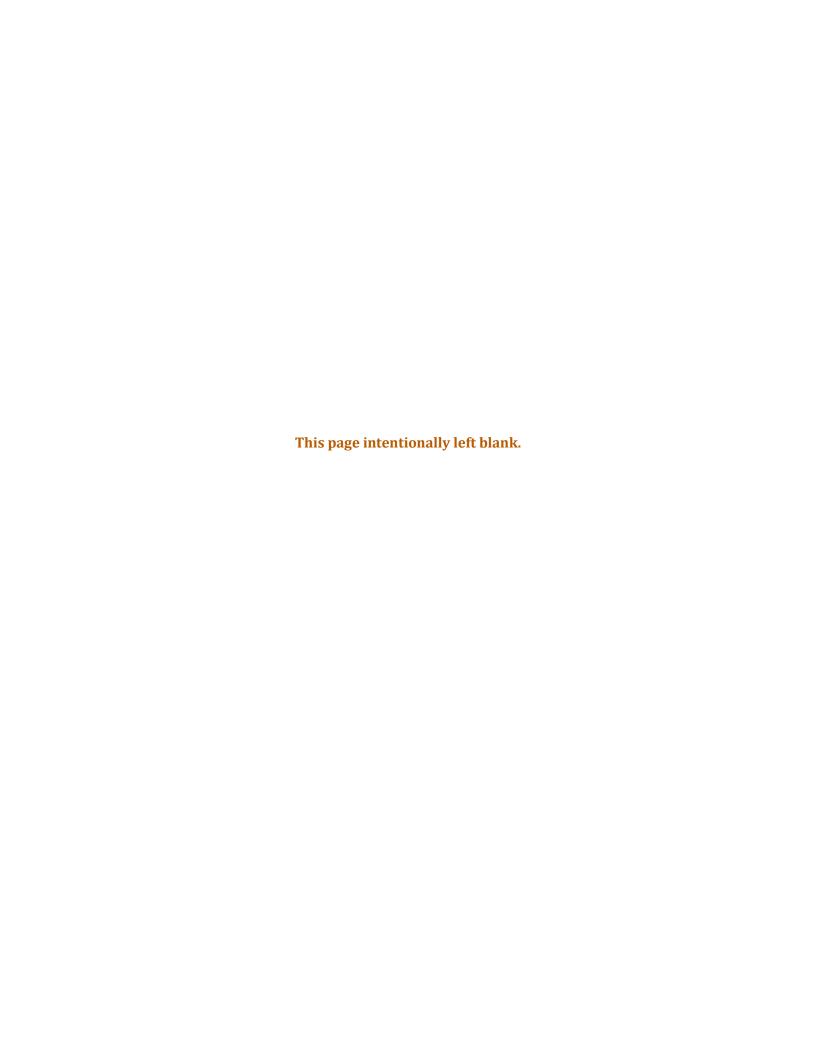
Appendix A: Plan Adoption

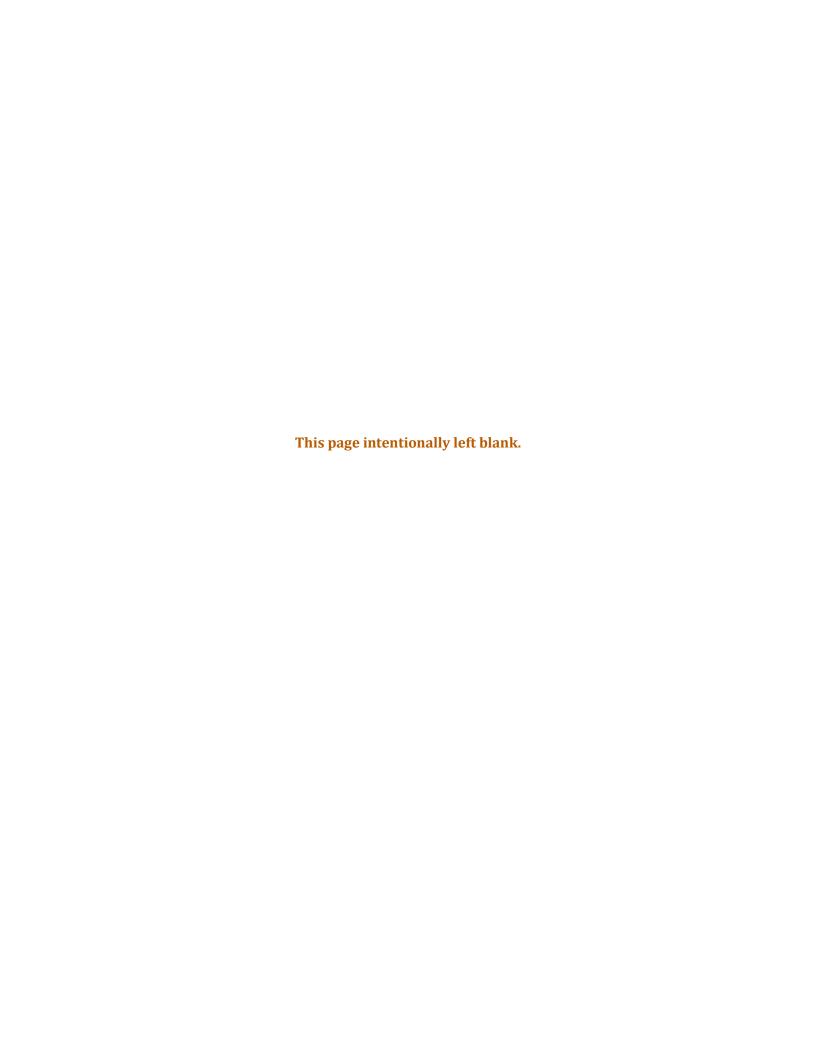
This appendix to the Eno-Haw Regional Hazard Mitigation Plan includes copies of the local resolutions passed by each participating jurisdiction requesting approval of the Plan. The jurisdictions are listed below in the order that the plan adoption resolutions are included in this appendix.

- Alamance County
- Village of Alamance
- City of Burlington
- Town of Elon
- City of Graham
- Town of Green Level
- Town of Haw River
- City of Mebane
- Town of Ossipee
- Town of Swepsonville
- Orange County
- Town of Carrboro
- Town of Chapel Hill
- Town of Hillsborough
- Durham County
- City of Durham



Appendix B: Local Mitigation Plan Review Tool

This appendix to the Eno-Haw Regional Hazard Mitigation Plan contains a copy of a completed *Local Mitigation Plan Review Tool*. This checklist provides page numbers indicating where in the Plan each element required by FEMA is met. This serves as a final internal review to confirm that the Plan meets Federal requirements.



LOCAL MITIGATION PLAN REVIEW TOOL

Jurisdictions: Alamance, Orange, Title of Plan: Eno-Haw Regional

The Local Mitigation Plan Review Tool demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The <u>Regulation Checklist</u> provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The <u>Plan Assessment</u> identifies the plan's strengths as well as documents areas for future improvement.
- The Multi-jurisdiction Summary Sheet is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Date of Plan: April 2015

and Durham Counties and incorporated municipalities	Hazard Mitigation	on Plan	·
Local Point of Contact: Kirby Saund	ders	Address: 510 Mea PO Box 8181	dowlands Drive
Title: Orange County Emergency M Coordinator	lanagement	Hillsborough, NC 2	27278
Agency: Orange County Emergency	y Services		
Phone Number: (919) 245-6135		E-Mail: <u>ksaunders</u>	@orangecountync.gov
	_		
State Reviewer:	Title:		Date:
FEMA Reviewer:	Title:		Date:
Date Received in FEMA Region (inse	ert #)		
Plan Not Approved		·	•
Plan Approvable Pending Adoption	1		
Plan Approved			

SECTION 1: REGULATION CHECKLIST

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the Plan by Element/sub-element and to determine if each requirement has been 'Met' or 'Not Met.' The 'Required Revisions' summary at the bottom of each Element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is 'Not Met.' Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in this *Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST	Location in Plan (section and/or		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	page number)	Met	Met
ELEMENT A. PLANNING PROCESS			
A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1))	Section 2: Planning Process		
A2. Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))	Section 2 throughout and specifically Sections 2.6 and 2.7.		
A3. Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))	Section 2.6		
A4. Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))	Sections 2.2 and 2.3		
A5. Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))	Section 8.3		
A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))	Section 8: Plan Maintenance Procedures		
ELEMENT A: REQUIRED REVISIONS			

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	Not Met
ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSESSM	ENT		
B1. Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement §201.6(c)(2)(i))	Section 4: Risk Assessment, specifically Section 4.5		
B2. Does the Plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))	Section 4.5		
B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))	Sections 4.5 and 4.6		
B4. Does the Plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))	Section 4.5		
ELEMENT B: REQUIRED REVISIONS			
ELEMENT C. MITIGATION STRATEGY			
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	Section 5: Capability Assessment		
C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))	Section 5, specifically Sections 5.3.1 and 5.3.1.3		
C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))	Section 6: Mitigation Strategy		
C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))	Section 7: Mitigation Action Plans		
	Section 7: Mitigation		
C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? (Requirement	Action Plans		
C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review),	Action Plans Section 8.1		

1. REGULATION CHECKLIST	Location in Plan		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	(section and/or page number)	Met	Met
ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLEMEN		nlan und	lates
only)	(applicable to	pian ap	autes
D1. Was the plan revised to reflect changes in development?	Section 4: Risk		
(Requirement §201.6(d)(3))	Assessment (as		
	described in Section		
	4, specifically in		
	Section 4.2, the		
	latest GIS data		
	available was used		
	to determine		
	vulnerabilities to		
	existing		
	development		
	beyond what was		
	addressed in		
	previous plan		
	updates)		
D2. Was the plan revised to reflect progress in local mitigation	Section 7 (the		
efforts? (Requirement §201.6(d)(3))	Mitigation Action		
	Plan for each		
	jurisdiction includes		
	an update on		
	previously adopted		
D2 M/s the plan we ised to reflect the page in priorities?	actions)		
D3. Was the plan revised to reflect changes in priorities?	Section 7 (the		
(Requirement §201.6(d)(3))	Mitigation Action Plan for each		
	jurisdiction includes		
	an update on		
	previously adopted		
	actions, including		
	changes in priorities)		
ELEMENT D: REQUIRED REVISIONS	ananger in processory		
ELEMENT D. REQUIRED REVISIONS			
ELEMENT E. PLAN ADOPTION			
E1. Does the Plan include documentation that the plan has been	This will be included		
formally adopted by the governing body of the jurisdiction requesting	in Appendix A		
approval? (Requirement §201.6(c)(5))	''		
E2. For multi-jurisdictional plans, has each jurisdiction requesting	This will be included		
approval of the plan documented formal plan adoption?	in Appendix A		
(Requirement §201.6(c)(5))			
ELEMENT E: REQUIRED REVISIONS			

1. REGULATION CHECKLIST	Location in Plan (section and/or		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	page number)	Met	Met
ELEMENT F. ADDITIONAL STATE REQUIREMENTS (OPTIONAL NOT TO BE COMPLETED BY FEMA)	AL FOR STATE REVIE	WERS	ONLY;
F1.			
F2.			
ELEMENT F: REQUIRED REVISIONS			

SECTION 2: PLAN ASSESSMENT

INSTRUCTIONS: The purpose of the Plan Assessment is to offer the local community more comprehensive feedback to the community on the quality and utility of the plan in a narrative format. The audience for the Plan Assessment is not only the plan developer/local community planner, but also elected officials, local departments and agencies, and others involved in implementing the Local Mitigation Plan. The Plan Assessment must be completed by FEMA. The Assessment is an opportunity for FEMA to provide feedback and information to the community on: 1) suggested improvements to the Plan; 2) specific sections in the Plan where the community has gone above and beyond minimum requirements; 3) recommendations for plan implementation; and 4) ongoing partnership(s) and information on other FEMA programs, specifically RiskMAP and Hazard Mitigation Assistance programs. The Plan Assessment is divided into two sections:

- 1. Plan Strengths and Opportunities for Improvement
- 2. Resources for Implementing Your Approved Plan

Plan Strengths and Opportunities for Improvement is organized according to the plan Elements listed in the Regulation Checklist. Each Element includes a series of italicized bulleted items that are suggested topics for consideration while evaluating plans, but it is not intended to be a comprehensive list. FEMA Mitigation Planners are not required to answer each bullet item, and should use them as a guide to paraphrase their own written assessment (2-3 sentences) of each Element.

The Plan Assessment must not reiterate the required revisions from the Regulation Checklist or be regulatory in nature, and should be open-ended and to provide the community with suggestions for improvements or recommended revisions. The recommended revisions are suggestions for improvement and are not required to be made for the Plan to meet Federal regulatory requirements. The italicized text should be deleted once FEMA has added comments regarding strengths of the plan and potential improvements for future plan revisions. It is recommended that the Plan Assessment be a short synopsis of the overall strengths and weaknesses of the Plan (no longer than two pages), rather than a complete recap section by section.

Resources for Implementing Your Approved Plan provides a place for FEMA to offer information, data sources and general suggestions on the overall plan implementation and maintenance process. Information on other possible sources of assistance including, but not limited to, existing publications, grant funding or training opportunities, can be provided. States may add state and local resources, if available.

A. Plan Strengths and Opportunities for Improvement

This section provides a discussion of the strengths of the plan document and identifies areas where these could be improved beyond minimum requirements.

