APPENDIX D

WORKSHEETS USED IN PLANNING PROCESS

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Wilkes County All Jurisdictions

Hazard: Drought, Severe Weather, Winter Storm, Wildfire, Earthquake, Dam Failure

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Countywide	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	13,948	13,948	100.00%	294,637,242.50	294,637,242.50	100.00%	10,593	10,593	100.00%
Commercial	1,750	1,750	100.00%	97,978,702.50	97,978,702.50	100.00%	10,593	10,593	100.00%
Industrial	196	196	100.00%	56,984,295.00	56,984,295.00	100.00%	2,872	2,872	100.00%
Agricultural/ Forestry	6,219	6,219	100.00%	513,552,115.00	513,552,115.00	100.00%	369	369	100.00%
Religious/ Non-profit	438	438	100.00%	36,361,415.00	36,361,415.00	100.00%	10,593	10,593	100.00%
Government	596	596	100.00%	54,087,567.50	54,087,567.50	100.00%	238	238	100.00%
Education	46	46	100.00%	11,843,175.00	11,843,175.00	100.00%	1,404	1,404	100.00%
Utilities	22	22	100.00%	79,817,597.50	79,817,597.50	100.00%	4	4	100.00%
Total	23,215	23,215	100.00%	1,145,262,110	1,145,262,110	100.00%			

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	**N**
1. Do you know where the greatest damages may occur in your area?	X	
2. Do you know whether your critical facilities will be operational after a hazard event?	X	
3. Is there enough data to determine which assets are subject to the greatest potential damages?		X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	X	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	X	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	X	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Unincorporated Wilkes County

Hazard: Drought, Severe Weather, Winter Storm, Wildfire, Earthquake, Dam Failure

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Unicorporated	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	7,710	7,710	100.00%	157,505,722.50	157,505,722.50	100.00%	5,714	5,714	100.00%
Commercial	525	525	100.00%	26,022,020.00	26,022,020.00	100.00%	5,714	5,714	100.00%
Industrial	143	143	100.00%	46,995,525.00	46,995,525.00	100.00%	1,585	1,585	100.00%
Agricultural/ Forestry	5,975	5,975	100.00%	501,022,732.50	501,022,732.50	100.00%	318	318	100.00%
Religious/ Non-profit	264	264	100.00%	18,296,422.50	18,296,422.50	100.00%	5,714	5,714	100.00%
Government	208	208	100.00%	26,111,730.00	26,111,730.00	100.00%	138	138	100.00%
Education	1	1	100.00%	472,822.50	472,822.50	100.00%	932	932	100.00%
Utilities	10	10	100.00%	70,251,152.50	70,251,152.50	100.00%	2	2	100.00%
Total	14,836	14,836	100.00%	846,678,127.50	846,678,127.50				

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	**N**
1. Do you know where the greatest damages may occur in your area?	X	
2. Do you know whether your critical facilities will be operational after a hazard event?	X	
3. Is there enough data to determine which assets are subject to the greatest potential damages?		X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	X	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	X	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	X	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Town of Rayle

Hazard: Drought, Severe Weather, Winter Storm, Wildfire, Earthquake, Dam Failure

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Rayle	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	216	216	100.00%	3,203,887.50	3,203,887.50	100.00%	199	199	100.00%
Commercial	46	46	100.00%	792,725.00	792,725.00	100.00%	199	199	100.00%
Industrial	18	18	100.00%	178,305.00	178,305.00	100.00%	25	25	100.00%
Agricultural/ Forestry	29	29	100.00%	1,104,162.50	1,104,162.50	100.00%	4	4	100.00%
Religious/ Non-profit	2	2	100.00%	59,617.50	59,617.50	100.00%	199	199	100.00%
Government	8	8	100.00%	289,620.00	289,620.00	100.00%	6	6	100.00%
Education	0	0	100.00%	0.00	0.00	100.00%	0	0	100.00%
Utilities	1	1	100.00%	278,535.00	278,535.00	100.00%	0	0	100.00%
Total	320	320	100.00%	5,906,852.50	5,906,852.50	100.00%			100.00%

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	**N**
1. Do you know where the greatest damages may occur in your area?		
2. Do you know whether your critical facilities will be operational after a hazard event?		
3. Is there enough data to determine which assets are subject to the greatest potential damages?		
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?		
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?		
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?		
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?		

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Town of Tignall

Hazard: Drought, Severe Weather, Winter Storm, Wildfire, Earthquake, Dam Failure

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Tignall	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	855	855	100.00%	13,191,720.00	13,191,720.00	100.00%	546	546	100.00%
Commercial	104	104	100.00%	2,281,402.50	2,281,402.50	100.00%	546	546	100.00%
Industrial	12	12	100.00%	8,177,382.50	8,177,382.50	100.00%	12	12	100.00%
Agricultural	101	101	100.00%	4,066,717.50	4,066,717.50	100.00%	9	9	100.00%
Religious/ Non-profit	38	38	100.00%	1,537,710.00	1,537,710.00	100.00%	546	546	100.00%
Government	78	78	100.00%	2,333,345.00	2,333,345.00	100.00%	6	6	100.00%
Education	6	6	100.00%	3,365.00	3,365.00	100.00%	0	0	100.00%
Utilities	4	4	100.00%	1,195,507.50	1,195,507.50	100.00%	0	0	100.00%
Total	1,198	1,198	100.00%	32,787,150	32,787,150	100.00%			

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	N
1. Do you know where the greatest damages may occur in your area?	x	
2. Do you know whether your critical facilities will be operational after a hazard event?		x
3. Is there enough data to determine which assets are subject to the greatest potential damages?		x
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	x	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	x	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	x	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	x	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: City of Washington

