2 D . 4	1	\$61,000
Branch	Council	X	0.2 Pct Annual Chance	6	\$2,390,000
Anacostia River District 2					
Bank)		Χ	Reduced Flood Risk Due To Levee	7	\$940,000
	Council	X	0.2 Pct Annual Chance	166	\$23,400,000
Riverdale Hyattsville	District 3	X	Reduced Flood Risk Due To Levee	274	\$41,900,000
	Council	AE		4	\$666,000
Levee		AH	0.2.D. (A. 1.6)	69	\$7,510,000
	District 5	X	0.2 Pct Annual Chance	14	\$9,990,000
		X	Reduced Flood Risk Due To Levee	212	\$33,400,000



Levee Area Total Exposure Summary

SFHA Zone	Building Count	Building Exposure	
AE, AH	301	\$82,077,000	
0.2 Pct Annual Chance Flood Hazard	1004	\$330,380,000	
Reduced Flood Risk Due To Levee	1706	\$364,940,000	

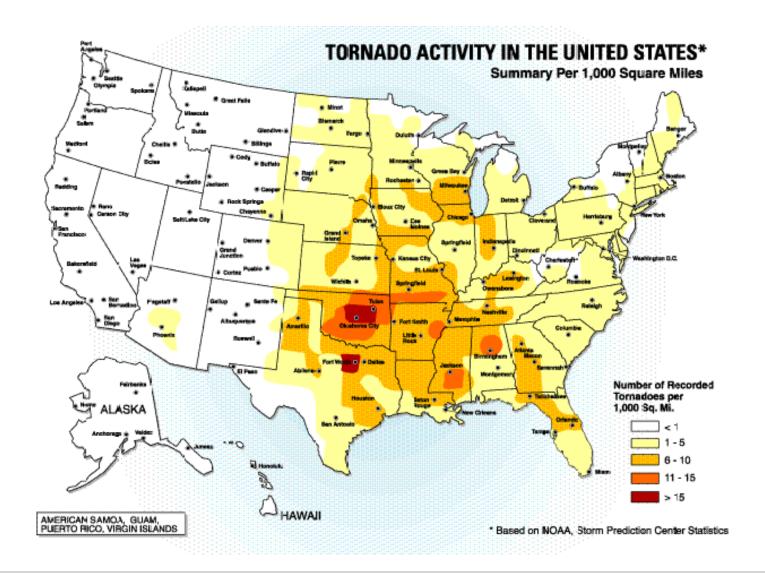


Tornado Hazard Risk

Tornado Damage Scale

Enhanced Fujita Scale	Wind Speeds (mph)	F-Scale	Wind Speeds (mph)	Damage	Frequency
EF0	65 to 85	F0	40 to 72	Light Damage. Some damage to chimneys, TV antennas, roof shingles, trees, and windows	29%
EF1	86 to 110	F1	73 to 112	Moderate Damage. Automobiles overturned, carports destroyed, trees uprooted	40%
EF2	111 to 135	F2	113 to 157	Considerable Damage. Roofs blown off homes, sheds and outbuildings demolished, mobile homes overturned	24%
EF3	136 to 165	F3	158 to 206	Severe Damage. Exterior walls and roofs blown off homes. Metal buildings collapsed or severely damaged. Forests and farmland flattened.	6%
EF4	166 to 200	F4	207 to 260	Devastating Damage. Few walls, if any, standing in well-built homes. Large steel and concrete missiles thrown far distances.	2%
EF5	Over 200	F5	261 to 318	Incredible Damage. Homes leveled with all debris removed. Schools, motels, and other larger structures have considerable damage with exterior walls and roofs gone. Top stories demolished.	Less than 1%

National Tornado Risk





Tornado History 1995-2015

Fujita Scale	Date	Community Affected	Deaths	Injuries	2016 Property Damages	2016 Total Damages
EF0	29 Sep 2015	Laurel	0	0	\$0	\$0
EF0	01 Jul 2013	Crestview Manor	0	0	\$513	\$117,000
EF0	19 Apr 2013	Westphalia	0	0	\$25,600	\$1,200,000
EF0	01 Jun 2012	Buena Vista	0	0	\$2,080	\$2,080
EF0	27 Apr 2011	Andrews Manor	0	0	\$5,310	\$5,310
EF0	27 Apr 2011	Friendly Pg Arpk Arp	0	0	\$106,000	\$106,000
EF0	27 Apr 2011	Westchester Estates	0	0	\$106,000	\$106,000
EF0	05 Apr 2011	Collington	0	0	\$2,120	\$2,120
EF0	08 May 2008	Clinton Hyde Fld Arp	0	0	\$111,000	\$111,000
EF0	08 May 2008	Woods Corner	0	0	\$55,500	\$55,500
EF1	20 Apr 2008	University Park	0	0	\$44,400	\$44,400
F3	24 Sep 2001	Hyattsville	2	55	\$135,000,000	\$135,000,000
F1	25 May 2001	Brandywine	0	0	\$33,700	\$33,700
F1	21 Jun 2000	Laurel	0	0	\$208,000	\$208,000
F1	13 May 2000	Brandywine	0	0	\$139,000	\$139,000
F0	24 Jun 1996	Andrews Afb	0	0	\$304,000	\$304,000
F1	24 Jun 1996	Upper Marlboro	0	0	\$761,000	\$761,000
F2	05 Oct 1995	Temple Hills	0	3	\$7,830,000	\$7,830,000
F1	18 May 1995	Cheverly	0	2	\$3,130,000	\$3,130,000

Local Tornado Risk

EF Scale Rating	Estimated Tornado Counts in Prince Georges County (1950-2014)
EFO	20
EF1	29.39
EF2	8.33
EF3	2.00
EF4	0.72
EF5	0

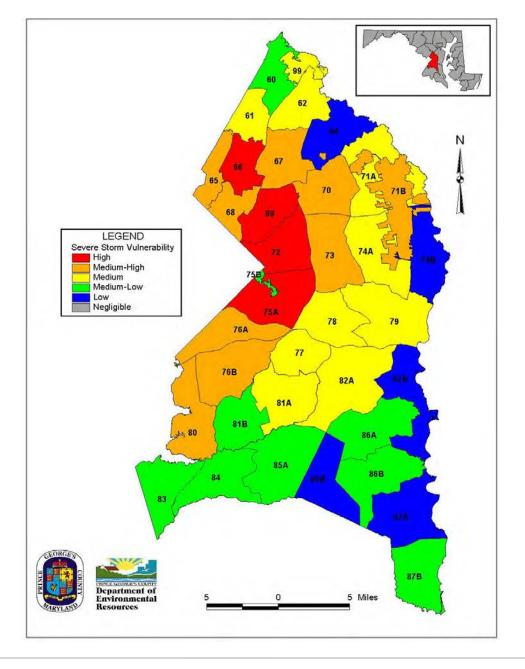
Source: Analysis of tornado records for Prince Georges County, MD taken from the FEMA Benefit-Cost Analysis Tool – Version 5.3.0.2 (Build Date 12/22/2016)



Severe Storms Hazard Risk

Severe Storm Hazard Vulnerability

Source: Severe Storm
Vulnerability Map by Planning
Area, Prince George's County and
City of Laurel Maryland Hazard
Mitigation Plan (2010 Update)





High Wind Hazard

High Wind Hazard Risk

Search Results

Query Date: Thu Mar 09 2017

Latitude: 38.8180 Longitude: -76.7508

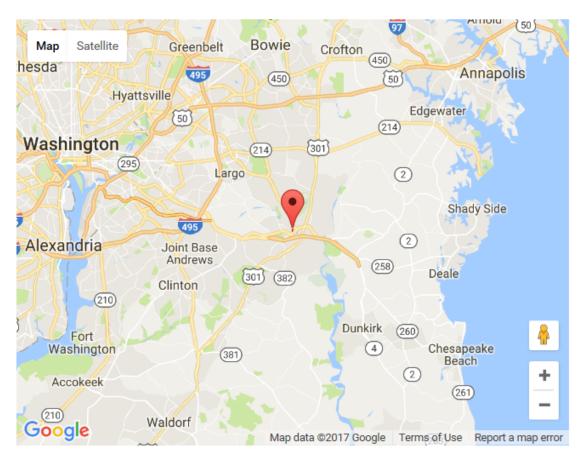
ASCE 7-10 Windspeeds (3-sec peak gust in mph*):

Risk Category II: 105 Risk Category II: 115 Risk Category III-IV: 120

MRI** 10-Year: 76 MRI** 25-Year: 84 MRI** 50-Year: 90 MRI** 100-Year: 96

ASCE 7-05 Windspeed: 90 (3-sec peak gust in mph) ASCE 7-93 Windspeed: 72 (fastest mile in mph)

*Miles per hour



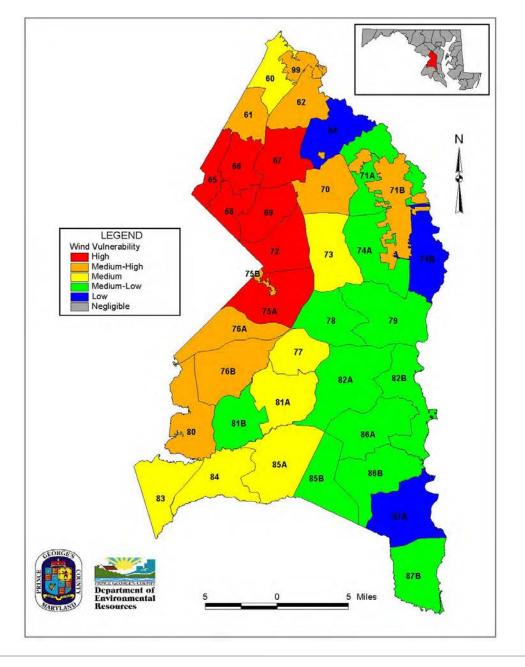
Source: Applied Technology Council (ATC) Wind Speed Map by Location (http://windspeed.atcouncil.org/)



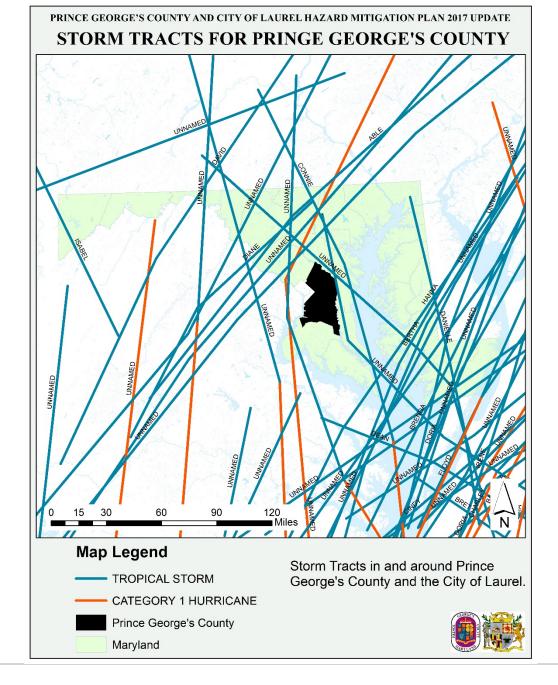
^{**}Mean Recurrence Interval

High Wind Hazard Vulnerability

Source: Wind Vulnerability Map by Planning Area, Prince George's County and City of Laurel Maryland Hazard Mitigation Plan (2010 Update)



Hurricanes and Tropical Storm Risk



Winter Hazard Risk

Winter Storm Hazard Risk

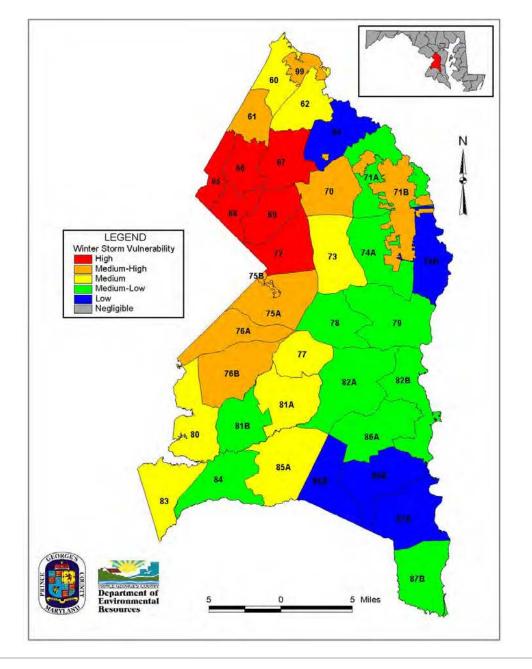
Winter storms are a persistent problem for Prince Georges'
County and in the Washington, DC metropolitan area. Recent notable storms include:

- January 2016 Winter Storm Jonas dropped upwards of 2 feet of snow in Maryland, causing at least one death in Prince George's County
- February 2010 North American Blizzard "Snowmageddon" pummeled the region with 18-24 inches of snow, causing widespread travel delays, business and school closings, METRO outages and extended power loss as well as several deaths in Maryland
- December 2009 Blizzard left Maryland, DC and Virginia with 18-24 inches of snow, causing massive travel delays and power outages



Winter Storm Hazard Vulnerability

Source: Winter Storm
Vulnerability Map by Planning
Area, Prince George's County and
City of Laurel Maryland Hazard
Mitigation Plan (2010 Update)