Element A: Planning Process

How does the Plan go above and beyond minimum requirements to document the planning process with respect to:

- Involvement of stakeholders (elected officials/decision makers, plan implementers, business owners, academic institutions, utility companies, water/sanitation districts, etc.);
- Involvement of Planning, Emergency Management, Public Works Departments or other planning agencies (i.e., regional planning councils);
- Diverse methods of participation (meetings, surveys, online, etc.); and
- Reflective of an open and inclusive public involvement process.

Element B: Hazard Identification and Risk Assessment

In addition to the requirements listed in the Regulation Checklist, 44 CFR 201.6 Local Mitigation Plans identifies additional elements that should be included as part of a plan's risk assessment. The plan should describe vulnerability in terms of:

- 1) A general description of land uses and future development trends within the community so that mitigation options can be considered in future land use decisions;
- 2) The types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas; and
- 3) A description of potential dollar losses to vulnerable structures, and a description of the methodology used to prepare the estimate.

How does the Plan go above and beyond minimum requirements to document the Hazard Identification and Risk Assessment with respect to:

- Use of best available data (flood maps, HAZUS, flood studies) to describe significant hazards;
- Communication of risk on people, property, and infrastructure to the public (through tables, charts, maps, photos, etc.);
- Incorporation of techniques and methodologies to estimate dollar losses to vulnerable structures;
- Incorporation of Risk MAP products (i.e., depth grids, Flood Risk Report, Changes Since Last FIRM, Areas of Mitigation Interest, etc.); and
- Identification of any data gaps that can be filled as new data became available.

Element C: Mitigation Strategy

How does the Plan go above and beyond minimum requirements to document the Mitigation Strategy with respect to:

- Key problems identified in, and linkages to, the vulnerability assessment;
- Serving as a blueprint for reducing potential losses identified in the Hazard Identification and Risk Assessment;
- Plan content flow from the risk assessment (problem identification) to goal setting to mitigation action development;
- An understanding of mitigation principles (diversity of actions that include structural projects, preventative measures, outreach activities, property protection measures, postdisaster actions, etc);
- Specific mitigation actions for each participating jurisdictions that reflects their unique risks and capabilities;
- Integration of mitigation actions with existing local authorities, policies, programs, and resources; and
- Discussion of existing programs (including the NFIP), plans, and policies that could be used to implement mitigation, as well as document past projects.

Element D: Plan Update, Evaluation, and Implementation (Plan Updates Only)

How does the Plan go above and beyond minimum requirements to document the 5-year Evaluation and Implementation measures with respect to:

- Status of previously recommended mitigation actions;
- Identification of barriers or obstacles to successful implementation or completion of mitigation actions, along with possible solutions for overcoming risk;
- Documentation of annual reviews and committee involvement;
- Identification of a lead person to take ownership of, and champion the Plan;
- Reducing risks from natural hazards and serving as a guide for decisions makers as they commit resources to reducing the effects of natural hazards;
- An approach to evaluating future conditions (i.e. socio-economic, environmental, demographic, change in built environment etc.);
- Discussion of how changing conditions and opportunities could impact community resilience in the long term; and
- Discussion of how the mitigation goals and actions support the long-term community vision for increased resilience.

B. Resources for Implementing Your Approved Plan

Ideas may be offered on moving the mitigation plan forward and continuing the relationship with key mitigation stakeholders such as the following:

- What FEMA assistance (funding) programs are available (for example, Hazard Mitigation Assistance (HMA)) to the jurisdiction(s) to assist with implementing the mitigation actions?
- What other Federal programs (National Flood Insurance Program (NFIP), Community Rating System (CRS), Risk MAP, etc.) may provide assistance for mitigation activities?
- What publications, technical guidance or other resources are available to the jurisdiction(s) relevant to the identified mitigation actions?
- Are there upcoming trainings/workshops (Benefit-Cost Analysis (BCA), HMA, etc.) to assist the jurisdictions(s)?
- What mitigation actions can be funded by other Federal agencies (for example, U.S.
 Forest Service, National Oceanic and Atmospheric Administration (NOAA),
 Environmental Protection Agency (EPA) Smart Growth, Housing and Urban Development
 (HUD) Sustainable Communities, etc.) and/or state and local agencies?

SECTION 3:

MULTI-JURISDICTION SUMMARY SHEET (OPTIONAL)

INSTRUCTIONS: For multi-jurisdictional plans, a Multi-jurisdiction Summary Spreadsheet may be completed by listing each participating jurisdiction, which required Elements for each jurisdiction were 'Met' or 'Not Met,' and when the adoption resolutions were received. This Summary Sheet does not imply that a mini-plan be developed for each jurisdiction; it should be used as an optional worksheet to ensure that each jurisdiction participating in the Plan has been documented and has met the requirements for those Elements (A through E).

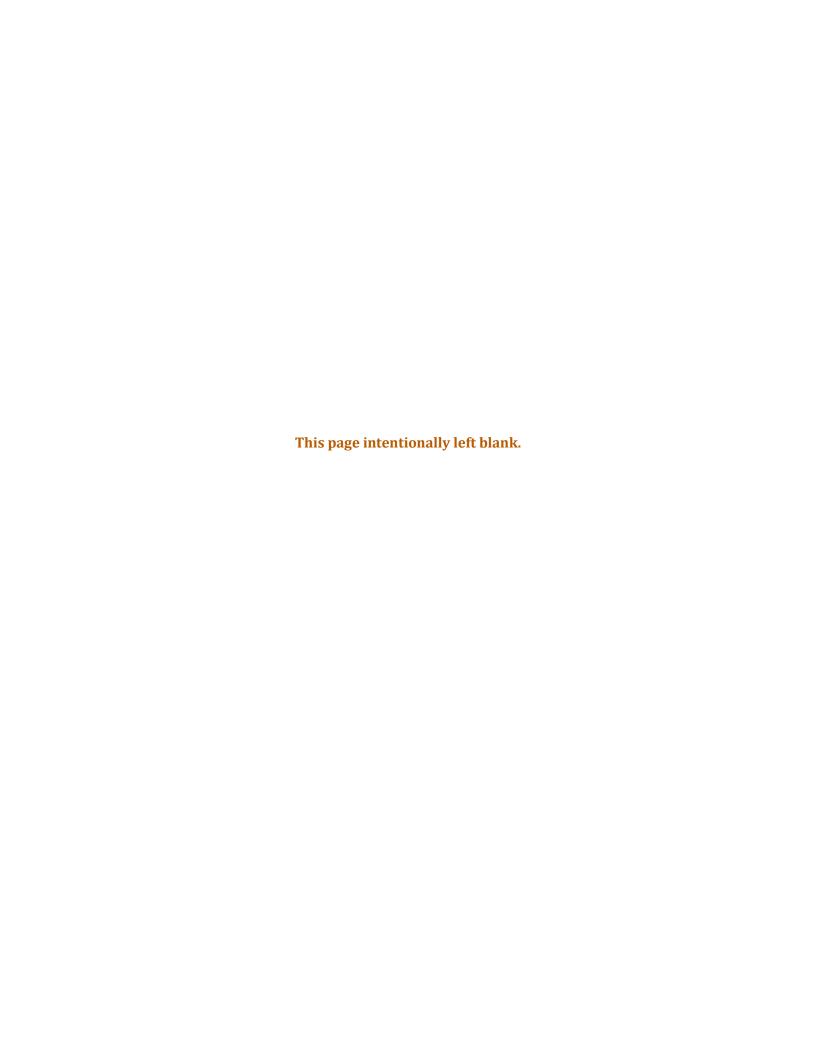
	MULTI-JURISDICTION SUMMARY SHEET											
		Jurisdiction					Requirements Met (Y/N)					
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
1	Alamance	County	Alva Sizemore		alva.si zemor e@ala mance - nc.co m	336-227- 1365						
2	Alamance	Village	Ben York		village alama nce@ bellso uth.ne t	336-226- 0033						
3	Burlington	City	Roger Manuel		rmanu el@ci. burlin gton.n c.us	336-516- 4674						

	MULTI-JURISDICTION SUMMARY SHEET											
		Jurisdiction					Requirements Met (Y/N)					
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
4	Elon	Town	Sean Tencer		stence r@ci.e lon.nc. us	336-584- 2859						
5	Graham	City	Melissa Guilbeau		mguil beau @city ofgrah am.co m	336-570- 6705						
6	Green Level	Town	Quentin McPhatter			336-578- 3443						
7	Haw River	Town	Jeff Earp		jearp @tow nofha wriver .com	336-578- 0010						
8	Mebane	City	David Cheek		dchee k@cit yofme bane.c	336-584- 0526						
9	Ossipee	Town	Richard Overman		rover manos sipee @bell south. net	336-584- 8555						
10	Swepsonville	Town	Raymond Herring			336-578- 1500						

	MULTI-JURISDICTION SUMMARY SHEET											
		Jurisdiction					Requirements Met (Y/N)					
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
11	Orange	County (Lead)	Josh Hollings- worth		jhollin gswor th@or angec ounty nc.gov	919-245- 6100						
12	Carrboro	Town	Travis Crabtree		tcrabt ree@t ownof carrbo ro.org	919-918- 7327						
13	Chapel Hill	Town	Matt Sullivan		MSUL LIVAN @tow nofch apelhil l.org	919-968- 2814						
14	Hillsborough	Town	Jerry Wagner		Jerry. Wagn er@hil Isboro ughnc. org	919-241- 4801						
15	Durham	County	Mark Schell		msche II@dc one.g ov	919-560- 0663						
16	Durham	City	Mark Schell		msche Il@dc one.g ov	919-560- 0663						

Appendix C: Public Outreach Strategy

This appendix to the Eno-Haw Regional Hazard Mitigation Plan contains a copy of the Public Outreach Strategy finalized on September 15, 2014 to guide the public outreach element of the mitigation planning process.



Eno-Haw Regional Hazard Mitigation Plan Public Outreach Strategy September 15, 2014

Project Summary

The counties of Alamance, Durham, and Orange, in coordination with their participating municipal jurisdictions, are preparing a regional hazard mitigation plan that will cover the three-county "Eno-Haw" area. The Eno-Haw Regional Hazard Mitigation Plan will identify local policies and actions for reducing risk and future losses from natural hazards such as floods, severe storms, wildfires, and winter weather. It will build upon the separate hazard mitigation plans that were initially prepared by each county in coordination with their municipalities, as well as the Town of Chapel Hill's own stand-alone plan.

The plan will also serve to meet key federal planning regulations which require local governments to develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance, including funding for hazard mitigation projects. These mitigation planning requirements stem from the Disaster Mitigation Act of 2000, which was passed by the U.S. Congress in October of 2000. This Act amended federal law to require that all states and local governments must have hazard mitigation plans in place in order to be eligible to apply for funding under such programs as the Hazard Mitigation Grant Program (HMGP) and the Pre-Disaster Mitigation (PDM) program.

Public Outreach

A key element in the mitigation planning process is the discussion it promotes among community members about creating a safer, more disaster-resilient community. A plan that accurately reflects the community's values and priorities is likely to have greater legitimacy and "buy-in" and greater success in implementing mitigation actions and projects to reduce risk. Therefore, the purpose of the Eno-Haw Regional Hazard Mitigation Plan Public Outreach Strategy is to:

- Generate public interest;
- Solicit citizen input; and
- Engage additional partners in the planning process.

The following specific public outreach opportunities and methods have been identified for citizens and targeted stakeholders to participate at various points in the mitigation planning process, and are presented in more detail on the following pages:

- 1. In-person public meetings (2)
- 2. Public information website (including social media integration, where possible)
- 3. Project information fact sheet
- 4. Planning resources
- 5. Public participation survey

¹ FEMA, *Local Mitigation Planning Handbook*, March 2013.

OUTREACH METHOD 1

In-Person Public Meetings (2)

AVAILABILITY

December 4, 2014 and April 30, 2015.

BRIEF DESCRIPTION

Two public meetings will be scheduled at key points in the project timeline, one following completion of the draft risk and capability assessments and one following completion of the draft plan (and prior to the plan's local adoption). These meetings will be coordinated and arranged by Orange County with facilitation support from AECOM.

DETAILS

For both public meetings:

- The purpose will be to inform the public on the process and current status of the regional planning process, as well as gain input to the process during the drafting stage and prior to plan completion and approval
- AECOM will prepare presentation and handout materials to help facilitate two-way communication with public meeting attendees

LEAD AGENCY

Orange County/AECOM

OUTREACH METHOD 2

Public Information Website (including Social Media Integration)

AVAILABILITY

Throughout the planning cycle.

BRIEF DESCRIPTION

A project information website will be hosted by Orange County Emergency Services and will be available to the general public and to members of the Hazard Mitigation Planning Team for the duration of the project at the following web address: http://www.co.orange.nc.us/emergency/Eno-HawRHMP.asp. The primary purpose of this site will be to share information relevant to the 2015 Eno-Haw Regional Hazard Mitigation Plan planning process.