Hazard: Drought, Severe Weather, Winter Storm, Wildfire, Earthquake, Dam Failure

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Washington	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	5,167	5,167	100.00%	120,735,912.50	120,735,912.50	100.00%	4,134	4,134	100%
Commercial	1,075	1,075	100.00%	68,882,555.00	68,882,555.00	100.00%	4,134	4,134	100%
Industrial	23	23	100.00%	1,633,082.50	1,633,082.50	100.00%	1,250	1,250	100%
Agricultural/ Forestry	114	114	100.00%	7,358,502.50	7,358,502.50	100.00%	38	38	100%
Religious/ Non-profit	134	134	100.00%	16,467,665.00	16,467,665.00	100.00%	4,134	4,134	100%
Government	302	302	100.00%	25,352,872.50	25,352,872.50	100.00%	88	88	100%
Education	39	39	100.00%	11,366,987.50	11,366,987.50	100.00%	472	472	100%
Utilities	7	7	100.00%	8,092,402.50	8,092,402.50	100.00%	2	2	100%
Total	6,861	6,861	100.00%	259,889,980	259,889,980	100.00%			

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	N
1. Do you know where the greatest damages may occur in your area?	X	
2. Do you know whether your critical facilities will be operational after a hazard event?	X	
3. Is there enough data to determine which assets are subject to the greatest potential damages?		X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	X	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	X	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	X	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Wilkes County All Jurisdictions
Hazard: Flood

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Countywide	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	13,948	75	0.583%	294,637,242.50	1,677,833	0.583%	10,593	183	2.00%
Commercial	1,750	0	0.000%	97,978,702.50	0	0.000%	10,593	0	0.00%
Industrial	196	0	0.000%	56,984,295.00	0	0.000%	2,872	0	0.00%
Agricultural/Forestry	6,219	188	3.274%	513,552,115.00	19,152,955	3.274%	369	33	9.00%
Religious/ Non-profit	438	0	0.000%	36,361,415.00	0	0.000%	10,593	0	0.00%
Government	596	0	0.000%	54,087,567.50	0	0.000%	238	0	0.00%
Education	46	0	0.000%	11,843,175.00	0	0.000%	1,404	0	0.00%
Utilities	22	0	0.000%	79,817,597.50	0	0.000%	4	0	0.00%
Total	23,215	263	1.216%	1,145,262,110	20,830,788	1.216%		216	

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	N
1. Do you know where the greatest damages may occur in your area?	X	
2. Do you know whether your critical facilities will be operational after a hazard event?	X	
3. Is there enough data to determine which assets are subject to the greatest potential damages?		X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	X	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	X	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	X	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Unincorporated Wilkes County
Hazard: Flood

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Unicorporated	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	7,710	24	0.31%	157,505,722.50	528,650	0.34%	5,714	58	1.02%
Commercial	525	0	0.00%	26,022,020.00	0	0.00%	5,714	0	0.00%
Industrial	143	0	0.00%	46,995,525.00	0	0.00%	1,585	0	0.00%
Agricultural	5,975	176	2.95%	501,022,732.50	18,266,778	3.65%	318	23	7.23%
Religious/ Non-profit	264	0	0.00%	18,296,422.50	0	0.00%	5,714	0	0.00%
Government	208	0	0.00%	26,111,730.00	0	0.00%	138	0	0.00%
Education	1	0	0.00%	472,822.50	0	0.00%	932	0	0.00%
Utilities	10	0	0.00%	70,251,152.50	0	0.00%	2	0	0.00%
Total	14,836	200	1.35%	846,678,127.50	18,795,428	2.22%		81	

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	N
1. Do you know where the greatest damages may occur in your area?	X	
2. Do you know whether your critical facilities will be operational after a hazard event?	X	
3. Is there enough data to determine which assets are subject to the greatest potential damages?		X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	X	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	X	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	X	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Town of Rayle
Hazard: Flood

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Rayle	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	216	216	100.00%	3,203,887.50	3,203,887.50	100.00%	199	0	100.00%
Commercial	46	46	100.00%	792,725.00	792,725.00	100.00%	199	0	100.00%
Industrial	18	18	100.00%	178,305.00	178,305.00	100.00%	25	0	100.00%
Agricultural/ Forestry	29	29	100.00%	1,104,162.50	1,104,162.50	100.00%	4	0	100.00%
Religious/ Non-profit	2	2	100.00%	59,617.50	59,617.50	100.00%	199	0	100.00%
Government	8	8	100.00%	289,620.00	289,620.00	100.00%	6	0	100.00%
Education	0	0	100.00%	0.00	0.00	100.00%	0	0	100.00%
Utilities	1	1	100.00%	278,535.00	278,535.00	100.00%	0	0	100.00%
Total	320	320	100.00%	5,906,852.50	5,906,852.50	100.00%			100.00%

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	**N**
1. Do you know where the greatest damages may occur in your area?		X
2. Do you know whether your critical facilities will be operational after a hazard event?		X
3. Is there enough data to determine which assets are subject to the greatest potential damages?		X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?		X
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?		X
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	X	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: Town of Tignall
Hazard: FLOOD

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Tignall	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	855	0	0.00%	13,191,720.00	0	0.00%	546	0	0.00%
Commercial	104	0	0.00%	2,281,402.50	0	0.00%	546	0	0.00%
Industrial	12	0	0.00%	8,177,382.50	0	0.00%	12	0	0.00%
Agricultural/Forestry	101	0	0.00%	4,066,717.50	0	0.00%	9	0	0.00%
Religious/ Non-profit	38	0	0.00%	1,537,710.00	0	0.00%	546	0	0.00%
Government	78	0	0.00%	2,333,345.00	0	0.00%	6	0	0.00%
Education	6	0	0.00%	3,365.00	0	0.00%	0	0	0.00%
Utilities	4	0	0.00%	1,195,507.50	0	0.00%	0	0	0.00%
Total	1,198	0	0.00%	32,787,150	0	0.00%		0	0.00%

