

### Project Information Website

### Project Information Fact Sheet

### Online Public Participation Survey

### Planning Resources

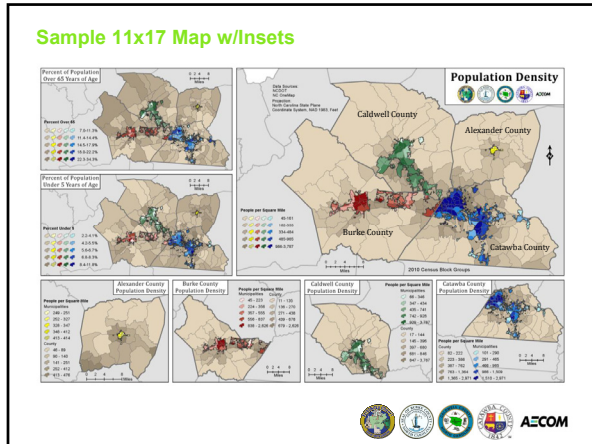
- FEMA mitigation planning guidance
  - Local Mitigation Planning Handbook
  - Mitigation Ideas
  - Integrating Hazard Mitigation Into Local Planning
- Links to other online planning resources

### Hazard Identification Exercise and Risk Assessment Recommendations

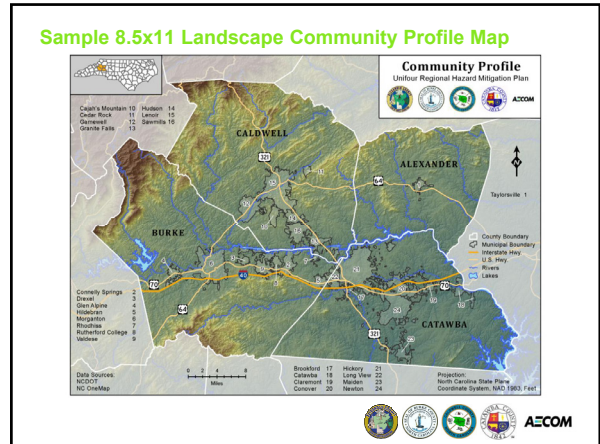
### "Mayor For the Day"

- Dam/levee failure
- Drought/extreme heat
- Earthquake
- Erosion
- Flood
- Hail
- Hurricane
- Landslide
- Lightning
- Nor'easter
- Thunderstorm
- Tornado
- Wildfire
- Winter weather

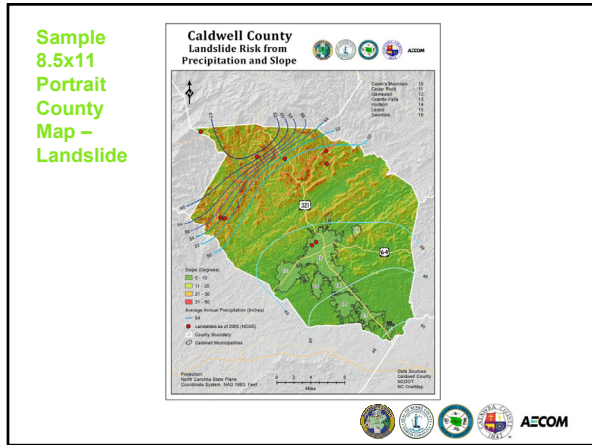
Sample 11x17 Map w/Insets



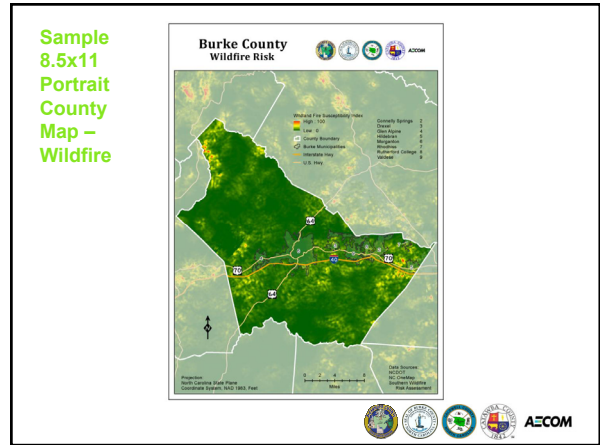
Sample 8.5x11 Landscape Community Profile Map



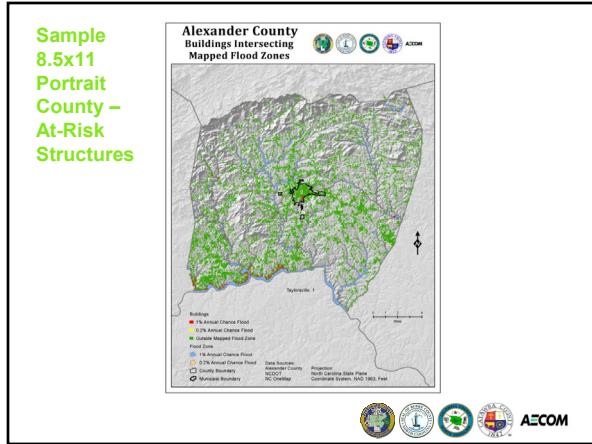
Sample 8.5x11 Portrait County Map – Landslide



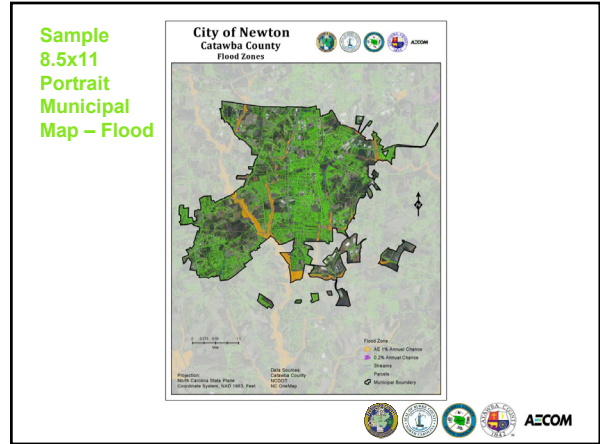
Sample 8.5x11 Portrait County Map – Wildfire



Sample 8.5x11 Portrait County – At-Risk Structures



Sample 8.5x11 Portrait Municipal Map – Flood



## Capability Assessment/ Safe Growth Survey

### Capability Assessment Survey

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education and outreach capability
- Political capability
- Self assessment
- Deadline



### Safe Growth Survey

- Comprehensive Plan
  - Land use
  - Transportation
  - Environmental management
  - Public safety
- Zoning ordinance
- Subdivision regulations
- Capital improvement program and infrastructure policies
- Other



## Vision Statement and Mitigation Goals

### Vision Statement

- Captures the overall purpose of the planning process
- Expresses the outcome that the participating jurisdictions seek to accomplish as the plan is implemented
- Helps drive the planning process
- Unites the planning team around a common purpose
- Provides a foundation for the rest of the planning process
- Communicates the reason for the plan to stakeholders, elected officials and the public



### Vision Statement

*“Through a cohesive regional planning effort, create and implement an effective hazard mitigation plan that will identify and reduce risk to natural hazards in order to protect the health, safety, quality of life, environment and economy of the Unifour area.”*



## Mitigation Goals

ALEXANDER	BURKE	CALDWELL	CATAWBA
Strategy Elements		Strategies	
Mitigation Goals	Planning Goals	Community Goals	Mitigation Goals
	Plan Objectives	Hazard Mitigation Objectives	
Action Plans (similar to implementation plans)			
Detailed goals (similar to projects or actions)	Hazard mitigation activities	Mitigation Strategies (similar to actions)	Mitigation Actions

- Goals: Long-term policy type statements
- Objectives: Define specific steps needed to achieve goals
- Actions: Specific, usually short-term, projects or activities



## Data Collection Progress

## Data Collection Status

- Received data for Alexander, Caldwell and Catawba counties
- GIS data collection "wish list"
  - Political boundaries
  - Parcel boundaries and tax information
  - Buildings, infrastructure and critical facilities
  - Transportation
  - Land use
  - Hazard data
- Use same communication channels
- Best readily available data in usable format
- NC OneMap



## Open Discussion

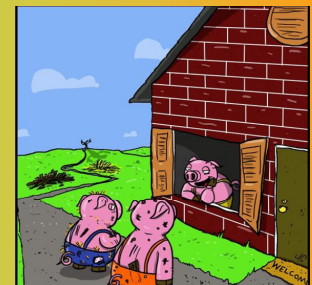
## Next Steps

- Data collection (through July 31)
- Final draft risk assessment results
- Final draft capability assessment results
- Next meeting (Mitigation Strategy Workshop)



## Thank You

mike.robinson@aecom.com  
darrin.punchard@aecom.com



"Mitigation isn't so funny now, is it?"



# **Unifour Regional Hazard Mitigation Plan**

## **Hazard Mitigation Planning Committee Meeting #3**

October 1, 2013

10:00 a.m. – 2:00 p.m.

Western Piedmont Council of Governments

1880 2nd Ave. NW, Hickory

Conference Room A1

### **AGENDA**

- |                                    |               |
|------------------------------------|---------------|
| 1. Welcome and Introductions       | 10:00 – 10:10 |
| 2. Risk Assessment Results         | 10:10 – 11:40 |
| 3. Capability Assessment Results   | 11:40 – 12:00 |
| 4. Pizza Break                     | 12:00 – 12:20 |
| 5. Update on Public Outreach       | 12:20 – 12:30 |
| 6. Mitigation Strategy Development | 12:30 – 1:45  |
| 7. Open Discussion                 | 1:45 – 1:55   |
| 8. Next Steps                      | 1:55 – 2:00   |

Unifour Regional Hazard Mitigation Plan  
HMPC Meeting #3 - October 1, 2013

NAME	TITLE / AFFILIATION	PHONE	E-MAIL
Barbara Harmon	Town Manager - Rhodhiss	828-396-8460	bh.rhodhiss@yahoo.com
Greg Wilson	Town Planner - Granite Falls	828-396-3131	wilson@granitefallsnc.com
Kenneth A. Teague	CALDWELL COUNTY - EM	828-757-1419	kteague@caldwellcounty.nc.org
Charles Mullis	Town Planner - Long View	828-322-3921	charles.mullis@mail.ci.longview.nc.us
BROCK HALL	BURKE COUNTY COMMUNITY DEVELOPMENT	828-764-9030	brock.hall@burkenc.org
LANCE HIGHT	CONOVER	828-469-1171	LANCE.HIGHT@CONOVER.NC.GOV
Elmar Hiltz	planner Sawmills Rutherford College	828- <del>845</del> <sup>485</sup> -4248	elmar.hiltz@wpcog.org
Col Overby	Principal Planner City of Hickory	328-323-7437	coverb@hickorync.gov
Karyn Yaussy	Catawba Co EM	828-465-8989	KYaussy@CatawbaCountyNC.gov
Alex Fulbright	Asst. Planning Director Newton, NC	828 6954326	afulbright@newtownnc.gov

Unifour Regional Hazard Mitigation Plan  
 HMPC Meeting #3 - October 1, 2013

NAME	TITLE / AFFILIATION	PHONE	E-MAIL
LEE ANDERSON	DIR DEVELOPMENT & DESIGN MORRANTON	(828) 438-5270	landerson@ci.morganton.nc.us
Kimberly Edmister	PIO/LOPR/PR Director Caldwell Memorial Hospital	(828) 757-5423 (828) 406-5314	kedmister@caldwell-mem.org
Jimmy Orum	Property Chief Rhodhiss Fire Dept	(828) 493-1916	rhodhissfire@yahoo.com
Jon Pilkerton	Planner / WPCOG Hillsboro Greenville, Taylorsville, Hudson	828-485-4225	jon.pilkerton@wpcog.org
Mike Long	Burke County Emergency Management	828-764-9321	mike.long@burke.nc.gov
CHARLES WATTS	VALDESE FIRE DEPT	828-877-2103	cwatts@ci.valdese.nc.us
William Bump	CLAREMONT Fire Dept	828-419-9296	wbump@ci.claremont.nc.us
GEORGE GALLER	Duke ENERGY	704-382-5236	george.galler@duke-energy.com
ROBINE NICHOLSON	Duke ENERGY	828-323-2833	Robine.Nicholson@Duke-ENERGY.COM
John Marshall	WPCOG	828-485-4232	johnmarshall@wpcog.org

Unifour Regional Hazard Mitigation Plan  
HMPC Meeting #3 - October 1, 2013

NAME	TITLE / AFFILIATION	PHONE	E-MAIL
Laurie Loggers	Valdosta - Asst. Planner Claremont City Planner	828 485 4240	laurie.bradshaw@wpcog.org
Shelley Stevens	Town of Catawba - Town Planner	828-485-4236	Shelley.Stevens@wpcog.org
Russell Greene	Emergency Services Alexander County	828 632-9330	rsgreen@alexandercounty.nc.gov



# Unifour Regional Hazard Mitigation Plan

## HMPC Meeting #3

**AECOM**

Mike Robinson, Lead Planner  
William Hague, GIS Specialist

October 1, 2013



### Agenda

- Welcome and introductions
- Risk assessment results
- Capability assessment results
- Pizza break
- Public outreach update
- Mitigation strategy development
- Open discussion
- Next steps



### Handouts

- Meeting agenda
- Meeting sign-in sheet
- Results tables
- Maps (for circulation)



