APPENDIX D

WORKSHEETS USED IN PLANNING PROCESS

GEMA Worksheet #1 Identify the Hazard Step 1

Date: What kinds of natural hazards can affect you?

Task A. List the hazards that may occur.

1. *Research newspapers and other historical records*
2. *Review existing plans and reports.*
3. *Talk to the experts in your community, state, or region.*
4. *Gather information on Internet Websites.*
5. *Next to the hazard list below, put a check mark in the Task A boxes beside all hazards that may occur in your community or state.*

Task B. Focus on the most prevalent hazard in your community or state.

1. *Go to hazard Websites.*
2. *Locate your community or state on the Wesbite map.*
3. *Determine whether you are in a high-risk area. Get more localized information if necessary.*
4. *Next to the hazard list below, put a check mark in the Task B boxes beside all hazards that post a significant threat.*

	Task A	**Task B**
Avalanche	___	___
Costal Erosion	**___**	**___**
Costal Storm	___	___
Dam Failure	**_X__**	**_X**
Drought	_X_	_X_
Earthquake	**_X__**	**_**
Expansive Soils	___	___
Extreme Heat	_X__	_
Flood	**_X__**	**_X**
Hailstorm	_X__	__
Hurricane	**___**	**___**
Land Slide	___	___
Severe Winter Storm	_x__	X
Tornado	**_X__**	**___**
Tsunami	**___**	**___**
Volcano	___	___
Wildfire	**_X__**	**X_**
Windstorm	__X_	X_
Hazard Material	___	___
Radiological	___	___
Other_____	___	___
Other_____	___	___
Other_____	___	___

*Note: **Bolded** hazards are addressed in this How-to Guide.*

Use this space to record information you find for each of the hazards you will be researching. Attach additional pages as necessary.

Hazard or Event Description (Type of hazard, date of event, number of injuries, cost and types of damage, etc.)	**Source of Information**	**Map Available for this Hazard?**	**Scale of Map**
See each section of plan and Appendix A for complete list	See Sources on page 98 of plan	Maps for all hazards are behind Appendix A	

GEMA Worksheet #2 Profile Hazard Events Step 2

County: Date:

How Bad Can It Get?

Task A. Obtain or create a base map.

GEMA will be providing you with a base map, USGS topos and DOQQ as part of our deliverables to local government for the planning process. Additionally, we will be providing you with detailed hazard layer coverages. These data layers originate from state or nationwide coverage or datasets. Therefore, it is important for local government to assess what you already have at the local level. It is important for you at the local level to have an idea of what existing maps you have available for the planning process. Some important things to think about:

1) What maps do we already have in the county that would be relevant to the planning process?
2) Have other local plans used maps or mapping technology where there is specific data that is also needed in my local plan?
3) What digital maps do we have?
4) Do we have any Geographic Information System (GIS) data, map themes or layers or databases here at the local level (or regional) that we can use?
5) If we do have any GIS data, where is it located at, and who is our local expert?
6) Are there any ongoing GIS or mapping initiatives at the local level in other planning or mapping efforts? If so, what are they, and what are the timetables for completion?
7) Are there mapping needs that have been identified at the local level in the past? If so, what are they and when were they identified?
8) Of the existing maps, GIS data and other digital mapping information, what confidence do we have at the local level that it is accurate data?

Please answer the above questions on a separate sheet of paper and attach to this worksheet.
It is important to realize that those counties that already have GIS and digital mapping, (ie: parcel level data, GPS fire hydrants, etc) higher levels of spatial accuracy and detail will exist for some data layers at the local level. However, for this planning process, that level of detail will not be needed on all layers in the overall mapping and analysis.