DETAILS

Specific resources to be included on this site include:

- Project information fact sheet
- Drafts of Eno-Haw Regional Hazard Mitigation Plan sections
- List of Eno-Haw Local Jurisdiction Leads
- List of project tasks and subtasks with schedule
- PowerPoint files from Hazard Mitigation Planning Team meetings
- PDFs of existing local hazard mitigation plans for reference during the plan update process
- Links to planning resources, including recently published FEMA hazard mitigation planning guidance
- · Social media integration including, but not limited to, Facebook, Twitter, Tumblr, Pinterest, and others

LEAD AGENCY

Orange County

OUTREACH METHOD 3

Project Information Fact Sheet

AVAILABILITY

September 15, 2014

BRIEF DESCRIPTION

A 1-page (double-sided) project information fact sheet will be available online in PDF format for the duration of the project. The primary purpose of this document will be to provide information on the regional planning process and to provide project contact information and links for interested parties to engage in the planning effort. This resource will be available on the project information website described above in Outreach Method 3. Printed copies may be made available on an as-needed basis.

DETAILS

Specific information to be provided in this fact sheet includes:

- Project overview
- Overview of the regional hazard mitigation planning process, including:
 - Public outreach
 - o Risk assessment
 - Capability assessment
 - Mitigation strategy development
 - Plan maintenance
 - o Plan adoption
- Explanation of project leadership
- Project schedule
- Contact information and links to project information website
- Project graphics/illustrations

LEAD AGENCY

Orange County/AECOM

OUTREACH METHOD 4

Planning Resources

AVAILABILITY

September 15, 2014

BRIEF DESCRIPTION

Mitigation planning resources will be made available for Hazard Mitigation Planning Team members and other interested parties in order to promote education and participation in the mitigation planning process.

DETAILS

Specific planning resources will include:

- FEMA mitigation planning guidance
 - o Local Mitigation Planning Handbook
 - Mitigation Ideas
 - Integrating Hazard Mitigation Into Local Planning
- Other appropriate planning resources as identified throughout the duration of the planning process

LEAD AGENCY

Orange County/AECOM

OUTREACH METHOD 5

Public Participation Survey

AVAILABILITY

September 30, 2014 through December 31, 2014

BRIEF DESCRIPTION

An online public participation survey will be hosted by AECOM using the SurveyMonkey web hosting service and will be open to the public for a duration of three months. The primary purpose of this survey will be to solicit input from any interested parties in the planning area and will be used so that individuals throughout the planning area have the opportunity to provide valuable information and feedback to the project team. The online survey will give individuals that are unable to attend the in-person meetings the opportunity to participate in the plan update process. Information from the online survey will allow the project team to better understand the types of hazards that most concern the public and the mitigation actions that are of particular interest. The survey will be made accessible through hyperlinks posted on the project information website and can be circulated via email, Facebook, etc. Additionally, hard copies of the survey will be distributed at the in-person public meetings. The feedback received will be evaluated and incorporated into the Hazard Mitigation Planning Team's decision making process and the final plan.

DETAILS

Types of specific questions to be asked as part of this survey include:

- Personal history with natural hazards
- Natural hazard concerns
- Perception of vulnerable community assets
- Importance of community assets
- Priorities concerning natural hazard preparedness
- Steps local government can take to reduce natural hazard risk
- Types of mitigation activities deemed important
- Personal interest in natural hazard mitigation
- Effective ways to communicate with residents
- Location in the floodplain
- Questions regarding flood insurance
- Personal actions to mitigate property
- Mitigation activities planned for the respondent's household
- Location within the planning area
- Age (optional)*
- Gender (optional)*
- Highest level of education (optional)*
- Length of time living in the planning area
- Ownership of property versus rental status
- Type of dwelling
- Open comments**

LEAD AGENCY

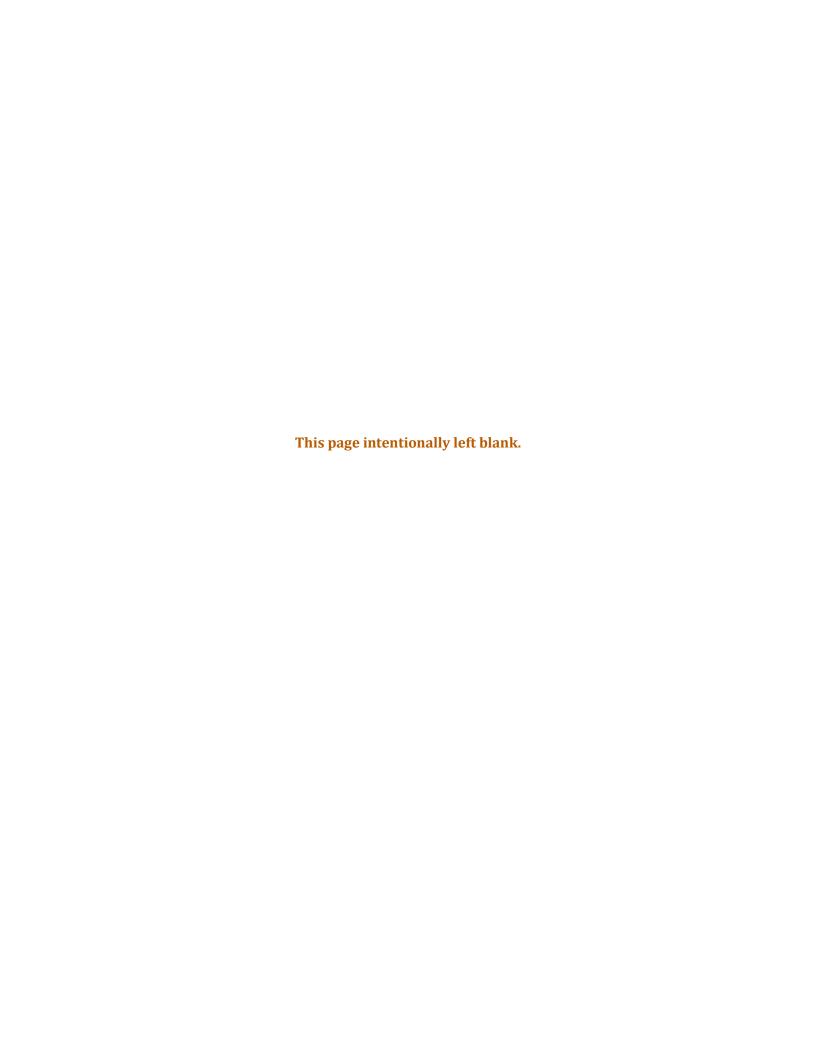
Orange County/AECOM

^{*} All information will be kept strictly confidential

^{**} Information will be processed and summarized by AECOM in order to produce summary statistics and summary responses

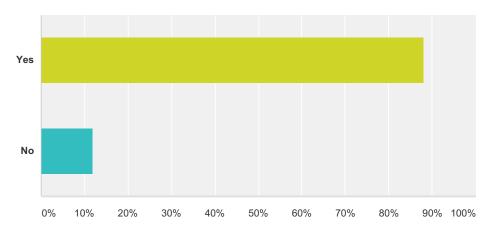
Appendix D: Public Participation Survey

This appendix to the Eno-Haw Regional Hazard Mitigation Plan contains a summary of the results obtained through the public participation survey offered from September 30 through December 31, 2014. The survey was conducted online through SurveyMonkey, an online survey software provider, and was also made available in print form at public meetings and at other locations throughout the planning area. No written responses were submitted.



Q1 Have you ever experienced or been impacted by a disaster?

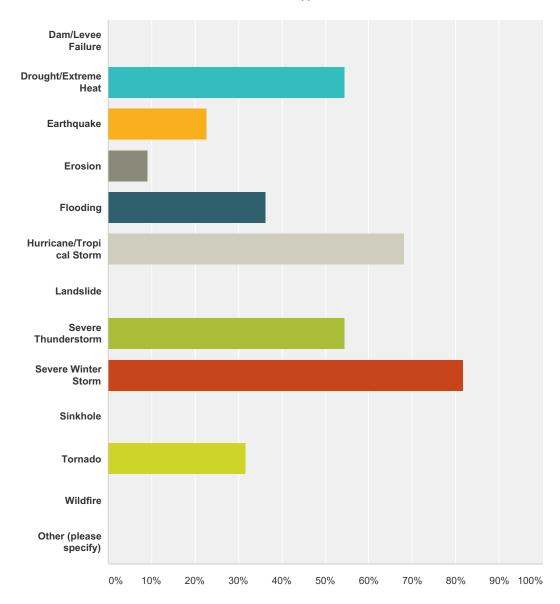




Answer Choices	Responses	
Yes	88.00%	22
No	12.00%	3
Total		25

Q2 If yes, which of these natural hazards have you experienced or been impacted by? (Check all that apply.)

Answered: 22 Skipped: 3



Answer Choices	Responses	
Dam/Levee Failure	0.00%	0
Drought/Extreme Heat	54.55%	12
Earthquake	22.73%	5
Erosion	9.09%	2
Flooding	36.36%	8
Hurricane/Tropical Storm	68.18%	15

Hazard Mitigation Public Participation Survey

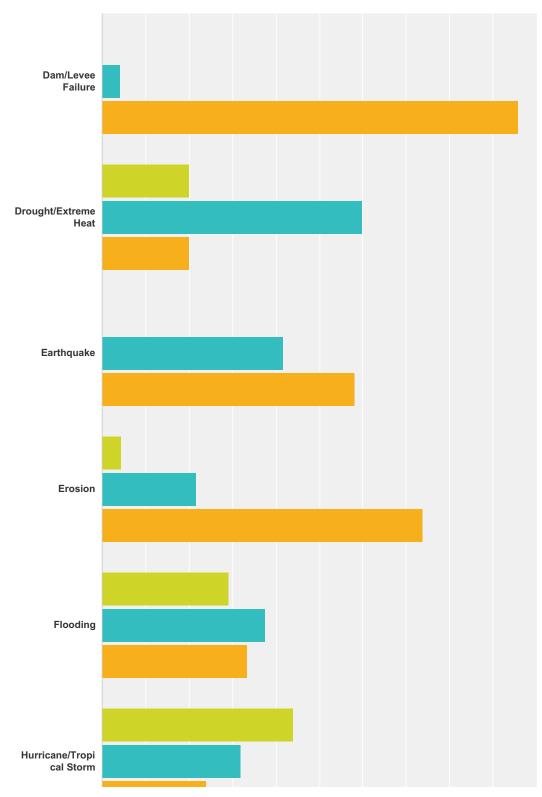
SurveyMonkey

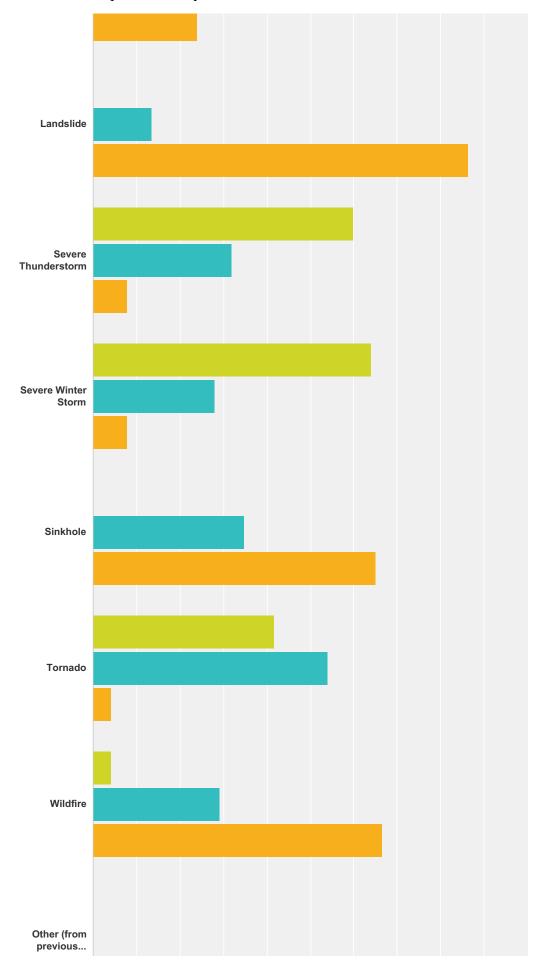
Landslide	0.00%	0
Severe Thunderstorm	54.55%	12
Severe Winter Storm	81.82%	18
Sinkhole	0.00%	0
Tornado	31.82%	7
Wildfire	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 22		

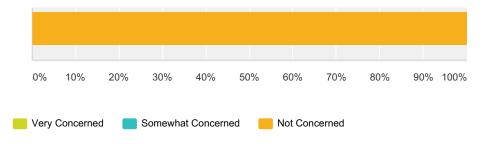
#	Other (please specify)	Date
	There are no responses.	

Q3 How concerned are you about the possibility of your community being impacted by each of these natural hazards? (Check the corresponding circle for each natural hazard.)

