



## **Appendix 1: Meeting Documentation**

Complete information from each meeting is available on the project website at <http://nrvc.org/hazardmitigation/>. The following includes the agendas, sign in sheets, and meeting summaries.



6580 Valley Center Drive | Suite 124 | Radford, VA 24141 | 540-639-9313

**N R V R C . O R G**

## **NRV Hazard Mitigation Plan 2016 Update**

### **Steering Committee Kick-off Meeting**

September 1, 2016, 10:30 am - 12:00 pm

Training Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome
2. Highlights Since 2011 in the Region
  - a. Significant Natural Disasters
  - b. Mitigation Projects and Progress
3. Project overview and schedule for the 2016 Update
  - a. Committee Structure and Responsibilities
  - b. Timeline
  - c. Data update
  - d. Public Involvement and Communications
  - e. Goals and strategies
  - f. Working Groups
4. Wrap Up
  - a. Question and answer
  - b. Set next meeting date – monthly, first Thursdays, 10:30 am

#### **Counties**

Floyd | Giles  
Montgomery | Pulaski

#### **City**

Radford

#### **Towns**

Blacksburg | Christiansburg  
Floyd | Narrows | Pearisburg  
Pulaski | Rich Creek

#### **Universities**

Virginia Tech | Radford University

# NRV Hazard Mitigation Plan - 2016 Plan Update

September 1, 2016 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	Andrew Warren	Town of Christiansburg	awarren@christiansburg.org
2	Will Drake	Town of Christiansburg	wdrake@christiansburg.org
3	KAFI HOWARD	TOWN of Blacksburg	khoward@blacksburg.gov
4	KALI CASPER	TOWN OF BLACKSBURG	kcasper@blacksburg.gov
5	SARA MORGAN	TOWN of Christiansburg	smorgan@christiansburg.org
6	KEVIN BYRD	NRVRC	KBYRD@NRVRC.ORG
7	TOLL BRANSCONE	Radford University OEP	tollbranscone@radford.edu
8	Jay Eanes	City of Radford	Jay.Eanes@radfordva.gov
9	Todd Garwood	Town of Pulaski	tgarwood@pulaskitown.org
10	ELIJAH SHARP	NRVRC	esharp@nrvc.org
11	Emily Gibson	Montgomery County	gibsonej@montgomerycountypa.gov
12	WILLIE RICHARDSON	VDEM	willie.richardson@vdem.virginia.gov
13	Grad, D. Vilbiss	Radford Univ. Emerg Preparedness	jdevilbiss@radford.edu
14	Buddy KAST	TOWN OF NARROWS	BKAST@townofnarrows.org
15	Danny Wilson	Pulaski County	dWilson@pulaskiCounty.org
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## HAZARD MITIGATION STEERING COMMITTEE MEETING #1 NOTES

9/1/2016

**Attending:** <see list>

### Notes

1. Updates of Hazard Mitigation Projects
  - a. Christiansburg
    - i. Three stream restoration projects
  - b. Town of Pulaski
    - i. Tornado
    - ii. VDEM Comment: The recovery is a long process. Funds for recovery come through VA disaster relief fund. Before Federal funding, a locality must be prepared, then see what they can do themselves.
  - c. Blacksburg
    - i. July 2013 20-year storm flooded some areas, impacted a lot of people.
2. Project Overview
  - a. 5-year timeline, last adopted in 2012
  - b. If adopted by localities, eligible for Federal funding
  - c. Reviewed hazards
  - d. Reviewed rest of the presentation
3. Steering Committee
  - a. To meet monthly
  - b. To participate in the working groups
  - c. Must have at least on mitigation strategy for each locality
  - d. Will review draft plan
4. Data Update
  - a. Have 2/3 data, or access to it; need 1/3
  - b. Will contact each locality
5. Communication and Public Input
  - a. Will communicate through social media, website, and public involvement
  - b. Public involvement may include public comment through project website, postings on locality websites, and public meetings
  - c. There was a request to make 2011 plan more accessible on the NRVRC website
6. Goals and Strategies
  - a. Current plan has 10 goals
7. Working Groups
  - a. Need contacts
  - b. Participants will provide input
  - c. There was a request to invite floodplain administrators
  - d. There was a suggestion to align earthquake working group with the Great Shakeout (October 20<sup>th</sup>)
8. Next Meeting: October 6<sup>th</sup> at 10:30 AM
9. Comments