You can use existing maps from:

- Road Maps
- USGS topographic maps or Digital Orthophoto Quarter Quads (DOQQ)
- Topographic and/or planimetric maps from other agencies
- Aerial topographic and/or planimetric maps
- Field Surveys
- GIS software
- CADD software
- Digitized paper map

Title of Map	Scale	Date

Task B. Obtain a hazard event profile.	Task C. Record your hazard event profile information.
Avalanche	
Coastal Storm / Coastal Erosion 1. Get a copy of your FIRM. __ 2. Verify that the FIRM is up-to-date and complete. _____ 3. Determine the annual rate of coastal erosion. _____N/A_____ 4. Find your design wind speed. _____	1. Transfer the boundaries of your coastal storm hazard areas onto your base map. 2. Transfer the BFEs onto your base map. 3. Record the erosion rates on your base map: _____ 4. Record the design wind speed here and on your base map: _____
Dam Failure	
Drought	
Earthquake 1. Go to the http://geohazards.cr.usgs.gov Website. 2. Locate your planning area on the map. 3. Determine your PGA.	1. Record your PGA: _____ 2. If you have more than one PGA print, download or order your PGA map.
Expansive Soils	
Extreme Heat	
Flood 1. Get a copy of your FIRM. __Yes_____ 2. Verify the FIRM is up-to-date and complete. _____	1. Transfer the boundaries from your firm onto your base map (floodway, 100-yr flood, 500-yr flood). 2. Transfer the BFEs onto your base map.
Hailstorm	
Hurricane	
Land Subsidence	
Landslide 1. Map location of previous landslides. _____ 2. Map the topography. _____ 3. Map the geology. _____ 4. Identify thee high-hazard areas on your map. _____	1. Mark the areas susceptible to landslides onto your base map.
Severe Winter Storm	
Tornado 1. Find your design wind speed.	1. Record your design wind speed: _____ 2. If you have more than one design wind speed, print, download or copy your design wind speed zones, copy the boundary of your design wind speed zones on your base map, then record the design wind speed zones on your base map.
Tsunami	
Wildfire 1. Map the fuel models located within the urban-wildland interface areas. _____ 2. Map the topography. _____ 3. Determine your critical fire weather frequency. _____ 4. Determine your fire hazard severity. _____	1. Draw the boundaries of your wildfire hazard areas onto your base map.
Other 1. Map the hazard. _____	1. Record hazard event info on your base map.

WARREN COUNTY TOWN OF CAMAK
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	1	67	0	1	1	67.00	1.49	5.00	0	0.05	0.02
Wildfire	0	55	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Earthquake						#DIV/0!	#DIV/0!	0.00	0	0	0
Tornado	0	137	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Thunderstorm Wind	35	67	3	7	23	1.91	52.24	35.00	0.3	0.35	0.46
Hail	15	67	0	0	6	4.47	22.39	0.00	0	0	0.12
Drought	29	67	13	29	29	2.31	43.28	145.00	1.3	1.45	0.58
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	28	103	5	9	17	3.68	27.18	45.00	0.5	0.45	0.34
Lightning	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Dam Failure	0	62	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Tropical Storms	13	67	4	13	13	5.15	19.40	65.00	0.4	0.65	0.26
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

COUNTY WARREN COUNTY TOWN OF NORWOOD
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	2	67	1	2	2	33.50	2.99	10.00	0.1	0.1	0.04
Wildfire	0	55	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Earthquake						#DIV/0!	#DIV/0!	0.00	0	0	0
Tornado	1	142	1	1	1	142.00	0.70	5.00	0.1	0.05	0.02
Thunderstorm Wind	37	67	2	9	25	1.81	55.22	45.00	0.2	0.45	0.5
Hail	16	67	1	2	7	4.19	23.88	10.00	0.1	0.1	0.14
Drought	29	67	13	29	29	2.31	43.28	145.00	1.3	1.45	0.58
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	28	103	5	9	17	3.68	27.18	45.00	0.5	0.45	0.34
Lightning	0	0	0	0	0	#DIV/0!	#DIV/0!	0.00	0	0	0
Dam Failure	0	62	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Tropical Storms	13	67	4	13	13	5.15	19.40	65.00	0.4	0.65	0.26
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