Answered: 25 Skipped: 0



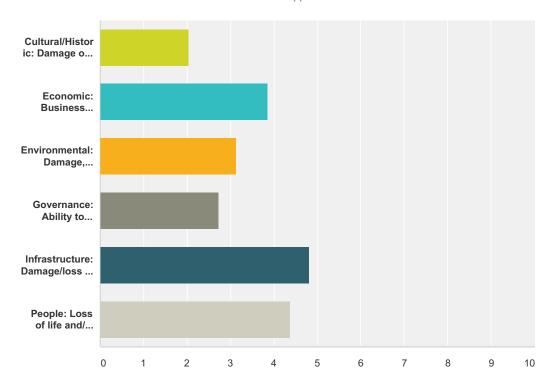




	Very Concerned	Somewhat Concerned	Not Concerned	Total
Dam/Levee Failure	0.00%	4.17%	95.83%	
	0	1	23	2
Drought/Extreme Heat	20.00%	60.00%	20.00%	
	5	15	5	
Earthquake	0.00%	41.67%	58.33%	
	0	10	14	
Erosion	4.35%	21.74%	73.91%	
	1	5	17	
Flooding	29.17%	37.50%	33.33%	
	7	9	8	
Hurricane/Tropical Storm	44.00%	32.00%	24.00%	
	11	8	6	
Landslide	0.00%	13.64%	86.36%	
	0	3	19	
Severe Thunderstorm	60.00%	32.00%	8.00%	
	15	8	2	
Severe Winter Storm	64.00%	28.00%	8.00%	
	16	7	2	
Sinkhole	0.00%	34.78%	65.22%	
	0	8	15	
Tornado	41.67%	54.17%	4.17%	
	10	13	1	
Wildfire	4.17%	29.17%	66.67%	
	1	7	16	
Other (from previous question)	0.00%	0.00%	100.00%	
	0	0	10	

Q4 In your opinion, which of the following categories are most susceptible to natural hazards in your community? (Rank the community assets in order of vulnerability, 1 being most vulnerable and 6 being least vulnerable.) Please note, the list will automatically re-order itself as you make your selections. You can also drag and drop the items on the list to reorder them.

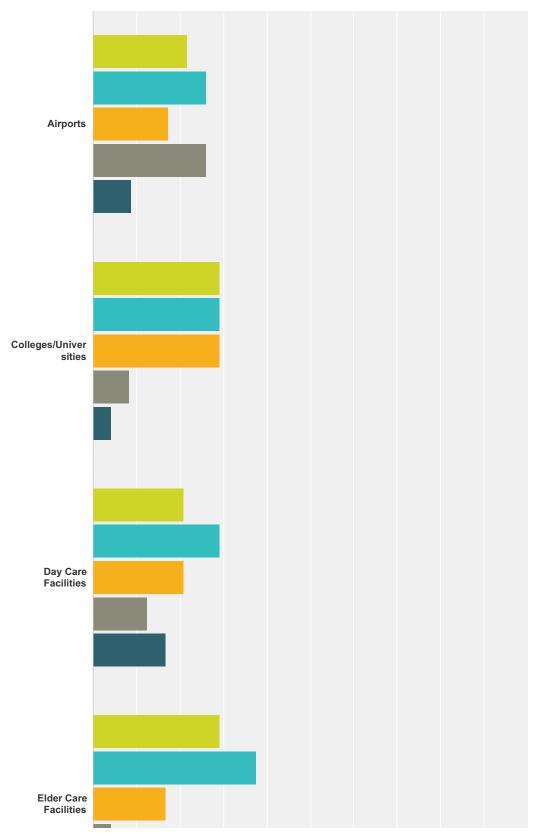


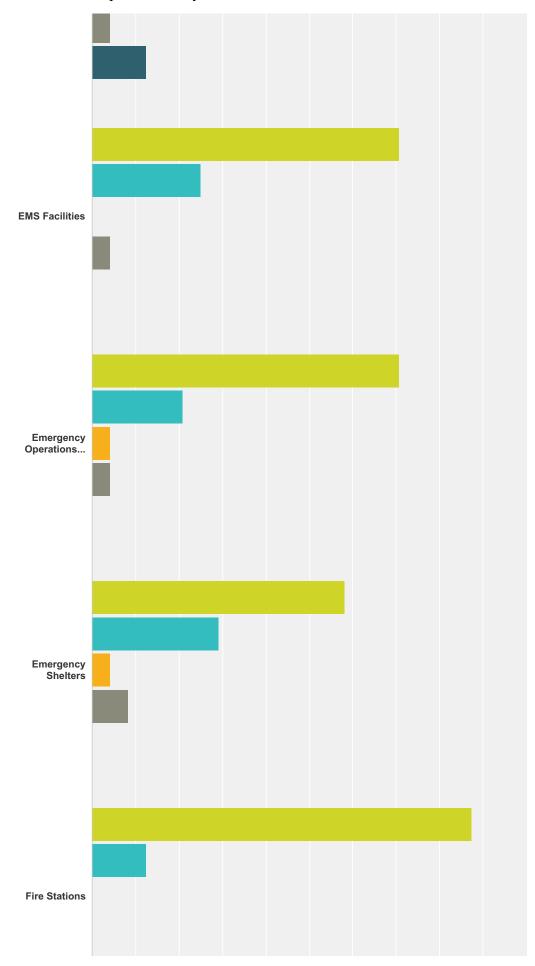


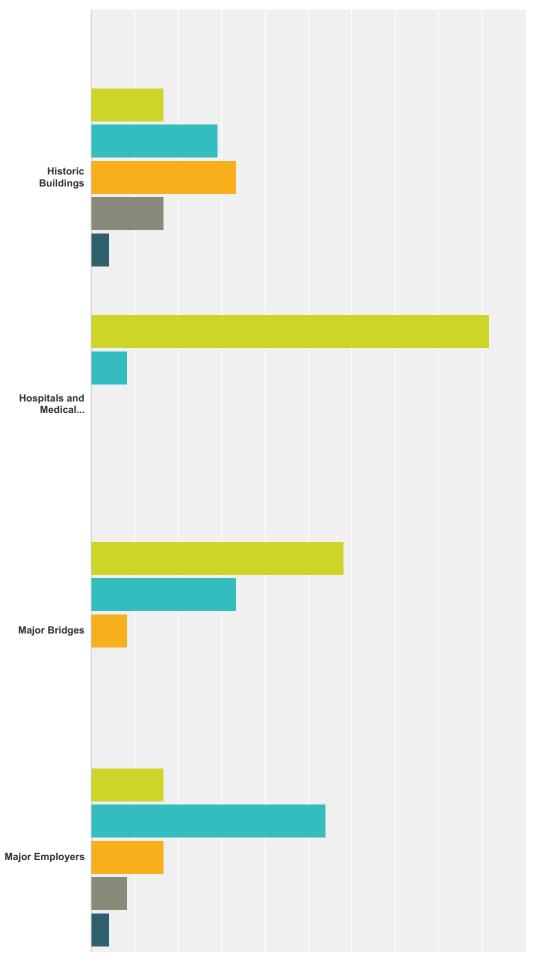
	1	2	3	4	5	6	Total	Score
Cultural/Historic: Damage or loss of libraries, museums, historic properties, etc.		8.70%	4.35%	8.70%	17.39%	56.52%		
		2	1	2	4	13	23	2.04
Economic: Business interruptions/closures, job losses, etc.		13.04%	26.09%	26.09%	17.39%	0.00%		
	4	3	6	6	4	0	23	3.87
Environmental: Damage, contamination or loss of forests,	8.70%	8.70%	26.09%	13.04%	30.43%	13.04%		
wetlands, waterways, etc.		2	6	3	7	3	23	3.13
Governance: Ability to maintain order and/or provide public		4.35%	21.74%	39.13%	13.04%	21.74%		
amenities and services	0	1	5	9	3	5	23	2.74
Infrastructure: Damage/loss of roads, bridges, utilities, schools,	21.74%	56.52%	8.70%	8.70%	4.35%	0.00%		
etc.	5	13	2	2	1	0	23	4.83
People: Loss of life and/or injuries	47.83%	8.70%	13.04%	4.35%	17.39%	8.70%		
·	11	2	3	1	4	2	23	4.39

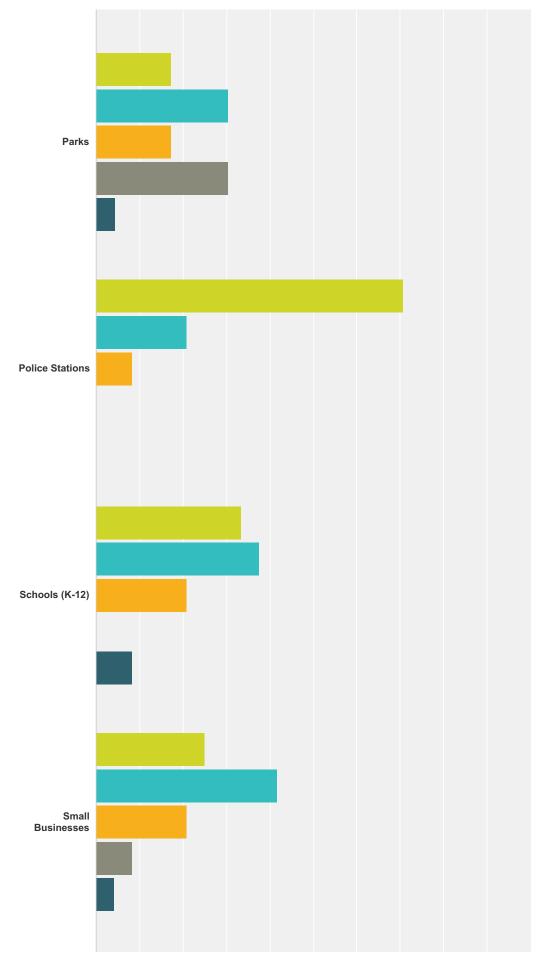
Q5 How important is each of the following specific community assets to you? (Check the appropriate circle for each asset.)

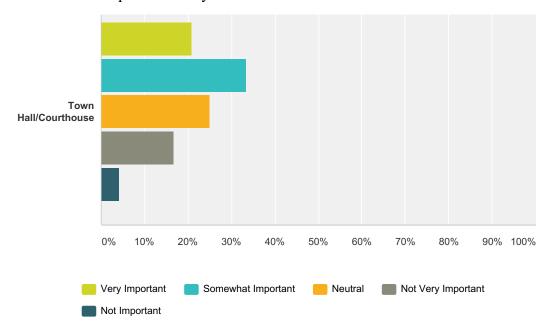
Answered: 24 Skipped: 1











	Very Important	Somewhat Important	Neutral	Not Very Important	Not Important	Tota
Airports	21.74%	26.09%	17.39%	26.09%	8.70%	
	5	6	4	6	2	2
Colleges/Universities	29.17%	29.17%	29.17%	8.33%	4.17%	
	7	7	7	2	1	2
Day Care Facilities	20.83%	29.17%	20.83%	12.50%	16.67%	
	5	7	5	3	4	2
Elder Care Facilities	29.17%	37.50%	16.67%	4.17%	12.50%	
	7	9	4	1	3	1
EMS Facilities	70.83%	25.00%	0.00%	4.17%	0.00%	
	17	6	0	1	0	1
Emergency Operations Centers	70.83%	20.83%	4.17%	4.17%	0.00%	
	17	5	1	1	0	1
Emergency Shelters	58.33%	29.17%	4.17%	8.33%	0.00%	
	14	7	1	2	0	
Fire Stations	87.50%	12.50%	0.00%	0.00%	0.00%	
	21	3	0	0	0	
Historic Buildings	16.67%	29.17%	33.33%	16.67%	4.17%	
	4	7	8	4	1	
Hospitals and Medical Facilities	91.67%	8.33%	0.00%	0.00%	0.00%	
	22	2	0	0	0	
Major Bridges	58.33%	33.33%	8.33%	0.00%	0.00%	
	14	8	2	0	0	
Major Employers	16.67%	54.17%	16.67%	8.33%	4.17%	
	4	13	4	2	1	
Parks	17.39%	30.43%	17.39%	30.43%	4.35%	
	4	7	4	7	1	
Police Stations	70.83%	20.83%	8.33%	0.00%	0.00%	
	17	5	2	0	0	

Hazard Mitigation Public Participation Survey

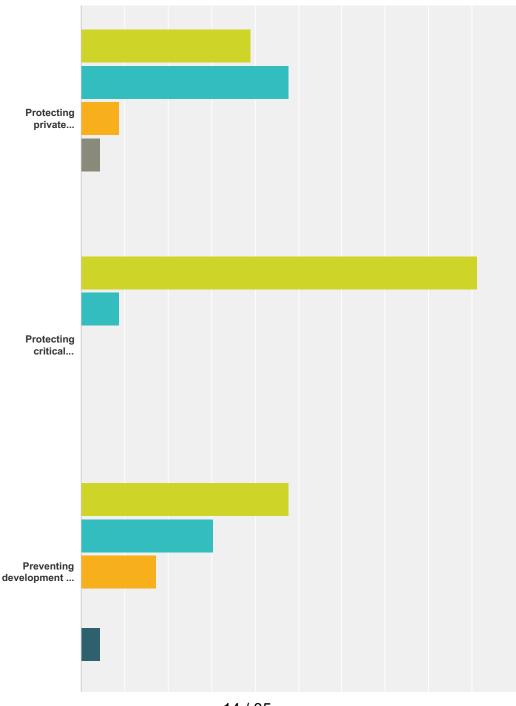
SurveyMonkey

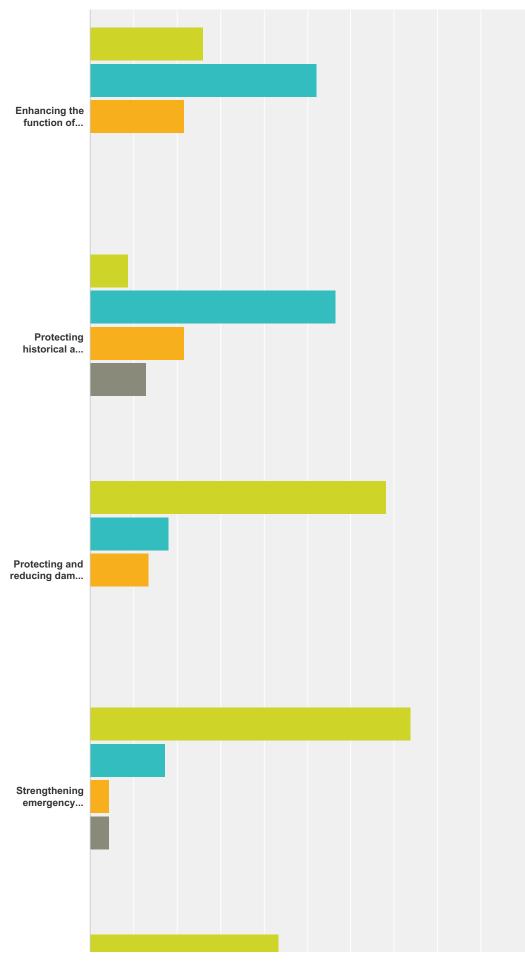
Schools (K-12)	33.33% 8	37.50% 9	20.83% 5	0.00% 0	8.33% 2	24
Small Businesses	25.00% 6	41.67% 10	20.83% 5	8.33% 2	4.17% 1	24
Town Hall/Courthouse	20.83% 5	33.33% 8	25.00% 6	16.67%	4.17% 1	24