Wildfires 1992-2013

Political Area	Fire Size Code	Fire Description	Number of Fires		
City of Laurel					
	A	0.25 Acres or less	1		
Council District 1	В	0.26 to 9.9 Acres	3		
	С	10.0 to 99.9 Acres	1		
Council District 2	В	0.26 to 9.9 Acres	1		
Courseil District 2	A	0.25 Acres or less	1		
Council District 3	В	0.26 to 9.9 Acres	5		
Council District 1	A	0.25 Acres or less	4		
Council District 4	В	0.26 to 9.9 Acres	11		
Council District 5	В	0.26 to 9.9 Acres	2		
Council District 6	A	0.25 Acres or less	1		
Council District 6	В	0.26 to 9.9 Acres	1		
Council District 7	A	0.25 Acres or less	1		
Council District 7	В	0.26 to 9.9 Acres	2		
Council District 8	В	0.26 to 9.9 Acres	2		
Council District 8	С	10.0 to 99.9 Acres	1		
	A	0.25 Acres or less	18		
Council District 9	В	0.26 to 9.9 Acres	26		
	С	10.0 to 99.9 Acres	2		
	Е	300 to 999 Acres	2		
	Total 85				

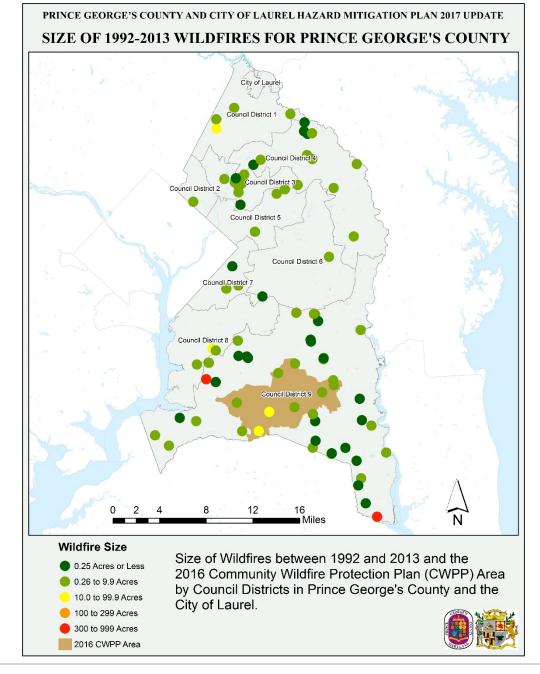
Community Wildfire Protection Plan Area Exposure

Political Area	Approximate Building Count	Approximate Building Value
Council District 9	8206	\$1,360,000,000

Wildfire Risk

- Prince George's County has an Average Wildfire Burn Recurrence Interval of 2 years (see NOTE)
- However, as shown in the map on the right, most wildfires are small and are quickly extinguished

NOTE: Burn Recurrence Interval based on analysis of LANDFIRE data Prince Georges County, MD zip code 20782 taken from the FEMA Benefit-Cost Analysis Tool – Version 5.3.0.2 (Build Date 12/22/2016)





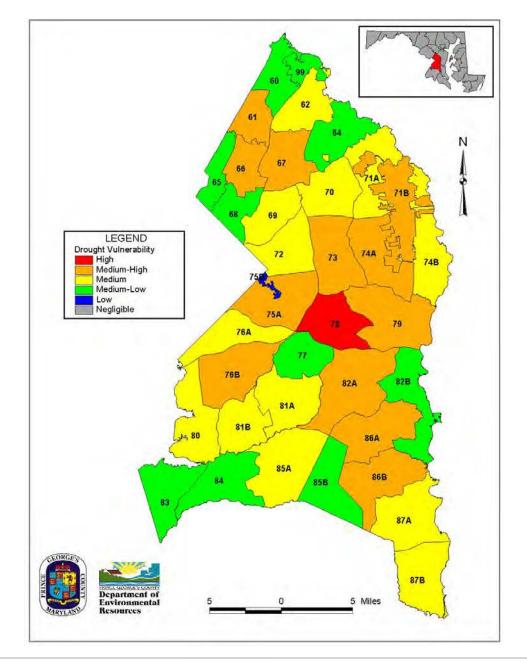
Drought Risk

Drought Categories

Category	Description	Possible Impacts	
D0 Abnormally dry		Going into a drought: short-term dryness slows planting, growth of crops or pastures; fire risk above average. Coming out of a drought: some lingering water deficits; pastures or crops not fully recovered.	
D1	Moderate drought	Some damage to crops, pastures; fire risk high; streams, reservoirs, or wells low; some water shortages develop or are imminent; voluntary water use restrictions requested.	
D2	Severe drought	Crop or pasture losses likely; fire risk very high; water shortages common; water restrictions imposed.	
1 1)4 1		Major crop/pasture losses; extreme fire danger; widespread water shortages or restrictions.	

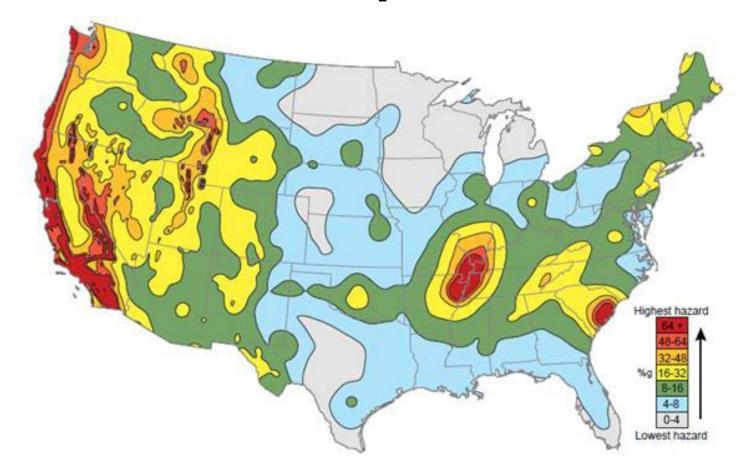
Drought Hazard Vulnerability

Source: Drought Vulnerability
Map by Planning Area, Prince
George's County and City of
Laurel Maryland Hazard
Mitigation Plan (2010 Update)



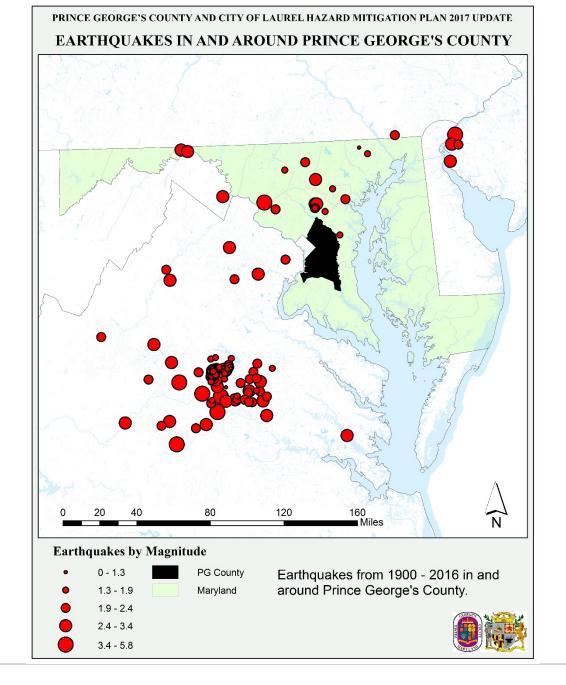
Earthquake Hazard Risk

National Earthquake Risk

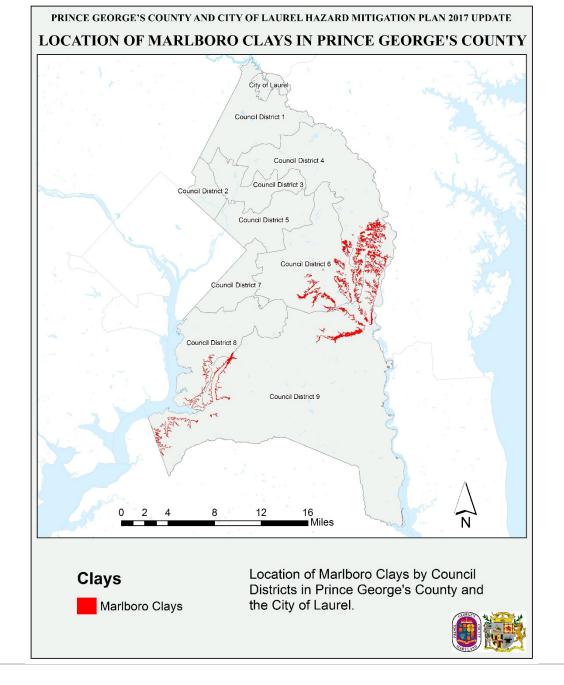


Source: United States Geological Survey (USGS) Earthquake Map (based on peak ground accelerations for a 2% probability event in the next 50 years), with earthquake ground accelerations expressed as a percentage of gravity, g (32.2 ft/s²)





Landslide Hazard Risk



Hazard Priority Ranking Criteria

Table V-1. Hazard Ranking Priority Criteria				
Probability/History	Vulnerability	Maximum Threat (Geographic Area Affected)	Warning Time	2011 Ranking
Unlikely	Negligible	Isolated	Extended	Limited
No documented occurrence with	1 to 10% of people	< 5% of	Three days	
annual probability <0.01	or property	community	or more	
		impacted		
Somewhat Likely	Limited	Small	Limited	Moderate
Infrequent occurrence with at	10 to 25% of people	5 to 25% of	2 days	
least one documented event and	or property	community		
annual probability between 0.5		impacted		
and 0.01				
Likely	Critical	Medium	Minimal	
Frequent occurrence with at least	25 to 50% of people	25 to 50% of	1 day	
2 documented events and annual	or property	community		
probability between 1 and 0.5		impacted		
Highly Likely	Catastrophic	Large	No Notice	Significant
Common events with annual	>50% of people or	>50% of	< 24 hours	
probability >1	property	community		
		impacted		

	State Ranking	MAC Ranking (Dec 16)	2017 HIRA Ranking
Riverine Flooding	High	High	High
Coastal Flooding	Medium – High	Low	Medium-Low
Severe Storms - Heavy Rain	High	High	High
Flood Risk - Dam Failures	High	High	Medium
Flood Risk - Levee Failures	High	N/A	Medium
Tornadoes	High	Medium - Low	High
Severe Storms - Thunderstorm Wind, Lightning, and Hail	High	N/A	Medium -High
High Winds	High	Medium - Low	Medium -High
Hurricanes/Tropical Storms	High	N/A	High
Winter Storms/Blizzards	High	High	Medium -High
Wildfire	Medium – High	Low	Medium-Low
Drought	Medium – High	Low	Medium-Low
Earthquakes	Low	Medium - Low	Medium
Landslide	Low	Low	Low
Sinkholes	Low	N/A	Low

Mitigation Goal Refresh

Prince George's County Mitigation Goal It is the goal of Prince George's County, Maryland, to protect and improve public health, safety and welfare, and to expand livable communities by:

- •Increasing public awareness of natural hazards and risk reduction measures; and
- Mitigating risks due to natural hazards.



Prince George's County/Laurel Revised HMP Goal March 10, 2017

It is the goal of Prince George's County and the City of Laurel, Maryland, to protect and improve the public health, safety, and welfare of its communities, and to expand the resiliency of livable communities by:

- •Increasing public awareness of natural hazards and risk reduction measures; and
- •Mitigating risks due to natural hazards.



2017 - 2022 Actions

- Include 2011 "Carry-forward" actions
- Actions must include:
 - Strategy/action statement
 - Responsible Department
 - Priority
 - Goals supported
 - Hazard Addressed
 - Timeframe
 - Resources funding source, staff, etc.



Mitigation Actions

- Preventative Measures
- Property Protection
- Emergency Services
- Structural Projects
- Natural Resources Protection
- Public Information Programs



Outreach Brainstorming

Potential Project Site Visit

- Funds in budget for site visits several days
- Project sheet can pre-position you for FEMA Hazard Mitigation Assistance Funds
- May, 2017





Next Steps

- Draft HIRA chapter comments to Deborah Mills (dmills@dewberry.com) by March 31, 2017
- 2011 Mitigation Action Status to Jillian Browning (jbrowning@dewberry.com) by March 31, 2017
- 2017 2022 Mitigation Actions to Jillian Browning by March 31, 2017
- Draft Plan to Prince Georges County and City of Laurel mid-April
- Project site visits in May



HIRA-Goals Htg 3.16.2014

Prince George's County Government

Office of Emergency Management
 Hazard Mitigation Advisory Committee

First Name	Last Name	Agency	Title	Phone Number	Email	Kick Off-Meeting	Second MTG.
Todd	Addis	Office of Information Technology	Security Manager	301-883-3351	wtaddis@co.pg.md.us	Х	Emailed 3/6 & Called
Chris	Akinbobola	Department of Environment	Special Assistant	301-883-7157	caakinbobola@co.pg.md.us	X	X
William	Alexander	Prince George's County Police Department	Major	410-310-1297	waalexander@co.pg.md.us		X
Stephen	Allen, Sr.	City of Laurel	Emergency Manager	301-725-5300, ext. 2246	sallen@laurel.md.us	X	X
Jack	Brock	City of Laurel	Planning Director	301-725-5300	jbrock@laurel.md.us	Х	No Response
umes	Carter	Office of Emergency Management	N/A	301-352-1443	JACarter@co.pg.md.us		
Gwen	Clerkley	Department of Public Works and Transportation	Associate Director	301-499-8523	gtclerkley@co.pg.md.us	X	Email- Not able
Catherine	Escarpeta	Department of Environment	GIS Analyst	301-883-5990	crescarpeta@co.pg.md.us	X	X
Ronald	Gill	Office of Emergency Management	Director	240-619-6497	regill@co.pg.md.us	X	X
Charles	Hamby	Prince George's County Police Department	Major	301-583-7170	cehamby@co.pg.md.us		X
S awn	Hawkins-Nixon	Department of Environment	Associate Director	301-883-5839	dhnixon@co.pg.md.us	X	X
ourtney E.	Mariette	Office of Emergency Management	Regional Planner	301-324-4453	cemariette@co.pg.md.us	X	X
Theresa	Martin	City of Laurel	GIS Analyst	301-725-5300, ext. 2214	tmartin@laurel.md.us	X	No Longer w/Laurel
Kirk	McLean	Prince George's County Police Department	Lieutenant	301-772-4740	kimclean@co.pg.md.us	X	Email- Not able
eborah	Mills	Dewberry	Consultant	804-823-6971/804-823-6971	gtclerkley@co.pg.md.us	X	X
бe	Perez	Prince George's County Police Department	Captain	202-957-8822	irperez@co.pg.md.us	X	NO-email/DM
an	S/thefield	Prince George's County Police Department		301-772-4975			X
Vernon L.	Stinnett	Department of Public Works and Transportation	Division Chief	301-499-8556	VLStinnett@co.pg.md.us	X	X
ebbie	Tyner	Maryland-National Capital Park and Planning Commission	Deputy Director	301-699-8556	debbie.tyner@pgparks.com	Х	Surgery/No Designee
Eddie	Walters	Office of Emergency Management	N/A	301-352-1442	EAWaiters@co.pg.md.us		x