WARREN COUNTY CITY OF WARRENTON
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	1	67	0	1	1	67.00	1.49	5.00	0	0.05	0.02
Wildfire						0.91	109.84	185.00	2.2	1.85	1.32
Earthquake						#DIV/0!	#DIV/0!	0.00	0	0	0
Tornado	1	142	1	1	1	142.00	0.70	5.00	0.1	0.05	0.02
Thunderstorm Wind	43	67	2	11	31	1.56	64.18	55.00	0.2	0.55	0.62
Hail	21	67	2	7	12	3.19	31.34	35.00	0.2	0.35	0.24
Drought	29	67	13	29	29	2.31	43.28	145.00	1.3	1.45	0.58
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	28	103	5	9	17	3.68	27.18	45.00	0.5	0.45	0.34
Lightning	4	67	3	4	4	16.75	5.97	20.00	0.3	0.2	0.08
Dam Failure	0	62	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Tropical Storms	13	67	4	13	13	5.15	19.40	65.00	0.4	0.65	0.26
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

WARREN 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	2	67	1	2	2	33.50	2.99	10.00	0.1	0.1	0.04
Wildfire	55	55	16	32	55	1.00	100.00	160.00	1.6	1.6	1.1
Earthquake						#DIV/0!	#DIV/0!	0.00	0	0	0
Tornado	8	142	4	4	7	17.75	5.63	20.00	0.4	0.2	0.14
Thunderstorm Wind	39	67	6	10	27	1.72	58.21	50.00	0.6	0.5	0.54
Hail	18	67	2	4	9	3.72	26.87	20.00	0.2	0.2	0.18
Drought	29	67	13	29	29	2.31	43.28	145.00	1.3	1.45	0.58
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Snow & Ice	28	103	5	9	17	3.68	27.18	45.00	0.5	0.45	0.34
Lightning	68	67	16	32	62	0.99	101.49	160.00	1.6	1.6	1.24
Dam Failure	0	62	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Tropical Storms	13	67	4	13	13	5.15	19.40	65.00	0.4	0.65	0.26
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

WARREN COUNTY WIDE INCLUDES 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	3	67	2	3	3	22.33	4.48	15.00	0.2	0.15	0.06
Wildfire	67	61	22	37	66	0.91	109.84	185.00	2.2	1.85	1.32
Earthquake						#DIV/0!	#DIV/0!	0.00	0	0	0
Tornado	8	142	4	4	7	17.75	5.63	20.00	0.4	0.2	0.14
Thunderstorm Wind	61	67	14	28	49	1.10	91.04	140.00	1.4	1.4	0.98
Hail	28	67	5	13	19	2.39	41.79	65.00	0.5	0.65	0.38
Drought	29	67	13	29	29	2.31	43.28	145.00	1.3	1.45	0.58
Extreme Heat						#DIV/0!	#DIV/0!	0.00	0	0	0
Winter Storm	28	103	5	9	17	3.68	27.18	45.00	0.5	0.45	0.34
Lightning	84	62	25	41	77	0.74	135.48	205.00	2.5	2.05	1.54
Dam Failure	0	61	0	0	0	#DIV/0!	0.00	0.00	0	0	0
Tropical Storms	13	67	4	13	13	5.15	19.40	65.00	0.4	0.65	0.26
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
										0	

STAPLEE Criteria	S		T			A			P			L			E				E						
	(Social)		(Technical)			(Administrative)			(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	Alternative Actions	Comments
FLOODING																									
Warren County: Adopt floodplain ordinances and participate in the NFIP.	X																								
City of Camak: Adopt floodplain ordinances and participate in the NFIP	X																								
City of Norwood: Adopt floodplain ordinances and participate in the NFIP.	X																								
City of Warrenton: Update floodplain maps.	X			X			X					X	X		X	X		X				X	X		Costly expenditure all jurisdictions need to participate
Warren County: Continue to assess stormwater runoff and watershed plans.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		Funding needs to be allocated is quite costly but long term benefit
City of Warrenton: Continue to assess stormwater runoff.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
City of Camak: Continue to assess stormwater runoff.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
City of Norwood: Continue to assess stormwater runoff.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
Warren County: Assess and construct as needed, more storm water retention facilities, storm drain improvements and channel improvements to protect existing and new developments.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
City of Warrenton: Assess and construct as needed, more storm water retention facilities, storm drain improvements and channel improvements to protect existing and new developments.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
City of Camak: Assess and construct as needed, more storm water retention facilities, storm drain	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
City of Camak: Assess and construct as needed, more storm water retention facilities, storm drain improvements and channel improvements to protect existing and new developments.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
City of Norwood: Assess and construct as needed, more storm water retention facilities, storm drain improvements and channel improvements to protect existing and new developments.	X		X	X	X		X	X	X		X		X			X	X	X	X			X	X		
Warren County: Review set back requirements from top of banks of creeks and from top of banks major rivers.					X	X													X						
Warren County: Clear run-off and water retention ditches.	X		X	X	X		X	X	X		X		X			X	X		X			X	X		