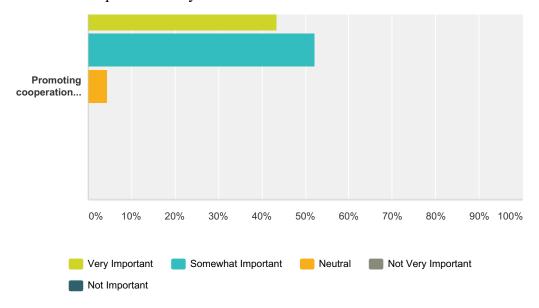
#	Other (please specify)	Date
	There are no responses.	

Q6 Natural hazards can have a significant impact on a community, but planning for these types of events can help lessen the impacts. The following statements will help us determine citizen priorities regarding planning for natural hazards in your community. Please tell us how important each statement is to you by checking the appropriate circle for each.

Answered: 23 Skipped: 2







	Very Important	Somewhat Important	Neutral	Not Very Important	Not Important	Tota
Protecting private property	39.13%	47.83%	8.70%	4.35%	0.00%	
	9	11	2	1	0	23
Protecting critical facilities (for example, hospitals, police stations,	91.30%	8.70%	0.00%	0.00%	0.00%	
re stations, etc.)	21	2	0	0	0	2
Preventing development in hazard areas	47.83%	30.43%	17.39%	0.00%	4.35%	
	11	7	4	0	1	2
Enhancing the function of natural features (for example, streams,	26.09%	52.17%	21.74%	0.00%	0.00%	
wetlands, etc.)	6	12	5	0	0	2
Protecting historical and cultural landmarks	8.70%	56.52%	21.74%	13.04%	0.00%	
	2	13	5	3	0	2
Protecting and reducing damage to utilities	68.18%	18.18%	13.64%	0.00%	0.00%	
	15	4	3	0	0	2
Strengthening emergency services (for example, police, fire,	73.91%	17.39%	4.35%	4.35%	0.00%	
ambulance)	17	4	1	1	0	2
Promoting cooperation among public agencies, citizens, non-profit	43.48%	52.17%	4.35%	0.00%	0.00%	
organizations, and businesses	10	12	1	0	0	2

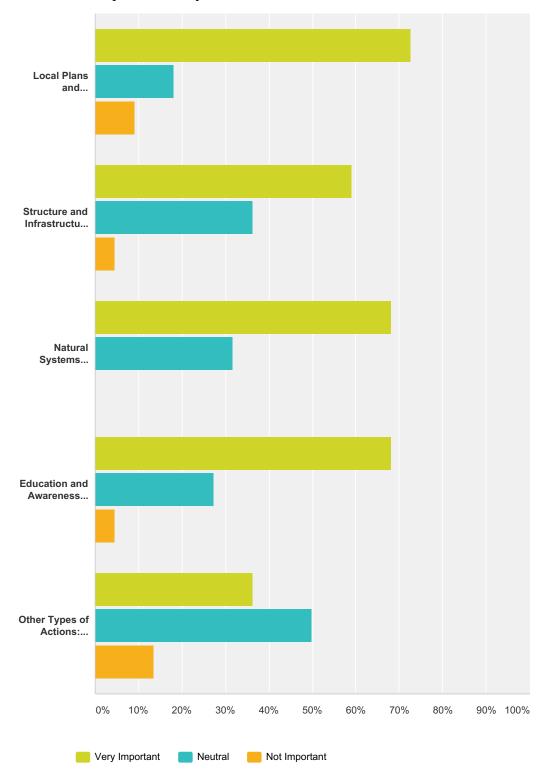
Q7 What are some steps that your local government could take to reduce or eliminate the risk of future natural hazard damages in your neighborhood?

Answered: 10 Skipped: 15

#	Responses	Date
1	Promote local businesses to strengthen our support network, aggressively promote climate change mitigation, decentralize the power grid	11/26/2014 5:32 PM
2	Bury power lines; prepare a talk or demonstration for the neighborhood about the emergency processes in place and how to access them.	11/26/2014 4:21 PM
3	Stop building more houses/buildings by clear-cutting trees.	11/24/2014 4:19 PM
4	Install drainage pipes	11/24/2014 3:59 PM
5	community storm shelters. THere are numerous older homes without basements that would be unable to withstand EF2+ tornado and there are no public buildings or community shelters available as safe places for citizens to go to.	11/24/2014 1:09 PM
6	Strategic Planning; pre-positioned sites for debris management	11/24/2014 12:43 PM
7	repair and maintain storm drains	11/20/2014 4:21 PM
8	Better tree removal along powerlines and utility lines	11/18/2014 11:07 PM
9	More preventative action (in a way similar to salting the roads before a snow storm, adding more drains in low-level areas, etc)	11/13/2014 11:55 PM
10	Provide funding	11/12/2014 10:10 AM

Q8 A number of community-wide activities can reduce risk from natural hazards. In general, these activities fall into one of the following five broad categories. Please tell us how important you think each one is for your community to consider pursuing.

Answered: 22 Skipped: 3



	Very Important	Neutral	Not Important	Total
Local Plans and Regulations: Government authorities, policies, or codes that influence the way land and buildings are developed and built.	72.73% 16	18.18% 4	9.09% 2	22
Structure and Infrastructure Projects: Modifying existing structures and infrastructure to protect them from a nazard or remove them from a hazard area.	59.09% 13	36.36% 8	4.55% 1	22

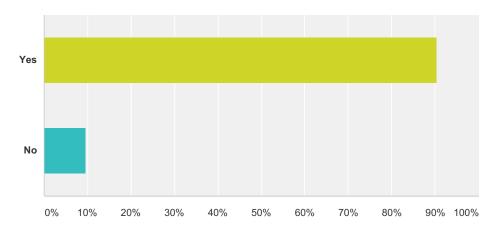
Hazard Mitigation Public Participation Survey

SurveyMonkey

Natural Systems Protection: Actions that minimize damage and losses and also preserve or restore the functions of natural systems.	68.18% 15	31.82% 7	0.00% 0	22
Education and Awareness Programs: Actions that inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them.	68.18% 15	27.27% 6	4.55% 1	22
Other Types of Actions: Actions that are related to mitigation in ways that make sense to the local government that do not fall into one of the categories above.	36.36% 8	50.00%	13.64%	22

Q9 Are you interested in making your home or neighborhood more resistant to natural hazards?

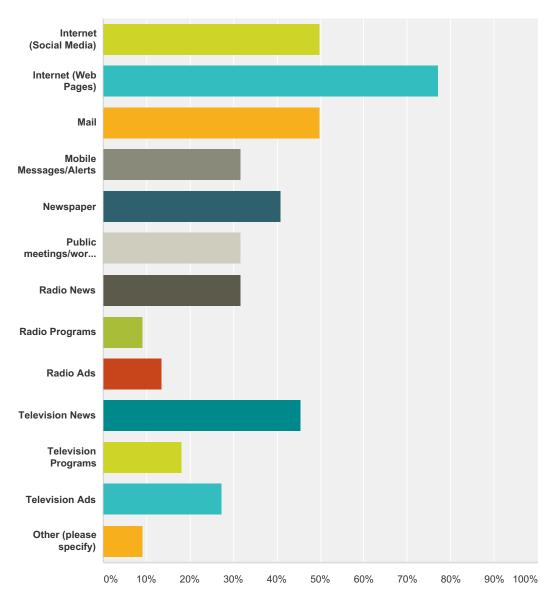




Answer Choices	Responses
Yes	90.48% 19
No	9.52 % 2
Total	21

Q10 What are the most effective ways for you to receive information about how to make your home and neighborhood more resistant to natural hazards?





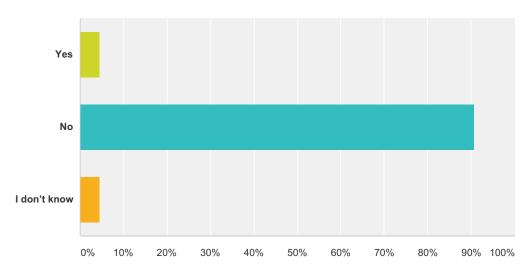
Answer Choices	Responses	
Internet (Social Media)	50.00%	11
Internet (Web Pages)	77.27%	17
Mail	50.00%	11
Mobile Messages/Alerts	31.82%	7
Newspaper	40.91%	9

Public meetings/workshops	31.82%	7
Radio News	31.82%	7
Radio Programs	9.09%	2
Radio Ads	13.64%	3
Television News	45.45%	10
Television Programs	18.18%	4
Television Ads	27.27%	6
Other (please specify)	9.09%	2
al Respondents: 22		

#	Other (please specify)	Date
1	e-mail	11/26/2014 5:33 PM
2	Email	11/13/2014 9:41 PM

Q11 Is your home located in a floodplain?

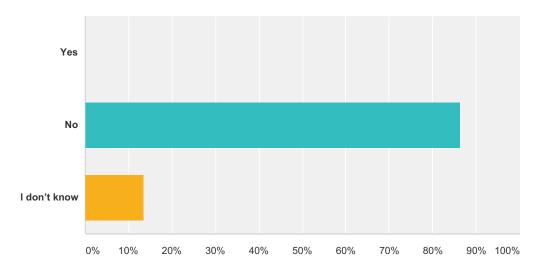




Answer Choices	Responses	
Yes	4.55%	1
No	90.91%	20
I don't know	4.55%	1
Total		22

Q12 Do you have flood insurance?

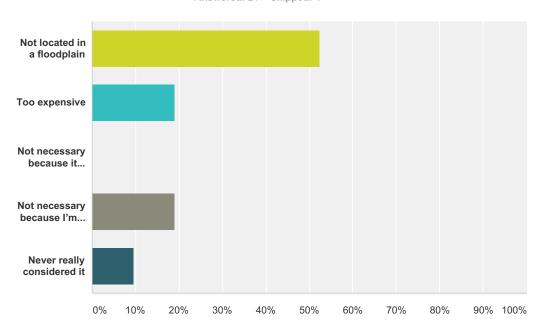
Answered: 22 Skipped: 3



Answer Choices	Responses	
Yes	0.00%	0
No	86.36%	19
I don't know	13.64%	3
Total		22

Q13 If "No," why not?

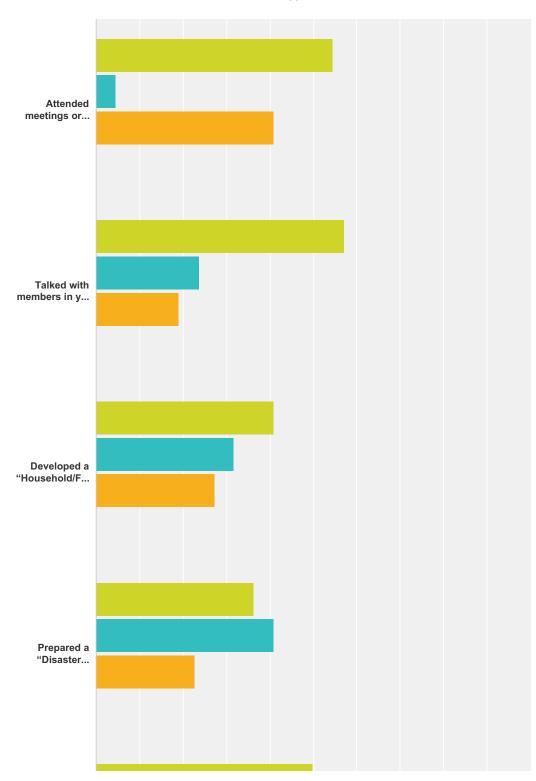
Answered: 21 Skipped: 4

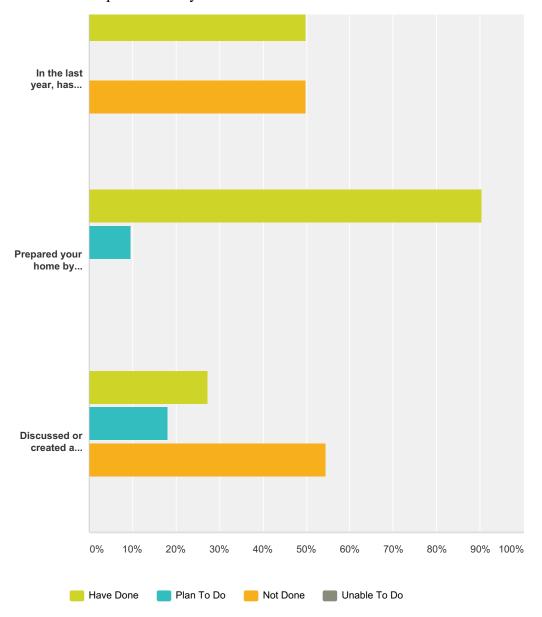


nswer Choices	Responses	
Not located in a floodplain	52.38%	11
Too expensive	19.05%	4
Not necessary because it never floods	0.00%	0
Not necessary because I'm elevated or otherwise protected	19.05%	4
Never really considered it	9.52%	2
otal		21

Q14 In the following list, please check the activities that you have done in your household, plan to do in the near future, have not done, or are unable to do. (Please check one response for each preparedness activity.)