## Risk Assessment Results

### Planning Area



### Hazards Being Addressed

- Hydrologic Hazards (Water Hazards)
  - Flood
  - Erosion
  - Dam/Levee Failure
  - Drought/Extreme Heat
- Atmospheric Hazards (Severe Storms)
  - Thunderstorm, Lightning, and Hail
  - Tornado
  - Winter Weather
  - Hurricane and Tropical Storm
- Geologic Hazards
  - Landslide
  - Earthquake
  - Sinkhole
- Other Hazards
  - Wildfire



## Major Disaster Declarations

• 10 since 1974

Event	Declaration Date	Declaration Number	County(s) in the Planning Area Declared
Tornadoes	04/12/1974	DR-428	Burke, Caldwell
Severe Storms and Flooding	11/09/1977	DR-542	Burke, Caldwell, Catawba
Tornadoes	05/10/1989	DR-827	Catawba
Hurricane Hugo	09/25/1989	DR-844	Alexander, Burke, Caldwell, Catawba
Blizzard of '96	01/13/1996	DR-1087	Alexander, Burke, Caldwell, Catawba
Storms/Flooding	02/23/1996	DR-1103	Alexander, Burke, Caldwell, Catawba
Severe Ice Storm	12/12/2002	DR-1648	Alexander, Burke, Caldwell, Catawba
Tropical Storm Frances	09/10/2004	DR-1545	Alexander, Burke, Caldwell, Catawba
Hurricane Ivan	09/18/2004	DR-1553	Burke, Caldwell
Severe Winter Storms and Flooding	02/02/2010	DR-1871	Burke, Caldwell

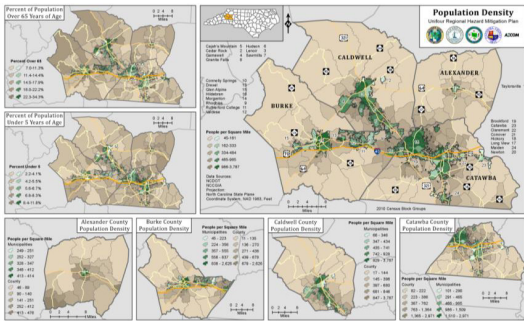


## Population Inventory

Jurisdiction	2010 Census Population	Elderly (Age 65 and Over)	Children (Age 5 and Under)
Alexander County (Unincorporated Area)	35,100	5,102	2,055
Taylorville	2,098	325	154
<b>Subtotal Alexander</b>	<b>37,198</b>	<b>5,427</b>	<b>2,209</b>
Burke County (Unincorporated Area)	59,578	8,865	3,085
Connelly Springs	1,669	399	86
Drexel	1,858	398	94
Glen Alpine	1,517	255	104
Hildebran	2,023	398	118
Morganton	16,918	3,079	1,150
Valdese	4,490	900	265
Rutherford College	1,341	234	78
<b>Subtotal Burke</b>	<b>90,912</b>	<b>14,673</b>	<b>5,068</b>
Caldwell County (Unincorporated Area)	48,501	6,341	2,264
Cajah's Mountain	2,823	519	184
Cedar Rock	120	93	7
Gamewell	4,051	625	215
Granite Falls	4,722	667	332
Hudson	3,776	655	204
Lenoir	18,228	3,373	1,109
Rhodhiss	1,070	149	67
Swamis	5,340	697	302
<b>Subtotal Caldwell</b>	<b>83,029</b>	<b>12,816</b>	<b>4,645</b>
Catawba County (Unincorporated Area)	83,533	11,124	4,809
Brookford	382	72	18
Catawba	603	130	27
Claremont	1,952	396	77
Conover	8,165	1,389	563
Hickory	40,010	5,733	2,719
Long View	4,871	770	343
Malden	3,310	456	208
Newton	12,668	2,056	955
<b>Subtotal Catawba</b>	<b>154,358</b>	<b>21,773</b>	<b>8,670</b>
<b>TOTAL UNIFORM</b>	<b>365,497</b>	<b>54,889</b>	<b>21,592</b>



## Population Inventory



## Parcels and Buildings

Jurisdiction	Parcel Count	Building Count	Building Value
Alexander County	22,700	45,332	\$1,347,565,360
Taylorville	1,276	1,964	\$135,874,552
<b>Subtotal Alexander</b>	<b>23,976</b>	<b>47,296</b>	<b>\$1,483,439,912</b>
Burke County	40,817	32,589	\$2,104,478,844
Connelly Springs	1,238	862	\$38,744,312
Drexel	866	269	\$77,219,976
Glen Alpine	945	723	\$38,307,512
Hildebran	1,509	1,058	\$93,714,888
Morganton	7,818	7,468	\$991,255,959
Valdese	796	713	\$60,761,106
Rutherford College	2,896	2,073	\$246,273,313
<b>Subtotal Burke</b>	<b>56,355</b>	<b>46,255</b>	<b>\$3,691,308,769</b>
Caldwell County	30,945	26,257	\$1,699,124,250
Cajah's Mountain	1,519	1,536	\$112,883,900
Cedar Rock	230	140	\$37,048,600
Gamewell	1,976	2,658	\$325,891,900
Granite Falls	2,609	1,997	\$269,868,250
Hudson	1,943	1,665	\$244,247,500
Lenoir	10,001	8,631	\$1,090,318,404
Rhodhiss	199	182	\$7,519,300
Swamis	2,843	2,613	\$161,156,600
<b>Subtotal Caldwell</b>	<b>51,530</b>	<b>45,282</b>	<b>\$3,662,721,835</b>
Catawba County	51,668	86,663	\$4,943,884,600
Brookford	288	465	\$15,166,700
Catawba	569	745	\$50,115,900
Claremont	964	1,132	\$19,177,000
Conover	4,383	5,178	\$698,896,200
Hickory	17,953	20,228	\$3,249,206,200
Long View	2,341	3,109	\$375,342,000
Malden	2,040	2,884	\$210,768,400
Newton	6,473	8,577	\$847,798,000
<b>Subtotal Catawba</b>	<b>87,132</b>	<b>120,654</b>	<b>\$10,481,702,044</b>
<b>TOTAL UNIFORM</b>	<b>218,993</b>	<b>277,045</b>	<b>\$19,318,972,559</b>

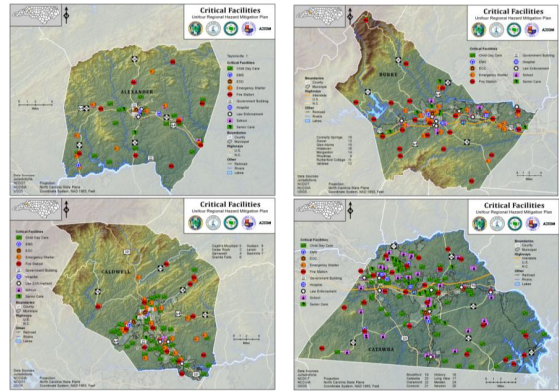


## Critical Facilities

Jurisdiction	City/Cent	EMS	EOCs	Fire Stations	Govt Buildings	Hospitals	Police Stations	Schools	Senior Care	Shelters
Alexander County	21	2	0	9	6	0	0	8	3	9
Taylorville	4	0	1	1	15	1	2	2	2	2
<b>Subtotal Alexander</b>	<b>25</b>	<b>2</b>	<b>1</b>	<b>10</b>	<b>21</b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>5</b>	<b>11</b>
Burke County	2	0	0	17	0	0	0	12	6	13
Connelly Springs	0	0	0	1	0	0	0	0	0	0
Drexel	0	0	0	1	0	0	1	1	1	2
Glen Alpine	1	0	0	1	0	0	1	1	0	1
Hildebran	1	0	0	1	0	0	1	1	1	3
Morganton	2	1	0	3	0	0	4	11	5	10
Valdese	1	0	0	2	0	0	1	3	1	3
Rutherford College	0	0	0	2	0	0	3	3	0	3
<b>Subtotal Burke</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>30</b>	<b>14</b>	<b>28</b>
Caldwell County	26	3	0	6	0	0	11	8	12	12
Cajah's Mountain	0	1	0	1	1	0	0	0	1	0
Cedar Rock	0	0	0	0	0	0	0	0	0	0
Gamewell	7	1	0	1	1	0	0	2	0	2
Granite Falls	6	1	0	1	1	0	1	2	1	2
Hudson	5	1	0	1	1	0	2	5	0	3
Lenoir	24	1	2	3	11	1	2	6	7	7
Rhodhiss	0	0	0	2	0	0	1	0	0	0
Swamis	6	0	0	1	1	0	0	1	0	2
<b>Subtotal Caldwell</b>	<b>74</b>	<b>6</b>	<b>2</b>	<b>15</b>	<b>16</b>	<b>1</b>	<b>6</b>	<b>27</b>	<b>10</b>	<b>28</b>
Catawba County	54	4	0	0	0	0	0	18	0	10
Brookford	0	0	0	0	0	0	1	0	0	0
Catawba	3	1	0	1	0	0	1	1	0	1
Claremont	4	0	0	1	0	0	1	1	1	1
Conover	12	0	0	3	0	0	1	1	4	3
Hickory	39	1	0	5	0	0	2	9	8	12
Long View	5	0	0	1	0	0	1	2	0	2
Malden	5	0	0	1	0	0	1	3	0	2
Newton	17	1	0	3	0	0	1	5	3	6
<b>Subtotal Catawba</b>	<b>139</b>	<b>7</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>40</b>	<b>16</b>	<b>45</b>
<b>TOTAL UNIFORM</b>	<b>238</b>	<b>22</b>	<b>1</b>	<b>83</b>	<b>37</b>	<b>6</b>	<b>24</b>	<b>107</b>	<b>45</b>	<b>112</b>

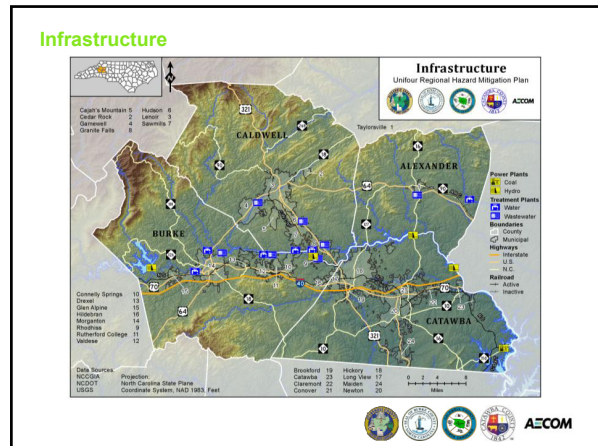


## Critical Facilities



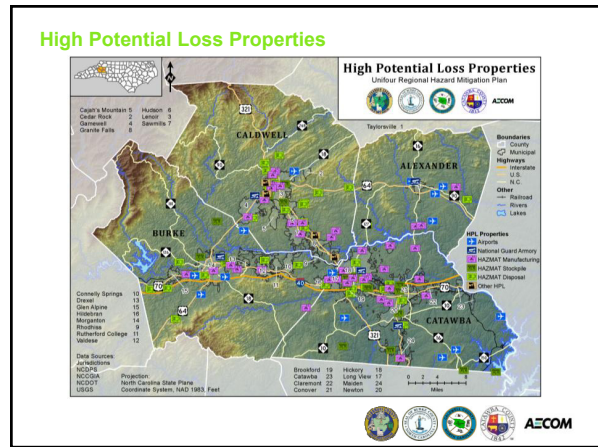
### Infrastructure

Jurisdiction	Major Roads	Railroad	Power Plants	Water/Wastewater Facilities	Water/Wastewater Lines
Alexander County	51.8	8.0	0	1	384.6
Taylorville	4.3	1.7	0	1	43.5
<b>Subtotal Alexander</b>	<b>56.1</b>	<b>9.7</b>	<b>0</b>	<b>2</b>	<b>428.1</b>
Burke County	139.5	18.0	1	1	362.8
Connelly Springs	2.1	1.8	0	0	8.2
Drewel	0.6	1.0	0	0	30.2
Glen Alpine	1.2	1.3	0	0	15.6
Hildebran	1.9	1.9	0	0	34.6
Morganton	31.4	7.7	0	2	307.2
Valdese	2.5	0.6	0	0	103.2
Rutherford College	3.2	2.5	0	0	21.1
<b>Subtotal Burke</b>	<b>282.4</b>	<b>34.8</b>	<b>1</b>	<b>3</b>	<b>882.9</b>
Caldwell County	95.8	1.5	1	2	397.6
Cajah's Mountain	0.0	0.0	0	0	31.1
Cedar Rock	0.0	0.0	0	0	6.3
Gamewell	3.2	0.0	0	0	9.8
Granite Falls	6.1	3.2	0	1	96.2
Hudson	7.5	2.5	0	0	72.9
Lenoir	21.2	12.1	0	3	337.1
Rhoads	0.0	0.6	0	1	8.6
Sawmills	4.4	2.4	0	0	20.1
<b>Subtotal Caldwell</b>	<b>238.2</b>	<b>22.3</b>	<b>1</b>	<b>7</b>	<b>891.3</b>
Catawba County	119.2	41.3	2	-	-
Brookford	1.6	0.0	0	-	-
Catawba	2.3	5.1	0	-	-
Claremont	2.6	3.9	0	-	-
Conover	17.8	9.1	0	-	-
Hickory	32.2	11.7	0	-	-
Long View	5.0	2.2	0	-	-
Maiden	6.0	0.0	0	-	-
Newton	14.6	4.8	0	-	-
<b>Subtotal Catawba</b>	<b>201.3</b>	<b>78.2</b>	<b>2</b>	<b>-</b>	<b>12.5</b>
<b>TOTAL UNIFOUR</b>	<b>578.0</b>	<b>141.8</b>	<b>4</b>	<b>14</b>	<b>2,214.8</b>