STAPLEE Criteria	S		T			A			P			L			E				E						
	(Social)		(Technical)			(Administrative)			(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	Alternative Actions	Comments
City of Warrenton: Clear run-off and water retention ditches.	X		X	X	X		X	X	X		X		X			X	X		X				X	X	
City of Camak: Clear run-off and water retention ditches.	X		X	X	X		X	X	X		X		X			X	X		X				X	X	
City of Norwood: Clear run-off and water retention ditches.	X		X	X	X		X	X	X		X		X			X	X		X				X	X	
Warren County: Install flood alarms and measuring devices in creeks, ponds, etc. to provide a warning when water levels become dangerously high.																									
Warren County: Determine the elevation of all critical facilities in known flood areas and mitigate if necessary.																									completed
City of Warrenton: Determines the elevation of all critical facilities in known flood areas and mitigate if necessary.																									completed
City of Camak: Determines the elevation of all critical facilities in known flood areas and mitigate if necessary.																									completed
City of Norwood: Determines the elevation of all critical facilities in known flood areas and mitigate if necessary.																									completed
Warren County: Identify and move property owners located in areas continually subject to flooding.														x	X	X	X								
City of Warrenton: Identify and move property owners located in areas continually subject to flooding.														x	X	X	X								
City of Camak: Identify and move property owners who are in areas continually subject to flooding.														x	X	X	X								
City of Norwood: Identify and move property owners who are in areas continually subject to flooding.														x	X	X	X								
Warren County: Review existing comprehensive, development and land use plans to address flood prone areas.																									completed
City of Warrenton: Review existing comprehensive, development and land use plans to address flood prone areas.																									completed
City of Camak: Review existing comprehensive, development and land use plans to address flood prone areas.																									completed
City of Norwood: Review existing comprehensive, development and land use plans to address flood prone areas.																									completed
Warren County: Adopt ordinances to control building and development in known flood prone areas.																									completed
City of Warrenton: Adopt ordinances to control building and development in known flood prone areas.																									completed
City of Camak: Adopt ordinances to control building and development in known flood prone areas.																									completed
City of Norwood: Adopt ordinances to control building and development in known flood prone areas.																									
Warren County: Promote the preservation of areas in and around watercourses.	x			x	x								x		x		x		x			x	x		
Warren County: Add greenspace to known flood				x	x								x		x		x		x			x	x		
Warren County: Acquire flood prone properties and converts to low impact uses such as recreation areas.		x	x	x									x	x	x		x	x					x		