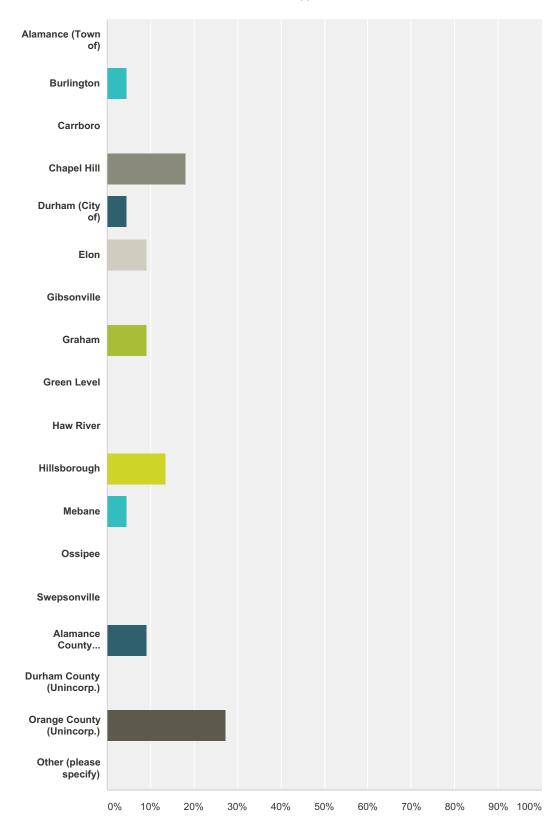


	Have Done	Plan To Do	Not Done	Unable To Do	Tota
Attended meetings or received written information on natural disasters or emergency preparedness?	54.55% 12	4.55%	40.91% 9	0.00% 0	22
Falked with members in your household about what to do in case of a natural disaster or emergency?	57.14%	23.81% 5	19.05% 4	0.00%	2
Developed a "Household/Family Emergency Plan" in order to decide what everyone would do in the event of a disaster?	40.91% 9	31.82% 7	27.27% 6	0.00% 0	2
Prepared a "Disaster Supply Kit" (stored extra food, water, batteries or other emergency supplies)?	36.36% 8	40.91% 9	22.73% 5	0.00% 0	2
n the last year, has anyone in your household been trained in First Aid or Cardio-Pulmonary Resuscitation (CPR)?	50.00%	0.00% 0	50.00%	0.00% 0	2
Prepared your home by installing smoke detectors on each level of the house?	90.48% 19	9.52% 2	0.00% 0	0.00% 0	2.
Discussed or created a utility shutoff procedure in the event of a natural disaster?	27.27% 6	18.18% 4	54.55% 12	0.00% O	2

#	Other (please specify)	Date
	There are no responses.	

Q15 Where do you live?

Answered: 22 Skipped: 3



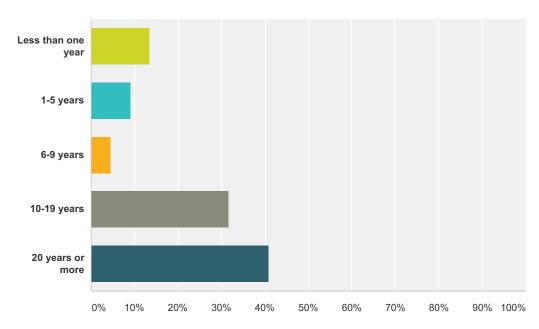
Answer Choices Responses

Alamance (Town of)	0.00%	
Burlington	4.55%	
Carrboro	0.00%	
Chapel Hill	18.18%	
Durham (City of)	4.55%	
Elon	9.09%	
Gibsonville	0.00%	
Graham	9.09%	
Green Level	0.00%	
Haw River	0.00%	
Hillsborough	13.64%	
Mebane	4.55%	
Ossipee	0.00%	
Swepsonville	0.00%	
Alamance County (Unincorp.)	9.09%	
Durham County (Unincorp.)	0.00%	
Orange County (Unincorp.)	27.27%	
Other (please specify)	0.00%	
otal		

#	Other (please specify)	Date
	There are no responses.	

Q16 How long have you lived in Alamance, Durham or Orange County?

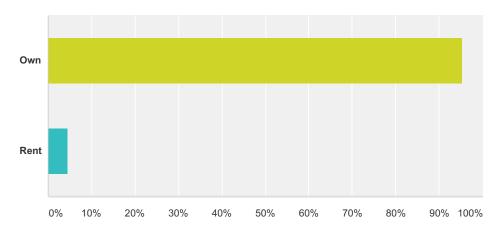
Answered: 22 Skipped: 3



Answer Choices	Responses	
Less than one year	13.64%	3
1-5 years	9.09%	2
6-9 years	4.55%	1
10-19 years	31.82%	7
20 years or more	40.91%	9
Total		22

Q17 Do you own or rent your home?

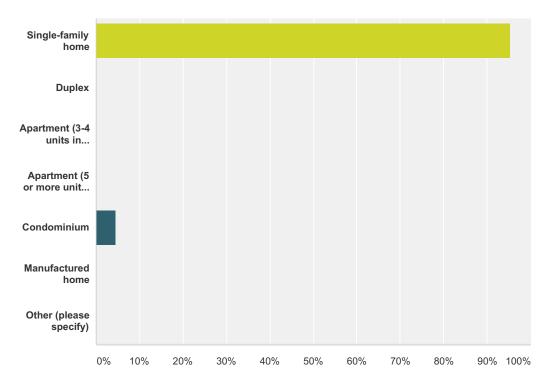




Answer Choices	Responses	
Own	95.45%	21
Rent	4.55%	1
Total		22

Q18 What type of building do you live in?





Answer Choices	Responses	
Single-family home	95.45%	21
Duplex	0.00%	0
Apartment (3-4 units in structure)	0.00%	0
Apartment (5 or more units in structure)	0.00%	0
Condominium	4.55%	1
Manufactured home	0.00%	0
Other (please specify)	0.00%	0
Total		22

#	Other (please specify)	Date
	There are no responses.	

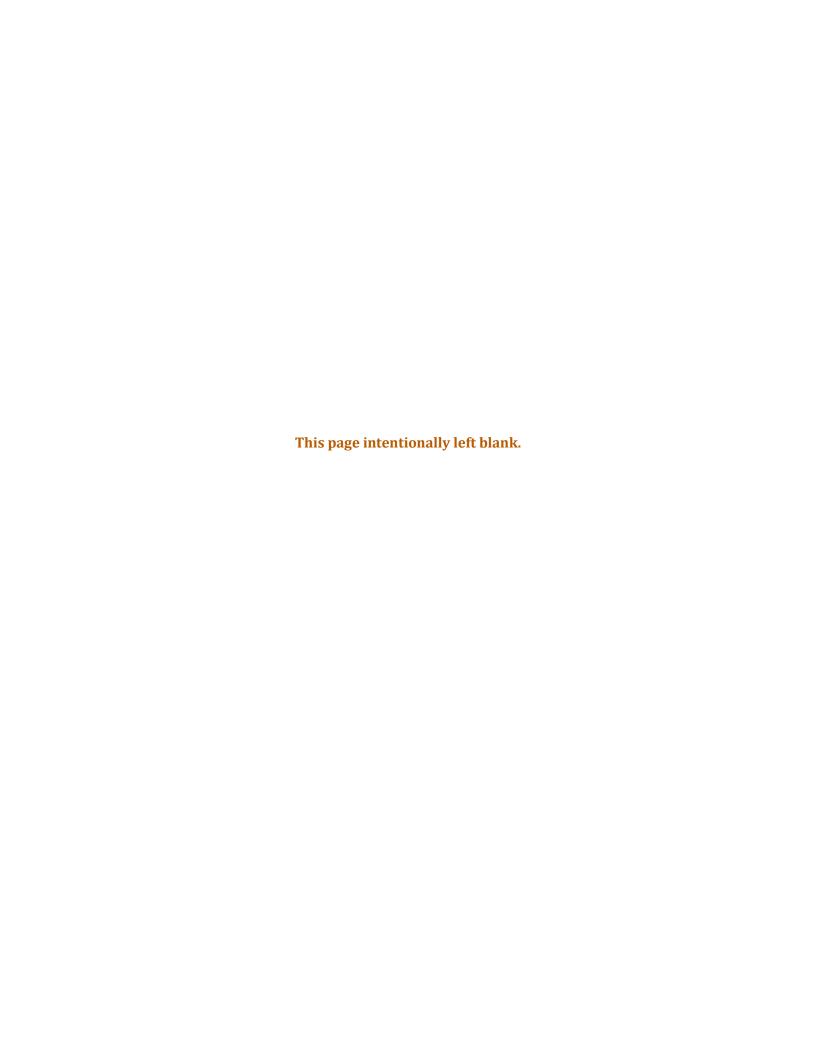
Q19 Additional Comments

Answered: 2 Skipped: 23

#	Responses	Date
1	In Orange County they are not worried about the unincorported areas. Chapel Hill is the only area of any concern and everyone else has to fend for theirself.	11/24/2014 4:02 PM
2	I think this is a make work program for planners and excess emergency response manpower. Most people are unaware of what can happen to them and unwilling to inconvenience themselves with training or preparation. Beyond a moderate ability to clear roads, run basic EMS, fight house fires, and keep power on, I don't want much from government. Generally speaking, we are currently over-prepared and there is NO historical precedent for our needing more emergency preparedness. A severe tornado is the only event I can imagine that might be worse than Fran and its effect would be localized. We have several more important things too worry about. The fact that you might be able to draw in some "Federal Money" does not automatically make something a good idea or worth doing! Fix the schools! Fix the roads! Stop discouraging development and get some revenue generating development to help with our ridiculous tax burden!	11/24/2014 1:42 PM

Appendix E: Copies of Meeting Agendas and Sign-in Sheets

This appendix to the Eno-Haw Regional Hazard Mitigation Plan contains a collection of meeting agendas and sign-in sheets for the Hazard Mitigation Planning Team meetings and public meetings held as part of this planning process. Further details about each meeting (i.e., meeting minutes) can be found in Section 2: *Planning Process*. PowerPoint slides for each meeting are available from Orange County Emergency Services.