### High Potential Loss Properties

Jurisdiction	Airports	Dams	Military Facilities	Hazardous Materials Sites	Other
Alexander County	4	42	0	0	0
Taylorville	0	1	0	0	0
<b>Subtotal Alexander</b>	<b>4</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>0</b>
Burke County	0	37	0	0	0
Connelly Springs	0	0	0	0	0
Drewel	0	0	0	0	0
Glen Alpine	0	0	0	0	0
Hildebran	0	0	0	0	0
Morganton	0	1	6	1	10
Valdese	0	0	0	0	2
Rutherford College	0	0	0	0	0
<b>Subtotal Burke</b>	<b>0</b>	<b>43</b>	<b>0</b>	<b>1</b>	<b>24</b>
Caldwell County	2	32	0	0	77
Cajah's Mountain	0	0	0	0	0
Cedar Rock	0	0	0	0	0
Gamewell	0	2	0	0	2
Hudson	0	1	0	0	1
Lenoir	0	4	0	0	3
Rhoads	0	0	0	0	24
Sawmills	0	1	0	0	2
<b>Subtotal Caldwell</b>	<b>2</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>38</b>
Catawba County	5	74	0	0	16
Brookford	0	1	0	0	0
Catawba	0	2	0	0	0
Claremont	0	0	0	0	1
Conover	0	1	0	0	0
Hickory	1	5	1	23	1
Long View	0	0	0	0	0
Maiden	0	2	1	5	0
Newton	0	2	1	5	0
<b>Subtotal Catawba</b>	<b>6</b>	<b>87</b>	<b>2</b>	<b>34</b>	<b>17</b>
<b>TOTAL UNIFOUR</b>	<b>15</b>	<b>213</b>	<b>0</b>	<b>1</b>	<b>41</b>



### Historic Properties

Jurisdiction	Districts	Buildings	Other
Alexander County	0	1	0
Taylorville	0	0	0
<b>Subtotal Alexander</b>	<b>0</b>	<b>1</b>	<b>0</b>
Burke County	0	6	3
Connelly Springs	0	0	0
Drewel	0	0	0
Glen Alpine	0	0	0
Hildebran	0	0	0
Morganton	0	25	1
Valdese	0	2	0
Rutherford College	0	0	0
<b>Subtotal Burke</b>	<b>0</b>	<b>34</b>	<b>4</b>
Caldwell County	2	7	0
Cajah's Mountain	0	0	0
Cedar Rock	0	0	0
Gamewell	0	0	0
Hudson	0	0	0
Lenoir	1	44	0
Rhoads	0	0	0
Sawmills	0	0	0
<b>Subtotal Caldwell</b>	<b>2</b>	<b>51</b>	<b>0</b>
Catawba County	6	21	1
Brookford	0	0	0
Catawba	1	0	0
Claremont	0	0	0
Conover	0	1	1
Hickory	5	15	0
Long View	0	1	0
Maiden	0	2	0
Newton	3	7	0
<b>Subtotal Catawba</b>	<b>6</b>	<b>47</b>	<b>1</b>
<b>TOTAL UNIFOUR</b>	<b>8</b>	<b>88</b>	<b>1</b>

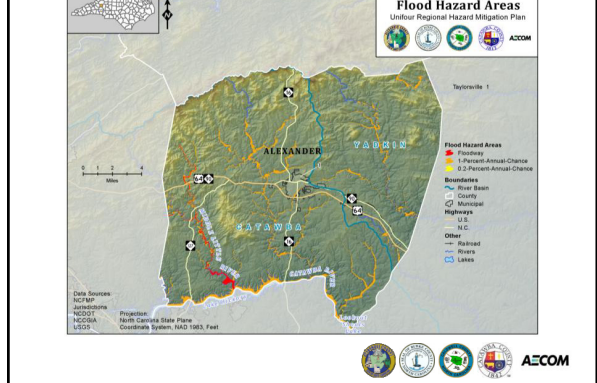
### Basic Assumptions

- That the hazard data is accurate
- That the built environment data (building footprints, parcel data, etc.) is accurate

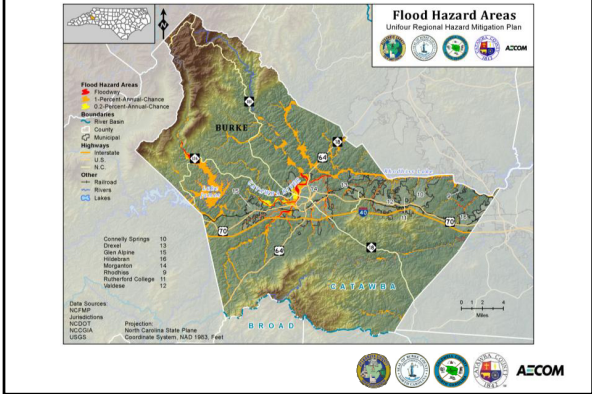
### Flood Hazard Map (Regional)



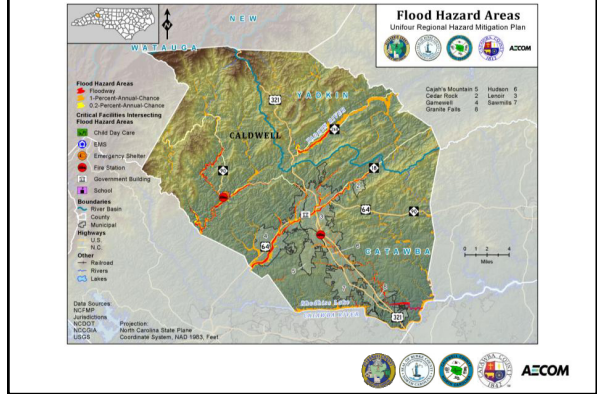
### Flood Hazard Map (County Level)



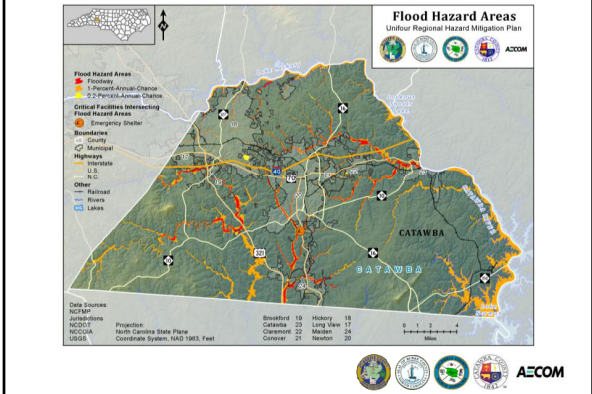
### Flood Hazard Map (County Level)



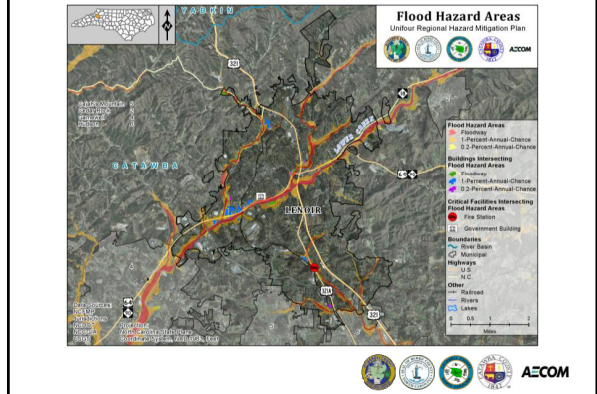
### Flood Hazard Map (County Level)



### Flood Hazard Map (County Level)



### Flood Hazard Map (Municipal Level)

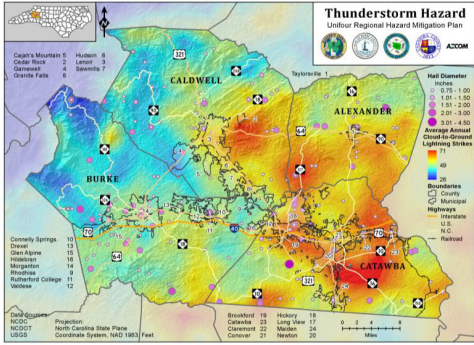








### Thunderstorm, Lightning, and Hail Hazard Map



### Thunderstorm, Lightning, and Hail Hazard History

- Regional summary of historical occurrences (NCDc)
  - 764 recorded instances of thunderstorm, lightning, and hail conditions since 1996
  - \$13,649,000 in reported property losses
  - \$0 in reported crop losses
  - 0 deaths
  - 19 injuries

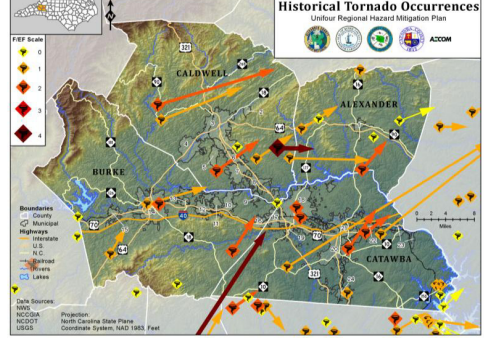


### Thunderstorm, Lightning, and Hail Hazard History

Jurisdiction	Number of Thunderstorm High Wind Events	Number of Lightning Events	Number of Hail Events	Deaths	Injuries	Reported Property Damage	Reported Crop Damage
Alexander County	43	3	16	0	2	\$263,000	\$0
Taylorsville	23	3	20	0	0	\$1,300,000	\$0
Subtotal Alexander	66	6	36	0	2	\$1,563,000	\$0
Burke County	40	2	23	0	1	\$1,040,000	\$0
Connelly Springs	3	0	1	0	0	\$0	\$0
Drexel	2	0	5	0	0	\$0	\$0
Glen Alpine	6	2	14	0	1	\$50,000	\$0
Hildebran	1	1	4	0	1	\$0	\$0
Morganton	42	8	62	0	11	\$183,000	\$0
Valdese	4	0	3	0	0	\$0	\$0
Rutherford College	3	1	2	0	1	\$25,000	\$0
Subtotal Burke	101	14	114	0	15	\$1,298,000	\$0
Caldwell County	32	2	42	0	0	\$200,000	\$0
Cajah's Mountain	0	0	0	0	0	\$0	\$0
Cedar Rock	0	0	0	0	0	\$0	\$0
Gamewell	1	0	3	0	0	\$0	\$0
Granite Falls	6	1	7	0	0	\$20,000	\$0
Hudson	2	1	0	0	0	\$100,000	\$0
Lenoir	29	4	27	0	0	\$137,000	\$0
Rhodhiss	1	0	0	0	0	\$0	\$0
Spartanburg	3	0	3	0	0	\$1,000	\$0
Subtotal Caldwell	74	8	78	0	0	\$260,000	\$0
Catawba County	38	4	17	0	0	\$115,000	\$0
Brookford	0	0	3	0	0	\$0	\$0
Catawba	8	0	6	0	0	\$20,000	\$0
Clarendon	33	2	8	0	1	\$85,000	\$0
Conover	8	2	9	0	0	\$11,000	\$0
History	45	10	29	0	1	\$440,000	\$0
Long View	4	0	5	0	0	\$10,000	\$0
Maiden	8	0	14	0	0	\$1,000	\$0
Newton	19	2	16	0	0	\$10,000	\$0
Subtotal Catawba	140	20	107	0	2	\$1,078,000	\$0
TOTAL UNIFORM	381	48	355	0	19	\$3,949,000	\$0



### Tornado Hazard Map

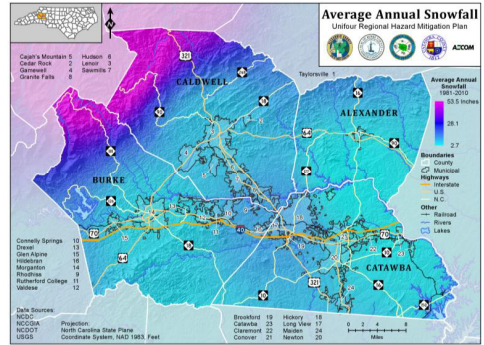


### Tornado Hazard History

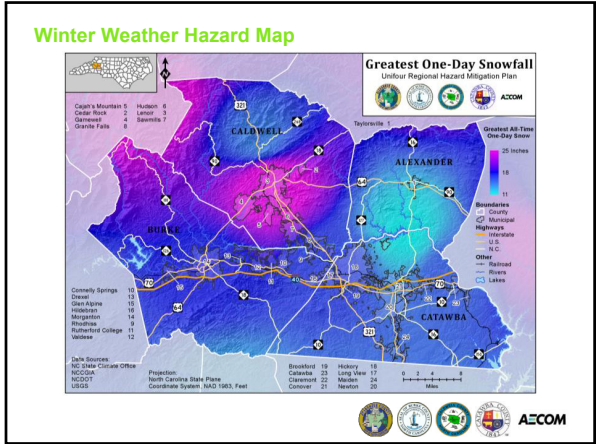
- Regional summary of historical occurrences (NCDc)
  - 36 recorded instances of tornadoes since 1950
  - \$50,089,000 in reported property losses
  - \$0 in reported crop losses
  - 0 deaths
  - 17 injuries
  - Highest magnitude: F4 (Caldwell County and Catawba County)
  - Lowest magnitude: F0