DISHEFFEON@COPGIONS CEHANBRE COPCINDUS

1 = spoke to this person (contrary)

Prince George's County Local Emergency Planning Committee Agency Membership List

Committee Chairperson

Ronnie Gill –Committee Chair TBD – Vice Chair

Agency List

Office of Homeland Security & Office of Emergency Management 7915 Anchor Street Landover, MD 20785

Fire/EMS 9201 Basil Court Largo, MD 20774

Public Works & Transportation 9400 Peppercorn Place Largo, MD 20774

Health Department 9201 Basil Court Largo, MD 20774 Police Department 7600 Barlowe Road Palmer Park, MD 20785

Department of the Environment 9400 Peppercorn Place Largo, MD 20774

Largo Government Center 9201 Basil Court Largo, MD 20774

County Council Member - (TBD) 14741 Governor Oden Bowie Drive Upper Marlboro, MD 20772

MEMA 5401 Rue Saint Lo Drive Reisterstown, MD 21136

Non-Government & Volunteer Organizations

RACES 4910 Ashford Drive Upper Marlboro, MD 20772

Bowie Health Campus 15001 Health Center Drive Bowie, MD 20716

PEPCO P.O. Box 341010 West Bethesda, MD 20827 Baltimore Gas & Electric (BGE) 47 State Circle Annapolis, MD 21401

Washington Suburban Sanitary Commission 14501 Sweitzer Lane Laurel, MD 20707

City of Laurel Laurel Municipal Center 8103 Sandy Spring Road Laurel, MD 20707 American Red Cross National Capital Region 8550 Arlington Boulevard Fairfax, VA 22031

Prince George's County Public Schools 507 Largo Road Largo, MD 20774 City of Bowie-City Council Member (TBD) 15901 Excalibur Road Bowie, MD 20716

City of Bladensburg 4229 Edmonston Road Bladensburg, MD20710

Sub-Committees

Administration Subcommittee
Hazardous Materials/Vulnerability Analysis Subcommittee
Community Preparedness/Public Education Subcommittee
Plan Development/Exercise Planning Subcommittee



Capital Heights Day Photos







Public Works Round Table Workshop-5/23/17

- 9:00-9:05 AM Welcome
- 9:05-9:15 AM Introductions
- 9:15- 9:30 AM Ice Breaker
- 9:30- 10:15 AM Public Works Who are we? Gwen Clerkley, PGC -DPW&T
- 10:15-10:30 AM Break
- 10:30-11:15 AM Project Management- Shonte Eldridge, City of Baltimore
- 11:15-12 PM Media / Social Relations
- 12 1 PM Lunch
- 1-1:30 PM APWA
- 1:30-1:45 PM Break
- 1:45-2:15 PM Office of Emergency Management, Courtney Mariette
- 2:15- 2:30 PM Break
- 2:30- 3:00 PM Round Table Discussion





Prince George's County Office of Homeland Security Office of Emergency Management Tuesday, May 22, 2017



Capitol Heights Public Works Director's Round Table

Please write legibly.				
First and Last Name	Agency	Email Adddress		
ROGER BEAM	City of District	gstephanosecity of bowie. org		
GEORGE STEPHANI		gstephanosecit, of bowie . org		
Kenita Johnson	Arlington Court	el shown @ arlington va . 45		
LERDY BERNAND	Aplington Co.	LBERNArd & ARLINSTONVA.		
Markisha Baer	ner Seat Pleasa	of markisha. garnerestatols		
Purnell Hall	Town of Bladensh	ra phullallalensburginet		
Guen Chilley	DPWIT	Atclerklasa co.og. nd. us		
LESLEY KIDDLE	City of HyNtsul	holddle@hyatsville.org		
Jose Machado	lowin of Brent	bod Josemachado 1956 @halip		
Panald Mathews	THE RESERVE THE PERSON NAMED IN COLUMN 2 I	The state of the s		
Michael Schmid.	City of Hyalbul	m Schmidl @ Hyaltsville.org		
Joseph Buckholte		IK JBUKHELTZ @ Hyattsville.of		
Jan Authon	TOWN OR CAPITAL H	17.		
Arthur Cichardson	Town of Capital	,		
Michael Coleman	Town of Capital Hats	Stlefan620 gmail.com		
Chris Edward	THE CONTRACT OF THE PARTY OF TH	ChrisEdnand Q yahaa com		
Emmit, WARN	TOWN OF CALHO (H)	(wardemont (1) yestoo Com		
10xa lan	Town of copulate	ests Haylor Ocapitalheightsom		
D				



COUNTY COUNCIL
Derrick Leon Davis
Mel Franklin
Dannielle M. Glaros
Andrea C. Harrison
Mary A. Lehman
Obie Patterson
Deni Taveras
Karen R. Toles
Todd M. Turner

A Proclamation

WHEREAS, the month of June signals the advent of hurricanes, tropical storms, tornadoes and other related severe weather occurrences including the likelihood for flooding; and

WHEREAS, the Prince George's County Department of the Environment conducted floodplan studies identifying at least 4,300 floodprone structures Countywide; and

WHEREAS, the Department of Environment is taking measures to inform local residents about the hazards of flooding; and

WHEREAS, it is important to renew public awareness of floods and flood disasters, and that local residents become aware of the potential for flooding and how to reduce the impact of a major flood.

NOW, THEREFORE, Be It Proclaimed by the Prince George's County Council and County Executive, Rushern L. Baker, III, that the month of June 2017, is declared "Flood Awareness Month" in Prince George's County. FURTHER. all citizens encouraged to become aware of the programs and services the County offers through the Department of Environment, the Offices of Emergency Management. and the Police and Fire/EMS Departments, which protect the community from floods and flood disasters.

DERRICK LEON DAVIS
COUNCIL CHAIRMAN

RUSHERN L. BAKER, III COUNTY EXECUTIVE Appendix B: HIRA from the Prince George's County and the City of Laurel Hazard Mitigation Plan

Appendix B – HIRA

Please note:

Historic flood and wind information for historic storms is often included with historic tropical depressions, hurricanes and severe storms.

HAZARD HISTORIES, TIMELINE BEFORE 2010

FLOOD RELATED HAZARDS

Event Date	Description
August 1971	FEMA Major Disaster declaration (FEMA-DR-309-MD) issued beginning August 17,
	1971 for flooding and severe storms.
June 1972	FEMA Major Disaster declaration (FEMA-DR-351-MD) issued beginning June 23, 1972
	for flooding from remnants of Hurricane Agnes.
October 1975	FEMA Major Disaster declaration (FEMA-DR-489-MD) issued beginning June 23, 1972
	for flooding and severe storms.
September 2003	FEMA Major Disaster declaration (FEMA-DR-1492-MD) issued beginning September
	18, 2003 for flooding from remnants of Hurricane Isabel.
December 2009	Remnants of Hurricane Ida (or the November 2009 Mid Atlantic nor'easter)
	contributed to gusty winds and heavy rain. The NOAA NCEI Storm Events Database
	indicates one flood event was reported in Temple Hills

WIND RELATED HAZARDS

Fujita Scale	Date	Community Affected	Deaths	Injuries	2016 Property Damages	2016 Total Damages
EF0	08 May 2008	Clinton Hyde Fld Arp	0	0	\$111,000	\$111,000
EF0	08 May 2008	Woods Corner	0	0	\$55,500	\$55,500
EF1	20 Apr 2008	University Park	0	0	\$44,400	\$44,400
F3	24 Sep 2001	Hyattsville	2	55	\$135,000,000	\$135,000,000
F1	25 May 2001	Brandywine	0	0	\$33,700	\$33,700
F1	21 Jun 2000	Laurel	0	0	\$208,000	\$208,000
F1	13 May 2000	Brandywine	0	0	\$139,000	\$139,000
F0	24 Jun 1996	Andrews AFB	0	0	\$304,000	\$304,000
F1	24 Jun 1996	Upper Marlboro	0	0	\$761,000	\$761,000
F2	05 Oct 1995	Temple Hills	0	3	\$7,830,000	\$7,830,000
F1	18 May 1995	Cheverly	0	2	\$3,130,000	\$3,130,000

Appendix C – 2011 Mitigation Actions

The following tables provide updated to the actions committed to by Prince George's County and the City of Laurel for the 2011 Prince George's County and the City of Laurel Hazard Mitigation Plan. The county's Actions are presented first with the city's following.

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
County - 1	A-1	Mapping for Risk Reduction. Public Information. Use the revised flood maps to refine DER's mailing list for public information	Lead: Department of Environmental Resources Support: Maryland- National Capital Park & Planning	Riverine Flooding; Coastal Flooding	High	No Action	Annually, DoE mails letters to residents occupying flood prone structures to inform them about flood hazards, recommend precautionary measures and advise on how to protect their property from flood damage. DoE's mailing list of flood prone properties will be updated to include additional
County - 2	A-2	Mapping; Use Updated Mapping for Risk Reduction. At-Risk Buildings. Use the revised	Lead: Department of Environmental Resources Support: Maryland- National Capital Park & Planning	Riverine Flooding; Coastal Flooding	High	Continued	The new FIS and FIRM recently became effective on September 16, 2016. Work on this action is progress.

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
County - 3	A-3	lManning: Use Undated	Lead: Department of Environmental Resources Support: Maryland- National Capital Park & Planning	Riverine Flooding; Coastal Flooding	High	Continued	The new FIS and FIRM recently became effective on September 16, 2016. Staff may now proceed with addressing this action item.
County - 4	B-1	Assessment data in order	Department of Environmental Resources The Maryland- National Capital Park & Planning Commission - Debbie Tyner	Streambank Erosion	High	Continued	

			<u> </u>		0		
Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
County - 5	C-1	residential buildings of owners who accept an offer	Resources	Riverine Flooding; Coastal Flooding	High	Completed	The County obtained grant funds to support this action in 2008. Using the existing flood data to identify buildings predicted to have flood depths of more than 3 feet for the future condition, 100-year flood, more than 80 non-residential property owners were contacted and offered free flood audits. Owners of 14 properties responded, including a church. A number of public buildings in the County have been identified for audit, including 13 buildings and structures and the two schools that were identified in the 2005 Plan as having some degree of flood risk. The City of Laurel requested inclusion of the building recently acquired for the police station. In 2010, all of above flood audits had been completed and a Summary Report of Floodproofing Audits was completed in March, 2011. The County completed a repetitive loss area analysis in 2015 and conducted audits of residential structures as part of this analysis.
County - 6	D-1	Improvements. Work with the Corps of Engineers to	Department of Environmental Resources Department of Public Works & Transportation	Riverine Flooding/Lev ee Failure	High	Continued	The levee improvement work has been completed for the Brentwood, Edmonston-Bladensburg and Riverdale-Hyattsville levee systems. FEMA has accredited these improved levee systems. The County continues to make progress towards accreditation of the Allison Street Flood Protection

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
							System [levee]. This project is at 100% design and the project has been awarded. The anticipated start date of the construction is October 2016.
County - 7		system notification lists used in the W.A.R.N. system with the list of flood-prope properties	Department of Environmental Resources Office of Emergency Management	Riverine Flooding; Coastal Flooding	High	Continued	The new FIS and FIRM recently became effective on September 16, 2016. Staff may now proceed with addressing this action item.

						2017 1 1	
Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
County - 8	F-1	NPDES sites, and other land uses; if found to be in flood hazard areas, communicate with owner/handler regarding risk and appropriate response and protection measures.	Fire/EMS Department of Environmental Resources Maryland Department of the Environment	Riverine Flooding; Coastal Flooding	High	Continued	While the County sends annual mailings to occupants of flood prone structures to inform them that their structures are at risk for flooding and to provide advice on how to protect their persons and properties, guidance on how to reduce incidents of flood-related pollution has not been provided for occupants of properties where hazardous materials are handled or stored. The new FIS and FIRM recently became effective on September 16, 2016. An updated list of properties which are located in the FEMA flood hazard area may be generated using the September 16th mapping data. Staff will assess how best to communicate with the subject property owners about risk, appropriate response and protection measure to reduce chances for waterborne pollution.
County - 9	G-1	Response and Planning. Continue the County's commitment and participation with the	Department of Environmental Resources Washington Suburban Sanitary Commission	Drought	High	Continued	MWCOG continues to monitor along with WSSC.

			Timee deorge		0		
Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
County - 10	H-1	-	Department of Family Services	Winter Storm	High	Continued	DFS provides the following to senior citizens regarding extreme cold: 1. PSA on News Channel 8 and CTV; 2. Fact Sheets including: 7 Winter Safety Tips; Dressing Warmly; Times for Keeping Warm Inside and Winter Weather Preparedness. Senior Citizens that participate in the daily nutrition program are provided extra frozen meals during the winter months of January, February and March in addition to the hot meals they receive daily.
County - 11	I-1	experiencing or likely to	Department of Environmental Resources	Land Movement/U nsafe Lands	High	Completed	Seven properties in the Fort Washington area were acquired through FEMA Hazard Mitigation Assistance funds during the planning period.