Eno-Haw Regional Hazard Mitigation Plan Multi-Jurisdictional Planning Team March 27, 2015

JURISDICTION	NAME	TITLE/AFFILIATION	EMAIL
	DSMPU Marrado	Nanner	any gola clang runding, an
Dave Co.	Perdit Holtz	Planning Dept.	Dholtz @ orange count no. 502
Alamance Co.	John Payne	© NH	John, payre @ algmance nc, com
Homance Co.	David Leonard	FM	duvid, Penanda a lamance-ne, con
Town of CH	Dock Fryday	Plane	, freduce of true of thopal hill .07
City of Dupyin	SOUND WHOSE	~	Sternand og 3020 Menning
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MAN ORANGE CO.	Levin Lindlen	PLANNING / ENGINEGEING	KI nobley @ stangecounty rc. gos
Town of Camboro	Trish McGuire	Planning Duckor	pmcguive town of carrbons org
11 - 11 - 11	TRUSTY STYONS	FIRE DEPT	The State of There of the State
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Town of Chapel Hill	Nikki White I tolt Sullivan		Msullivan @ton of changlill. ora
Orange Co. Eng./5W	Howard W. Fleming, Dr.	Engineering	Stormuster Supervisor A flowing Coungecounting.gov
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Eno-Haw Regional Hazard Mitigation Plan Multi-Jurisdictional Planning Team March 27, 2015

JURISDICTION	NAME	TITLE/AFFILIATION	EMAIL
ALAMANCE COUNTY			
Village of Alamance	the sta	TO PICTURE DUT	
City of Burlington	1000 Den	CONTRACTOR OF THE STATE OF THE	(*) CONDER CONTRACTOR
Town of Elon		X 4. 100000	
Town of Gibsonville			
City of Graham	Nathan Page	City Planner	n page @ city of araham. com
Town of Green Level		3.0	
Town of Haw River		NAME OF THE PARTY	
City of Mebane	THE PERSON NAMED IN THE PARTY OF THE PARTY O		
Town of Ossipee	C. J. S.	A STORE THE THE THE PERSON OF THE PERSON	
Town of Swepsonville			1 1 1
DURHAM COUNTY			
City of Durham	willing!	Star Mark Calling Cook	
ORANGE COUNTY	Llosh Hollingsworth	Em Dianner	Marie Barrer Marie B. Sant Control of Santa
Town of Carrboro			
Town of Chapel Hill			
Town of Hillsborough	the state of the s		
UNC – Chapel Hill			
Local PM – Orange Co.	Libu Sandro	EM CORONARDO	
State PM - North Carolina	2001		
Planning - AECOM			



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Regional Hazard Mitigation Plan

Regional Planning Team Meeting #4

Friday, March 27, 2015
1:00 p.m. – 2:30 p.m.
Orange County Emergency Services
510 Meadowlands Drive, Hillsborough, NC
Emergency Coordination Center Room (ECC/EOC)

AGENDA

Welcome and Introductions	1:00 – 1:10
2. Overview of Working Draft	1:10 – 2:00
3. Maintaining Momentum and Implementing the	Plan 2:00 – 2:15
4. Next Steps	2:15 – 2:20
5. Open Discussion	2:20 – 2:30

Eno-Haw Regional Hazard Mitigation Plan Multi-Jurisdictional Planning Team December 4, 2014

JURISDICTION	NAME	TITLE/AFFILIATION	EMAIL
ALAMANCE COUNTY	Alia Sizemai	Dep Fin Mushal / text. EM Cord	alva. Sizempre o alamone - Ne. con
Village of Alamance			The state of the s
City of Burlington	Rosermanuel	EM	Maurel ec: - bustington. NC. 4
Town of Elon	& Sen Terrer	Town Planner	stencer @ ci, elon, nc. us
Town of Gibsonville			, , , , ,
City of Graham	,		
Town of Green Level	:		
Town of Haw River			
City of Mebane			
Town of Ossipee			
Town of Swepsonville			
DURHAM COUNTY	work Schell.	Durlym Cours Con	Muschell @ dionc.gov
City of Durham	STEPHEN WINDSOR	CRS Corro	STEPHAN. WIND SOR @ TURHAM NC. GOV
ORANGE COUNTY	Josh Hallingsworth	EM Planne	
Town of Carrboro	TRIVIS CASPINE	Fine Chil	tepptine @ four excarbone. on
Town of Chapel Hill	Matthew Sulliva	Encrosed Morgant Coolat	MSUllivar Blown of Chapitalling
Town of Hillsborough	7	Design of the first of the second	1000 Stanto Chapman (S)
UNC - Chapel Hill			
Town of Carrboro	Trish Mc Grine	Planning Director	progrume a town of carrboro.org
Local PM – Orange Co.	King Samber	EM WORD/ URAWGE CO.	K. Saynelos @ ocongecontyne ga
State PM – North Carolina	Rian as		
Planning - AECOM	myour ux	Hazard Mitigation Planning	ryanicox @ ncolpsigou











Eno-Haw Regional Hazard Mitigation Plan Multi-Jurisdictional Planning Team December 4, 2014

JURISDICTION	NAME	TITLE/AFFILIATION	EMAIL
DURHAM COUNTY	ZyAN EAVES	STORMWATER MANAGER	REAVESO DONG GOV
Durham County	Chris Roberts	St& D. vision Manger	Croberts Odeone.gov
ALLANGUE COOPT	KEVEN TURNER	EM PLANNIEN	kevin turner e alamance -nc.com
Orange Co-Planning	Perdita Holtz	Planner III.	phottz@ orange countync, gov
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Durchan County	MARIL SCHEW	EM COORDINATION	rus oher @ donc - gov
Town of Carrboro	Trish McGuire	Planning Director	pmc guire @ town of carrboro. ory
NC - Central Franch	Ricky tuttle	area 10 Coordmater	ricky buttle o medpargox
Grange County	ashly Mongado	Planner	amoncado Corangecountync.
ORANGE COUNTY	CARLA BANKS		chanks@orangerountync-gov
Or ange County	J. Hollingsworth		jabllingsworth@orangecountyregs
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Regional Hazard Mitigation Plan

Regional Planning Team Meeting #3

Thursday, December 4, 2014 10:00 a.m. – 2:00 p.m. Whitted Human Services Building, Room 230 300 W Tryon Street, Hillsborough, NC

AGENDA

1.	Welcome and Introductions	10:00 – 10:10
2.	Risk Assessment Overview and Preliminary Findings Hazards AddressedBuilding Inventories and Demographic DataNatural Hazards Discussion (by hazard)Hazard Risk Ranking Discussion	10:10 – 11:30
3.	Capability Assessment Overview and Prelim. Findings	11:30 – 11:45
4.	Working Lunch	11:45 – 12:15
5.	Public Outreach Update	12:15 – 12:20
6.	 Mitigation Strategy Development Vision Statement Organization of Mitigation Strategy Section Mitigation Action Plans (MAPs) Types of Mitigation Actions Mitigation Strategy Exercise 	12:20 – 1:45
7.	Open Discussion	1:45 – 1:55
8.	Next Steps	1:55 – 2:00

AOD Regional Hazard Mitigation Plan Multi-Jurisdictional Planning Team September 15, 2014 – Orange County ES - EOC

JURISDICTION	NAME	TITLE/AFFILIATION	EMAIL
Orange County	Perdita Holtz	Planning Dept.	pho 1/2@ orange county nc. gov
City of Durishm	STEPHEN WINDSOR	STORMWATER SERVICES	STEPHAN - WINDSOR @ DURHAMNC .C.
NEEm	Cindy Hamson	NC HM Planner	Cindy, Harrisa Onedpsigor
ORANGE CO	CARLA BANKS	PRBUC AFFAIRS	chanks orangerounty m.gav
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Deen Town of Elen	Sean Tencer	Town Planner	steneer@cielon.ne.us
Drange	Josh Hollingsworth	EM Planner	hollingswork@orangecountync.go
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AOD Regional Hazard Mitigation Plan Multi-Jurisdictional Planning Team September 15, 2014 – Orange County ES - EOC

JURISDICTION	NAME .	ŢIŢLE/AFFILIĄTION	EMAIL
ALAMANCE COUNTY	John PATINE HUA SiZen	e Ala. Co. Em	
Village of Alamance			
City of Burlington	Loger Manuel	See other	Sheet
Town of Elon			
Town of Gibsonville	1	3 2	
City of Graham			
Town of Green Level		12 g.	
Town of Haw River	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
City of Mebane			ALL V 4-1, 11 B
Town of Ossipee			
Town of Swepsonville			
DURHAM COUNTY	MARK SCHELL Mychell	Ciry/co. EMA (DIEXHAM/DURCO	o) mscheel a dconc.gov
City of Durham	Graham Summerson	Cityol Dolan Public Looks	graham, Svyner son baylyanc. 92V
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ORANGE COUNTY	Ushley Minicado	Planning	amoncado @orangecounty nc.o
Town of Carrboro	Trest Mc Dure	Planning	progrete @ town of carrborn, org
Town of Chapel Hill		0	
Town of Hillsborough		Los tratifications	neri e etitele e etere
UNC - Chapel Hill	Carol wassel	The true I lad I was	Cited I manion conception
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Local PM – Orange Co.	Kirby Saunders	EM Coordinator/Or ange	Ksaunders @ or angecountync.gov
State PM – North Carolina	Colvan Cox	NCEM HMPlanning	ryan, cox@ncdps, gov
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Regional Hazard Mitigation Plan

Regional Planning Team Meeting #2

Monday, September 15, 2014
1:30 p.m. – 3:30 p.m.
Orange County Emergency Services
510 Meadowlands Drive, Hillsborough, NC
Emergency Coordination Center Room (ECC/EOC)

AGENDA

1.	Welcome and Introductions	1:30 – 1:40
2.	Hazard Identification Exercise	1:40 – 1:50
3.	Public Outreach • Public Outreach Strategy • Online Public Participation Survey • Project Information Fact Sheet	1:50 – 2:10
4.	 Capability Assessments Local Capability Assessment Survey NFIP Survey Safe Growth Survey 	2:10 – 2:30
5.	Vision Statement and Review of Current Goals	2:30 – 2:40
6.	Exercise Results and Discussion	2:40 – 3:00
7.	 Planning Resources Local Mitigation Planning Handbook Mitigation Ideas: A Resource for Reducing Risk to Nature Integrating Hazard Mitigation Into Local Planning 	3:00 – 3:15 Iral Hazards
8.	Open Discussion Regional name Other issues, concerns or ideas	3:15 – 3:25
9.	Next Steps	3:25 – 3:30

Regional Hazard Mitigation Plan Kickoff Meeting (Alamance-Durham-Orange)

DATE: August 11, 2014

TIME: 1:30PM

LOCATION: Orange County Emergency Services, Hillsborough

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Craig Benedict	Cening & Boreliet
Dalton Sawyer	Randy Holling (for Dalton)
David Leonard	Sound I demand
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Hope Morgan	
Indira Everett	
James Groves	
Jason Shepherd	· · · · · ·
Jeff Reily	
John Crew	tey and
John Greene	
Josh Hollingsworth	
Kim Woodward	Lower Com

Kirby Saunders	Way
Leslie O'Connor	18ti O'Carreer
Mark Schell	Mach Schill Duryan Co. EM.
Matt Sullivan Matt La witchice	
Michael Gilbert	
Perdita Holtz Ashley Mon	cado Oshley Mirevolo
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Steve Powers	
Travis Crabtree	The Late
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Ryan Cox	Chipmilas NCEM
Welissa Guilbean	Metin Cos City of Evaham
John Payne c	Dere Actino
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Roger Manual	Brog- Coty of Bullhaton
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MARCUS BRYANT	Uit.
Sue Burke	Sue Burke Town of Chapel Hill

Regional Hazard Mitigation Plan

Project Kickoff Meeting/ Regional Planning Team Meeting #1

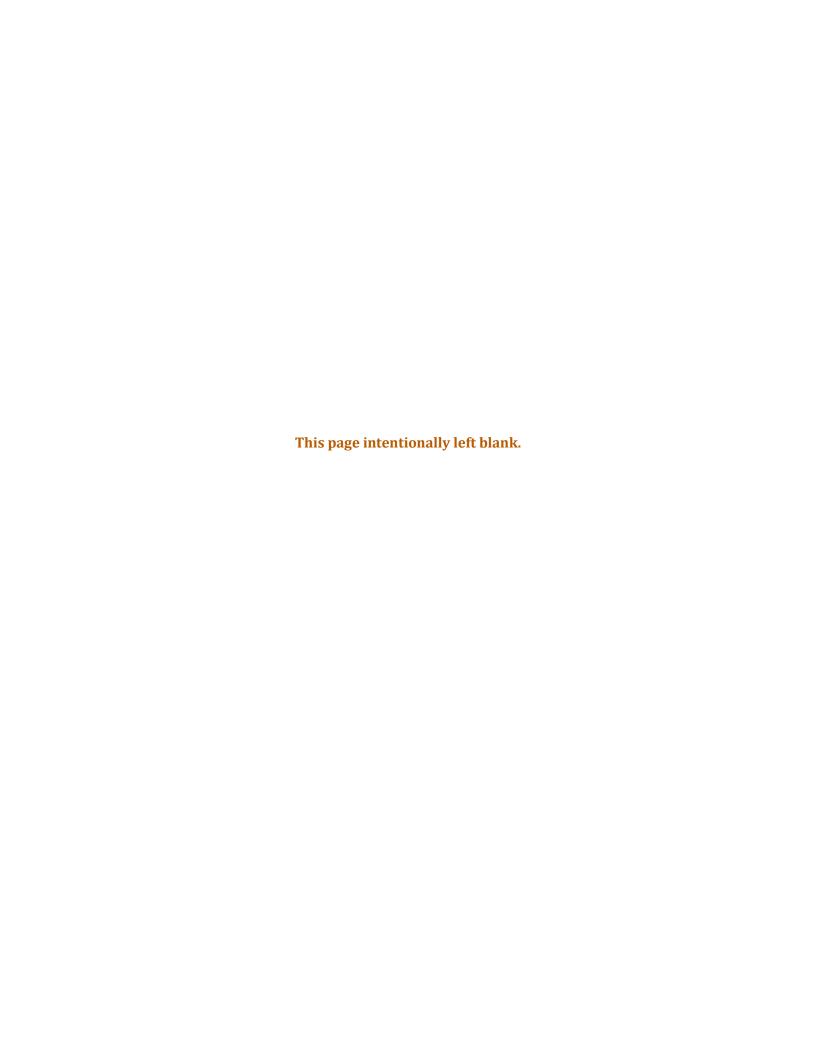
Monday, August 11, 2014 1:30 p.m. – 3:30 p.m. Orange County Emergency Services 510 Meadowlands Drive, Hillsborough, NC Emergency Coordination Center Room (ECC/EOC)

AGENDA

1.	Welcome and Introductions 1:30 – 1:4		
2.	Project Overview Purpose, scope and schedule Risk Management Tool (RMT) Roles and responsibilities 	1:40 – 2:05	
3.	Review and Discussion of Existing Plans	2:05 – 2:30	
4.	Plan Update and Integration Process	2:30 – 3:15	
5.	 Open Discussion Potential opportunities in regionalizing the plans Potential obstacles or barriers Naming the regional plan Other local issues, concerns or ideas 	3:15 – 3:25	
6.	Next Steps	3:25 – 3:30	

Appendix F: Project Information Fact Sheet

This appendix to the Eno-Haw Regional Hazard Mitigation Plan contains a copy of the project information fact sheet that was developed to communicate information about the project to the general public and stakeholders, and to provide talking points for Hazard Mitigation Planning Team members.