### Winter Weather Hazard Map

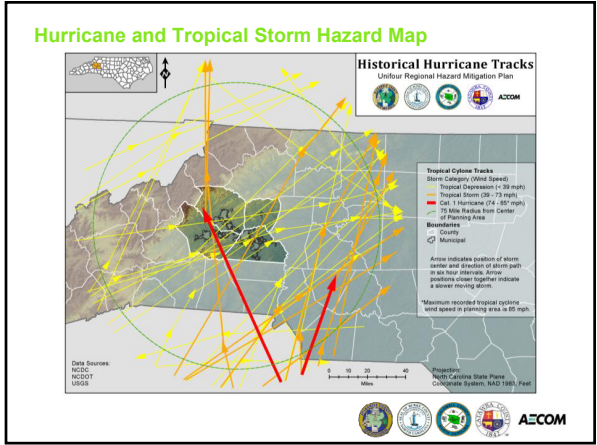






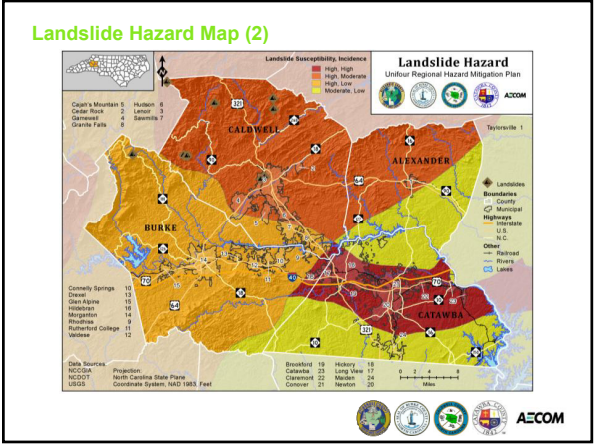
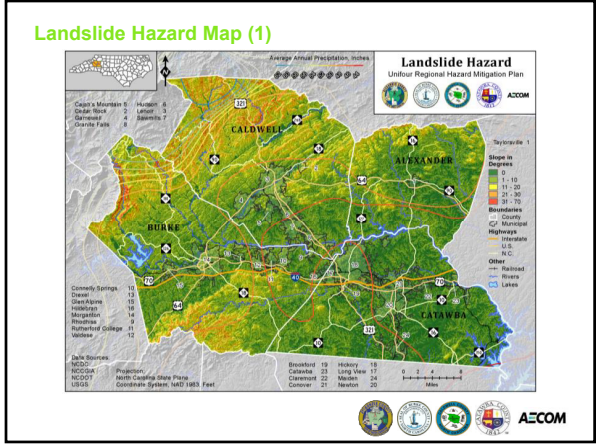
### Winter Weather Hazard History

- Regional summary of historical occurrences (NCDC)
  - 64 recorded instances of winter weather since 1996
    - 31 general winter weather events, 3 frost/freeze events, 23 heavy snow events, and 7 sleet events
  - Less than \$5,000 in reported property losses
  - \$1 million in reported crop losses (due to freezes)
  - 0 deaths
  - 0 injuries



### Hurricane and Tropical Storm Hazard History

- Regional summary of historical occurrences (NHC)
  - 34 hurricane and tropical storm paths have crossed within a 75 statute mile radius of the mean center of the planning area from 1859 to 2011
    - 1 Category 1 storm (Unnamed in 1893)
    - 1 Category 2 storm (Hugo in 1989)

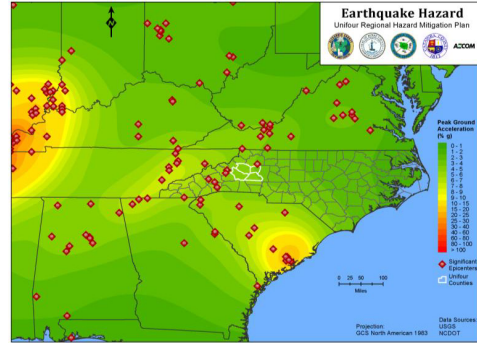


### Landslide Hazard History

- Regional summary of historical occurrences (local data)
  - 4 recorded instances of landslides since 2003



### Earthquake Hazard Map



### Earthquake Hazard History

- Regional summary of historical occurrences (NGDC)
  - 10 recorded instances of earthquake activity since 1886
  - Earliest known event was in 1886 (MMI VI, 337 miles from epicenter)
  - Most recent event was in 1976 (MMI II, 109 miles from epicenter)

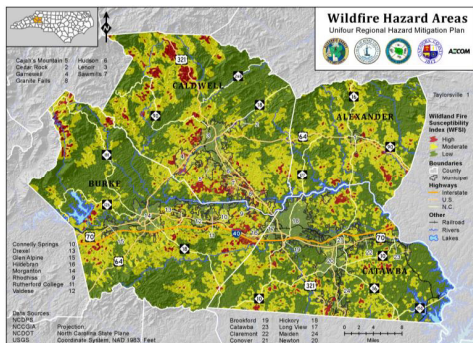


### Sinkhole Hazard

- No official recorded instances
- No hazard mapping data available
- We do have definitions provided by NCGS for four sinkhole types/causes that we can use for narrative write-up
  - Geologic related to dissolving of limestone or other carbonate rocks
  - Debris decomposition
  - Failure of buried infrastructure
  - Mine collapse



### Wildfire Hazard Map



### Wildfire Hazard Exposure (High Risk)

Jurisdiction	Number of Developed Parcels At Risk		Number of Undeveloped Parcels At Risk		Number of Buildings At Risk		Value of Buildings At Risk		Population At Risk		Elderly Population At Risk		Children At Risk	
	Count	Pct	Count	Pct	Count	Pct	Count	Pct	Count	Pct	Count	Pct	Count	Pct
Alexander County	981	6.03%	337	5.29%	1,735	3.83%	\$87,106,340	1,787	5.09%	188	3.68%	100	4.87%	
Talbotville	82	3.05%	9	3.89%	34	1.79%	\$4,124,643	20	0.91%	1	0.19%	3	1.95%	
Subtotal Alexander	1,063	5.85%	346	5.24%	1,769	3.94%	\$91,230,983	1,807	4.88%	189	3.30%	103	4.66%	
Burke County	2,953	12.31%	1,529	8.81%	2,708	6.20%	\$73,236,098	4,248	11.1%	668	12.7%	218	7.07%	
Conroy Springs	60	8.89%	28	4.97%	39	4.52%	\$7,466,477	65	3.8%	18	6.21%	3	3.49%	
Dowell	167	24.67%	43	22.75%	84	10.92%	\$29,281,989	194	10.4%	24	6.03%	8	8.51%	
Older Spring	0	0.00%	0	0.00%	0	0.00%	\$0	0	0.00%	0	0.00%	0	0.00%	
Hildebran	293	36.35%	88	33.46%	223	21.08%	\$26,772,702	232	11.47%	32	8.09%	8	6.78%	
Moqueton	2	0.03%	2	0.11%	12	0.41%	\$14,469,999	59	2.2%	0	0.00%	0	0.00%	
Valdese	20	1.10%	7	0.71%	10	0.48%	\$18,466,427	34	0.76%	24	2.67%	0	0.00%	
Subtotal Caldwell	3,638	10.44%	1,767	8.21%	3,255	7.64%	\$39,989,539	4,964	5.46%	758	4.98%	241	4.84%	
Caldwell County	2,970	15.07%	1,301	12.41%	2,832	10.8%	\$28,502,200	4,172	9.0%	615	10.3%	204	9.0%	
Cajup's Mountain	42	5.50%	19	7.85%	53	3.96%	\$4,850,200	80	2.81%	5	2.80%	4	2.17%	
Cedar Rock	0	0.00%	0	0.00%	0	0.00%	\$0	0	0.00%	0	0.00%	0	0.00%	
Gainesville	441	28.38%	90	21.3%	416	21.19%	\$19,468,900	927	22.8%	122	19.3%	47	21.8%	
Granite Falls	629	32.91%	184	26.32%	484	24.24%	\$10,621,300	1,064	23.5%	169	25.34%	55	16.57%	
Hudson	222	14.81%	64	15.09%	149	8.95%	\$23,419,900	270	7.31%	39	5.9%	8	3.9%	
Lenoir	348	4.49%	96	4.28%	278	3.16%	\$12,010,600	617	3.3%	106	3.14%	39	3.52%	
Rhodes	166	37.5%	50	28.8%	149	29.61%	\$6,516,981	243	27.3%	32	21.4%	13	19.4%	
Sawmills	866	46.11%	204	36.11%	761	29.12%	\$46,905,800	1,229	23.4%	152	21.1%	56	18.54%	
Subtotal Graham	5,764	19.81%	2,027	13.07%	5,171	11.44%	\$63,399,681	8,068	10.37%	1,248	9.80%	426	9.17%	
Graham County	4,300	6.06%	952	4.18%	3,766	4.17%	\$69,756,400	7,059	3.6%	366	3.29%	185	3.05%	
Brookford	0	0.00%	0	0.00%	0	0.00%	\$0	0	0.00%	0	0.00%	0	0.00%	
Catawba	8	2.04%	9	5.98%	2	0.27%	\$1,698,700	4	0.6%	1	0.27%	0	0.00%	
Clarendon	1	0.13%	1	0.46%	7	0.62%	\$19,700	0	0.00%	0	0.00%	0	0.00%	
Clayton	21	0.51%	6	0.65%	20	0.37%	\$2,917,900	41	0.54%	0	0.00%	5	0.8%	
Hickory	68	0.46%	33	0.97%	45	0.22%	\$10,779,200	90	0.23%	9	0.15%	4	0.15%	
Langview	83	0.85%	9	1.94%	13	0.37%	\$61,155	34	0.29%	1	0.13%	1	0.29%	
Maiden	92	5.77%	28	6.29%	76	2.64%	\$10,222,300	50	1.51%	5	1.10%	2	0.9%	
Newtown	62	0.99%	16	1.33%	59	0.66%	\$7,099,600	151	1.16%	11	0.54%	14	1.47%	
Subtotal Currituck	2,581	3.84%	654	3.23%	4,008	3.8%	\$68,169,451	3,421	2.21%	399	1.81%	211	2.18%	
<b>TOTAL UNIFOUR</b>	<b>12,940</b>	<b>8.34%</b>	<b>4,791</b>	<b>7.51%</b>	<b>14,203</b>	<b>3.13%</b>	<b>\$2,409,425,668</b>	<b>18,791</b>	<b>5.34%</b>	<b>2,570</b>	<b>4.70%</b>	<b>981</b>	<b>4.58%</b>	