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
		reconstruction, relocation of buildings, or demolition/acquisition. If determined appropriate, pursue funding to facilitate mitigating future damage.					

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
County - 12		of the Environment to compare the flood-	Department of Environmental Resources Department of Public Works & Transportation	Riverine Flooding; Coastal Flooding	High	Continued	The building code has been updated to cite the 2015 editions of International Building Code, International Residential Code for One- and Two-Family Dwellings, International Mechanical Code etc. Also, the County Council introduced Bill CB-38-2016 on June 7, 2016 for the purpose of amending the County's Floodplain Ordinance to be consistent with the State of Maryland's Model Floodplain Management Ordinance (May 2014), which meets the requirements of the National Flood Insurance Program (the "NFIP"). This bill was adopted September 13, 2016.
County - 13		After flood events, the	Department of Environmental Resources	Riverine Flooding; Coastal Flooding	High	Continued	After 2011's TD Lee, damage assessment reports included identification to determine mitigation needs

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
Laurel - 1	A-4	Map Revision. Use the	Development Management Office; City Administrator's Office	Riverine Flooding; Coastal Flooding	High	Complete	The revised flood studies have been completed and approved by FEMA on September 16, 2016. A new FIRM has been completed and approved by FEMA. The delineations of the flood elevations and floodplain boundaries have been established. A complete evaluation of the new expanded floodplain along with the structures identified within this floodplain must be completed.

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
Laurel - 2	C-1	Conduct Flood Audits of Selected Buildings. Flood Audits. Conduct flood audits of +16 public buildings (County, The M-NCPPC, and City of Laurel) and 14 nonresidential buildings of owners who accept an offer for the audit. Additional audits may be conducted if more owners express interest. See Section 5.5.1 and Appendix D for the summary report of audits conducted in Spring 2010.	Department of Environmental Resources	Riverine Flooding; Coastal Flooding	High	Complete	The County obtained grant funds to support this action in 2008. Using the existing flood data to identify buildings predicted to have flood depths of more than 3 feet for the future condition, 100-year flood, more than 80 non-residential property owners were contacted and offered free flood audits. Owners of 14 properties responded, including a church. A number of public buildings in the County have been identified for audit, including 13 buildings and structures and the two schools that were identified in the 2005 Plan as having some degree of flood risk. The City of Laurel requested inclusion of the building recently acquired for the police station. In 2010, all of above flood audits had been completed and a Summary Report of Floodproofing Audits was completed in March, 2011. The County completed a repetitive loss area analysis in 2015 and conducted audits of residential structures as part of this analysis.

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
Laurel - 3	D-2	Flood Warning Notifications. Pending approval of new	Department of Environmental Resources Department of Public Works & Transportation	Riverine Flooding/Lev ee Failure	Medium	Cancelled	This action item does not affect the City of Laurel. Remove from List.
Laurel - 4	F-2	floodplain mapping to WSSC and update coordination and flood warning notification	Department of Environmental Resources Office of Emergency Management	Riverine Flooding; Coastal Flooding	High	Complete	WSSC completed revised Emergency Action Plans for both Brighton and Duckett Dams in March, 2016. Dam emergency notifications procedures have been reviewed and updated and shared with the City of Laurel. The new notification procedures must be tested and exercised within the City of Laurel and Prince George's County to identify any shortfalls or procedures that need to be amended. Expanded floodplain areas must be addressed in relationship to areas effected by a release of water from the dams.

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
Laurel - 5	G-2	commitment and participation with the MWCOG and WSSC when drought awareness responses are activated	Department of Environmental Resources Washington Suburban Sanitary Commission	Drought	High	Continue	The MWCOG in cooperation with WSSC has addressed the need for water conservation efforts during drought conditions within the City of Laurel and surrounding areas. The City of Laurel is now a full member of MWCOG and will work within the numerous committees in preparing for, responding to, and mitigating drought conditions within the City of Laurel.
Laurel - 6	G-3	Continue to Support Regional Drought Response and Planning. Hazard Addressed: Drought.	Department of Environmental Resources Washington Suburban Sanitary Commission	Drought	Medium	Continue	The MWCOG in cooperation with WSSC has addressed the need for water conservation efforts during drought conditions within the City of Laurel and surrounding areas. The City of Laurel is now a full member of MWCOG and will work within the numerous committees in preparing for, responding to, and mitigating drought conditions within the City of Laurel.

Action Number	Previously	Action Strategy	Lead Office	Hazard Addressed	Priority	2017 Action Update (continued/ cancelled /completed?)	2017 Notes - Individual Actions
Laurel - 7	K-2	After flood events, the City will evaluate whether to	Department of Environmental Resources	Riverine Flooding; Coastal Flooding	High/ Medium	Continue	The City of Laurel has started 2 major projects earmarked to assist in identifying Flood Mitigation Projects. The first project is to enroll in FEMA's Community Rating System (CRS). This ISO led program will enhance the City's flood insurance rating which directly equates into lower costs for both the City and the citizens currently enrolled in the NFIP. The second project is a contract for the development of the City's first Hazard Mitigation Project which will identify specific risk reduction projects and assist in applying for Federal and State sponsored grants to support these projects.

Appendix D – 2017 to 2022 Mitigation Actions

The following tables provide the new and updated actions committed to by Prince George's County and the City of Laurel for the 2017 Prince George's County and the City of Laurel Hazard Mitigation Plan. The county's Actions are presented first with the city's following.

			eorge's Count				t Type - boldf	lead					
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Prevention	County - 1	Continue to partner with FEMA/MDE to promote use of Updated Flood Hazard Maps. Updated Mapping will continue to inform Risk Reduction and mitigation of at-Risk Buildings such as repetitive loss structures.	Lead: Department of Environment Support: Maryland- National Capital Park & Planning	High	x	х				Х	Riverine Flooding; Coastal Flooding	Ongoing	Staff
Prevention	County - 2	Partner with FEMA/MDE to Update Flood Hazard Mapping; Use Updated Mapping for Risk Reduction. Private Nonprofit Buildings. Search the updated list of flood-prone properties to determine if any are owned by private nonprofit organizations.	Lead: Department of Environment Support: Maryland- National Capital Park & Planning	Medium	x	Х					Riverine Flooding; Coastal Flooding	Ongoing	Staff
Prevention	County - 3	Using the revised Flood Maps, check locations of HazMat sites, NPDES sites, and other land uses; if found to be in flood hazard areas, communicate with owner/handler of hazardous materials and known pollutants regarding risk and appropriate response and protection measures.	Fire/EMS Department of Environment Maryland Department of the Environment	High	x				х	х	Riverine Flooding; Coastal Flooding	Ongoing	Staff

							t Type - boldf	lead					
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Prevention	County - 4	Integrate mitigation plan requirements and actions into other appropriate planning mechanisms such as comprehensive plans and capital improvement plans.	Office of Homeland Security - Office of Emergency Management; Department of Environment	Medium	x	X	x		Х	X	All Hazards	Ongoing	Staff
Prevention	County - 5	Collect flood depth information to support a grant to provide elevation certificates in areas newly included in Special flood hazard areas to assist residents in obtaining elevation certificates to support LOMAs or reduced risk NFIP premiums.	Department of Emergency Management	High	x	Х				х	Flood	ongoing	Staff, grant funding
Property Protection	County - 6	Continue to coordinate the Building Code & Floodplain Ordinance whenever either is updated.	Department of Environment Department of Public Works & Transportation	High	х	х					Riverine Flooding; Coastal Flooding	Ongoing	Staff

			lorge's County	, 2017 (0)			t Type -	lead					
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource of Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Property Protection	County - 7	Support mitigation projects that will result in protection of public or private property from natural hazards. Eligible projects include but are not limited to: 1. acquisition of floodprone property 2. Elevation of floodprone structures 3. Minor structural flood control projects 4. Relocation of structures from hazard prone areas 5. Retrofitting of existing buildings, facilities and infrastructure 6. Retrofitting of existing buildings and facilities for shelters 7. Critical infrastructure protection measures 8. Stormwater management improvements 9. Advanced warning systems and hazard gauging systems (weather radios, reverse-911, stream gauges, I-flows) 10. Targeted hazard education 11. wastewater and water supply system hardening and mitigation	Office of Homeland Security - Office of Emergency Management; Department of Environment, DPWT	High	X	x	X	X	X	X	All Hazards	Ongoing	Staff

							t Type - boldf	lead					
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Property Protection	County - 8	Promote appropriate mitigation measures for hazard-vulnerable priority critical facilities	Office of Emergency Management; Dept of Environment	High		х					All Hazards	Ongoing	Staff, grants, CIP
Property Protection	County - 9	Update Upper Marlboro Emergency Response Plan to address flooding, including evacuation, emergency response, mitigation, etc.	Department of Emergency Management	Medium	х	х	х	X	x	х	Flood	1 -3 years	Staff, county funding
Property Protection	County - 10	Continue annual flood risk awareness and mitigation mailing to all owners of high-risk properties in the SFHA, including RL structures.	Department of Emergency Management	High	х	х				х	Flood	annually	Staff, county funding

							t Type -	lead					
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Natural Resource Protection	County - 11	Continue implementation of Best Management Practices and Low Impact Development practices to meet NPDES water pollution requirements. The County has EPA-listed Total Daily Maximum Load (TMDL) stream segments due to high levels of Nitrogen, Phosphorous, Sediment and Trash which it continues to mitigate.	Department of Emergency Management	High	х		x			X	Flood	ongoing	County funding through Capital Improvement Plan budgeting; grants to local NGOs
Natural Resource Protection	County - 12	Use the M-NCPPC 2016 water quality biological stream assessment studies to prioritize stabilization projects, especially if funding from outside resources is available for mitigation of environmental impacts.	Department of Environmental Resources The Maryland- National Capital Park & Planning Commission - Debbie Tyner	Medium	х		x				Flood	ongoing	Staff; consulting resources

			eorge's County				t Type - boldf	lead					
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Structural	County - 13	Anacostia Levee Improvements. Work with the Corps of Engineers to pursue funding to implement the levee improvement work. Four of five levee systems have been FEMA-accredited. Complete accreditation of Arundel Street Levee System. Maintain accreditation through O & M Plan implementation as prescribed by USACE.	Department of Environment Department of Public Works & Transportation	High				x			Riverine Flooding/L evee Failure	1 - 3 years	Staff
Emergency Services	County - 14	Update the flood warning system notification lists used in the Everbrite system with the list of flood-prone properties based on revised flood maps. Distribute general warnings to all County citizens using traditional and social media platforms such as the ORM website, Twitter and Facebook.	Department of Environment Office of Emergency Management	High	Х				x	Х	Riverine Flooding; Coastal Flooding	Ongoing	Staff, program maintenance costs for Everbrite
Emergency Services	County -	Complete disaster recovery plan, family reunification plan.	Office of Emergency Management	High	Х				x	X	All Hazards	Ongoing	Staff

			corge's Count				t Type - boldf	lead		n			
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Emergency Services	County - 16	The Department of Family Services Agency on Aging will continue its outreach to seniors about health and safety during periods of extreme heat and extreme cold. Information will be added to the Family Service's web page and frozen meal distribution with supplement provision of hot meals during severe weather periods from January through March.	Department of Family Services	High	x				Х	Х	Winter Storm	ongoing	Staff, county funding
Emergency Services	County - 17	Continue to Support Regional Drought Response and Planning. Continue the County's commitment and participation with the MWCOG and WSSC when drought awareness responses are activated.	Department of Environmental Resources Washington Suburban Sanitary Commission	Medium	x				х	Х	Drought	ongoing as necessary	Staff, county funding

			eorge's Count				Type - boldf	lead					
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Education & Outreach	County - 18	Continue participation in community and neighborhood events to promote hazard awareness and mitigation options.	Office of Emergency Management; Dept of Environment	High	x					x	All Hazards	Ongoing	Staff
Education & Outreach	County -	Expand use of Social Media for natural hazard awareness and hazard mitigation messaging.	Office of Emergency Management	High	Х					х	All Hazards	Ongoing	Staff
Education & Outreach	County - 20	Work with County municipalities to provide hazard awareness messaging and information on storm preparedness and mitigation for promotion using local newspapers, municipal websites, etc.	Office of Emergency Management	High	х					x	All Hazards	Ongoing	Staff
Education & Outreach	County - 21	Distribute Citizens' Preparedness Guide and Business Preparedness Guides at community events. Upon updating, incorporate new HMP Hazard information	Office of Emergency Management	Medium	х					х	All Hazards	Ongoing	Staff

		City	of Laurel 20	17 to 2022	Mit	igatio	n Act	ions					
					Pro	ject Typ	e - leac	l type	in bo	ldface			
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Prevention	Laurel - 1	Continue to partner with FEMA/MDE to promote use of Updated Flood Hazard Maps. Updated Mapping will continue to inform Risk Reduction and mitigation of at-Risk Buildings such as repetitive loss structures.	Emergency Manager; Department of Economic & Community Development	Medium - High	X						Flood	Ongoing	Staff, MDE
Prevention	Laurel - 2	Integrate mitigation plan requirements and actions into other appropriate planning mechanisms such as comprehensive plans and capital improvement plans.	Emergency Manager; Department of Economic & Community Development	Medium - High	x				X		All Hazards	Ongoing	Staff
Property Protection	Laurel - 3	Support mitigation projects that will result in protection of public or private property from natural hazards. Eligible projects include but are not limited to: 1. acquisition of floodprone property 2. Elevation of floodprone structures 3. Minor	Emergency Manager; Department of Economic &	Medium - High	Х	х	Х	Х		Х	All Hazards	Ongoing	City staff, Consultant, and FEMA HMA grants, Capital Improveme