STAPLEE Criteria	S		T			A			P			L			E				E						
	(Social)		(Technical)			(Administrative)			(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	Alternative Actions	Comments
City of Warrenton: Acquire flood prone properties and converts to low impact uses such as recreation areas.		x	x	x									x	x	x		x	x					x		
Warren County: Cap wells not in use and increase wellhead waterproofing.						x																			
Warren County: Ensure well head elevations are above known flooding levels.						x																			
Warren County: Evaluate existing water systems																									does not have a water system remove.
City of Warrenton: Evaluate existing water systems.				x	x	x		x	x		x		x		x	x	x	x				x			
City of Camak: Evaluate existing water systems.				x	x	x		x	x		x		x		x	x	x	x				x			
City of Norwood: Evaluate existing water systems.				x	x	x		x	x		x		x		x	x	x	x				x			
Warren County: investigate methods to reduce nonpoint source pollution.																									
DAM FAILURE																									
Warren County: Draft ordinance prohibiting development in dam breach zone.						x																			
Warren County: Perform field survey including dams, spillways, downstream cross section, and downstream structures within dam breach zone.															x	x	x	x							
Warren County: Install dam failure alert systems.															x	x	x	x							
Warren County: Update inventory of dams, record GPS coordinates, and conduct initial assessment of dam safety.												x			x	x	x	x							remove state function
Warren County: Inspect all dams and document any deficiencies to include taking photographs, taking field checklist of key items.measurements, and fill out a visual inspection												x													remove state function
DROUGHT																									
Warren County to include the Cities of Warrenton, Camak and Norwood: Identify and inventory all vulnerable livestock and develops a protective action plan agricultural properties to include																									completed
Warren County: Study the range of federal support programs available to assist Warren County's agriculture community.																									
Warren County: Promote increased surface water usage and surface artesian flow for irrigation.																									good action but hard to promote
Warren County: Conduct a study of proactive measures for Warren County's agriculture to include livestock watering ponds and capturing storm water runoff.	X		X	X					X		X														
Warren County: Seek funding for private wells that have gone dry.																									removed no fnding

STAPLEE Criteria	S		T			A			P			L			E				E						
	(Social)		(Technical)			(Administrative)			(Political)			(Legal)			(Economic)				(Environmental)						
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Warren County to include the Cities of Warrenton, Camak and Norwood: Increase public awareness of watering restrictions and bans.	X					X		X	X	X		X					X		X						
Warren County: Enact a program to educate the residents about water conservation issues.	X					X		X	X	X		X					X		X						
City of Warrenton: Enact a program to educate the residents about water conservation issues.	X					X		X	X	X		X					X		X						
City of Camak: Enact a program to educate the residents about water conservation issues.	X					X		X	X	X		X					X		X						
WILDFIRE																									
Warren County: Review previous firefighter training and implements a schedule for the ongoing training of all firefighters to include wildland fire training.	X					X		X	X	X		X			X	X		x							
City of Warrenton: Review previous firefighter training and implements a schedule for the ongoing	X					X		X	X	X		X			X	X		x							
training and implements a schedule for the ongoing training of all firefighters to include wildland fire	X					X		X	X	X		X			X	X		x							
City of Camak: Review previous firefighter training and implements a schedule for the ongoing training of all firefighters to include wildland fire training.	X					X		X	X	X		X			X	X		x							
City of Norwood: Review previous firefighter training and implements a schedule for the ongoing training of all firefighters to include wildland fire training.	X					X		X	X	X		X			X	X		x							
Warren County: Seek funding for better fire fighting equipment.	X					X		X	X	X		X			X	X		x							
City of Warrenton: Seek funding for better fire fighting equipment.	X					X		X	X	X		X			X	X		x							
City of Camak: Seek funding for better fire fighting equipment.	X					X		X	X	X		X			X	X		x							
City of Norwood: Seek funding for better fire fighting equipment.	X					X		X	X	X		X			X	X		x							
Warren County: Inventory and install more fire hydrants as needed.	X					X		X	X	X		X			X	X		x							
City of Warrenton: Inventory and install more fire hydrants as needed.	X					X		X	X	X		X			X	X		x							
City of Camak: Inventory and install more fire hydrants as needed.	X					X		X	X	X		X			X	X		x							
City of Norwood: Inventory and install more fire hydrants as needed.	X					X		X	X	X		X			X	X		x							
Warren County: Seek funding for more fire tankers (2000 to 3000 gallons) for local fire departments.	X					X		X	X	X		X			X	X		x							
Warren County: Improves access to airborne fire protection.																									remove to costly
Warren County: Establish defensible space (30-ft minimum setbacks) between buildings and flammable brush and forestland.	X					X		X	X	X		X			X	X		x							
City of Camak: Relocate its fire station to ensure response capabilities 100% of the time.	X					X	X	X	X	X	X	X			X	X	X	x							
Warren County: Strictly follows Georgia Forestry and permits.	X					X		X	X	X		X			X	X		x							
City of Warrenton: Strictly follows Georgia Forestry Commission's (GFC) guidelines for control burns and permits.	X					X		X	X	X		X			X	X		x							