### Wildfire Hazard Exposure (Moderate Risk)

Jurisdiction	Number of Developed Parcels At Risk		Number of Undeveloped Parcels At Risk		Number of Buildings At Risk		Value of Buildings At Risk		Population At Risk		Elderly Population At Risk		Children At Risk	
	Count	Per	Count	Per	Count	Per	Count	Per	Count	Per	Count	Per	Count	Per
Alexander County	9,582	58.69%	3,374	56.07%	22,702	50.28%	\$1,744,425,209	16,710	47.61%	2,378	46.61%	941	45.79%	
Taylorville	607	66.38%	151	66.81%	653	49.43%	\$215,679,965	788	37.66%	266	39.24%	51	51.12%	
Subtotal Alexander	10,189	59.16%	3,525	56.44%	23,355	49.99%	\$1,960,105,174	17,498	47.04%	2,644	46.92%	992	44.91%	
Bethel County	19,050	65.94%	10,100	68.87%	19,279	59.88%	\$2,080,039,876	33,312	55.55%	4,766	53.76%	1,224	55.88%	
Connelly Springs	576	83.33%	257	45.65%	729	84.37%	\$51,120,087	1,212	72.62%	203	70.24%	58	67.64%	
Drewel	394	54.20%	113	59.79%	371	48.24%	\$49,568,550	829	46.62%	180	45.23%	27	58.72%	
Green Alpine	90	14.11%	28	9.12%	60	8.30%	\$1,381,074	107	7.05%	25	9.80%	6	5.77%	
Hillsboro	438	56.82%	162	61.60%	602	56.90%	\$71,243,861	1,150	56.85%	222	55.79%	57	48.31%	
Montgomery	680	11.34%	283	35.64%	683	9.15%	\$144,722,303	1,494	4.81%	288	9.22%	79	14.87%	
Valdese	1,075	58.87%	505	51.53%	839	40.47%	\$194,342,965	1,598	35.59%	308	34.22%	78	29.43%	
Rutherford College	292	51.68%	129	55.84%	342	47.97%	\$12,675,699	1,668	41.85%	191	39.74%	101	42.31%	
Subtotal Burke	19,148	55.01%	11,577	53.82%	22,905	49.52%	\$2,945,701,415	40,310	44.94%	6,081	42.18%	2,062	41.42%	
Caldwell County	11,904	69.41%	5,641	58.80%	14,771	56.88%	\$1,368,900,000	22,873	54.88%	3,218	52.46%	1,240	54.77%	
Cajah's Mountain	800	79.68%	179	71.97%	879	65.70%	\$104,268,700	1,667	59.05%	283	54.53%	111	60.13%	
Cedar Rock	85	57.82%	43	51.81%	71	50.71%	\$19,764,200	127	42.33%	40	43.02%	1	54.29%	
Garwood	1,079	69.43%	327	77.69%	1,451	70.51%	\$109,369,100	2,569	62.92%	388	62.26%	111	60.03%	
Granite Falls	1,091	57.12%	357	51.07%	1,170	58.59%	\$196,303,500	2,569	54.40%	341	51.12%	176	53.03%	
Hudson	930	61.22%	298	70.28%	868	52.13%	\$269,711,400	1,746	46.29%	288	49.97%	94	46.68%	
Lenoir	2,354	38.09%	845	37.64%	2,543	29.46%	\$418,870,900	4,387	24.07%	787	23.33%	190	17.13%	
Rhodes	193	44.06%	95	50.08%	200	45.55%	\$17,248,790	571	51.36%	70	50.34%	38	50.79%	
Swainville	811	43.18%	270	47.79%	1,428	54.65%	\$95,025,800	2,416	46.11%	301	43.19%	154	37.79%	
Subtotal Catawba	19,937	55.34%	8,055	51.95%	23,489	51.88%	\$2,059,466,300	39,907	48.96%	5,721	44.64%	2,095	45.18%	
Catawba County	18,934	49.42%	5,661	42.39%	36,277	41.80%	\$4,833,667,000	31,030	37.15%	3,941	35.65%	1,725	35.89%	
Blount	16	6.71%	4	7.64%	36	7.74%	\$1,445,000	31	6.12%	6	11.11%	2	11.11%	
Catawba	165	42.09%	56	31.64%	212	31.14%	\$106,506,200	162	26.87%	31	21.65%	7	25.51%	
Claymont	115	15.39%	43	19.82%	113	9.98%	\$45,812,600	99	17.32%	8	4.08%	3	3.90%	
Conover	761	29.28%	241	29.03%	856	15.93%	\$196,374,300	1,025	15.55%	119	18.88%	73	13.97%	
Hickory	1,811	12.36%	502	14.79%	1,552	7.60%	\$729,369,200	2,926	7.31%	280	4.88%	156	5.74%	
Longview	171	16.69%	126	27.03%	309	8.80%	\$19,946,198	482	8.90%	51	6.62%	10	9.04%	
Maiden	887	55.61%	275	61.80%	1,107	38.38%	\$268,029,600	1,011	31.15%	119	26.10%	54	25.56%	
Newton	788	14.59%	107	34.40%	1,045	11.64%	\$401,682,700	1,274	8.22%	183	15.08%	81	8.48%	
Subtotal Catawba	23,771	35.53%	7,365	35.12%	41,527	31.93%	\$4,833,526,498	38,060	24.66%	4,860	22.36%	2,133	22.86%	
TOTAL UNIFOUR	73,155	47.15%	30,462	47.71%	111,480	40.28%	\$14,134,799,423	195,775	37.15%	29,256	35.24%	7,282	28.86%	

### Wildfire Hazard Exposure

- 31 critical facilities in high hazard areas
  - Includes day cares, fire stations, government buildings, schools, senior care and shelters
- 203 critical facilities in moderate hazard areas
  - Includes day cares, EMS, EOC, fire stations, government buildings, hospitals, schools, senior care and shelters
- 24 high potential loss properties in moderate hazard areas
  - Includes airports, military facilities and hazardous materials sites
- 24 historic properties/sites in high hazard areas



### Wildfire Hazard History

- Regional summary of historical occurrences (NCDNR)
  - 5-year average number of fires: 1,197
  - 5-year average number of acres burned: 1,082.4

County	5-Year Average Number of Fires	5-Year Average Number of Acres Burned
Alexander	162	133.5
Burke	286	221.2
Caldwell	472	614.8
Catawba	276	112.9
TOTAL UNIFOUR	1,197	1,082.4

### Annualized Loss Ranking

1. Tornado (ALE: \$2,504,450)
2. Flood (ALE: \$758,365)
3. Thunderstorm (ALE: \$682,450)
4. Winter Weather (ALE: \$100,200)
5. All others: ALE less than \$5,000 or insufficient data to determine an ALE

(ALE = Annualized Loss Estimate)



### Conclusions on Hazard Risk (Preliminary)

<b>HIGH</b>	Flood Dam/Levee Failure Tornado Winter Weather Thunderstorm, Lightning, and Hail
<b>MODERATE</b>	Wildfire Landslide Hurricane and Tropical Storm Drought/Extreme Heat
<b>LOW</b>	Erosion Sinkhole Earthquake



### Capability Assessment Results

### Capability Assessment Survey

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education and outreach capability
- Political capability
- Self assessment



### Capability Assessment Survey

- 100% participation!  
– 28 out of 28 surveys returned
- Thank you!



### Capability Assessment Survey

- Points System for Capability Ranking
  - 0-24 points = Limited overall capability
  - 25-49 points = Moderate overall capability
  - 50-82 points = High overall capability
- Average overall score for the region: **48**
  - Moderate overall capability
- The full Capability Assessment section will be available for review prior to finalizing



### Capability Assessment Survey

High	Moderate	Limited
Alexander County	Cajah's Mountain	Drexel
Brookford	Catawba	
Burke County	Cedar Rock	
Caldwell County	Connelly Springs	
Catawba County	Gamewell	
Claremont	Granite Falls	
Conover	Hildebran	
Glen Alpine	Hudson	
Hickory	Rhodhiss	
Lenoir	Rutherford College	
Long View	Sawmills	
Malden	Taylorsville	
Morganton		
Newton		
Valdese		



### Public Outreach Update

### Public Outreach Update

- Public Participation Survey
  - 160 started, 131 completed
- 1st public meeting
  - October 1 from 5 to 8 p.m.
- Promoting the survey and project information website



# Mitigation Strategy Development

## Vision Statement

*“Through a coordinated regional planning effort, create and implement an effective hazard mitigation plan that will identify and prioritize risk reduction measures for natural hazards in order to protect the health, safety, quality of life, environment and economy of the Unifour area.”*



- ## Structure of Mitigation Strategy Section
- Vision Statement
    - Regional Mitigation Goals
      - Regional Mitigation Actions
      - Local Mitigation Actions



## Mitigation Actions

- Develop an action plan that is holistic
  - It should address multiple hazards/objectives/issues, but should be focused on highest risks
- Keep it realistic in terms of local capabilities and resources
- Each action should be specific, actionable, measureable, and achievable



- ## Types of Mitigation Actions
- Local Plans and Regulations
  - Structure and Infrastructure Projects
  - Natural Systems Protection
  - Education and Awareness Programs



## Question 1 (10-15 minutes)

What would have to happen for the Unifour region to be more resilient to natural hazards?



**Question 2 (15-20 minutes)**

What specific actions would need to be taken to accomplish this?



**Question 3 (30 minutes)**

How do all of our ideas come together?



**Open Discussion**

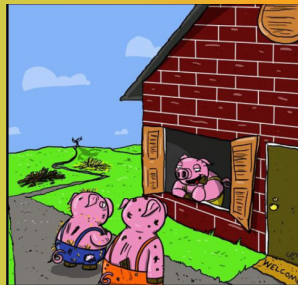
**Next Steps**

- Mitigation Action Plan "homework"



**Thank You**

mike.robinson@aecom.com  
darrin.punchard@aecom.com



"Mitigation isn't so funny now, is it?"



# Unifour Regional Hazard Mitigation Plan

## Hazard Mitigation Planning Committee Meeting #4

December 10, 2013

1:00 p.m. – 3:00 p.m.

Western Piedmont Council of Governments

1880 2nd Ave. NW, Hickory

Conference Room A1

### AGENDA

1. Welcome and Introductions 1:00 – 1:10
2. Overview of Working Draft Hazard Mitigation Plan 1:10 – 1:40
  - Table of Contents
  - Status on Plan Sections
  - Review/Comment Process
  - Suggested Areas of Focus
  - Availability of Files
3. Public Participation Survey Results 1:40 – 1:50
4. Mitigation Action Exercise 1:50 – 2:15
5. Plan Maintenance Procedures 2:15 – 2:25
6. Next Steps 2:25 – 2:35
  - Final Draft
  - State and FEMA Review
  - Local Adoption
7. Open Discussion 2:35 – 2:40
8. Nature's Fury Presentation, Oxford Elementary School 2:40 – 3:00

Unifour Regional Hazard Mitigation Plan  
 HMPC Meeting #4 - December 10, 2013

NAME	TITLE / AFFILIATION	PHONE	E-MAIL
MICHAEL TOWNSEND	AMERICAN RED CROSS	828-322-4151	MIKE.TOWNSEND@REDCROSS.ORG
Jimmy Drum	Town of Rhodhiss	828-493-1916	Rhodhissfire@yahoo.com
Michael P. Long	Burke County Emergency Management	828-764-9321	mike.long@burkenc.org
Travis Ramsey	Maiden Town Planner	828-312-2262	tr Ramsey@maidennc.gov
Col Overby	City of Hickory	323-323-7487	Coverby@hickorync.gov
LANCE HIGHT	CONOVER	828-464-1191	LANCE.HIGHT@CONOVERNC.GOV
Mark Robinson	FRMC	828-962-5027	Donald.Robinson@tenethealth.com
LEE ANDERSON	City of Morganton	828-438-5270	landerson@ci.morganton.nc.us
Charles Mullis	Town of Long View	828-322-3921	charles.mullis@mail.ci.longview.nc.us
Grey Wilson	Town of Granite Falls	828-396-3131	wilson@granitefallsc.com



Unifour Regional Hazard Mitigation Plan  
 HMPC Meeting #4 - December 10, 2013

NAME	TITLE / AFFILIATION	PHONE	E-MAIL
Elinor Hiltz	Planner Summit's RC	485.4248	elinor.hiltz@wpcog.org
Karen Yausy	Catauba Co EM	465-8989	KYausy@ CataubaCountyNC.gov
Barbara Harmon	Manager, Town of Rhodhiss	396-8400	bl.rhodhiss@yaho.ca
Shelley Stevens	CCG/Planner	485 4238	shelley.stevens @wpcog.org
Russell Green	Alex EM	632-9106	rgreen@ alexandria-va.gov
Seth Harris	Alexandria City	632-1114	sharris@ alexandriacountyva.gov
Alex Fulbright	Newton	695 4326	afulbright@newtonva.gov
Kenneth A. Teague	Caldwell Co EM	850-3947	kteague@caldwellcounty nc.org
JASON B. POTTER	CALDWELL Co. FM/EM	850-0998	js.potter@caldwellcounty nc.org
Jon Pilkenton	WPCOG/Planner	485-4225	jon.pilkenton@wpcog.org

Unifour Regional Hazard Mitigation Plan  
 HMPC Meeting #4 - December 10, 2013

NAME	TITLE / AFFILIATION	PHONE	E-MAIL
Jerry Causby	Fire Chief Glen Alpine	828 430-0874	jerrycausby@ bellsouth.net
John Marshall	WPCOG /mpo	828-485-4232	john.marshall@ wpcog.org
Darrin Pundard	AECOM	919-247-5784	darrin.pundard@ aecom.com
Robin Nicholson	Duke Energy	828-323- 2833	ROBIN.NICHOLSON @DUKE-ENERGY. COM
Laurie LoCicero	WPCOG	828 485 4240	laurie.bradshaw@wpcog. org

# Unifour Regional Hazard Mitigation Plan

## HMPC Meeting #4

**AECOM**

Darrin Punched, Project Manager  
Mike Robinson, Lead Planner

December 10, 2013




### Agenda

- Welcome and introductions
- Overview of working draft
- Public Participation Survey results
- Mitigation Action Plan exercise
- Plan Maintenance Procedures
- Next steps
- Open discussion
- Nature's Fury Presentation, Oxford Elementary School



### Handouts


- Meeting agenda
- Meeting sign-in sheet
- Mitigation Strategy and Mitigation Action Plans for each jurisdiction



## Overview of Working Draft Hazard Mitigation Plan


### Overview of Working Draft

- Plan organization (Table of Contents)
- Quick status update on each section
- Explanation of review/comment process
- Suggested areas of focus
- Availability of files
- Instructions for submitting review comments



### Plan Organization (Table of Contents)

- Plan Sections
  - Section 1: Introduction
  - Section 2: Planning Process
  - Section 3: Community Profile
  - Section 4: Risk Assessment
  - Section 5: Capability Assessment
  - Section 6: Mitigation Strategy
  - Section 7: Mitigation Action Plans
  - Section 8: Plan Maintenance Procedures



### Plan Organization (Table of Contents)

- Appendices
  - Appendix A: Plan Adoption
  - Appendix B: Local Hazard Mitigation Plan Update Checklist
  - Appendix C: Public Outreach Strategy
  - Appendix D: Public Participation Survey Results
  - Appendix E: Copies of Meeting Agendas, Sign-in Sheets and PPT Slides
  - Appendix F: Project Information Fact Sheet
  - Appendix G: Local Capability Assessments
  - Appendix H: Safe Growth Survey



### Instructions for Review/Comment Period

- Location of files
  - Project information website, under Planning Committee link
- Line numbering
  - Use these while organizing comments
  - Line numbering starts over with each new section
  - Reference section number and line number in your comments
- Deadline for Comments
  - Friday, December 20?
- Submit all comments to Mary George



### Example Review Comments

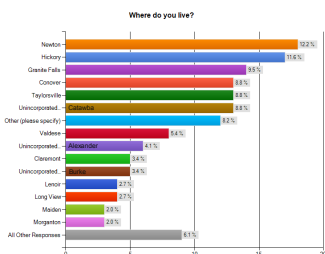
- Section 1: Introduction
  - Line 14: Maybe add wildfire to list of example hazards
  - Line 116: Add "Town of" to Rutherford College
- Section 2: Planning Process
  - Line 3: Maybe state upfront the duration of the planning process
  - Line 161: Add more information about the WPCOG
- Section 4: Risk Assessment
  - Line 1099: The legend on Figure 4.43 should include x, y and z.