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	**N**
1. Do you know where the greatest damages may occur in your area?	x	
2. Do you know whether your critical facilities will be operational after a hazard event?		x
3. Is there enough data to determine which assets are subject to the greatest potential damages?		x
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	x	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	x	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	x	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	x	

GEMA Worksheet #3a Inventory of Assets

Jurisdiction: City of Washington
Hazard: Flood

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

Washington	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	$ in Community or State	$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	5,167	51	0.99%	120,735,912.50	1,219,778	1.01%	4,134	125	3.02%
Commercial	1,075	0		68,882,555.00	0	0.00%	4,134	0	0.00%
Industrial	23	0		1,633,082.50	0	0.00%	1,250	0	0.00%
Agricultural/ Forestry	114	12	10.53%	7,358,502.50	898,432	12.21%	38	10	26.32%
Religious/ Non-profit	134	0		16,467,665.00	0	0.00%	4,134	0	0.00%
Government	302	0		25,352,872.50	0	0.00%	88	0	0.00%
Education	39	0		11,366,987.50	0	0.00%	472	0	0.00%
Utilities	7	0		8,092,402.50	0	0.00%	2	0	0.00%
Total	6,861	63	0.92%	259,889,980	2,118,210	0.82%	4,134	135	

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	**N**
1. Do you know where the greatest damages may occur in your area?	X	
2. Do you know whether your critical facilities will be operational after a hazard event?	X	
3. Is there enough data to determine which assets are subject to the greatest potential damages?		X
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	X	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	X	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	X	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	X	

WILKES COUNTY ALL JURISDICTIONS
HAZARD FREQUENCY TABLE

Hazard	Number of Events in Historic Record	Number of Years in Historic Record	Number of Events in Past 10 Years	Number of Events in Past 20 Years	Number of Events in Past 50 Years	Historic Recurrence Interval (years)	Historic Frequency % chance/year	20 year Historic Frequency % chance/year	Past 10 Year Record Frequency Per Year	Past 20 Year Record Frequency Per Year	Past 50 Year Record Frequency Per Year
Hurricane Surge - Cat 1						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 2						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 3						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 4						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 5						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Wind						#DIV/0!	#DIV/0!	0.00	0	0	0
Floods	14	67	11	14	14	4.79	20.90	70.00	1.1	0.7	0.28
Wildfire	90	60	19	35	83	0.67	150.00	175.00	1.9	1.75	1.66
Earthquake	8	67	2	5	8	8.38	11.94	25.00	0.2	0.25	0.16
Tornado	7	67	2	5	6	9.57	10.45	25.00	0.2	0.25	0.12
Thunderstorm Wind	56	67	22	38	55	1.20	83.58	190.00	2.2	1.9	1.1
Hail	26	67	9	20	26	2.58	38.81	130.00	0.9	1	0.52
Drought	26	67	9	26	26	2.58	38.81	130.00	0.9	1.3	0.52
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	29	67	10	19	28	2.31	43.28	95.00	1	0.95	0.56
Lightning	94	67	20	39	87	0.71	140.30	195.00	2	1.95	1.74
Dam Failure						#DIV/0!	#DIV/0!	0.00	0	0	0
Tropical Storms	14	67	5	14	14	4.79	20.90	70.00	0.5	0.7	0.28
HazMat Release (fixed)						#DIV/0!	#DIV/0!	0.00	0	0	0
HazMat Release (trans)						#DIV/0!	#DIV/0!	0.00	0	0	0
Radiological Release						#DIV/0!	#DIV/0!	0.00	0	0	0

WILKES COUNTY UNINCORPORATED
HAZARD FREQUENCY TABLE

Hazard	Number of Events in Historic Record	Number of Years in Historic Record	Number of Events in Past 10 Years	Number of Events in Past 20 Years	Number of Events in Past 50 Years	Historic Recurrence Interval (years)	Historic Frequency % chance/year	20 year Historic Frequency % chance/year	Past 10 Year Record Frequency Per Year	Past 20 Year Record Frequency Per Year	Past 50 Year Record Frequency Per Year
Hurricane Surge - Cat 1						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 2						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 3						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 4						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 5						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Wind						#DIV/0!	#DIV/0!	0.00	0	0	0
Floods	14	67	11	14	14	4.79	20.90	70.00	1.1	0.7	0.28
Wildfire	90	60	19	35	83	0.67	150.00	175.00	1.9	1.75	1.66
Earthquake	8	67	2	5	8	8.38	11.94	25.00	0.2	0.25	0.16
Tornado	7	67	2	5	6	9.57	10.45	25.00	0.2	0.25	0.12
Thunderstorm Wind	32	67	9	16	31	2.09	47.76	80.00	0.9	0.8	0.62
Hail	10	67	5	7	10	6.70	14.93	50.00	0.5	0.35	0.2
Drought	26	67	9	26	26	2.58	38.81	130.00	0.9	1.3	0.52
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	29	67	10	19	28	2.31	43.28	95.00	1	0.95	0.56
Lightning	91	67	19	36	84	0.74	135.82	180.00	1.9	1.8	1.68
Dam Failure						#DIV/0!	#DIV/0!	0.00	0	0	0
Tropical Storms	14	67	5	14	14	4.79	20.90	70.00	0.5	0.7	0.28
HazMat Release (fixed)						#DIV/0!	#DIV/0!	0.00	0	0	0
HazMat Release (trans)						#DIV/0!	#DIV/0!	0.00	0	0	0
Radiological Release						#DIV/0!	#DIV/0!	0.00	0	0	0