- a. VDEM
    - i. Talked about new regional planners for VDEM Region 4 and 6
    - ii. Hazard Mitigation Funding
      - 1. Need to identify in the plan in order to get funding
    - iii. Wind events, flood, and winter storms are hazards that have received a lot of focus
10. Reviewed website

Adjourned



## **NRV Hazard Mitigation Plan 2016 Update Working Group: High Winds (non-rotational) and Tornadoes**

October 6, 2016, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome..... Christy Straight  
*New River Valley Regional Commission*
2. High Winds (non-rotational)  
and Tornadoes..... William Perry  
*National Weather Service*
3. 2011 Pulaski Tornado.....Pete Huber  
*Pulaski County*  
  
Janet Jonas  
*Community Planning Partners*
4. Data Review..... Christy Straight  
*New River Valley Regional Commission*
5. Regional Mitigation Strategy  
Review ..... Christy Straight  
*New River Valley Regional Commission*
6. Wrap Up
  - a. Question and answer
  - b. Next meeting- November 3, 2016  
(Please check your calendars to see if we might be able to  
reschedule to November 10<sup>th</sup>)

Hazard Mitigation  
Winds Working Group  
October 6, 2016

Sign In Sheet

Name	Organization	Email
Grady DeVilbiss	Radford University	jdevilbiss@radford.edu
A.T. Braniscone	Radford University	atbranico@radford.edu
Will Perry	National Weather Service	william.perry@noaa.gov
WILLIE RICHARDSON	VDEM	WILLIAM.RICHARDSON@VDEM.VIRGINIA.GOV
Lydese Marti	Floyd Co	l.marti@floydva.gov
Robbie Kiser	Town of Pulaski	r.kiser@pulaski.town.va.gov
Patrick Wilson	National Weather Service	patrick.wilson@noaa.gov
Sara Harrington	VDEM	Sara.harrington@vdem.virginia.gov
Peck Shuber	Pulaski County	pkshuber@pulaski-county.va.gov
John Ross	Giles County	jross@gilescounty.org
Buddy Kost	Town of Narrows	BKAST@TownofNarrows.org
Melissa Skelton	City of Radford	Melissa.Skelton@radfordva.gov
Jay Enos	City of Radford	Jay.Enos@radfordva.gov
Jonathan T. Simmons	Vir. Dept. of Emerg. Mgmt.	jonathan.simmons@vdem.virginia.gov
Janet Jones	Community Planning Partners	jjones@cppartnersinc.com
Anamaria Bukvic	Virginia Tech	ana_bukvic@vt.edu
Emily Gibson	MONT CO	gibson.e@montgomerycountymd.gov
DAVID LINKOUS	New River Health Dist. (NRH)	David.Linkous@nrh.virginia.gov
KAM CASPER	TOB	Kcasper@blacksburg.gov

**HAZARD MITIGATION Working Group – Winds**  
**Meeting Notes**  
**October 6, 2016**

**Attending:** <see list>

**Notes**

1. Overview of project
  - a. 5-year timeline to update, last adopted in 2012
  - b. Once adopted by localities, eligible for federal mitigation funding
  - c. Reviewed schedule of future working groups – please send contact information to Christy Straight for any stakeholders and subject matter experts that should be invited to participate
2. Presentation by Will Perry of National Weather Service
  - a. Presented technical information on winds and their impacts in the region
  - b. Presentation included in this file
3. Presentation by Pete Huber, Pulaski County and Janet Jonas, Community Planning Partners
  - a. Spoke on the process for 2011 Pulaski area tornados' response and recovery
  - b. Presentation included in Parts 2 and 3 for the October 6 meeting on the website
4. Reviewed summary of data for tornados and non-rotational winds
5. Goals and Strategies
  - a. Reviewed 2011 goals, objectives and strategies
  - b. Group discussion for any changes and additions to the list
6. Next Meeting: November 10 at 10:30 AM, topic – winter hazards
7. Comments
  - a. National Weather Service is having an Open House on October 29, 10 am to 3 pm.
  - b. VDEM
    - i. Mentioned software for event response called Crisis Track that could be useful on a regional level. Pursuing funding to acquire.