## Public Participation Survey Results

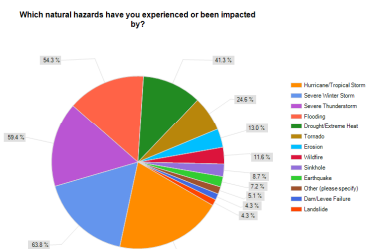
### Overview of Participation

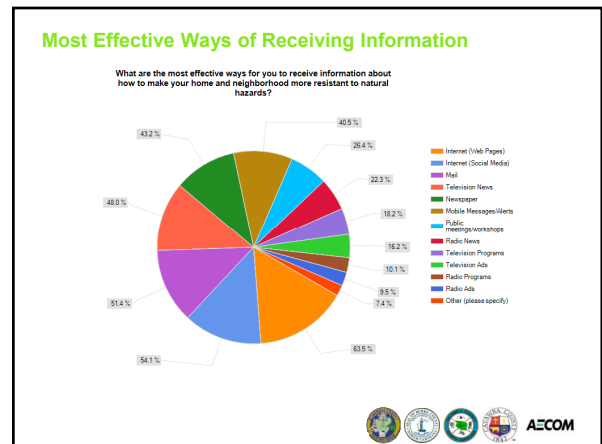
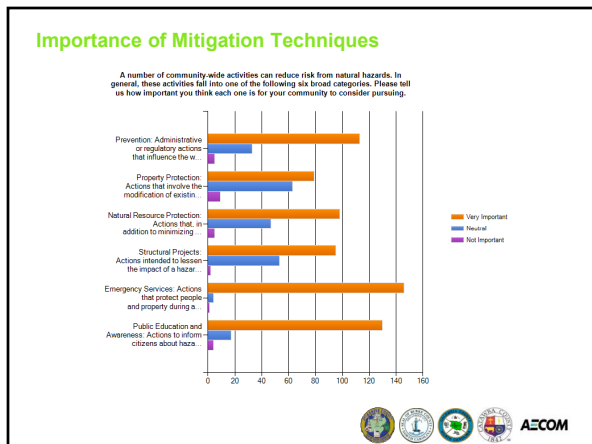
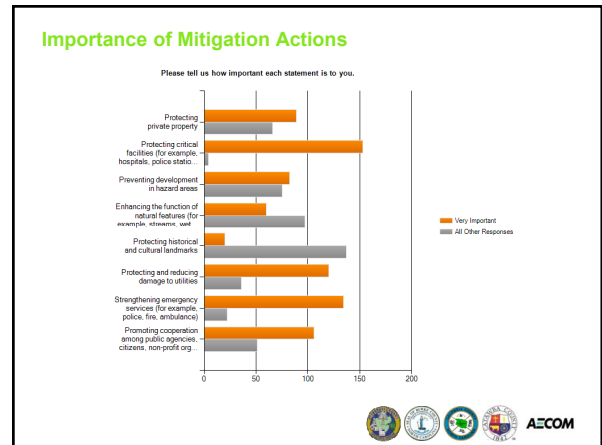
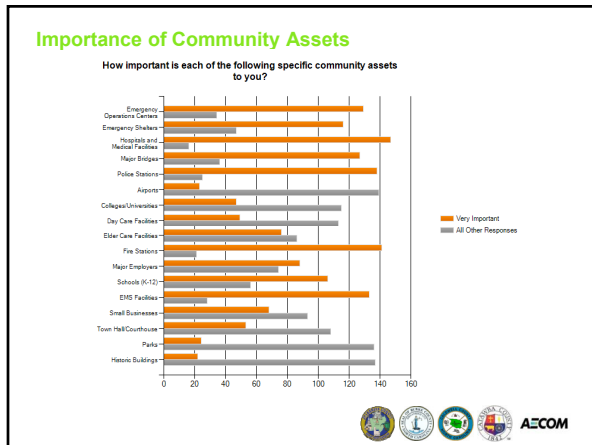
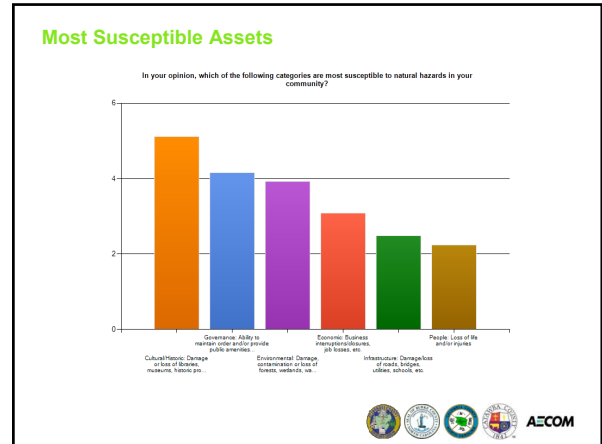
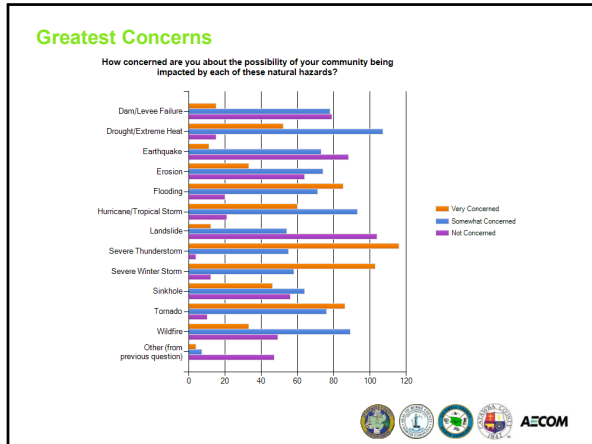
- Opened August 13
- Closed November 15
- 178 surveys started
- 148 (83.1%) finished
- 5 hand-entered



### Experience with Natural Hazards

- 77.1% said they have been personally impacted by a disaster





### Miscellaneous Responses

- 91.9% said they are interested in making their home or neighborhood more hazard resistant
- 86.6% said their home is not located in the floodplain
- 88.5% said they do not carry flood insurance
- 56.2% said they have lived in the Unifour area 20+ years
- 90.3% said they own their home
- 90.4% live in a single-family home



### Mitigation Action Exercise

### Mitigation Action Review

- Pair up with others from your jurisdiction
- Review Mitigation Strategy, including regional mitigation goals
- Review 2014 Mitigation Actions for your jurisdiction
- Review status of 2009 Mitigation Actions for your jurisdiction
- Make additional changes as needed
- Ask questions about Mitigation Actions you're unsure of



### Plan Maintenance Procedures

### Plan Maintenance Questions

- Who will be the lead agency for future mitigation planning meetings, updates, progress reports, etc.?
- What will be the schedule for any ongoing meetings of the HMPC, prior to the next 5-year plan update?
  - Annual meetings, bi-annual meetings, "as-needed" meetings, etc.
- To what extent will you seek to integrate the regional plan with other local plans, policies and programs?
  - Comprehensive plans, land use plans, emergency operations plans, etc.
- What other implementation strategies can you use?



### Plan Maintenance Questions

- What criteria will be used for 5-year plan updates?
  - Do the goals address current and expected conditions?
  - Has the nature or magnitude of risk changed?
  - Are the current resources appropriate for implementing the plan?
  - Are there implementation problems?
  - Have the outcomes occurred as expected?
  - Did the jurisdictions, agencies and other partners participate in the plan implementation process as expected?



### Plan Maintenance Questions

- What kind(s) of reporting procedures would you like to adopt?
  - Just what is included in the next 5-year plan update?
  - Annual progress reports?
    - Who would they be submitted to and by whom?
  - Interim progress report halfway to the next 5-year plan update?
    - Who would it be submitted to and by whom?
- How will you keep the public involved?
- How will you keep stakeholders involved?



### Next Steps

- Review/comment period
- Final draft
- State and FEMA review
- Local adoption

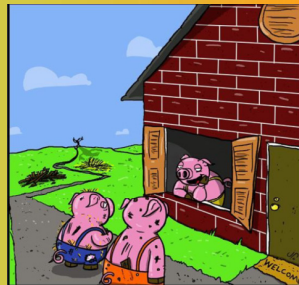


### Open Discussion

### Welcome Oxford Elementary School

### Thank You

mike.robinson@aecom.com  
darrin.punchard@aecom.com



"Mitigation isn't so funny now, is it?"



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# Area officials seek input on disaster plan

Story Comments

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Posted: Friday, November 29, 2013 4:54 pm

By Staff Reports [news@hickoryrecord.com](mailto:news@hickoryrecord.com)

HICKORY, NC — Officials want input from the public on an updated disaster plan.

A public meeting is set from 4-7 p.m. Dec. 10 at the Western Piedmont Council of Governments, located at 1880 Second Avenue NW, Hickory. Greater Hickory Metro's county officials have come up with a draft of the area's Hazard Mitigation Plan.

"The Dec. 10 meeting will be set up for citizens to come and go as they wish between 4 and 7 p.m.," Catawba County assistant planning director Mary George said. "We invite all of the residents of Alexander, Burke, Caldwell and Catawba counties to drop by the meeting, see the ways their community has identified to address local hazards and give us their feedback on the proposals."

The 28 municipal and county governments in the four counties will have a single plan, but there will be specific action items identified within it for each, according to a release from Catawba County. The items include such things as educating the public on what do to during a storm, tree trimming, maintaining storm drainage systems and installing generator transfer switches, the release said.

The Federal Emergency Management Agency requires hazard mitigation plans be updated every five years. An updated plan ensures counties, towns and cities are eligible for state and federal disaster assistance and preparedness activities, the release said.

A draft of the plan and the action steps for each county and municipality in the area will be available online starting Dec. 6 at [www.catawbacountync.gov/EmergencyServices/Hazard/RegionalPlan.asp](http://www.catawbacountync.gov/EmergencyServices/Hazard/RegionalPlan.asp).

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Posted in News on Friday, November 29, 2013 4:54 pm.

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- Tractor trailer driver killed in wreck on I-40
- Learn skills to stop bullying

## Most Read

- Cheese biscuits, aplenty; Rumors of Red Lobster's demise are greatly exaggerated, spokeswoman says
- SUV overturns in Vale; 4 taken to hospital

## Submit Your News!

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Submit news



Polling official Lynn Seabock (right) verifies the address of Linda Shad as she prepares to vote on the first day of early voting at Highland Recreation Center on Thursday.

## Voting

From Page 1A

everybody, and I beat him to the punch," Sculthorpe said.

Ed Farthing, an election official, said Wright was first while challenger Ernie Masche was third.

The atmosphere Thursday was largely genial. Farthing said that a friend of mayoral candidate Candice

Harold wanted her picture taken and Masche, a freelance photographer, took it for her.

"I think that exemplifies local politics at its finest," Farthing said.

Sculthorpe and Harold had been canvassing for hours when Jane Johnson from the Inglefield campaign offered to make a Bojangles' run for the two of them.

"These are the real important things about the campaign,"

Johnson said.

Gertrude Peacock was one of the voters who came out Thursday afternoon. She said she was voting for Wright.

"He's the right one," Peacock said. Farthing said the next few days will be slow, but turnout will pick up closer to October.

"I encourage people to come vote now, so they can get in and out," Farthing said.

## Residents asked for ideas to prepare community for natural disasters

HICKORY — The July 27 flooding that brought severe damage to parts of Catawba County was a stark reminder that natural disasters can happen here. Anyone who lived through the tornadoes that struck the Vale and Claremont areas in 2010 or eastern Burke County in 2012, or Hurricane Hugo in 1989 also understands the risks.

Do you have any ideas for ways to help the county be better prepared to face a natural disaster in the future? Officials will soon be asking citizens in Catawba, Alexander, Burke and Caldwell counties to share their ideas at a public meeting.

Those counties were already scheduled to update a plan, first created in 2004 to be better prepared for future natural hazards, before the flooding hit in July. Now they're hoping the recent experiences of some residents might help reduce the impact of such events if they ever occur again.

A public meeting has been scheduled for Tuesday, Oct. 1, from 5 until 8 p.m. at the Western Piedmont Council of Governments at 1880 Second Ave., NW, Hickory, (town of Long View), in Conference Room A1.

"We need the help of the citizens of Catawba, Alexander, Burke and Caldwell counties," said Karyn Yaussy, Catawba County's emergency management coordinator. "We're preparing to update our Multi-jurisdictional Hazard Mitigation Plan. The purpose of this plan is to identify and assess our community's natural hazard risks (such as flooding, winter storms, tornadoes and wildfires) and determine how to best minimize or manage those risks. We are asking everyone who has suggestions about how we can reduce our risks from natural hazards, or be better prepared to meet natural hazards, to give us their input either at the Oct. 1 meeting or through an online survey."