CITY OF RAYLE
HAZARD FREQUENCY TABLE

Hazard	Number of Events in Historic Record	Number of Years in Historic Record	Number of Events in Past 10 Years	Number of Events in Past 20 Years	Number of Events in Past 50 Years	Historic Recurrence Interval (years)	Historic Frequency % chance/year	20 year Historic Frequency % chance/year	Past 10 Year Record Frequency Per Year	Past 20 Year Record Frequency Per Year	Past 50 Year Record Frequency Per Year
Hurricane Surge - Cat 1						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 2						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 3						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 4						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 5						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Wind						#DIV/0!	#DIV/0!	0.00	0	0	0
Floods	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Wildfire	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Earthquake	8	67	2	5	8	8.38	11.94	25.00	0.2	0.25	0.16
Tornado	0	67	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Thunderstorm Wind	23	67	3	11	22	2.91	34.33	55.00	0.3	0.55	0.44
Hail	5	67	1	3	5	13.40	7.46	15.00	0.1	0.15	0.1
Drought	26	67	9	26	26	2.58	38.81	130.00	0.9	1.3	0.52
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	29	67	10	19	28	2.31	43.28	95.00	1	0.95	0.56
Lightning	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Dam Failure						#DIV/0!	#DIV/0!	0.00	0	0	0
Tropical Storms	14	67	5	14	14	4.79	20.90	70.00	0.5	0.7	0.28
HazMat Release (fixed)						#DIV/0!	#DIV/0!	0.00	0	0	0
HazMat Release (trans)						#DIV/0!	#DIV/0!	0.00	0	0	0
Radiological Release						#DIV/0!	#DIV/0!	0.00	0	0	0

CITY OF TIGNALL
HAZARD FREQUENCY TABLE

Hazard	Number of Events in Historic Record	Number of Years in Historic Record	Number of Events in Past 10 Years	Number of Events in Past 20 Years	Number of Events in Past 50 Years	Historic Recurrence Interval (years)	Historic Frequency % chance/year	20 year Historic Frequency % chance/year	Past 10 Year Record Frequency Per Year	Past 20 Year Record Frequency Per Year	Past 50 Year Record Frequency Per Year
Hurricane Surge - Cat 1						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 2						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 3						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 4						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 5						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Wind						#DIV/0!	#DIV/0!	0.00	0	0	0
Floods	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Wildfire	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Earthquake	8	67	2	5	8	8.38	11.94	40.00	0.2	0.25	0.16
Tornado	2	67	0	1	1	33.50	2.99	5.00	0	0.05	0.02
Thunderstorm Wind	21	67	2	7	20	3.19	31.34	35.00	0.2	0.35	0.4
Hail	6	67	1	3	6	11.17	8.96	15.00	0.1	0.15	0.12
Drought	26	67	9	26	26	2.58	38.81	130.00	0.9	1.3	0.52
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	29	67	10	19	28	2.31	43.28	95.00	1	0.95	0.56
Lightning	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Dam Failure						#DIV/0!	#DIV/0!	0.00	0	0	0
Tropical Storms	14	67	5	14	14	4.79	20.90	70.00	0.5	0.7	0.28
HazMat Release (fixed)						#DIV/0!	#DIV/0!	0.00	0	0	0
HazMat Release (trans)						#DIV/0!	#DIV/0!	0.00	0	0	0
Radiological Release						#DIV/0!	#DIV/0!	0.00	0	0	0

CITY OF WASHINGTON
HAZARD FREQUENCY TABLE

Hazard	Number of Events in Historic Record	Number of Years in Historic Record	Number of Events in Past 10 Years	Number of Events in Past 20 Years	Number of Events in Past 50 Years	Historic Recurrence Interval (years)	Historic Frequency % chance/year	20 year Historic Frequency % chance/year	Past 10 Year Record Frequency Per Year	Past 20 Year Record Frequency Per Year	Past 50 Year Record Frequency Per Year
Hurricane Surge - Cat 1						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 2						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 3						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 4						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Surge - Cat 5						#DIV/0!	#DIV/0!	0.00	0	0	0
Hurricane Wind						#DIV/0!	#DIV/0!	0.00	0	0	0
Floods	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Wildfire	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Earthquake	8	67	2	5	8	8.38	11.94	40.00	0.2	0.25	0.16
Tornado	0	67	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Thunderstorm Wind	32	67	7	16	31	2.09	47.76	80.00	0.7	0.8	0.62
Hail	11	67	2	7	11	6.09	16.42	35.00	0.2	0.35	0.22
Drought	26	67	9	26	26	2.58	38.81	130.00	0.9	1.3	0.52
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	29	67	10	19	28	2.31	43.28	95.00	1	0.95	0.56
Lightning	3	62	1	3	3	20.67	4.84	15.00	0.1	0.15	0.06
Dam Failure						#DIV/0!	#DIV/0!	0.00	0	0	0
Tropical Storms	14	67	5	14	14	4.79	20.90	70.00	0.5	0.7	0.28
HazMat Release (fixed)						#DIV/0!	#DIV/0!	0.00	0	0	0
HazMat Release (trans)						#DIV/0!	#DIV/0!	0.00	0	0	0
Radiological Release						#DIV/0!	#DIV/0!	0.00	0	0	0