Adjourned





## **NRV Hazard Mitigation Plan 2016 Update Working Group: Winter Hazards**

November 10, 2016, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome..... Christy Straight  
*New River Valley Regional Commission*
2. Climatology and Weather..... Phil Hysell  
*National Weather Service*
3. Data Review.....Zach Swick  
*New River Valley Regional Commission*
4. Regional Mitigation Strategy Review .....Michael Gottfredson  
*New River Valley Regional Commission*
5. Wrap Up
  - a. Question and answer
  - b. Next meeting- December 1, 2016 – Geologic Hazards

# NRV Hazard Mitigation Plan - 2016 Plan Update

November 10, 2016 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	Melissa Skelton	City of Radford	
2	Sara Harrington	VIDEWA Reg. 4	
3	Todd BRANDLUM	Radford OEP	
4	CALES TAYLOR	NRV REG WTR AUTH.	
5	PULL WYSELL	NWS Blacksburg	
6	Jim Hudgins	nws Blacksburg	
7	Gracie DeVilbiss	Radford University	
8	Jonathan T. Simmons	VDWM Region 6	
9	Kody Harmon	RADFORD FIRE DEPT.	
10	Kali Casper	Town of Blacksburg	
11	Andrew Warrell	Town of Christiansburg	
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NRV Hazard Mitigation Plan - 2016 Plan Update

November 10, 2016 - 10:30 am

Name

Organization/Representing

Email (if new)

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JOHN ROSS

GILES CO.

Dany Wilson

Pulaski County

Lydeane Martin

Floyd Co.

**HAZARD MITIGATION Working Group – Winter Weather  
Meeting Notes  
November 10, 2016**

**Attending:** <see list>

**Notes**

1. Welcome, Introductions and Recap
  - a. Reviewed schedule of future working groups – please send contact information to Christy Straight for any stakeholders and subject matter experts that should be invited to participate
2. Presentation by Phil Hysell of National Weather Service
  - a. Presentation included in Part 2 for the November 10 meeting on the website
3. Reviewed data for winter weather
  - a. Average annual number of days with snowfalls of 6-inches or more
  - b. Average annual number of days with highs of 32°F or less
  - c. Winter weather related accidents/crash density
  - d. Winter temperature trends
  - e. Consideration of precision in mapping this information with discussion of what would suit mitigation planning purposes
4. Goals and Strategies
  - a. Reviewed 2011 goals, objectives and strategies
  - b. Group discussion for any changes and additions to the list – changes to the 2011 list are included in this file after the presentation
5. Next Meeting: December 1 at 10:30 AM, topic – Geologic Hazards

Adjourned



## **NRV Hazard Mitigation Plan 2016 Update Working Group: Geologic Hazards**

December 1, 2016, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome ..... Christy Straight  
*New River Valley Regional Commission*
2. Data Review ..... Zach Swick  
*New River Valley Regional Commission*
3. Regional Mitigation Strategy Review ..... Christy Straight  
*New River Valley Regional Commission*
4. Wrap Up
  - a. Question and answer
  - b. Next meeting- January 5, 2016 – Human-caused, Wildfires, Drought