A full page of information on the hazard mitigation update is available through a story at [www.catawbacountync.gov/](http://www.catawbacountync.gov/). Those who wish to go directly to the survey may visit [www.surveymonkey.com/s/unifourhazardsurvey](http://www.surveymonkey.com/s/unifourhazardsurvey).

The Oct. 1 meeting is set up for people to come and go as they wish between 5 and 8 p.m., said Mary George, Catawba County's assistant planning director. "You're invited to bring

your thoughts and local knowledge to the meeting as we update the individual hazard mitigation plans of Alexander, Burke, Caldwell and Catawba counties."

The Federal Emergency Management Agency requires local hazard mitigation plans be updated every five years. Catawba County's current plan was last updated in 2010 but the new plan will be regional in nature for Alexander, Burke, Caldwell and Catawba counties. Having a FEMA-approved plan in place assures that the counties and municipal jurisdictions remain eligible for a range of state and federal disaster assistance and preparedness activities.

The hazard mitigation plan update process is being coordinated by Catawba County's Emergency Management and Planning, Parks and Development departments but involves representatives from the four counties and the incorporated municipalities in each. A private consulting firm, AECOM, will assist in the process of ensuring the updated plan remains in compliance with new state and federal guidelines for hazard mitigation plans.

For more information on the update of the Multi-

jurisdictional Hazard Mitigation Plan update or the survey now available via [www.catawbacountync.gov](http://www.catawbacountync.gov), contact Mary George at the Catawba County Planning & Parks Department, at 828-465-8264 or [mary@catawbacountync.gov](mailto:mary@catawbacountync.gov).

## Volunteers sought for senior support

NEWTON — PACE@Home is seeking volunteers to help support local seniors as they participate in social and recreational activities. Free training will take place on Friday, Oct. 11, from 9 a.m. to noon.

PACE (the Program of All-Inclusive Care for the Elderly) provides comprehensive care for qualified seniors who are eligible for nursing home residency but who prefer to remain in their own homes.

PACE participants receive monitoring and support from a team of

doctors, nurses, social workers and therapists during regular daytime visits to the PACE Center (at the corner of Fairgrove Church Road and U.S. 70 in Conover).

PACE volunteers will engage with participants at the Center, offer companionship within the facility, and assist with reception and clerical tasks.

To become a volunteer or to learn more, contact Brenda Brooks, PACE@Home's activities coordinator, at 828-468-3980, or visit [www.pace-at-home.org](http://www.pace-at-home.org).

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## Mary George

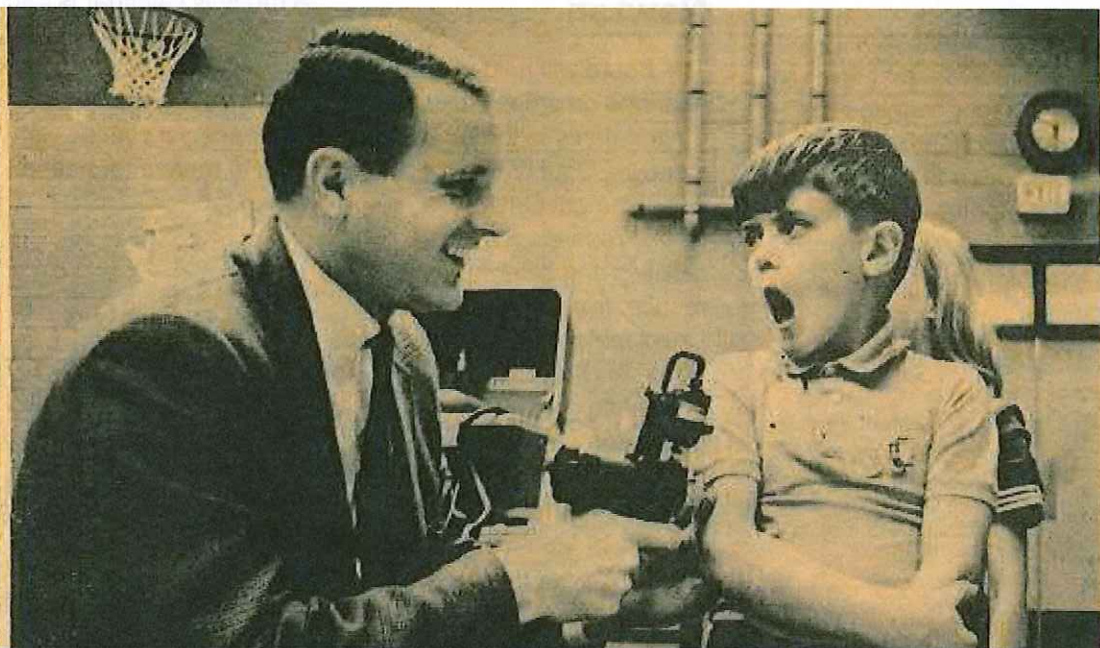
**From:** Catawba County, North Carolina [dave=catawbacountync.gov@mail127.us2.mcsv.net] on behalf of Catawba County, North Carolina [dave@catawbacountync.gov]  
**Sent:** Thursday, September 12, 2013 8:44 AM  
**To:** Mary George  
**Subject:** Catawba County E-News September 12, 2013

Catawba County E-News

September 13, 2013

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**Public Health begins  
commemorating its 75th birthday  
this year.**

To help celebrate, Public Health invites residents to share their input on Public Health's past and future through the "75 Years of Public Health" campaign. [Full story](#)



### Do you have ideas for ways to help the county be better prepared to face natural disasters?

We want to hear your ideas! Catawba and the other Unifour counties are updating a plan first created in 2004 to better prepare for future natural hazards. [Take the survey](#)  
[More information](#)



### Next Board of Commissioners meeting, 7 p.m, Monday, September 16, 1924 Courthouse, Newton.

The Board will hold public hearings on proposed amendments to the Catawba County Unified Development Ordinance (UDO) regarding wireless facilities and solar farms, a request from the Economic Development Corporation Board of Directors for greater flexibility when considering applications for the Demolition Fee Waiver Program, and other items. [Full agenda](#)



### Keep up with Catawba County activities through our online calendar.

A monthly calendar is kept current with reminders of when various boards and committees meet and other special events, with links to more information. [Calendar](#)



## **Poker Run to raise funds for Children's Advocacy and Protection Council**

10 a.m. Saturday, September 21 at Blue Ridge Harley-Davidson in Hickory. Rain date September 28. Riders may register at Blue Ridge Harley-Davidson. For more information, call 828-327-3030. Cost is \$20 per rider and \$10 per passenger. [Full story](#)

## **Southern Kitchen Master Sheri Castle one of two authors visiting Catawba County Library**

Castle will prepare two dishes when she visits the Main Library in Newton at 6:30 p.m. on Wednesday, October 9, 2013: Cider-Braised Cabbage with Apples and Fennel, and Fresh Apple Cake with Caramel Glaze. She will use local ingredients for both. [Full story](#)

## **Catawba County Extension and Community Association celebrates 100th birthday**

In 2013, North Carolina's Extension and Community Associations celebrate 100 years of home demonstration and community development across the state. [Full story](#)



*Information and agendas for meetings [Catawba County's main boards and committees](#)*

*[Operating hours for Catawba County Convenience Centers \(waste collection locations\)](#)*

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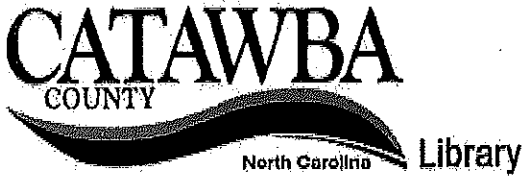
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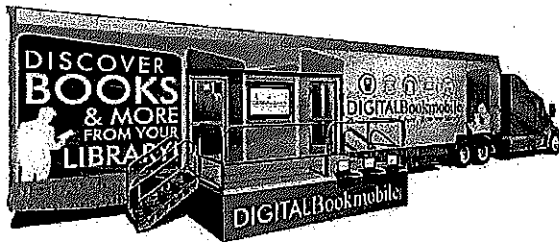
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## Digital Bookmobile coming to Hickory

by  
Tammy Wilson



The Digital Bookmobile will be in Hickory Oct. 8 at the SALT Block, thanks to a joint venture of Hickory Public and Catawba County library systems.

The bookmobile will showcase the free eBook download service from websites of both libraries from 10 a.m. to 4 p.m. that Tuesday. Readers of all ages will learn how to download eBooks from N.C. Digital Library through interactive demonstrations and high-definition instructional videos. A gadget gallery—featuring Kindle®, iPod® touch, Android™ tablet, NOOK™, Sony® Reader™, BlackBerry®, Windows® Phone and more—will help visitors discover portable devices that are compatible with the library's download service.

Library card holders of either library system can check out and download digital titles anytime, anywhere by visiting either <http://www.catawbacountync.gov/library> or <http://www.hickorync.gov/library/>.

"Local library users are becoming increasingly interested in digital media and we are excited to offer this hands-on exhibit," said Louise Humphrey, director for the Hickory Public Library System.

The Digital Bookmobile is housed inside an 18-wheel tractor-trailer. This 74-foot community outreach vehicle is a high-tech update of the traditional bookmobile. The vehicle is equipped with broadband Internet-connected PCs, high

definition monitors, premium sound systems, and a variety of portable media players, all of which help visitors explore the North Carolina Digital Library's download service. Interactive learning stations give visitors an opportunity to search the library's digital media collection, use supported mobile devices, and sample eBooks, audiobooks, music, and video.

Library customers can take advantage of the download service 24/7 when they visit the library's website. From there, they can browse the growing collection of bestselling, new release, and classic titles, and check out a digital title with a valid library card. Once downloaded, digital titles can be enjoyed on a computer or transferred to supported mobile devices. Many audio titles can also be burned to audio CD. At the end of the lending period, titles will automatically expire and are returned to the digital collection. There are never late fees or damaged items.

The Digital Bookmobile is operated by OverDrive, Inc. To check out and download digital books and more, visit the website of either Catawba County or Hickory Public library system. For more information about the bookmobile, log on to [www.digitalbookmobile.com](http://www.digitalbookmobile.com).

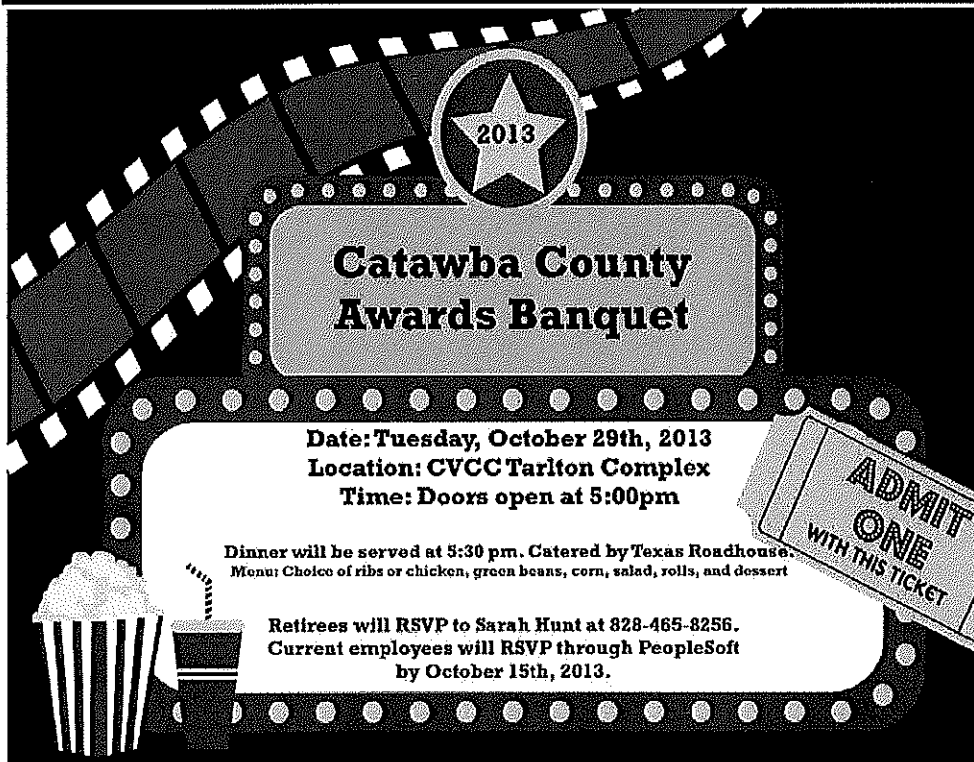
### DO YOU HAVE IDEAS TO BETTER PREPARE US FOR ANY FUTURE NATURAL DISASTERS?

Do you have any ideas for ways to help the county be better prepared to face a natural disaster in the future? Officials will soon be asking citizens in Catawba, Alexander, Burke and Caldwell Counties to share their ideas at a public meeting.

A public meeting has been scheduled for Tuesday, October 1, 2013, from 5 until 8 p.m. at the Western Piedmont Council of Governments at 1880 2nd Ave. NW, Hickory, (Town of Long View), in Conference Room A1.