STAPLEE Criteria	S		T			A			P			L			E				E				
	(Social)		(Technical)			dministrativ			(Political)			(Legal)			(Economic)				(Environmental)				
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Investigate greater participation Level in the CRS		+				-	-		-		-					-							
Update the FEMA Flood Hazard Base Maps.		+	+			+	+									+			+				
Continue to assess stormwater runoff.	+	+	+	+		+	-	+	+						+	-		-	+			+	
Construct as needed, more storm water retention facilities, storm drain improvements and channel improvements to protect existing and new developments.	+	+	+	+		+	+	+	+						+	+			+				
Increase the size of retention basins and run off canals where appropriate.	+	+		+		+	+		+									-					
Clear run-off and water retention ditches.	+	+	+	+			-	+	+						+	-		-	+			+	
The City of Washington identified a stormwater projects on all or parts of Jackson St, Alabama St, Old Skull Shoals Rd, Booker St, Pecan St, Benson St, Williams St, Hill St, Mobile Circle, Ware St, Norman St, South Butler St, and Lincoln Drive to reduce or eliminate storm water flooding.	+	+	+	+			-	+	+						+	-		-	+			+	
Washington identified a stormwater project at Reese Booker Street to install catch basins and stormwater pipe can divert flooding problem away from three homes.	+	+	+	+			-	+	+						+	-		-	+			+	
Wilkes County identified a stormwater projects at Peeler Road Bridge needs to be rebuilt and the road elevated	+	+	+	+			-	+	+						+	-		-	+			+	
Wilkes County identified a stormwater project at Herbert Calloway Road to increase existing 24 inch culvert needs to be replaced with a 36 inch culvert and elevate road.	+	+	+	+			-	+	+						+	-		-	+			+	
Wilkes identified a stormwater project at Boyd Road to increase existing 24 inch culvert needs to be replaced with a 36 inch culvert and elevate road.	+	+	+	+			-	+	+						+	-		-	+			+	

STAPLEE Criteria	S		T			A			P			L			E				E				
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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Wilkes County identified a stormwater project the EMS building to divert stormwater away from the building.	+	+	+	+			-	+	+						+	-		-	+			+	
Wilkes County will relocate the EMS building to the South Bypass (Andrew Drive) and combine EMS and 911 Dispatch.	+	+	+	+			-	+	+						+	-		-	+			+	
Identify flood prone properties and seek funding to acquire and convert to low impact uses.	+	+	+	+			-	+	+						+	-		-	+			+	
Identify and move property owners who are in areas continually subject to flooding.	+	+	+	+			-	+	+						+	-		-	+			+	
Review set back requirements from top of banks of creeks and from top of banks of major rivers.																							
Seek funding for communication towers and voice repeater systems.	+	+		+		+	+		+									-					
Adopt ordinances to limit and control building and development in known flood prone areas.		+	+	+		+	+	+							+	+			+			+	
Promote the preservation of areas in and around watercourses.		+	-	+		-	+								+	+		-				+	
Add greenspace to known flood prone areas.			+	+		+	-	+							+			-	+			+	
Evaluate existing water system upgrade as needed	+	+	+	+		+	-	+	+		+				+	-		-				+	
Investigate methods to reduce non-point source pollution.	+	+	-	-		-	-					+			+	-		-				+	
Promote increased surface water usage and surface artesian flow for irrigation.			+	+		+	-	+				+			+	-		-	+			+	
Enact a program to educate the residents about water conservation issues	+		+	+		-	-	+							+	+		-	+			+	
Increase public awareness of watering restrictions and bans.	+		+	+		-	+	+							+	+		+	+			+	

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Develop a public awareness campaign to promote water-saving campaigns (i.e. low-flow water saving devices)	+	+	+	+		+	+	+	+		+	+			+	+			+			+	
Continue training of all firefighters to include wildland fire training.	+		+	+		+	+	+	+		+				+	+		-				+	
Seek funding for needed firefighting equipment			+	+		+	-	+	+		+				+	+		-				+	
Seek funding for more paid firefighters.	+		+	+		+	+	+	+		+				+	+		-				+	
Inventory and replace or install more fire hydrants as needed.	+		+	+		+	+	+	+		+				+	+		-				+	
Seek funding fire engines and tankers for local fire departments.		+	+		+	-	+	+		+				+	+		-				+		
Enforce defensible space (30-ft minimum setbacks) between buildings and flammable brush and forestland where possible.		+	+		+	-	+	+		+				+	+		-				+		
Continue following GFC service of construction and maintenance of firebreaks around forests and structures, along abandoned roadbeds.		+	+		+	-	+	+		+				+	+		-				+		
Strictly follow GFC's guidelines for control burns and permits.		+	+		+	-	+	+		+				+	+		-				+		
Implement the Firewise Community Initiative where appropriate		+	+		+	-	+	+		+				+	+		-				+		
Improve public awareness of wildfire techniques and awareness of wildfire dangers.		+	+		+	-	+	+		+				+	+		-				+		
To the greatest extent possible, identify all owners of inadequately installed manufactured homes offer a financial incentive to retrofit them with an appropriate level of anchoring and support.		+	+		+	-	+	+		+				+	+		-				+		
Equip all county and city recreation parks with adequate early severe weather warning and lightning detection devices.	+		+	+		+	+	+	+						+	+		-				+	