City of Laurel 2017 to 2022 Mitigation Actio							ions						
					Pro	ject Typ	pe - lead	l type	in bo	ldface			
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
		structural flood control projects 4. Relocation of structures from hazard prone areas 5. Retrofitting of existing buildings, facilities and infrastructure 6. Retrofitting of existing buildings and facilities for shelters 7. Critical infrastructure protection measures 8. Stormwater management improvements 9. Advanced warning systems and hazard gauging systems (weather radios, reverse-911, stream gauges, I-flows) 10. Targeted hazard education 11. wastewater and water supply system hardening and mitigation	Community Development										nt Budgeting
Property Protection	Laurel - 4	Seek mitigations solutions for city facilities including: the flood-prone municipal swimming pool; Department of Public Works flood-prone buildings and the City of Laurel Police Department Building. Determine pro-active preventive mitigation actions and seek grant funds for permanent solutions.	Emergency Manager; Department of Economic & Community Development ; Department of Public Works,	High		Х					Flood	1 - 5 y	Staff, grant resources, Capital Improveme nt Plan budgeting

	City of Laurel 2017 to 2022 Mitigation Actions												
					Pro	ject Typ	oe - lead	l type	in bo	ldface			
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
			Laurel Police Department, Department of Recreation.										
Property Protection	Laurel - 5	After flood events, the City of Laurel will evaluate whether to pursue funding to implement flood mitigation projects.	Prince George's County Department of Environment	High/ Medium		Х			Х		Riverine Flooding; Coastal Flooding	Ongoing	City staff, consultants, FEMA HMA grants
Property Protection	Laurel - 6	Pursue participation in the FEMA Community Rating System to reduce the cost of National Flood Insurance Policy premiums.	Emergency Manager	High	x					х	Riverine Flooding; Coastal Flooding	1 -3 yrs.	City staff, consultant, potential city or state grant funding (MD Department of Environme ntal Services)

	City of Laurel 2017 to 2022 Mitigation Actions												
	Action Number	Action Strategy		Priority	Pro	ject Ty _l	oe - lead	l type	in bo	ldface		Timeframe	Resources
Primary Mitigation Project Type			Lead Office		Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed		
Emergency Services	Laurel - 7	Continue to support regional drought response and Planning.	Prince George's County Department of Environment Washington Suburban Sanitary Commission Emergency Manager	Medium	х						Drought	Ongoing (as needed)	Staff
Emergency Services	Laurel - 8	Continue to support regional drought response and planning by continuing the City's commitment and participation with MWCOG and WSSC when drought awareness responses are activated. Examine appropriate water conservation measures for City office buildings.	Prince George's County Department of Environment Washington Suburban Sanitary Commission Emergency Manager	High	х				х	х	Drought	Ongoing (as needed)	Staff

	City of Laurel 2017 to 2022 Mitigation Actions												
					Pro	ject Typ	e - leac	l type	in bo	ldface			
Primary Mitigation Project Type	Action Number	Action Strategy	Lead Office	Priority	Prevention	Property Protection	Natural Resource Protection	Structural	Emergency Services	Education & Outreach	Hazard(s) Addressed	Timeframe	Resources
Emergency Services	Laurel - 9	The new notification procedures must be tested and exercised within the City of Laurel and Prince George's County to identify any shortfalls or procedures that need to be amended. Expanded floodplain areas must be addressed in relationship to areas effected by a release of water from the dams.	Emergency Manager	High	х			Х	х	х	Dam Impoundm ent Breach; Flood	Ongoing	City staff, Everbrite and budget
Education & Awareness	Laurel - 10	Continue outreach efforts to promote recently completed bi- lingual Citizens Emergency Preparedness Guide	Emergency Manager, CERT volunteers	High					Х	x	All Hazards	Ongoing	Staff, CERT teams
Education & Awareness	Laurel - 11	Work with City closed circuit television network to produce seasonal hazard awareness and topical mitigation programming.	Emergency Manager , Department of Communicati ons	Medium					Х	х	All- Hazards	Ongoing	Staff

Appendix E – Record of Changes

Record of Changes

2017 Plan Section	Heading Section	Changes Made					
	Executive Summary	Brief description of update					
	1.1 Authority	Abbreviated FEMA regulatory history from 2010 plan update					
	1.2 Planning Area	Plan areas for Prince George's County changed from small planning units to County Council Districts per direction from Office of Emergency Management					
SECTION I.	1.3 Planning Committee Membership	Updated Mitigation Advisory Committee names and agencies					
EXECUTIVE	1.4 Hazard Identification & Risk Assessment	Updated summary					
SUMMARY	1.5 Mitigation Goals & Strategies	Updated revised goal, described strategy groupings					
	1.6 Capability Assessment, Implementation &	Revised to reflect Prince George's County and City of Laurel new General Plans, how HMP will be					
	Maintenance	implemented and maintained.					
	1.7 Acknowledgements	Updated					
	1.8 Conclusions	Updated					
SECTION II.	2.1 Mitigation	Updated					
SECTION II. INTRODUCTION	2.2 The Local Mitigation Planning Impetus	Updated					
INTRODUCTION	2.3 Organization of the Plan	Updated					
	3.1 Planning Process	Process description revised					
	3.1.3 Incorporation of Existing Plans and Studies	Updated to include new general plan information					
SECTION III.	3.2 Community Profile	New section. Revised US Census, American Community Survey and General Plan demographic information and data					
PLANNING PROCESS AND COMMUNITY	3.2.1 Introduction	Updated Introduction to reflect new 2015 TIGER Census data.					
PROFILE	3.2.2 Physiography	Information expanded.					
FROFILE	3.2.3 Hydrology	Information expanded.					
	3.2.4 Climate	Information expanded.					
	3.2.5 Land Use and Development Trends	Updated to reflect land use as of the publication date of the Prince George's County General Plan (2014) and City of Laurel's 2016 General Plan.					

Record of Changes

2017 Plan Section	Heading Section	Changes Made						
SECTION III.	3.2.6 Population	Updated section to reflect current estimates from the 2015 TIGER Census data.						
PLANNING PROCESS	3.2.7 Housing	Updated section to reflect current estimates from the 2015 TIGER Census data.						
	3.2.8 Business and Labor	Created section and listed of major employers.						
AND COMMUNITY PROFILE	3.2.9 Transportation	Created section.						
FROFILE	3.2.10 Infrastructure	Created section.						
	Introduction	Hazards reorganized per MEMA HMP guidelines						
	Summary of Changes	General update described						
	Hazard Identification	Updated						
	Vulnerability Assessment Overview	Updated						
	1- Flood Related Hazards	Updated						
	Flooding	new FIRM and FIS data, TEIF 2.0 analysis for 1 % and 0.2% flood hazard risk						
	Coastal Flooding	Updated with SLR information						
	Severe Storms (Flood-Related)	Updated						
	Flood Risk - Dam Failures	Updated based on Laurel and Prince George's County data						
	Flood Risk - Levee Failures	Updated						
	2 - Wind Related Hazards	Updated						
	Tornadoes	Updated						
	Severe Storms (Wind-Related)	Updated						
CECTION IV. HID A	High Winds	Updated						
SECTION IV. HIRA	Hurricanes/Tropical Storms (Wind-Related)	Updated						
	Winter Storms/Blizzards	Updated						
	3 - Fire Related Hazards	Updated						
	Wildfire	Updated						
	Drought	Updated						
	4 - Geologic Hazards	Updated						
	Earthquakes	Hazard added and assessed.						
	Land Movement	Data and text Updated.						
	Sinkholes	Hazard added and assessed.						
	5 - Extreme Temperature Hazards	Updated						
	Extreme Heat	Updated						
	Extreme Cold	Updated						
	Summary/Conclusions on Vulnerability Assessment	Revised to reflect new analytical analysis with Updated hazard data.						

Record of Changes

2017 Plan Section	Heading Section	Changes Made				
	5.1 Introduction	Explains update				
SECTION V.	5.2 Existing policies and authorities	Updated				
MULTIPLE HAZARD	5.3 Setting Mitigation Goals	2017 - 2022 goal update				
MITIGATION	5.4 Selecting policies and prioritizing	Process Update described				
STRATEGY	5.5 Developing Strategies	Process Update and new strategies category organization presented				
	5.6 Implementation of ongoing actions	Introduces Section 6.0				
SECTION VI. PLAN	6.1 County Government Structure	Capability analysis and program update				
IMPLEMENTATION	6.2 Summary of Existing Mitigation Activities	Summarizes recent HMA projects and other work				
AND MAINTENANCE	6.3 Plan Implementation and Maintenance	Update includes annual MAC meeting, reporting and continued outreach				
SECTION VII. ADDITIONAL STATE REQUIREMENTS	State Requirements	References two MEMA HMP guides				
	8.1 Community Profile	New section. Basic information taken from 2011 Plan.				
	8.1.1 Land Use and Development Trends	Updated to reflect land use as of the publication date of the Laurel's 2016 Master Plan.				
SECTION VIII, CITY	8.1.2 Population	Updated section to reflect current estimates from the 2015 TIGER Census data.				
OF LAUREL PLAN	8.1.3 Housing	Updated section to reflect current estimates from the 2015 TIGER Census data.				
OF LAUKEL PLAIN	8.1.4 Business and Labor	Created section and listed of major employers.				
	8.1.5 Transportation	Created section.				
	8.1.6 Infrastructure	Created section.				
SECTION IX. REFERENCES	List of References	Updated to include demographic sources and revised local general plans				

Appendix F: Sample Adoption Resolutions from	n the Prince George's	County and City o	f Laurel Hazard
Mitigation Plan			

Appendix F – Sample Adoption Resolutions

Resolutions of Adoption

COUNTY COUNCIL OF PRINCE GEORGE'S COUNTY, MARYLAND 2010 Legislative Session

Resolution No.	_
Proposed by	
Introduced by	
Co-Sponsors	
Date of Introduction	

RESOLUTION

A RESOLUTON concerning

Hazard Mitigation Plan

For the purpose of adopting the County-wide Hazard Mitigation Plan as required by the Federal Emergency Management Agency in order to be eligible for Federal assistance for any natural hazards.

WHEREAS, the Robert T. Stafford Disaster Relief and Emergency Assistance Act, at 42 U.S.C. § 5165, and 44 CFR Part 201.6 of the Federal Disaster Mitigation Act of 2000, require the County to adopt a mitigation plan in order to be eligible for grants to implement certain mitigation projects; and

WHEREAS Prince George's County has experienced past flooding and other natural hazard events that pose risks to public health and safety, may cause serious property damage, and a plan is needed to address the results of these events: and

WHEREAS the planning process fostered by the Maryland Emergency Management Agency and set forth by the Federal Emergency Management Agency offers the opportunity to consider natural hazards and risks, and to identify mitigation actions to reduce future impacts of such hazards; and

WHEREAS the State of Maryland has provided federal Hazard Mitigation Assistance program funds to support development of the mitigation plan; and

WHEREAS a Hazard Mitigation Plan (the "Plan") has been updated by the Mitigation Action Committee and staff from County departments and other entities; and

WHEREAS the Hazard Mitigation Plan recommends several mitigation actions that will help minimize and reduce safety threats and damage to private and public property; and

WHEREAS a public meeting was held on ______, 2017, to present the Plan and proposed mitigation actions and to solicit questions and comments.

NOW THEREFORE BE IT RESOLVED by the County Council of Prince George's County, Maryland, that the Hazard Mitigation Plan is hereby adopted as an official plan of Prince George's County.

BE IT FURTHER RESOLVED that the County offices identified in the Plan are hereby directed to pursue implementation of the recommended priority actions that are assigned to their agencies.

BE IT FURTHER RESOLVED that any action proposed in the Plan shall be

subject to and contingent upon budget approval, if funding is required, and this resolution may not be interpreted so as to mandate any such appropriations.

BE IT FURTHER RESOLVED that the Prince George's County Department of
Environmental Resources is designated to coordinate with other offices and entities and
shall periodically report on the activities, accomplishments, and progress, and shall
prepare a progress report as required by the Maryland Emergency Management Agency.
Adopted this day of, 2017.

[insert standard signature blocks

RESOLUTION NO.

A RESOLUTION TO ALLOW THE CITY OF LAUREL TO ADOPT THE HAZARD MITIGATION PLAN OF PRINCE GEORGE'S COUNTY AS THE CITY'S OFFICIAL PLAN.

Sponsored by the President at the request of the Administration.

WHEREAS the City of Laurel has experienced past flooding and other natural hazard events that pose risks to public health and safety and which may cause serious property damage;

WHEREAS the planning process fostered by the Maryland Emergency Management Agency and set forth by the Federal Emergency Management Agency offers the opportunity to consider natural hazards and risks, and to identify mitigation actions to reduce future impacts of such hazards;

WHEREAS the State of Maryland provided federal Hazard Mitigation Assistance program funds to Prince George's County to support development of a multi-jurisdictional mitigation plan;

WHEREAS a *Hazard Mitigation Plan* has been developed by the Mitigation Action Committee and staff from the City, County departments, and other entities;

WHEREAS the *Hazard Mitigation Plan* recommends several mitigation actions that will help minimize and reduce safety threats and damage to private and public property; and

WHEREAS a public meeting was held on _____, 2017, to solicit questions and comments and to present the plan and the proposed mitigation actions.

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Laurel that:

- 1. The *Hazard Mitigation Plan* is hereby adopted as an official plan of the City of Laurel.
- 2. The City offices identified in the Plan are hereby directed to pursue implementation of the recommended priority actions that are assigned to their agencies.
- 3. Any action proposed in the Plan shall be subject to and contingent upon budget approval, if funding is required, and this resolution shall not be interpreted so as to mandate any such appropriations.
- 4. The Deputy City Administrator is designated to coordinate with other City offices and Prince George's County and shall periodically report on the activities, accomplishments, and progress, and shall prepare a progress report as required by the Maryland Emergency Management Agency.