(see Hazard, pg. 14)





**2013**

**Catawba County  
Awards Banquet**

**Date: Tuesday, October 29th, 2013**  
**Location: CVCC Tarlton Complex**  
**Time: Doors open at 5:00pm**

Dinner will be served at 5:30 pm. Catered by Texas Roadhouse.  
 Menu: Choice of ribs or chicken, green beans, corn, salad, rolls, and dessert

Retirees will RSVP to Sarah Hunt at 828-465-8256.  
 Current employees will RSVP through PeopleSoft  
 by October 15th, 2013.

#### HAZARD PLAN UPDATE (cont. from pg. 8)

"We need the help of the citizens of Catawba, Alexander, Burke and Caldwell Counties", said Karyn Yaussy, Emergency Management Coordinator. "We're preparing to update our *Multi-jurisdictional Hazard Mitigation Plan*. The purpose of this plan is to identify and assess our community's natural hazard risks (such as flooding, winter storms, tornadoes and wildfires) and determine how to best minimize or manage those risks. We are asking everyone who has suggestions about how we can reduce our risks from natural hazards, or be better prepared to meet natural hazards, to give us their input either at the October 1 meeting or through an online survey."

A full page of information on the *Hazard Mitigation Update* is available through a story at <http://www.catawbacountync.gov/>. Those who wish to go directly to the survey may visit <https://www.surveymonkey.com/s/unifourhazardsurvey>

The Federal Emergency Management Agency (FEMA) requires that local hazard mitigation plans be updated every five years. Catawba County's current plan was last updated in 2010 but the new plan will be regional in nature for Alexander, Burke, Caldwell and Catawba Counties. Having a FEMA-approved plan in place assures that the Counties and municipal jurisdictions remain eligible for a range of State and Federal disaster assistance and preparedness activities.

For more information on the update of the Multi-jurisdictional Hazard Mitigation Plan update or the survey now available via [www.catawbacountync.gov](http://www.catawbacountync.gov), you may contact Mary George at the Catawba County Planning & Parks Department, at (828) 465-8264 or [mary@catawbacountync.gov](mailto:mary@catawbacountync.gov).

#### AUGUST DEADLINES

**September 27-** Story concepts, for which we must budget a lot of space

**October 4-** Short submissions and FINAL deadline.

Submissions are placed on a first come, first served basis as long as space permits

#### CATAWBA COUNTY SPIRIT

##### Designers/Writers:

Glennie Daniels  
 Mary Furtado  
 Dave Hardin  
 Marcia Hardy  
 Amy McDonald  
 Miriam Powell  
 Kelly Schermerhorn  
 Tammy Wilson  
 Various nominators

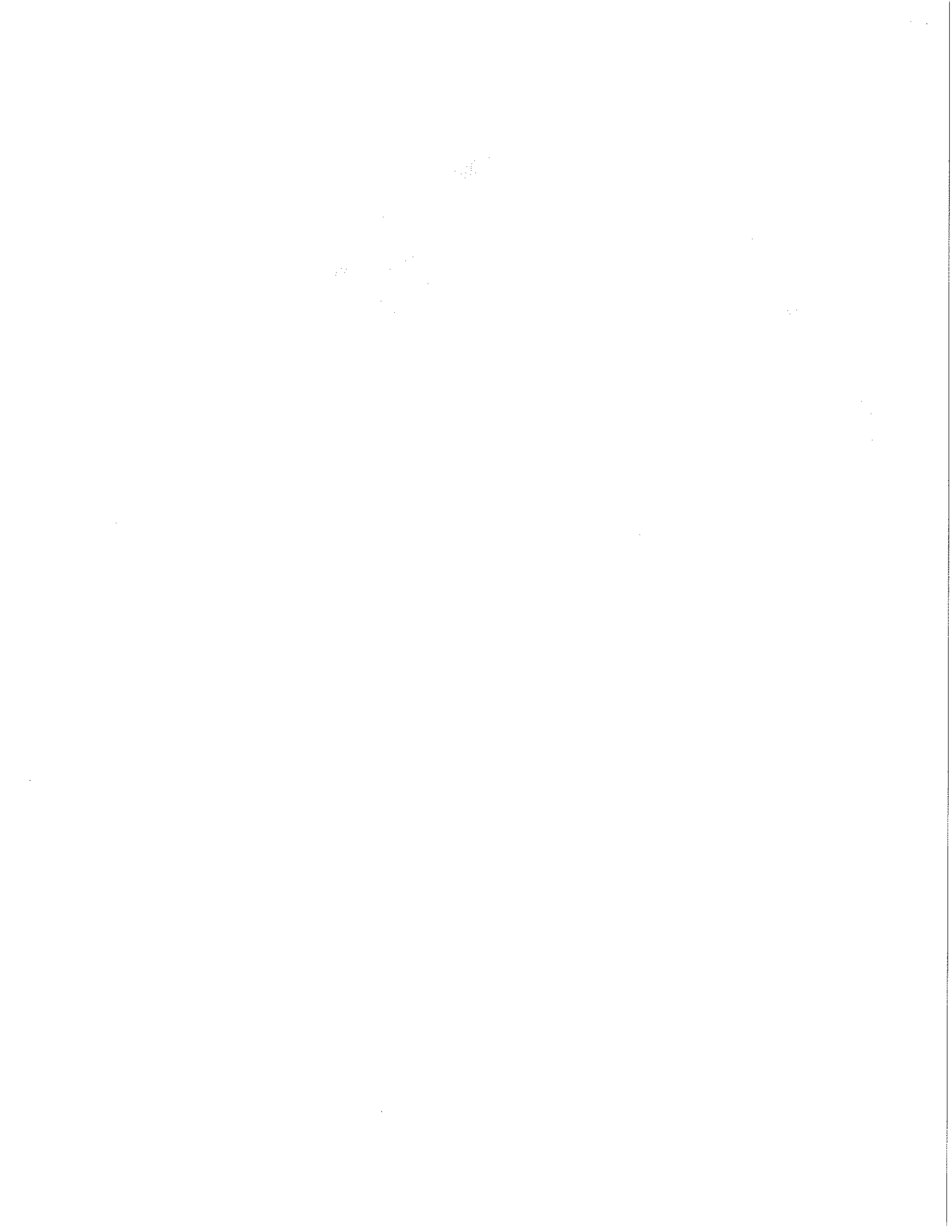
##### Photography:

Tyler Garrison  
 Shonda Hollis  
 Martha Knox  
 Tammy Wilson

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 Ph: 828-465-8464.







**Mary George**

**From:** Catawba County, North Carolina [dave=catawbacountync.gov@mail77.atl11.rsgsv.net] on behalf of Catawba County, North Carolina [dave@catawbacountync.gov]  
**Sent:** Wednesday, November 27, 2013 3:56 PM  
**To:** Mary George  
**Subject:** Catawba County E-News December 27, 2013

**Catawba County E-News**

**November 27, 2013**

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**Public meeting scheduled for  
December 10th on draft plan to**

# better meet future natural hazards.

A draft of a plan to help Unifour county officials be better prepared for future natural disasters has been completed. Citizens in Catawba, Alexander, Burke and Caldwell Counties will be asked to share their feedback on the draft from 4-7 p.m. on December 10 at the Western Piedmont Council of Governments at 1880 2nd Avenue NW, Hickory. [Full story](#)



## **Board of Commissioners named County Commissioners of the Year by N.C. School Boards Association**

In its nomination, the Catawba County Board of Education recognized the Board of Commissioners for increasing local support to public schools at a time when federal and state support is declining, for its commitment to safety in schools and the health of students, and for the commissioners' personal commitment to the schools. [Full story](#)



## **Brookford, Conover, Claremont join County in adopting tobacco-free campus policies.**

The new guidelines support healthier environments in local communities by prohibiting tobacco use in government-owned or leased buildings and grounds, including parks. Support for employees interested in quitting smoking is provided by these municipalities, similar to the support the County provided to its employees when its smoke-free campus policy was enacted in 2011. [Full story](#)



## **Board of Commissioners meeting, 9:30 a.m., Monday, December 2, 2013, 1924 Courthouse, Newton.**

The Catawba County Board of Commissioners will consider a partnership with the City of Claremont and the EDC Committee of 100 to encourage the private development of a shell manufacturing building to facilitate creation of new jobs and future tax base, hear a report on the annual County audit, and consider other items. [Full story](#)



# Unifour Regional Hazard Mitigation Plan Public Meeting

**WHAT:** Public meeting to discuss your thoughts and concerns about natural hazards

**WHEN:** Tuesday, October 1, 2013  
"Come and go" anytime from 5 p.m. to 8 p.m.

**WHERE:** Western Piedmont Council of Governments  
1880 2nd Ave. NW, Hickory  
Conference Room A1



## Floods, Wildfires, Tornadoes, Winter Storms, Hurricanes...What Concerns You?

Do you have ideas for helping our community become better prepared for future natural disasters?

You are invited to bring your thoughts and local knowledge to a Public Meeting on the development of the Unifour Regional Hazard Mitigation Plan, which is an update to the individual hazard mitigation plans of Alexander, Burke, Caldwell and Catawba counties.

### About the Unifour Regional Hazard Mitigation Plan

The counties of Alexander, Burke, Caldwell and Catawba, in coordination with their participating municipal jurisdictions, are preparing a regional hazard mitigation plan that will cover the four-county Unifour area. The Unifour 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 four separate hazard mitigation plans that were initially prepared by each county in coordination with their municipalities.

### For More Information

If you would like to learn more about how you can participate in the development of our Hazard Mitigation Plan, please contact one of the following county coordinators for this project:

**Russell Greene**, Alexander County Emergency Services  
828.632.9336 / [rgreene@alexandercountync.gov](mailto:rgreene@alexandercountync.gov)

**Kenneth Teague**, Caldwell County Emergency Management  
828.850.3947 / [kteague@caldwellcountync.org](mailto:kteague@caldwellcountync.org)

**Michael Long**, Burke County Emergency Management  
828.764.9321 / [mike.long@burkenc.org](mailto:mike.long@burkenc.org)

**Mary George**, Catawba County Planning  
828.465.8264 / [mary@catawbacountync.gov](mailto:mary@catawbacountync.gov)

You can also visit <http://www.catawbacountync.gov/emergencyServices/hazard/regionalPlan.asp> for more information and to participate in an online public participation survey.

**We hope to see you on October 1st!**

2013 Regional Hazard Mitigation Plan

OPEN PUBLIC MEETING

October 1, 2013

NAME	ADDRESS	PHONE / E-MAIL
Walt Thomas	5269 Stowewood Dr. Hickory NC <sup>28603</sup>	WThomas@Charter.net 828-294-4311



# Unifour Regional Hazard Mitigation Plan Public Meeting

**WHAT:** Public meeting to help finalize the Unifour Regional Hazard Mitigation Plan

**WHEN:** Tuesday, December 10, 2013  
"Come and go" anytime from 4 p.m. to 7 p.m.

**WHERE:** Western Piedmont Council of Governments  
1880 2nd Ave. NW, Hickory  
Conference Room A1



## Floods, Wildfires, Tornadoes, Winter Storms, Hurricanes...What Concerns You?

Do you have ideas for helping our community become better prepared for future natural disasters?

You are invited to come have a first look at a draft of your community's latest mitigation action items and leave your comments for the final decision-making process. This will be our final public meeting as part of this planning effort so don't miss this important opportunity to participate!

### About the Unifour Regional Hazard Mitigation Plan

The counties of Alexander, Burke, Caldwell and Catawba, in coordination with their participating municipal jurisdictions, are finalizing a regional hazard mitigation plan that covers the four-county Unifour area. The Unifour Regional Hazard Mitigation Plan identifies local policies and actions for reducing risk and future losses from natural hazards such as floods, severe storms, wildfires, and winter weather. It builds upon four separate hazard mitigation plans that were initially prepared by each county in coordination with their municipalities.

### For More Information

If you would like to learn more, please contact one of the following county coordinators for this project:

**Russell Greene**, Alexander County Emergency Services  
828.632.9336 / [rgreene@alexandercountync.gov](mailto:rgreene@alexandercountync.gov)

**Kenneth Teague**, Caldwell County Emergency Management  
828.850.3947 / [kteague@caldwellcountync.org](mailto:kteague@caldwellcountync.org)

**Michael Long**, Burke County Emergency Management  
828.764.9321 / [mike.long@burkenc.org](mailto:mike.long@burkenc.org)

**Mary George**, Catawba County Planning  
828.465.8264 / [mary@catawbacountync.gov](mailto:mary@catawbacountync.gov)

You can also visit <http://www.catawbacountync.gov/emergencyServices/hazard/regionalPlan.asp> for more information.

**We hope to see you on December 10!**

2013 Regional Hazard Mitigation Plan  
OPEN PUBLIC MEETING  
December 10, 2013

NAME	ADDRESS	PHONE / E-MAIL
Shelley Stevens	COG	485-4238 shelley.stevens@wplcg.org
Carraine Kardoski	2203 Smoke House Hollow	704 657-5185
SAM ERWIN	COG	485-4229

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Regional Natural Hazard Mitigation Plan  
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Public Meetings Will Be Scheduled Soon -  
Contact Town Offices for More Info.

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Mitigation Plan:  
[surveymonkey.com/s/unifourhazar...](http://surveymonkey.com/s/unifourhazar...) What  
should a natural disaster mitigation plan  
focus on?

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