NRV Hazard Mitigation Plan - 2016 Plan Update

December 1, 2016 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	Will Dake	Town of Christiansburg	
2	Sara Morgan	Town of Christiansburg	
3	KALI CASPER	TOWN OF BLACKSBURG	
4	Kafi Howard	TOWN OF Blacksburg	
5	Blissa Skelton	City of Radford	
6	Jenn Whiteis	City of Radford	
7	David Linkovs	Virginia Dept of Health	
8	Sara Harrington	Va. Dept of Emergency Management	
9	WILLIE RICHARDSON	VIDEM	
10	Robbie Kiser	Town of Pulaski -	
11	MILCE WILSON	APPALACHIAN POWER CO.	
12	JOHN ROSS	GILES COUNTY	
13	Christy Struyt	NRVRC	
14	ZACHARY SWICK	NRVRC	
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**HAZARD MITIGATION Working Group – Geologic  
Meeting Notes  
December 1, 2016**

**Attending:** <see list>

**Notes**

1. Welcome, Introductions and Recap
  - a. Reviewed schedule of future working groups – please send contact information to Christy Straight for any stakeholders and subject matter experts that should be invited to participate – the next meeting will cover human-caused, drought and wildfire
  - b. Today’s specific hazards are landslides and rockslides, karst, and earthquakes
2. Reviewed data for geologic hazards
  - a. Updated Data - updated with more recent information
    - i. Geologic Units
    - ii. Karst Areas
  - b. New Data - included information that wasn’t in the previous plan or developed a different way to display previous data
    - i. Geologic Fault Lines
    - ii. Recent Earthquakes
    - iii. Rockfall Hazard per Mile
  - c. Old Data - the same from the 2011 plan because there is no more recent data, the dataset is unique and can’t be replicated, or the modeling just hasn’t yet been performed
    - i. Potential Earthquake Damage – The values are from the 2011 plan and adjusted for inflation
    - ii. Sinkholes
    - iii. Landslide Hazard
    - iv. Rockfall Hazard
  - d. In discussion during review of the data, participants commented on finding data about rockfall cleanups. One inquired if VDOT’s data on rockfall cleanups was available to localities; this would apply to state-maintained roads because localities have their own crews to clean up the roads they maintain. Another noted local 911 centers would have road block reports to track events.
2. Goals and Strategies
  - a. Reviewed 2011 goals, objectives and strategies
  - b. Group discussion for any changes and additions to the list – changes to the 2011 list are included in this file after the presentation
3. Next Meeting: January 5 at 10:30 AM, New River Room at the NRVBC, Fairlawn; topics – human-caused, drought and wildfire

Adjourned



## **NRV Hazard Mitigation Plan 2016/2017 Update Working Group: Human-caused, Wildfire, & Drought Hazards**

January 5, 2017, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome
2. Data Review
3. Regional Mitigation Hazards Discussion and Strategy Review
  - *Wildfire*
  - *Drought*
  - *Human-caused*
4. Wrap Up
  - a. Question and answer
  - b. Next meeting- February 2, 2017 – Flooding



# NRV Hazard Mitigation Plan - 2016/17 Plan Update

January 5, 2017 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	PHIL HYSELL	NWS BLACKSBURG	PHIL.HYSELL@NOAA.GOV
2	SARA MORGAN	TOWN OF CHRISTIANSBURG	
3	Sara Harrington	VDEM	
4	Justin Haga	VDEM	justin.haga@vdem.virginia.gov
5	KEVIN SOWERS	FLOYD EM	KSOWERS@floydcoVA.ORG
6	Robbie Kiser	Town of Pulaski	r.kiser@pulaskitown.org
7	Lydean Muth	Pulaski County	lmuth@flydcuva.org
8	Dany Wilson		
9	Jonathan Simms	VDEM RG	jonathan.simms@vdem.virginia.gov
10	WILLIE RICHARDSON	VDEM	
11	Kati Howard	Blacksburg	khoward@blacksburg.gov
12	Ken Lester	Town of Blacksburg	ken@blacksburg.gov
13	John Ross	Giles County	
14	Grade DeVilbiss	Radford University	jdevilbiss@radford.edu
15	Todd Branscome	'	tbransco@radford.edu
16	ELIJAH SHARP	NRVRC	esharp@nrvc.org
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**NRV Hazard Mitigation Plan 2016/2017 Update Working Group:  
Human-caused, Wildfire, & Drought Hazards**