Eno-Haw Regional Hazard Mitigation Plan

Natural hazards have the potential to cause property damage, loss of life, economic hardship, and threats to public health and safety. Hazard mitigation measures are the things we do today to be more protected in the future. They are actions taken before a disaster happens to reduce the impact of future hazard events on people and property in the community. Mitigation reduces the risk of loss and creates a more resilient and sustainable community.

Project Overview

The counties of Alamance, Durham, and Orange, in coordination with their participating municipal jurisdictions, are preparing a **regional hazard mitigation plan** that will cover the three-county "Eno-Haw" area. The Eno-Haw Regional Hazard Mitigation Plan will identify local policies and actions for reducing risk and future losses from natural hazards such as floods, severe storms, wildfires, and winter weather. It will build upon the separate hazard mitigation plans initially prepared in each county.

The plan will also serve to meet key federal planning regulations which require local governments to develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance, including funding for hazard mitigation projects.

These mitigation planning requirements stem from the Disaster Mitigation Act of 2000, which was passed by the U.S. Congress in October of 2000. This Act amended federal law to require that all states and local governments must have hazard mitigation plans in place in order to be eligible to apply for funding under such programs as the Hazard Mitigation Grant Program (HMGP) and the Pre-Disaster Mitigation (PDM) program.

The Planning Process

The planning process for the Eno-Haw Regional Hazard Mitigation Plan will consist of six main phases described in detail in the following sections: public outreach, risk assessment, capability assessment, mitigation strategy development, plan maintenance, and plan adoption. The end result will be a new regional hazard mitigation plan based in part on the existing plans of the three separate counties and their jurisdictions and based in part on this new planning effort.



Above: The plan update process being followed for the Eno-Haw Regional Hazard Mitigation Plan.

Public Outreach

The goals of the public outreach strategy for this planning effort are to: generate public interest, solicit citizen input, and engage additional partners in the planning process.

Public outreach will include two open public meetings, a project information website located at http://www.readyorange.org, a web-based public participation survey located at https://www.surveymonkey.com/s/aodhazardmitigation (also accessible through the project information website), and updates and information shared via social media, such as on Facebook and Twitter.

Risk Assessment

The desired outcomes of a risk assessment are an evaluation of each hazard's potential impacts on the people, economy, and built and natural environments in the planning area plus an understanding of each participating jurisdiction's overall vulnerability and most significant risks. These potential impacts and a thorough understanding of the overall vulnerability can be used to create problem statements and identify and prioritize mitigation actions to reduce risk.

Capability Assessment

Each participating jurisdiction has a unique set of capabilities, including authorities, policies, programs, staff, funding, and other resources available to accomplish mitigation and reduce long-term vulnerability. By reviewing the existing capabilities in each jurisdiction, the planning team can identify capabilities that currently reduce disaster losses or could be used to reduce losses in the future.

Mitigation Strategy Development

The primary purpose of mitigation planning is to systematically identify policies, actions, and activities to reduce the impact that future natural hazard occurrences will have on people and property in the planning area. Mitigation strategy development includes long-range mitigation goals common to the planning area and short-term mitigation actions specific to each participating jurisdiction.

Plan Maintenance

Plan maintenance is the process established to track the plan's implementation and to aid in updating the plan every five years. These procedures help to ensure that the mitigation strategy is implemented according to the plan. They also provide the foundation for an ongoing mitigation program, standardize long-term monitoring of hazard-related activities, integrate mitigation principles into local officials' daily job responsibilities, and maintain momentum through continued engagement and accountability in the plan's progress.

Plan Adoption

Each participating jurisdiction seeking plan approval must adopt the plan. Adoption by the local governing body demonstrates the community's commitment to implementing the mitigation strategy and authorizes responsible agencies to execute their actions. The final plan is not approved until the community adopts the plan and FEMA receives documentation of formal adoption by the governing body of the jurisdictions requesting approval.

Project Leadership

This regional planning effort is being led by Orange County Emergency Services, with technical assistance from the State of North Carolina and consulting firm AECOM. A local Hazard Mitigation Planning Team made up of local officials, representatives, and stakeholders has been established to guide this process. In addition, local points of contact have been established for each of the three counties as well as all of the participating municipal jurisdictions. Planning committee meetings and open public meetings will be scheduled to occur at key points throughout the project timeline.

Schedule

The planning process began in July 2014 and a fully updated plan is expected to be ready for review by the North Carolina Division of Emergency Management and the Federal Emergency Management Agency by February 2015. Draft documents will be available on the project information website at various stages in the planning process.

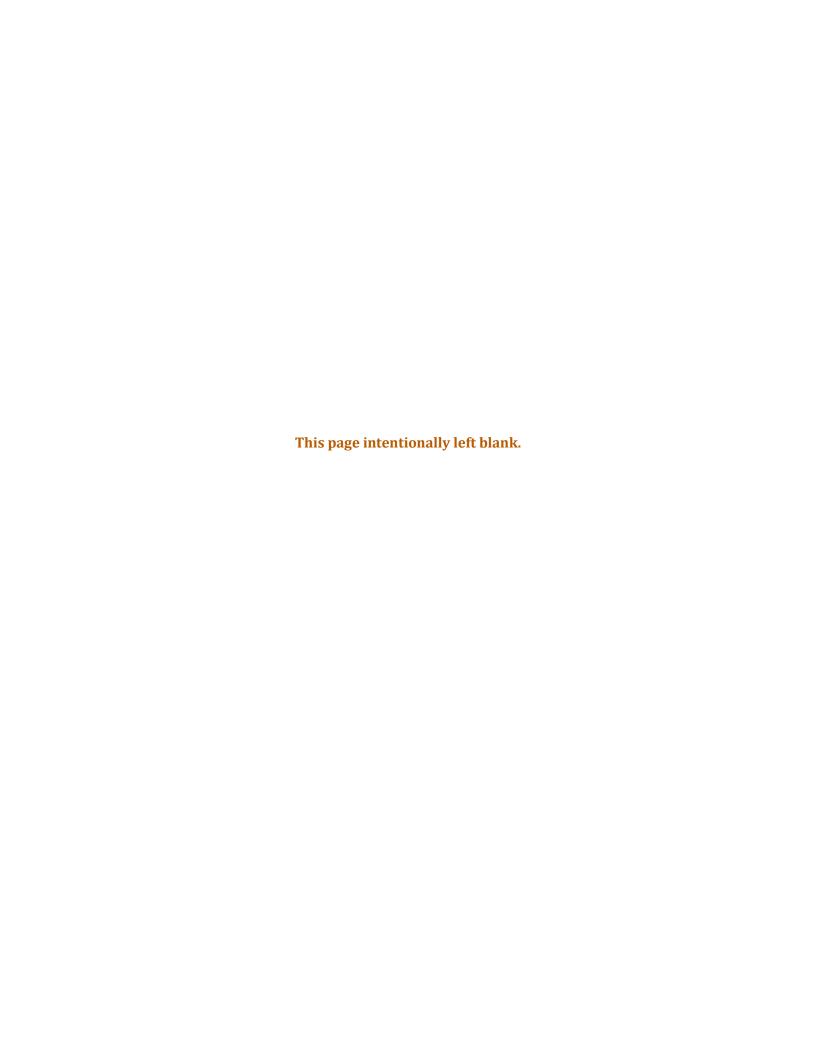
For More Information

To learn more about this project, or to find out how you can be involved, please contact Kirby Saunders, Orange County Emergency Services Coordinator, at (919) 245-6100 Ext. 6135 or ksaunders@orangecountync.gov.

Additional information and regular updates throughout the duration of this project can be found on the Eno-Haw Hazard Mitigation Planning website at http://www.readyorange.org.

Appendix G: Safe Growth Surveys

This appendix to the Eno-Haw Regional Hazard Mitigation Plan includes a copy of the Safe Growth *Survey* completed by the one jurisdiction that participated in this optional survey.



AOD Regional Hazard Mitigation Plan Update

SAFE GROWTH SURVEY

This survey instrument is designed to capture some general information for purposes of updating the *AOD Regional Hazard Mitigation Plan*. It has been adapted from a technique recommended by the American Planning Association and Federal Emergency Management Agency to help evaluate the extent to which each local jurisdiction in the three-county planning area of Alamance, Durham, and Orange counties is positioned to grow safely relative to its natural hazards. These hazards include but are not limited to dam failure, droughts and heat waves, earthquakes, floods, hurricanes, landslides, thunderstorms, severe winter storms, tornadoes, and wildfires.

This survey should be completed by appropriate planning, zoning and/or community development staff for each jurisdiction participating in the hazard mitigation plan update process. If you have any questions regarding this survey or the plan update process, please contact your Local Jurisdiction Lead who is currently serving on the multi-jurisdictional Planning Team. You may also contact Kirby Saunders, Orange County Emergency Management Coordinator, at 919.245.6100 Ext. 6135 or ksaunders@orangecountync.gov.

Please provide us with the following contact information.

Name / Title:	Patricia McGuire/Planning Director
Jurisdiction:	Town of Carrboro
Department:	Planning
Phone / E-mail:	919-918-7327/pmcguire@townofcarrboro.org

Please indicate how strongly you agree or disagree with the following statements as they relate to your jurisdiction's current plans, policies and programs for guiding future community growth and development.

1 = Strongly Disagree 2 = Somewhat Disagree 3 = Neutral 4 = Somewhat Agree 5 = Strongly Agree

GENE	GENERAL PLAN						
Land Use							
1.	The general plan includes a future land use map that clearly identifies natural hazard areas.	1	2	3	4	5	
2.	Current land use policies discourage development and/or redevelopment within natural hazard areas.	1	2	3	<u>4</u>	5	
3.	The general plan provides adequate space for expected future growth in areas located outside of natural hazard areas.	1	2	3	4	5	
Trans	Transportation						
4.	The transportation element limits access to natural hazard areas.	1	2	3	<u>4</u>	5	

5.	Transportation policy is used to guide future growth and development to safe locations.	1	2	3	4	5
6.	Transportation systems are designed to function under disaster conditions (e.g., evacuation, mobility for fire/rescue apparatus, etc.).	1	2	3	4	5
Envir	onmental Management					
7.	Environmental features that serve to protect development from hazards (e.g., wetlands, riparian buffers, etc.) are identified and mapped.	1	2	3	4	<u>5</u>
8.	Environmental policies encourage the preservation and restoration of protective ecosystems.	1	2	3	4	5
9.	Environmental policies provide incentives to development that is located outside of protective ecosystems.	1	2	<u>3</u>	4	5
Publi	c Safety					
10.	The goals and policies of the general plan are related to and consistent with those in the Multi-jurisdictional Hazard Mitigation Plan.	1	2	3	<u>4</u>	5
11.	Public safety is explicitly included in the plan's growth and development policies.	1	2	3	<u>4</u>	5
12.	The monitoring and implementation section of the plan covers safe growth objectives.	1	2	<u>3</u>	4	5
ZONI	NG ORDINANCE					
13.	The zoning ordinance conforms to the general plan in terms of discouraging development and/or redevelopment within natural hazard areas.	1	2	3	<u>4</u>	5
14.	The ordinance contains natural hazard overlay zones that set conditions for land use within such zones.	1	<u>2</u>	3	4	5
15.	Rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use.	1	2	<u>3</u>	4	5
16.	The ordinance prohibits development within, or filling of, wetlands, floodways, and floodplains.	1	2	3	<u>4</u>	5
		<u> </u>				

SUBDIVISION REGULATIONS							
17.	The subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas.	1	2	3	<u>4</u>	5	
18.	The regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources.	1	2	3	4	<u>5</u>	
19.	The regulations allow density transfers where hazard areas exist.	1	2	3	<u>4</u>	5	
CAPIT	TAL IMPROVEMENT PROGRAM AND INFRASTRUCTURE POLICIES						
20.	The capital improvement program limits expenditures on projects that would encourage development and/or redevelopment in areas vulnerable to natural hazards.	1	2	<u>3</u>	4	5	
21.	Infrastructure policies limit the extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards.	1	2	3	4	5	
22.	The capital improvements program provides funding for hazard mitigation projects identified in the Multi-jurisdictional Hazard Mitigation Plan.	1	2	3	4	5	
OTHE	R						
23.	Small area or corridor plans recognize the need to avoid or mitigate natural hazards.	1	2	3	<u>4</u>	5	
24.	The building code contains provisions to strengthen or elevate new or substantially improved construction to withstand hazard forces.	1	2	3	<u>4</u>	5	
25.	Economic development and/or redevelopment strategies include provisions for mitigating natural hazards or otherwise enhancing social and economic resiliency to hazards.	1	2	<u>3</u>	4	5	

Thank you for your assistance in completing this survey. Please submit a completed, scanned copy to Kirby Saunders, Orange County Emergency Management Coordinator, at ksaunders@orangecountync.gov or by fax to (919) 732-8137.