AND BE IT FURTHER	RESOLVED, that	this Resolution shall	take effect on its passage
PASSED this [insert standard signature	•	, 2017.	

Appendix G – REDACTED

Critical Facilities and Dams

A substantial master workbook of all critical facilities was used as the basis for this summary analysis. It is available upon request from FEMA.

Dam information has also been redacted.

Critical Facilities

Table 1. Critical Facilities by Type and Location

Facility Type	Prince George's County	City of Laurel	
Airport		3	
Amusement		6	
Energy		10	
Federal		27	
Fire/EMS	2	45	
Health		12	
Military	1	7	
Police Station	1	36	
Public Safety		2	
Religious	1	31	
School	10 376		
State	1		
Grand Total	15 556		

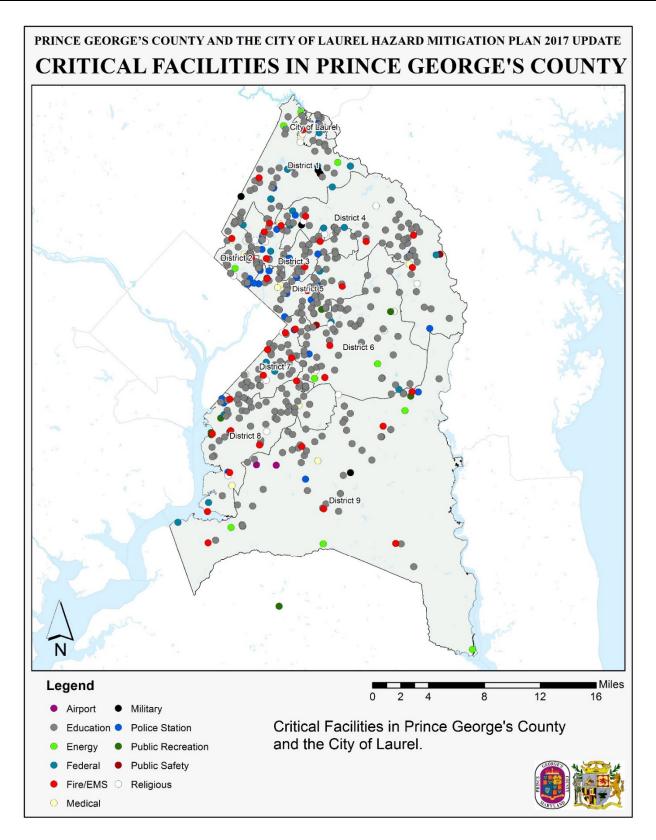


Figure 1. Critical Facility Locations

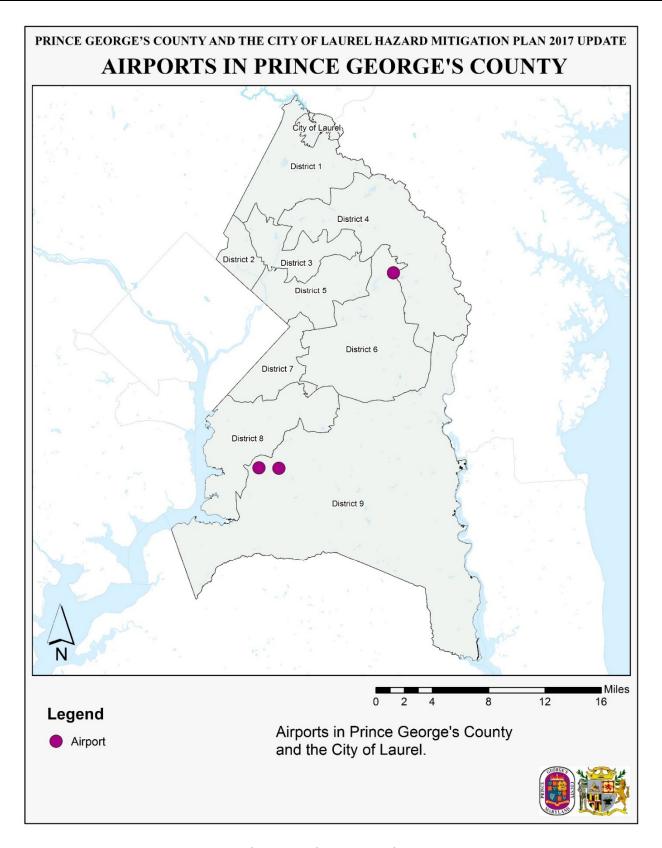


Figure 2. Airport Locations

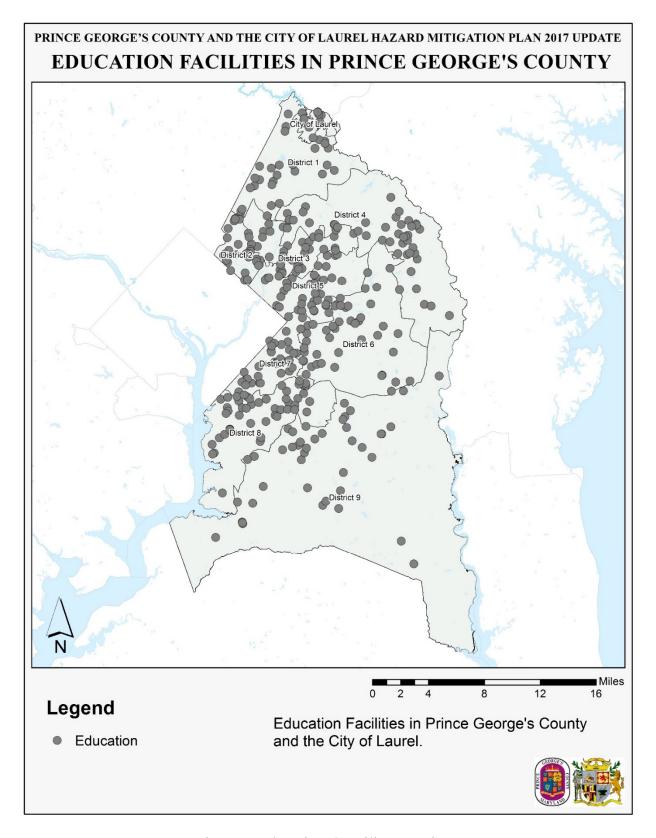


Figure 3. Educational Facility Locations

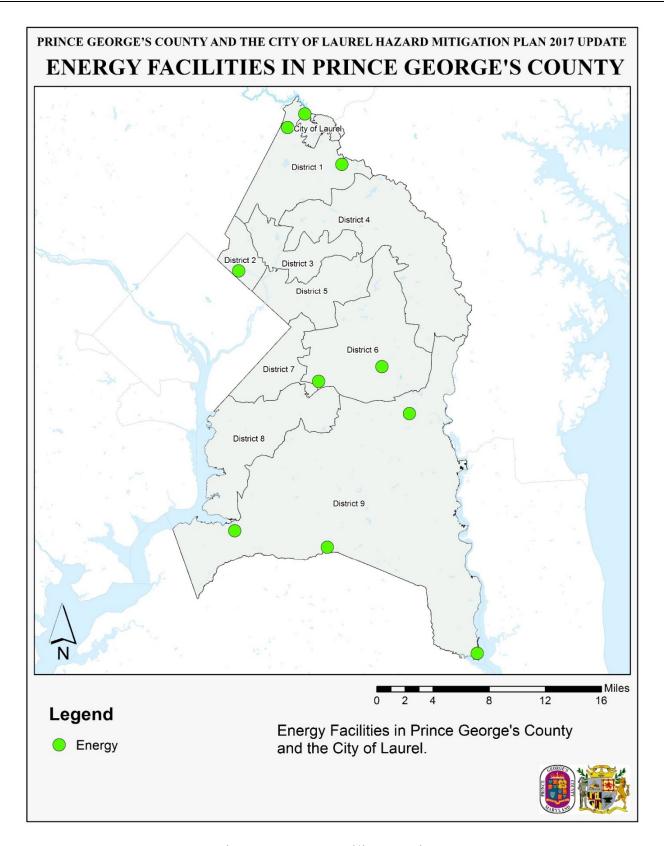


Figure 4. Energy Facility Locations

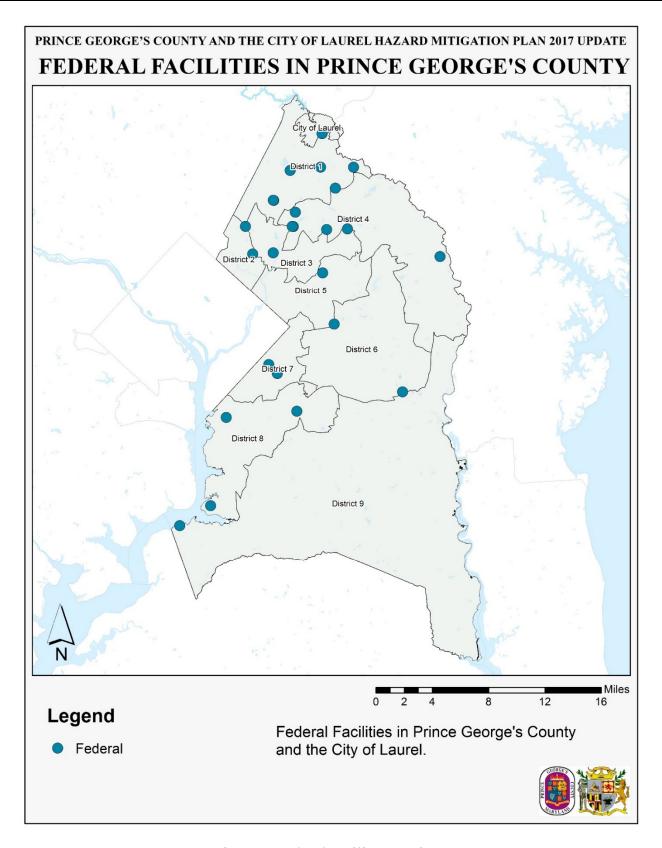


Figure 5. Federal Facility Locations

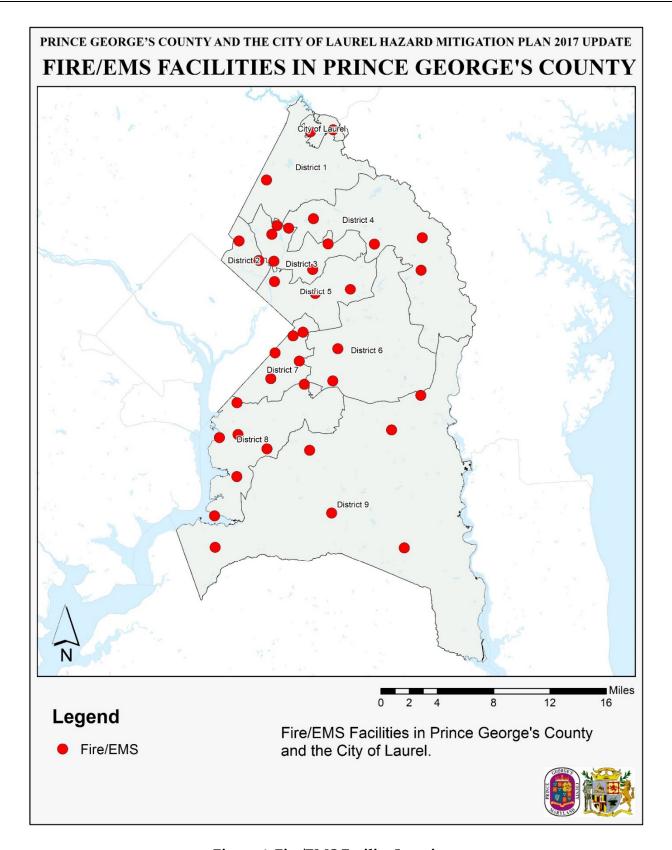


Figure 6. Fire/EMS Facility Locations

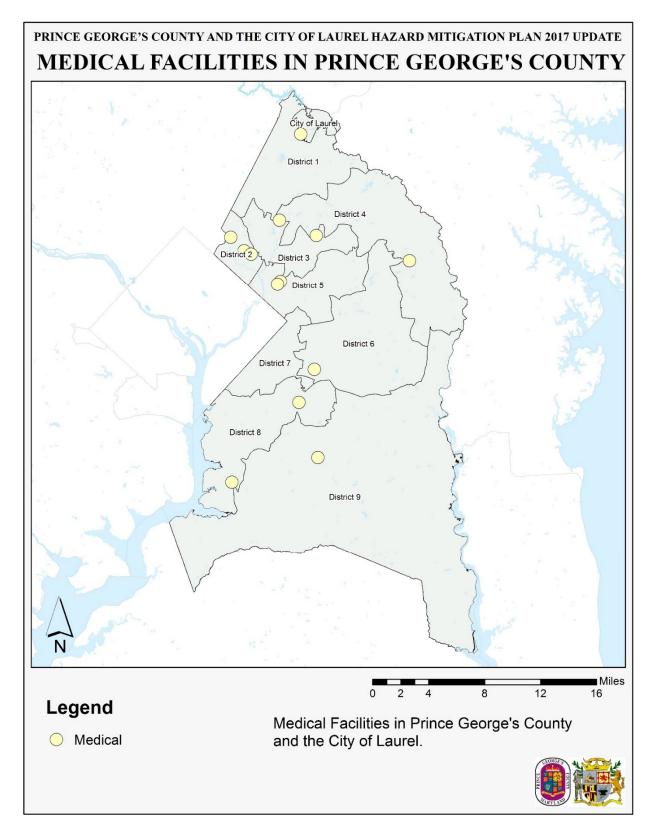


Figure 7. Medical Facility Locations

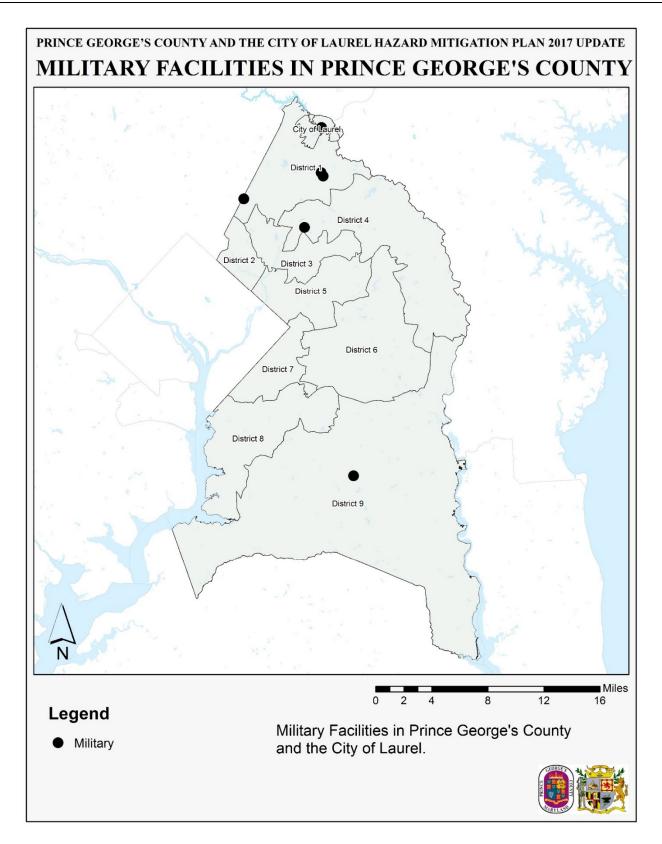


Figure 8. Medical Facility Locations

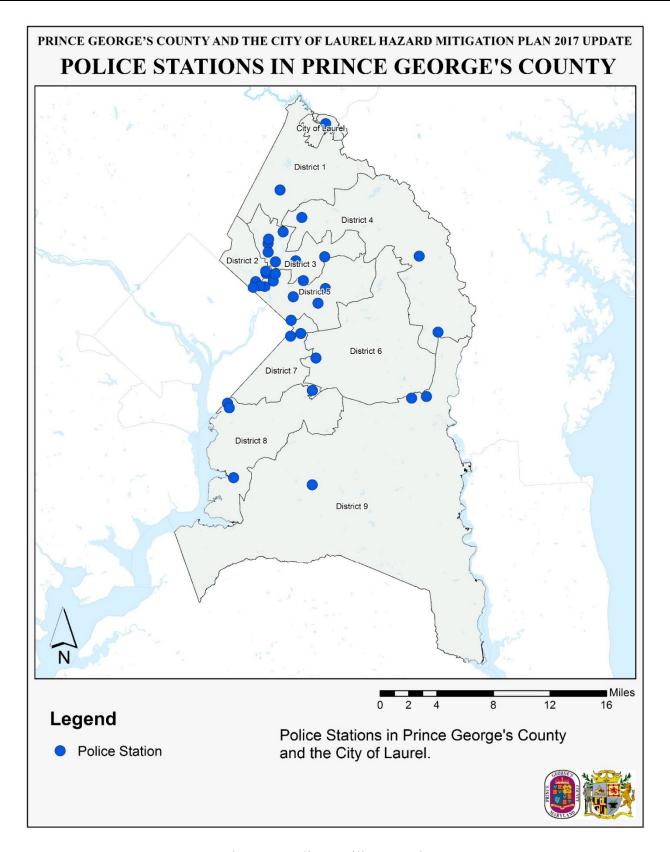


Figure 9. Police Facility Locations

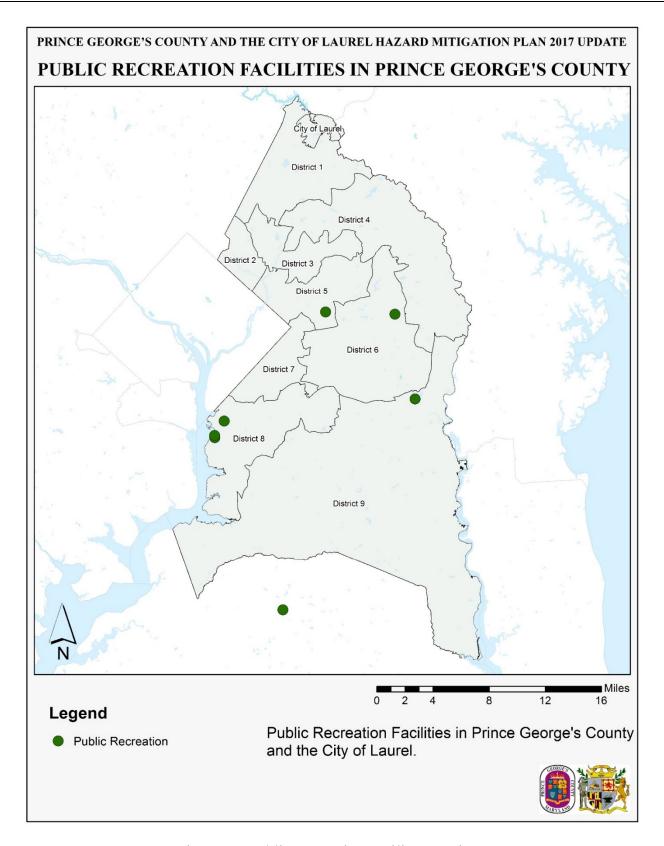


Figure 10. Public Recreation Facility Locations