Meeting Notes

January 5, 2017

**Attending:** <see list>

**Notes**

1. Welcome and Introductions
2. Data Review by Zach Swick
  - a. Wildfire, Drought, and Human-caused hazards in the New River Valley.
    - i. Several working group members asked questions regarding drought and its correlation to wildfire. It was indicated drought could be a component, but is not necessarily indicative of wildfire.
    - ii. The group asked Mr. Swick to confirm if the hazardous waste data was only waste and not also materials as this would make a difference in whether the map shows all potential hazardous materials areas in the NRV.
3. Regional Mitigation Hazards Discussion and Strategy Review
  - a. Wildfire Update
    - i. Christy Straight gave the group an update on progress and changes in the wildfire risk based on her conversation with Brad Wright at the Virginia DOF.
      1. Progress has been made in producing county-wide protection plans in Pulaski and Montgomery Counties. There are more Firewise communities in Pulaski, Floyd, and Montgomery Counties, which means a reduced fuel load in vulnerable areas.
      2. Since the 2011 plan there has only be one large fire (100+ acres), in Giles County in October/November 2016. Recent fires have threatened more structures than before, but – statewide – they are also generally less than 4 acres.
      3. Most risk factors are tree mortality, growth in the wildland-urban interface (Claytor Lake, Blue Ridge Parkway, etc.), and wind storms.
      4. Funding is available from state and federal sources for mitigation, county protection plans.
    - b. What we can do to help facilitate mitigation strategies?
      - i. The group agreed on a need to encourage coordination between localities and government agencies. They also agreed to review opportunities for coordination between emergency planners and locality planners. Other potential activity includes identifying localities' EOP commonalities, developing incident plans for repeating events, pursue funding for a pilot project that could address some or all of the activities listed here.
4. Wrap-up
  - a. Next meeting: February 2nd, 2017. The topic will be flooding. The group was invited to suggest others to invite to the next meeting and send contact information to Christy Straight (cstraight@nrvc.org).



## **NRV Hazard Mitigation Plan 2016/2017 Update Working Group: Flooding Hazard**

February 2, 2017, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome
2. Presentation: NRV Mapping of Vulnerable Roadways and Outreach Campaign by Elijah Sharp, NRVRC
3. Flooding Mitigation Resources
4. Data Review
5. Regional Mitigation Strategy Review
6. Wrap Up
  - a. Question and answer
  - b. Next steps – steering committee work, plan draft, public outreach
  - c. Next meeting – March 2, 2017 – Steering Committee

# NRV Hazard Mitigation Plan - 2016/17 Plan Update

February 2, 2017 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	Kristin Owen	VA DCR Floodplains	Kristin.owen@dcv.virginia.gov
2	Charley Banks	VA DCR Floodplains	charley.banks@dcv.virginia.gov
3	PHIL HYSSELL	NWS Blacksburg	PHIL.HYSSELL@NOAA.GOV
4	Peter Corrigan	NWS Blacksburg	peter.corrigan@NOAA.GOV
5	ELIJAH SHARP	NRVRC	
6	MIKE WILSON	APCO	MKWILSON@AEP.ORG
7	Robbie Kiser	Town of Pulaski	rkiser@pulaski-town.org
8	Jay Eric	City of Radford	
9	Jennifer White's	City of Radford	Jennifer.White's@radford.va.gov
10	Kati Howard	Town of Blacksburg	
11	Emily Gibson	Mont Co	
12	DAR JENKINS	MONTGOMERY CO	jenkinsds@montgomerycountyva.gov
13	Justin Haga	VDEM	<del>justin.haga@vdm.virginia.gov</del>
14	James Kast	Town of Narrows	JKast@townofnarrows.org
15	Sara Morgan	Town of Christiansburg	
16	Will Drake	Town of C'burg	
17	John Burke	CHRISTIANSBURG	jburke@christiansburg.org
18	Anamaria Bukvic	VT	ana.bukvic@vt.edu
19	John Ross	Giles Co.	jross@gilescounty.org
20	Jared Linkous	Pulaski County	jlinkous@pulaskicounty.org
21	Sosh Tolbert	Pulaski County	stolbert@pulaskicounty.org
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**NRV Hazard Mitigation Plan 2016/2017 Update Working Group:  
Flooding Hazards**