STAPLEE Criteria	S		T			A			P			L			E				E							
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City of Camak: Strictly follows Georgia Forestry Commission's (GFC) guidelines for control burns and permits.	X					X		X	X	X		X			X	X		x							
City of Norwood: Strictly follows Georgia Forestry Commission's (GFC) guidelines for control burns and permits.	X					X		X	X	X		X			X	X		x							
Warren County: Continue GFC service of construction and maintenance of firebreaks around forests and structures, along abandoned roadbeds.	X					X		X	X	X		X			X	X		x							
City of Warrenton: Continue GFC service of construction and maintenance of firebreaks around forests and structures, along abandoned roadbeds.	X					X		X	X	X		X			X	X		x							
City of Camak: Continue GFC service of construction and maintenance of firebreaks around forests and structures.	X					X		X	X	X		X			X	X		x							
City of Norwood: Continue GFC service of construction and maintenance of firebreaks around	X					X		X	X	X		X			X	X		x							
Warren County: Continue hazardous fuel reduction by prescribed burning, mechanical or chemical treatment carried out and promoted by GFC guidelines.	X					X		X	X	X		X			X	X		x							
Warren County: Implement the Firewise Community Initiative within the county to include the Cities of Warrenton, Camak and Norwood.	X					X		X	X	X		X			X	X		x							
Warren County: Improve public awareness of Pre-Disaster Mitigation Plan Warren County 49 wildfire techniques and awareness of wildfire dangers to include the Cities of Warrenton, Camak, and Norwood.	X					X		X	X	X		X			X	X		x							
SEVERE WEATHER																										
Warren County and the Cities of Warrenton, Camak and Norwood: Seek funding for a reverse 911 or Voice-Over-Internet Protocol system.	X					X		X							x	x										removed
Warren County: Review building codes for proper wind strength and safety regulations and for consistency with state and federal regulations.	X					X		X							x	x										
City of Warrenton: Review building codes for proper wind strength and safety regulations and for consistency with state and federal regulations.	X					X		X							x	x										
City of Camak: Review building codes for proper wind strength and safety regulations and for consistency with state and federal regulations.	X					X		X							x	x										
City of Norwood: Review building codes for proper wind strength and safety regulations and for consistency with state and federal regulations.	X					X		X							x	x										removed
Warren County: Inspect power lines to determine if trees need to be trimmed or cut down.																										removed
City of Warrenton: Inspect power lines to determine if trees need to be trimmed or cut down.																										removed

STAPLEE Criteria	S		T			A			P			L			E				E						
	(Social)		(Technical)			(Administrative)			(Political)			(Legal)			(Economic)				(Environmental)						
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City of Camak: Inspect power lines to determine if trees need to be trimmed or cut down.																									removed
City of Norwood: Inspect power lines to determine if trees need to be trimmed or cut down.																									
Warren County: Inspect public buildings and critical facilities and retrofit to reinforce windows, doors, and roofs as needed	X					X		X							x	x		x							
City of Warrenton: Inspect public buildings and critical facilities and retrofit to reinforce windows, doors, and roofs as needed.	X					X		X							x	x		x							
City of Camak: Inspect public buildings and critical facilities and retrofit to reinforce windows, doors, and roofs as needed.	X					X		X							x	x		x							
City of Norwood: Inspect public buildings and critical facilities and retrofit to reinforce windows, doors, and roofs as needed.	X					X		X							x	x		x							
Warren County and the Cities of Warrenton, Camak and Norwood: Provide weather radios to elderly and handicap populations.	x					x					x				x	x		x							no funding
Warren County and the Cities of Warrenton, Camak and Norwood: Review current Emergency Response Plan and update when needed.	x					x					x				x	x		x							
Warren County and the Cities of Warrenton, Camak and Norwood: Review current evacuation plans paying particular attention to vulnerable populations and update as needed.	x					x					x				x	x		x							
Warren County and the Cities of Warrenton, Camak and Norwood: Inventory all critical facilities and assess generator needs and install generators where needed.	x					x					x				x	x		x							
Warren County and the Cities of Warrenton, Camak and Norwood: Seek funding to ensure all emergency shelters have back-up generators.	x					x					x				x	x		x							
Warren County: Require new education facilities be designed to serve as public shelters for emergency purposes.	x						x		x		x	x	x		x	x		x							
Warren County and the Cities of Warrenton, Camak and Norwood: Promote and participate in the following American Red Cross Programs • Disaster Resistant Neighborhoods Program (educating communities) • Business and Industry Preparedness Seminar (educating businesses on business continuity Pre-Disaster Mitigation Plan Warren County 55 planning) • Community Disaster Education Preparedness presentations (educating adults, children and families)	x					x		x			x		x												
Warren County and the Cities of Warrenton, Camak and Norwood: Educate the public on shelter locations and evacuation routes in the event of a natural disaster.	x					x		x			x		x												
Warren County and the Cities of Warrenton, Camak and Norwood: Develops public education and awareness programs regarding severe weather events (tornadoes, tropical storms, and thunderstorm winds) to include home safety measures, purchase of weather radio and personal safety measures before, during and after an event.	x					x		x			x		x												