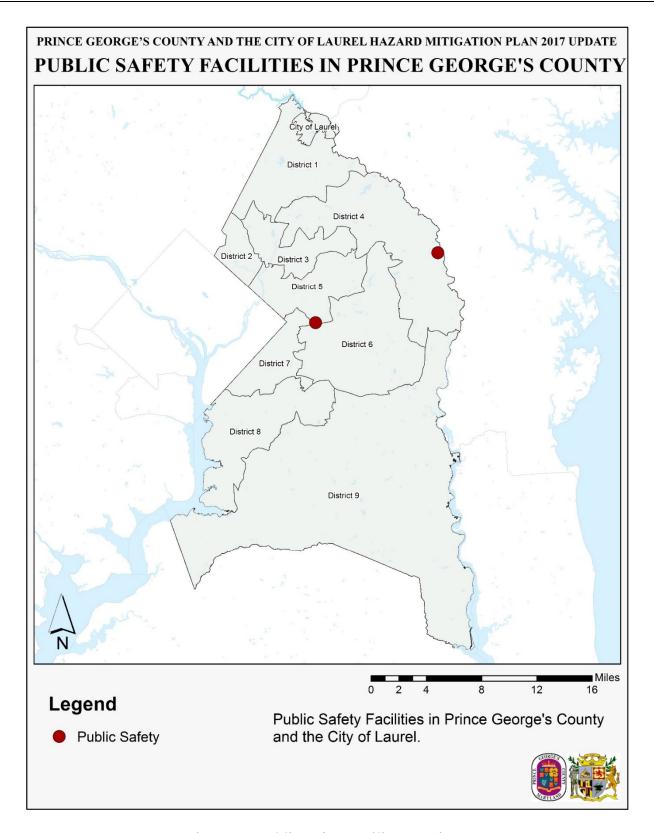


Figure 11. Public Safety Facility Locations

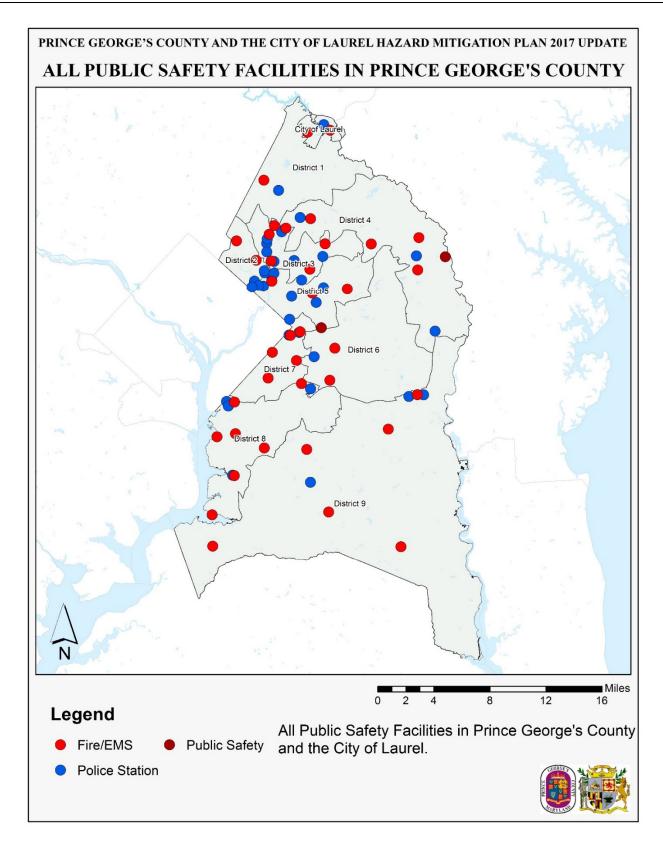


Figure 12. All Public Safety Facility Locations

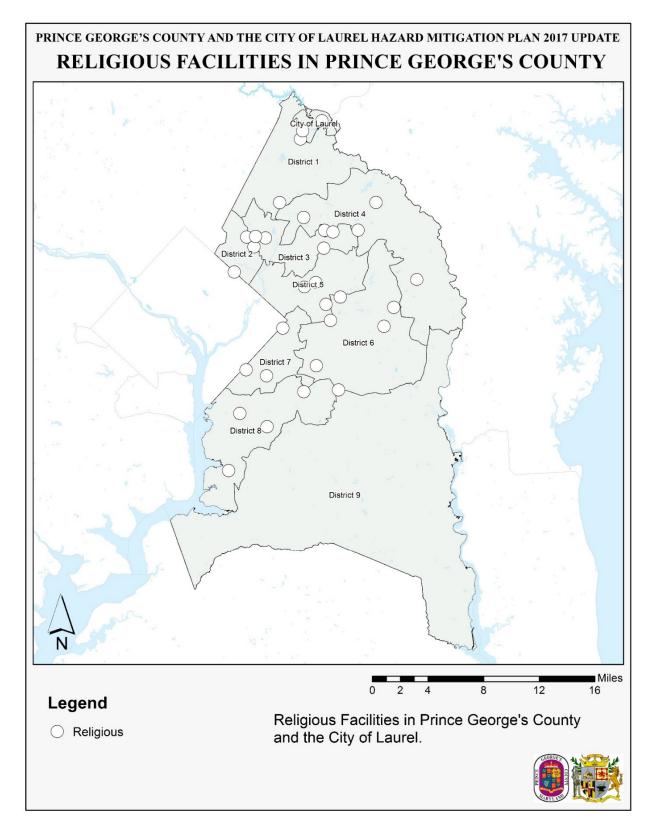


Figure 13. Religious Facility Locations

Dams

Table 2. Duckett Dam – Sunny Day Break Scenario (Lowest Risk)

Political Area	Buildings Affected	Total Exposure Value
City of Laurel	650	\$425,000,000
Council District 1	772	\$487,000,000
Council District 4	125	\$9,210,000
Total	1547	\$921,210,000

Table 3. Brighton and Duckett Dams – Flood Scenario (Highest Risk)

Political Area	Buildings Affected	Total Exposure Value	
City of Laurel	2736	\$1,040,000,000	
Council District 1	3036	\$1,170,000,000	
Council District 4	282	\$10,300,000	
Total	6054	\$2,220,300,000	

Table 4. Summary of Individual Dam Breach Area Exposure

Dam Breach Area	Political Area	Buildings Affected	Building Exposure
Heritage Glen Dam Inundation Zone	Council District 6	14	\$3,800,000
Indian Creek 2 & 3 Dam Inundation Zone	Council District 1	163	\$38,700,000
Lake Arbor Dam Inundation Zone	Council District 6	99	\$25,300,000
Largo Town Center Dam Inundation Zone	Council District 6	1	\$52,500,000
Laurel Lake Dam Inundation Zone 1	City of Laurel	40	\$44,400,000
Laurei Lake Dain inundation Zone i	Council District 1	41	\$44,500,000
Level Lebe Deve Invendation Zene 2	City of Laurel	35	\$62,900,000
Laurel Lake Dam Inundation Zone 2	Council District 1	39	\$79,700,000