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Equip school buses with Automated Vehicle Location	+		+	+		+	+	+	+						+	+		-				+	
Inspects public buildings and critical facilities and retrofit to reinforce windows, doors, and roofs as needed		+	+		+	+	+	+						+	+		-	+			+		
Enforce building codes for all new buildings and critical facilities.		+	+		+	+	+	+						+	+		-				+		
Inspect all county and municipal critical facilities for proper grounding.		+	+		+	+	+	+						+	+		-				+		
Install lightning rods in high value critical facilities.		+	+		+	+	+	+						+	+						+		
Install surge protectors on critical facilities' electronic equipment in essential county and city facilities.		+	+		+	+	+	+						+	+						+		
Review current Emergency Response Plan and update when needed.		+	+		+	+	+	+						+	+						+		
Review current evacuation plans paying particular attention to vulnerable populations and update as needed.	+	+	+		+	+	+	+						+	+						+		
Provide boat owners with safety tie down procedures with boat registration.		+	+		-	+	+	+						+	+						+		
Develop a public awareness program about the installation of lightning grounding systems on critical infrastructure, residential and business properties.	+		+	+		+	+	+	+						+	+		-				+		
Inventory all critical facilities and assess generator needs. Install generators where needed.	+		+	+		-	+	+	+						+	+						+		
Seek funding to ensure all current and future emergency shelters have back-up generators.	+		+	+		+	+	+	+						+	+						+		
Educate the public on shelter locations and evacuation routes	+		+	+		-	+	+	+						+	+						+		

STAPLEE Criteria	S		T			A			P			L			E				E				
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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Develop public education and awareness programs regarding severe weather events to include home safety measures, purchase of weather radio and personal safety measures before, during and after an event.	+		+	+		+	+	+	+						+	+						+	
Implement a winter storm education program to include winterization of home and/or business and what to do before, during and after. Winterization includes: underground utility lines, installation of stronger windows and doors, installation of shutters to protect windows.	+		+	+		-	+	+	+						+	+						+	
Inventory existing road equipment and purchase needed equipment to maintain roads before, during and after a winter storm event.	+		+	+		+	+	+	+						+	+							
Encourage harvesting of trees along utility and road corridors, preventing potential winter storm damage.																							
Develop a public awareness program about the installation of lightning grounding systems on critical infrastructure, residential and business properties.																							
Review current codes to comply with and enforce the State building code with criteria for design snow load for buildings and structures.	+		+	+		+	+	+	+						+	+							
Place all utility lines underground in new subdivisions.																							
Create a data base to record hazard event information.	+		+	+		-	+	+	+						+	+		-					
Conduct dam breach analysis to identify assets and population at risk in the event of a failure.	+		+	+		-	+	+	+						+	+			+				
Draft ordinance prohibiting development in dam breach zone.	+		+	+		-	+	+	+						+	+		-	+				

STAPLEE Criteria	S		T			A			P			L			E				E				
	(Social)		(Technical)			dministrativ			(Political)			(Legal)			(Economic)				(Environmental)				
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Install water level monitoring devices on dams and on all major tributaries in Wilkes County	+		+	+		+	+	+	+						+	+		-					
Install dam failure alert systems.																							
Perform field survey including dams, spillways, downstream cross section, and downstream structures within dam breach zone.																							
Inventory existing road equipment and purchase needed equipment to maintain roads before, during and after a hazard event.	+		+	+		+	+	+	+						+	+							
Develop coordinated management strategies for deicing, snow plowing, and clearing roads of fallen trees and debris	+		+	+		+	+	+	+						+	+							
Promote the construction of safe rooms in shelter areas and in public buildings.	+		+	+		-	+	+	+						+	+							
Update 911 equipment as needed.	+		+	+		+	+	+	+						+	+							
Request that all new education facilities be designed to serve as public shelters for emergency purposes.	+		+	+		+	+	+	+						+	+							
Promote and participate in the following American Red Cross Programs• Disaster Resistant Neighborhoods Program • Business and Industry Preparedness Seminar • Community Disaster Education Preparedness presentations	+		+	+		+	+	+	+						+	+							
Create an EMA website and Facebook Page with information pertaining to Emergency Preparedness.	+		+	+		+	+	+	+						+	+							
Work with local cable and radio providers to enhance and broadcast public education on Emergency Preparedness.	+		+	+		-	+	+	+						+	+		-					

STAPLEE Criteria	S		T			A			P			L			E				E				
	(Social)		(Technical)			dministrativ			(Political)			(Legal)			(Economic)				(Environmental)				
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Implement GIS mitigation information, maps and technology on fire and emergency management vehicles so that data can be readily available in the field and so that more accurate, timely assessments and future mitigation planning activities and documentation can be performed.	+		+	+		+	+	+	+						+	+							
Purchase a portable sewer transfer pumping unit	+		+	+			+	+	+						+	+		-				+	
Install eight outdoor emergency warning sirens throughout Wilkes County to obtain broader coverage.	+	+	+	+			-								+	-						+	+
Install two outdoor emergency warning sirens in Tignall.	+	+	+	+			-								+	-						+	+
Install one outdoor emergency warning siren in Rayle.	+	+	+	+			-								+	-						+	+
Seek funding to build a Fire Station on Hwy 47	+	+	+	+			-								+	-						+	+
Purchase a Brush Fire Truck	+	+	+	+			-	+	+						+	+		-				+	
Purchase a Bucket Truck to Remove Limbs along county road right-of-ways	+		+	+		+	+	+	+						+	+		-				+	
Pave Roads in county that are unpassable due to flooding	+		+	+		+	+	+	+						+	+		-				+	
Provide NOAA weather radios to elderly and handicap populations (moved to all hazards).	+		+	+		+	+	+	+						+	+		-				+	
Review existing comprehensive, development and land use plans to address flood prone areas.	+		+	+		+	+	+	+						+	+		-				+	
Preform procurement to contract with debris removal firm to have contract in place before hazards to ensure firm can move in immediately.	+		+	+		+	+	+	+						+	+		-				+	
Run HAZUS scenarios once the software is updated and compatible to RC ArcGIS 10.2 update estimated losses.	+		+	+		+	+	+	+						+	+		-				+	