STAPLEE Criteria	S		T			A			P			L			E				E						
	(Social)		(Technical)			(Administrative)			(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	Alternative Actions	Comments
WINTER STORMS																									
Warren County: Inventory and assess generator needs at critical facilities and install generators where needed.	x					x					x				x	x		x							
City of Warrenton: Inventory and assess generator needs at all city critical facilities and install generators where needed.	x					x					x				x	x		x							
City of Camak: Inventory and assess generator needs at all city critical facilities and install generators where needed.	x					x					x				x	x		x							
City of Norwood: Inventory and assess generator needs at all city critical facilities and install generators where needed.	x					x					x				x	x		x							
Warren County: Place all utility lines underground in new subdivisions.						x																			
City of Warrenton: Place all utility lines underground in new subdivisions.						x																			
Warren County: Inspect power lines to determine if trees need to be trimmed or cut down.																									removed performed by electric co.
City of Warrenton: Inspect power lines to determine if trees need to be trimmed or cut down.																									removed performed by electric co.
City of Camak: Inspect power lines to determine if trees need to be trimmed or cut down.																									removed performed by electric co.
City of Norwood: Inspect power lines to determine if trees need to be trimmed or cut down.																									removed performed by electric co.
Warren County and the Cities of Warrenton, Camak and Norwood: Seek funding for a reverse 911 or Voice-Over-Internet Protocol system.																									
Warren County: Implement a winter storm education program to include winterization of home and/or business and what to do before, during and after the winter storm event to include City of Warrenton, Camak and Norwood.	x					x					x				x										removed obsolete technology

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:

WARREN 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: _____

XYZ 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_____ FEMA Project Number_____

SUBGRANTEE NAME: XYZ 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

(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)

Georgia Emergency Management Agency
Labor Expense Summary

1. APPLICANT	2. Disaster Number	3. Period Covering	Page Of
4. Purpose/Work Performed		5. Program	

STAFF		DATES AND HOURS WORKED								COSTS		
		DATE								TOTAL HOURS	HOURLY RATE	TOTAL COSTS
NAME	TITLE	Hours								0	$ -	$ -
NAME	TITLE	Hours								0	$ -	$ -
NAME	TITLE	Hours								0		$ -
NAME	TITLE	Hours								0		$ -
NAME	TITLE	Hours								0	$ -	$ -
NAME	TITLE	Hours								0	$ -	$ -
NAME	TITLE	Hours								0	$ -	$ -
NAME	TITLE	Hours								0	$ -	$ -
NAME	TITLE	Hours								0	$ -	$ -
NAME	TITLE	Hours								0	$ -	$ -
											Total Cost for Labor Time	$ -

I CERTIFY THAT THE ABOVE INFORMATION WAS OBTAINED FROM PAYROLL RECORDS, INVOICES OR OTHER DOCUMENTS THAT ARE AVAILABLE FOR AUDIT.

I CERTIFY THAT THE ABOVE COSTS ARE NOT BEING USED FOR LOCAL MATCH FOR ANOTHER FEDERAL GRANT.

Signature	TITLE	DATE