Meeting Notes

February 2<sup>t</sup>, 2017

**Attending:** <see list>

**Notes**

1. Welcome and Introductions
2. Presentation of NRV Mapping of Vulnerable Roadways and Outreach Campaign by Elijah Sharp
  - a. Mr. Sharp agreed to accept new photos of inundated or vulnerable areas for the mapping tool.
  - b. The NRVRC agreed to upload the mapping tool to the NRV Hazard Mitigation website. This is the link to the project page - <http://nrvrc.org/floodmaps/> . Clicking on the map next to Goal 1 will take you to the ARC GIS online mapping.
  - c. Mr. Sharp was asked about the VDOT standard designating an area for flooding. Mr. Sharp responded it was 10 years.
3. Data Review by Zach Swick
  - a. Flooding hazards in the New River Valley.
    - i. Mr. Swick was asked to provide a link to the TEIF information from the Virginia Department of Emergency Management.
4. Flooding Mitigation Resources
  - a. Ms. Straight included a few links for flooding resources. These included FEMA grants, High Water Mark Initiative, and a FEMA-commissioned report on flood mitigation benefits (see presentation for links).
5. Regional Mitigation Hazards Discussion and Strategy Review
  - a. Flooding update
    - i. The group was broken up into groups to address different objectives. After several minutes, the group gathered and discussed any suggested changes (see attached, updated mitigation strategies).
6. Wrap-up
  - a. This meeting concluded the working group meetings for the regional hazard mitigation plan.
  - b. Next meeting: Steering Committee, March 2, 2017.



## **NRV Hazard Mitigation Plan 2016/2017 Update Steering Committee**

March 2, 2017, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome
2. Review upcoming tasks
3. Evaluate and confirm regional goals
4. Identify regional projects
5. Hazard ranking exercise
6. Wrap Up
  - a. Question and answer
  - b. Next steps
  - c. Next meeting – April 6, 2017 – Steering Committee

# NRV Hazard Mitigation Plan - 2016/17 Plan Update

March 2, 2017 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	Michael Gottfredson	NRVRC	michaelg@nrvrc.org
2	Will Drake	Town of Christmanby	
3	John Ross	Giles County	jross@gilescounty.org
4	Sara Harrington	VDEM	
5	KALI CASPER	BLACKSBURG	
6	Buddy KAST	NARROWS	jkast@townofnarrows.org
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NRV Hazard Mitigation Plan - 2016/17 Plan Update

March 2, 2017 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	A.T. Brantome	RU OEP	
2	Dany Wilson	Pulaski County	
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## NRV Hazard Mitigation Plan 2016/2017 Update Steering Committee Meeting

Meeting Notes

March 2<sup>nd</sup>, 2017

**Attending:** <see list>

### Notes

1. Welcome
  - a. Christy Straight welcomed the group
  - b. Reviewed calendar items (see attachment)
  - c. Reviewed upcoming tasks
    - i. Public involvement
      1. Meetings
      2. Community events
      3. Website push
- VDEM requested to be at the public meetings
2. Goals Review
  - a. Michael Gottfredson reviewed goals and strategies with the Committee. The Committee accepted the goals and strategies as presented (see attachment).
3. Regional Project List
  - a. Mr. Gottfredson reviewed the 2011 regional project list with the Committee. The Committee made suggestions, recommendations, and alterations to the projects presented (see attachment).
4. Hazard Ranking Exercise
  - a. Ms. Straight presented the hazard ranking worksheet to the Committee. The Committee requested the NRV Regional Commission to send them the 2011 numbers associated with the rankings. In addition, the Committee asked for a summary of the hazards data from 2012 to present- specifically the frequency, intensity, and area affected for each of the hazards reviewed. The hazard ranking worksheet will be mailed out to steering committee members to be completed before the next meeting with this information.
5. Wrap Up
  - a. Ms. Straight thanked the Committee for meeting, and the meeting was adjourned.
  - b. Next Meeting: April 6<sup>th</sup>, 2017-Steering Committee