STAPLEE Criteria	S		T			A			P			L			E				E				
	(Social)		(Technical)			dministrativ			(Political)			(Legal)			(Economic)				(Environmental)				
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Seek funding for code-red	+		+	+		+	+	+	+						+	+							
Conduct a survey to determine structural capability of critical facilities to function after a seismic event. Retrofit as needed.	+		+	+		+	+	+	+						+	+		-				+	
Distribute flyers and pamphlets to citizens and businesses on earthquake preparedness.	+		+	+		+	+	+	+						+	+		-				+	
Conducts earthquake scenarios to estimate potential loss of life and injuries, the types of potential damage, and existing vulnerabilities.	+		+	+		+	+	+	+						+	+		-				+	

WILKES COUNTY
HAZARD MITIGATION PLAN UPDATE

Documentation of Labor Match

NAME (Please Print): _____

ORGANIZATION: _____

DATE(S): _____

EVENT: __Hazard Mitigation Plan Update_____

HOURLY SALARY: _____

BENEFITS PER HOUR: _____

HOURS CONTRIBUTED (Include travel time): _____

TOTAL LABOR MATCH:_____

(Hourly Salary + Benefits per Hour) X Hours Contributed = Total Labor Match

SIGNATURE: _____

(FORM IS NOT VALID WITHOUT SIGNATURE)

"I authorize GEMA/HS to use the value identified for federal costs sharing matching purposes and do not otherwise believe that I am currently paid with federal funds or that my salary is being used to satisfy any other federal costs sharing obligation."

For use by Committee Members (e.g. EMA Director, County Engineer ...)

EXHIBIT "H"

Date:

XXXX County PDM Progress Payment Request

Instructions: All requests for progress payments must be supported by documentation supporting actual expenditures. Itemize each expenditure below to the fullest detail possible, including a reference to specific sites or elements of work. Attach documentation that supports this progress payment request, such as copies of bills of sale, invoices, receipts, and canceled checks evidencing payment. Do not send originals. As project administrative costs are calculated on a sliding scale, do not include this in your request for payment. Attach a continuation sheet if necessary.

AGREEMENT NUMBER **HHM1** FEMA Project Number **HMGP-**

SUBGRANTEE NAME: XXXX County (FIPs code) ID. Number**:**

Site Reference or Element of Work	Approved Amount	Previous Payment	Current Request	Description of Documentation Attached in Support of this Payment Request
Plan Update Complete and submitted to GEMA for Review		00		Invoice and Check are attached

(from continuation sheet attached) **SUBTOTAL**	
TOTAL	
Less Subgrantee Share (25%) or 15% if State match is applicable)	
Less State Share if applicable (10%)	
NET AMOUNT REQUESTED	

Under penalty of perjury, I certify that to the best of my knowledge and belief the data above are correct and that all outlays were made in accordance with the grant conditions or other agreement, comply with procurement regulations contained within the 44 CFR, Part 13, and that payment is due and has not been previously requested. I am familiar with Section 317 of Public Law 93-288, as amended by the Robert T. Stafford Disaster Relief and Emergency Assistance Act. I understand that any part of this payment request that is not supported by cost documents and/or expended within the scope of the approved project will be refunded to the State of Georgia within 30 days of receiving the deobligation notice.

_____

Signature of Subgrantee's Authorized Representative (and printed name)

Facility Name

Location

Longitude

Latitude

Location Method: [ ] Geocode [ ] GPS [ ] GPS-closed [ ] GPS - dnr [ ] Manual add

Address 1:

Address 2: (PO BOX)

City: Zip:

Jurisdiction:

Daytime Occupancy:

Night Occupancy:

Building Value

Number of Stories:

Functional Use Value:

Year Constructed:

Displacement Cost Per Day:

Area Sq Ft:

Contents Value:

Bldg Value:

Contents Value Year:

Valuation Year:

Contents Description:

Building Valuation Type: [ ] 0 = Unknown [ ] 1 = Market Value [ ] 2 = Assessed Value [ ] 3 = Replacement Value [ ] 99 = Other

*Mark any or all that apply. See back of page for details.

- [ ] Essential Facility
- [ ] Transportation Facility
- [ ] Lifeline System
- [ ] High Potential Loss
- [ ] HazMat Facility
- [ ] Important Facility
- [ ] Vulnerable Population
- [ ] Economic Asset
- [ ] Special Consideration
- [ ] Historical Consideration
- [ ] Other Facility

Other Details:

See back of page for codes.

Building Type Code:

Occupancy Code:

*Choose Only One Faciltiy Type

Facility Type:

- [ ] Pre-kindergarten
- [ ] Kindergarten
- [ ] Primary School
- [ ] Elementary School
- [ ] Middle School
- [ ] Middle/High School
- [ ] High School, Public
- [ ] Private School
- [ ] Other School
- [ ] Alternative Division
- [ ] Alternative School
- [ ] Private Two-Year College
- [ ] Public Two-Year College
- [ ] Private Four-Year College
- [ ] Public Four-Year College
- [ ] Private University
- [ ] Public University
- [ ] Public Vocational Technical School
- [ ] Psychoeducational
- [ ] Adult Edu. Center
- [ ] Airport
- [ ] City Hall
- [ ] City Jail
- [ ] County Correctional Institution
- [ ] County Jail
- [ ] Courthouse
- [ ] Federal Penitentiary
- [ ] Fire Station
- [ ] Wastewater Treatment Plant
- [ ] Water System
- [ ] C and D Construction and Demolition Landfill
- [ ] L (Dry Trash) Landfill
- [ ] MSWL (Municipal Solid Waste Landfill)
- [ ] SL (Sanitary Waste) Landfill
- [ ] Recycling Center
- [ ] Transfer Station
- [ ] Hospital, Admissions Entrance
- [ ] Hospital, Emergency Entrance
- [ ] Library
- [ ] Marshals Office
- [ ] Police Station
- [ ] Sheriffs Office
- [ ] Emergency Services
- [ ] State Prison
- [ ] Other