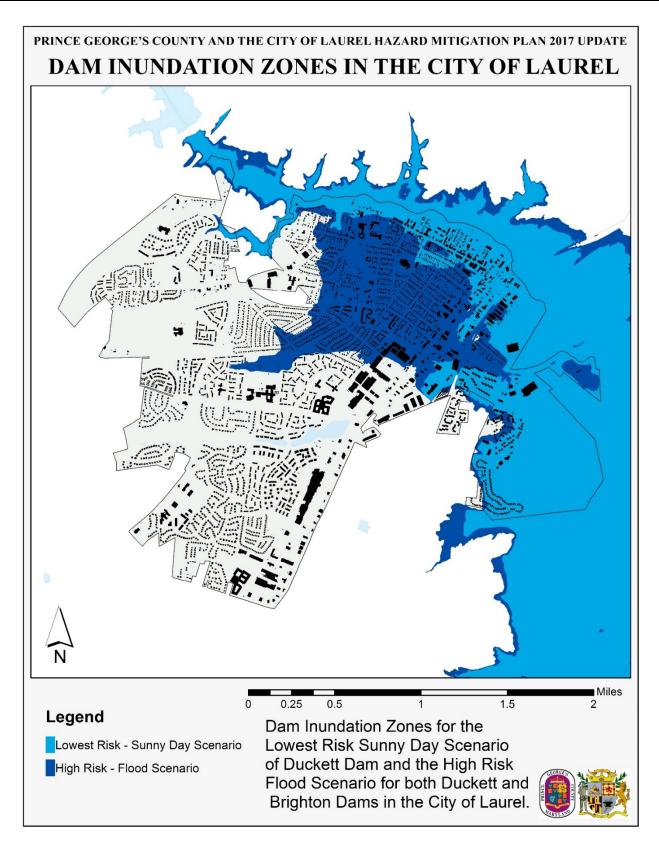


Figure 14. Dam Inundation Zones in City of Laurel

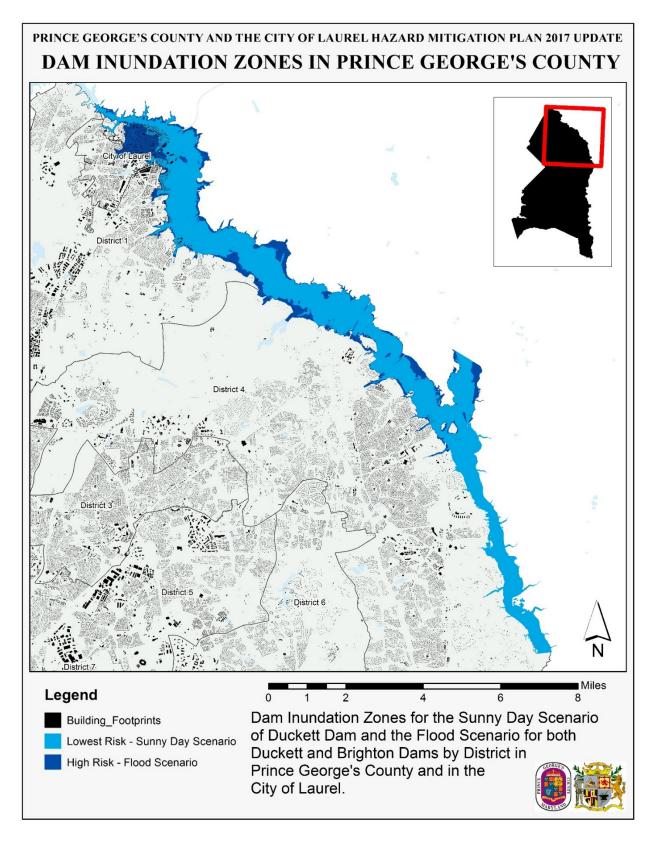


Figure 15. Dam Inundation Zones in Prince George's County

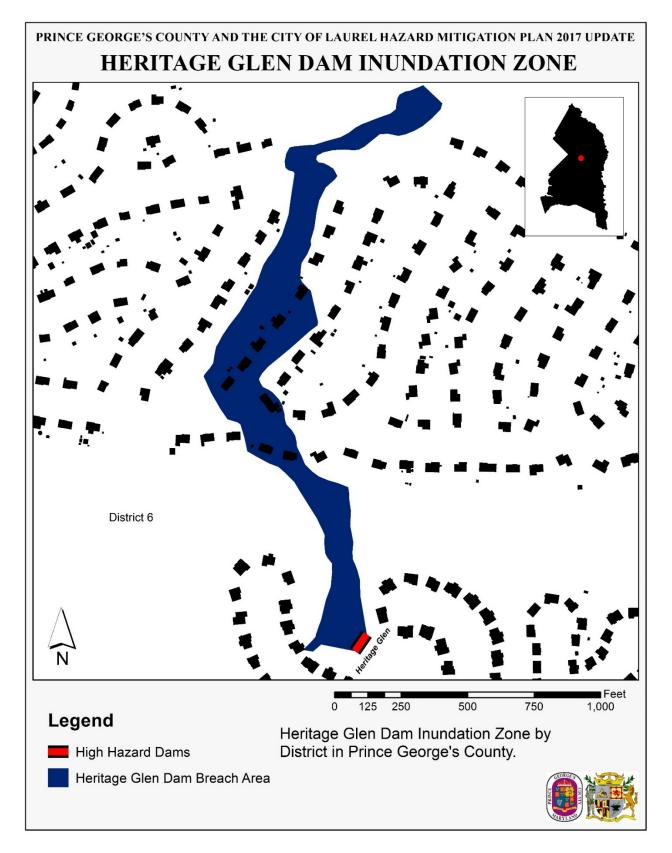


Figure 16. Heritage Glen Dam Inundation Zone

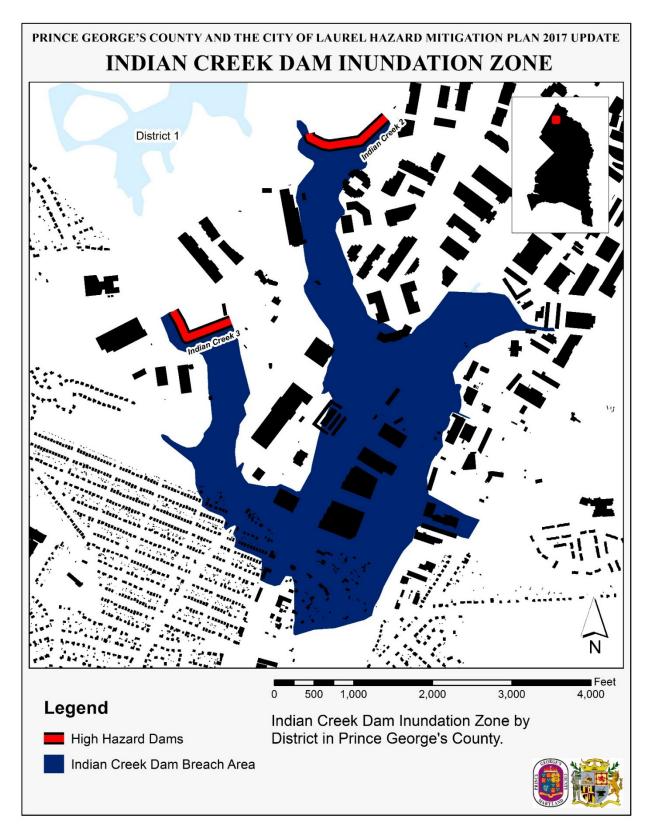


Figure 17. Indian Creek Dam Inundation Zone

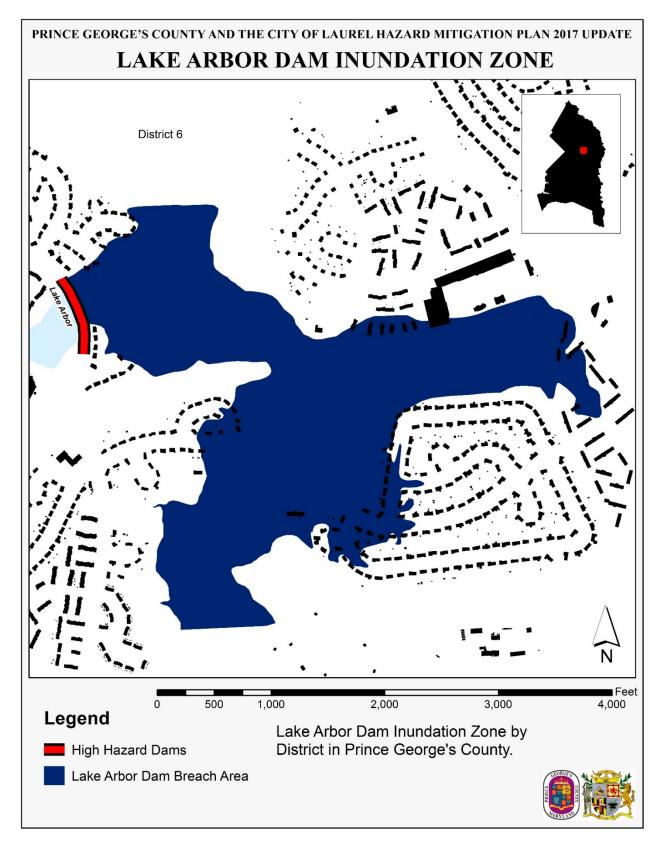


Figure 18. Lake Arbor Dam Inundation Zone

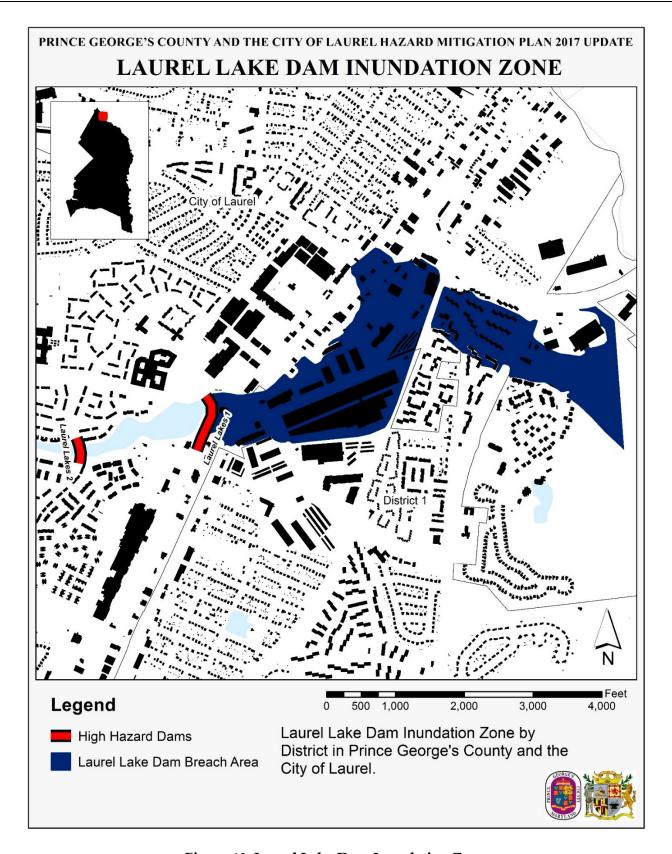


Figure 19. Laurel Lake Dam Inundation Zone

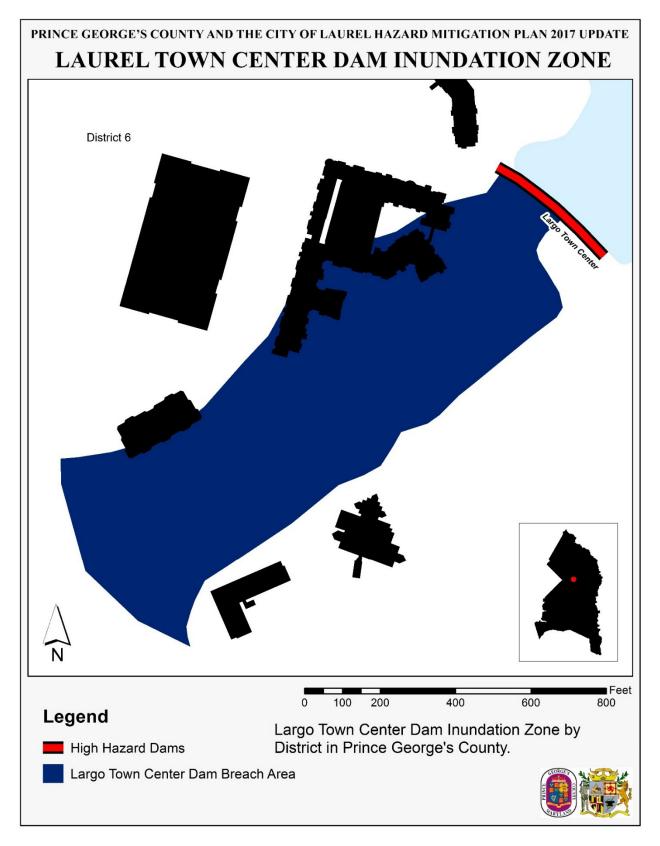


Figure 20. Largo Town Center Dam Inundation Zone

Appendix H List of Abbreviations

BFE Base Flood Elevation

CIP Capital Improvement Program
COOP Continuity of Operations
CRS Community Rating System

DFIRM Digital Flood Insurance Rate Map

DMA Disaster Mitigation Act
EAS Emergency Alert System
EF Scale Enhanced Fujita Scale
EMS Emergency Medical Services
EOC Emergency Operations Center

FEMA Federal Emergency Management Agency

FHBM Flood Hazard Boundary Maps
FIRM Flood Insurance Rate Map
GIS Geographic Information System

HAZUS-MH FEMA's loss estimating software for floods, earthquakes, and hurricane

winds

HIRA Hazard Identification and Risk Assessment

HMGP Hazard Mitigation Grant Program
MAC Mitigation Advisory Committee
NCDC National Climatic Data Center
NFHL National Flood Hazard Layer
NFIP National Flood Insurance Program

NLCD National Land Cover Data

NOAA National Oceanic Atmospheric and Atmospheric Administration

NWS National Weather Service PDC Planning District Commission

PRISM Parameter-elevation Regressions on Independent Slopes Model

Risk MAP Risk Mapping, Assessment, and Planning

RL repetitive loss

SFHA Special Flood Hazard Area SRL severe repetitive loss

STAPLE/E Social, Technical, Administrative, Political, Legal, Economic, and

Environmental

UASI Urban Areas Security Initiative USACE U.S. Army Corps of Engineers

USGS U.S. Geological Survey

VA DCR Virginia Department of Conservation and Recreation VDEM Virginia Department of Emergency Management

VDOF Virginia Department of Forestry

VDOT Virginia Department of Transportation