## **NRV Hazard Mitigation Plan 2016/2017 Update Steering Committee**

April 6, 2017, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome
2. Review and confirm final hazard and risk mapping
3. Hazard ranking review
4. Wrap Up
  - a. Question and answer
  - b. Next steps
  - c. Next meeting – May 4, 2017 – Steering Committee

# NRV Hazard Mitigation Plan - 2016/17 Plan Update

April 6, 2017 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	WILLIE RICHARDSON	VDEM	
2	Jonathan T. Simmons	VDEM RC	
3	Burdly KAST	NARROWS	
4	JOHN ROSS	GILES CO.	
5	KAEI Howard	Town of Blacksburg	
6	Fanny Wilkin	Putaski County	
7	Will Duke	Town of Christiansburg	
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## NRV Hazard Mitigation Plan 2017 Update

### Relative Hazard Ratings

Hazard	Frequency	Intensity	Area Affected	Relative Risk
	1- Unlikely 2- Seldom 3- Occasional 4- Likely 5- Frequent	1- Negligible 2- Moderate 3- Severe 4- Catastrophic	1- Isolated 2- Local Community 3- Several Communities 4- Region-wide	(Intensity + Area) * Frequency
Drought	3.1	2.1	3.7	18.4
Geologic				
Landslide	2.4	1.9	1.6	8.5
Rockfall	2.6	1.6	1.0	6.6
Karst	2.9	1.6	1.9	9.8
Earthquake	1.1	2.6	3.4	6.9
Severe Weather				
Tornado	1.7	2.6	1.9	7.6
Freezing Temperatures	4.3	2.2	3.9	26.0
High Winds	4.1	2.6	3.4	25.2
Ice Storms	2.7	2.4	3.7	16.7
Snowfall	3.4	2.0	3.9	19.7
Wildfire	3.1	2.2	2.1	13.7
Flooding	4.3	2.5	3.1	24.2
Human-Caused	3.6	2.4	2.7	18.7

Comments:

Averaged scoring from 7 responses

#### Relative Hazard Rankings

Hazard	2011	2017
Freezing Temperatures	30	26
High Winds	22	25.2
Flooding	22	24.2
Snowfall	18	19.7
Human-caused	16	18.7
Drought	19.5	18.4
Ice Storms	14	16.7
Wildfire	1	13.7
Karst	4	9.8
Landslide	10.5	8.5
Tornado	3	7.6
Earthquake	7	6.9
Rockfall	6	6.6

#### Risk Levels

High
Medium
Low



## **NRV Hazard Mitigation Plan 2016/2017 Update Steering Committee**

May 4, 2017, 10:30 am - 12:00 pm

New River Room, New River Valley Business Center  
Fairlawn, VA

### **Agenda**

1. Welcome ..... Christy Straight
2. Presentation on the High Water Mark Campaign .....  
Michelle L. Hamor, Chief, Flood Plain Management Services Section, Norfolk  
District, US Army Corps of Engineers
3. Draft plan: highlights of local review process..... Christy Straight
4. Wrap Up ..... Christy Straight
  - a. Next steps
  - b. Next meeting – Steering Committee

# NRV Hazard Mitigation Plan - 2016/17 Plan Update

May 4, 2017 - 10:30 am

	Name	Organization/Representing	Email (if new)
1	A.T. DRAWSUN, e	RUOEP	atdrawnsco @ radford.edu
2	Grad DeVilbiss	RU	jdevilbiss@radford.edu
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6	Jonathan Simmons	VDEM Reg. 6	jonathan.simmons@vdem.virginia.gov
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