Building Type Code:

[ ] C1 = Concrete Moment Frame
[ ] C2 = Concrete Shear Walls
[ ] C3 = Concrete Frame with Unreinforced Masonry Infill Walls
[ ] MH = Manufactured Housings
[ ] O = Other Building Type
[ ] P1 = Precast Concrete Tilt-Up Walls
[ ] P2 = Precast Concrete Frames with Cast-in-Place Concrete Shear Walls
[ ] RM1 = Reinforced Masonry Bearing Walls with Wood or Metal Deck Diaphragms
[ ] RM2 = Reinforced Masonry Bearing Walls with Precast Concrete Diaphragms
[ ] S1 = Steel Moment Frame
[ ] S2 = Steel Braced Frame
[ ] S3 = Steel Light Frame
[ ] S4 = Steel Frame with Cast-in-Place Concrete Shear Walls
[ ] S5 = Steel Frame with Unreinforced Masonry Infill Walls
[ ] URM = Unreinforced Masonry Bearing Walls
[ ] UNK = Unknown Building Type

Occupancy Code:

[ ] AGR1 = Agriculture Facilities and Offices
[ ] COM1 = Retail Trade
[ ] COM2 = Wholesale Trade
[ ] COM3 = Personal and Repair Services
[ ] COM4 = Professional/Technical Services
[ ] COM5 = Banks
[ ] COM6 = Hospital
[ ] COM7 = Medical Office and Clinic
[ ] COM8 = Entertainment _Recreation
[ ] COM9 = Theaters
[ ] COM10 = Parking Garages
[ ] EDU1 = Grade Schools and Admin. Offices
[ ] EDU2 = Colleges and Universities
[ ] GOV1 = Government - General Services
[ ] GOV2 = Government - Emergency Response
[ ] UNK = Unknown
[ ] IND1 = Heavy Industrial
[ ] IND2 = Light Industrial
[ ] IND3 = Food/Drugs/Chemicals
[ ] IND4 = Metals/Minerals Processing
[ ] IND5 = High Technology
[ ] IND6 = Construction Facilities and Offices
[ ] REL1 = Churches and Non-Profit Organizations
[ ] RES1 = Single Family Dwellings
[ ] RES2 = Manufactured Housing
[ ] RES3A = Duplex
[ ] RES3B = 3 to 4 Units
[ ] RES3C = 5 to 9 Units
[ ] RES3D = 10 to 19 Units
[ ] RES3E = 20 to 49 Units
[ ] RES3F = > 50 Units
[ ] RES4 = Temporary Lodging
[ ] RES5 = Institutional Dormitories
[ ] RES6 = Nursing Homes

Definitions:

Essential Facility
An essential facility is a critical facility that is essential to the health and welfare of the population. The potential consequences of losing functions or services from this type of facility are higher than any other type of structures. Interruption or loss of function from these types of facilities would jeopardize human life and public safety. Essential facilities include: hospitals and other medical facilities, police and fire stations, emergency operations centers, evacuation shelters and schools, and other structures that house first responder equipment or personnel.

Transportation Systems
Transportation infrastructure or facilities. Examples include:
Airways: airports, heliports,
Highways: bridges, tunnels, roadbeds, overpasses, transfer stations.
Railways: tracks, tunnels, bridges, rail yards, depots, switching stations.
Waterways: canals, locks, ports, ferries, dry-docks, piers.

Lifeline System
Corridors of flow for equipment, supplies and services. Transportation systems can also be Lifeline Systems. The best physical example of a lifeline would be a bridge and right-of-way that could include utilities and communication. Examples include: potable water, wastewater, oil, natural gas, electric power, and communication.

High Potential Loss Facility
Facilities that would have a high human loss associated with their damage or failure. Examples include: nuclear power plants, dams and military installations.

Hazardous Materials Facility
Facilities that produce or house industrial/hazardous materials, such as corrosives, explosives, flammable materials, radioactive materials, and toxins. Check to see if your county has a Local Emergency Planning Committee (LEPC) and an existing Hazardous Material listing.

Important Facility
These types of facilities are vital for overall day to day community functions, and ensure full recovery in the wake of a hazard or disaster event. Examples include: government buildings and functions, major employers in the area, bank and financial institutions, non-nuclear power generators, certain commercial establishments such as grocery stores, hardware stores and gas stations, technical schools, colleges, and universities.

Vulnerable Population
Is there a vulnerable human population that occupies the structure that would need special assistance, medical care or other actions before, during or after a hazard event or disaster? Examples include: elderly people, jail populations, people with mental, physical or mobility problems, and non-English speaking populations.

Economic Assets
Larger economic assets that are vital to the prosperity of the community. Examples include major employers and financial centers in your community or area that impact the local or regional economy if significantly disrupted.

Special Considerations
High-density areas (residential or commercial development), if damaged or impacted in a hazard event or disaster, could result in high death tolls or injury rates. Examples include: larger factories or industries, large vertical apartment or housing complexes.

Historic Considerations
Historic, cultural or natural resources, including structures and areas that are identified and protected under state or federal law. Examples include: state parks, federal parks, museums and historic districts.

Other Facilities
Any other significant locally identified facility that does not fit into another category of those listed above.

Comments: