2020 Multi-Hazard Pre-Disaster Mitigation Plan Update

## **APPENDIX D**

### WORKSHEETS USED IN PLANNING PROCESS

Hancock County

### **GEMA Worksheet #1**

### **Identify the Hazard**

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 Website 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.

Use this space to record information you find for each of the hazards you will be **researching**. Attach additional pages as necessary. Note: **Bolded** hazards are addressed in this How-to Guide.

	Task	Task			1	
	Α	В	Hazard or Event Description	Source of	Map	Scal
Avalanche			( <i>Type of hazard, date of event, number of injuries, cost and</i>	Information	Available for this	of Map
Coastal Erosion			types of damage, etc.)		Hazard?	Мар
Coastal Storm	v		Dam Failure See Appendix A	USGS, The Sparta	Only map of	
	X		for this complete information	Ishmaelite, NCDC	dams is	
Dam Failure	Х	X			available See	
Drought	Х	X		LICDA NODO	Appendix A	
Earthquake	Х		Drought See Appendix A for complete information	USDA, NCDC, SHELDUS, The	Maps area available for	
Expansive Soils			complete information	Sparta Ishmaelite,	the state as a	
Extreme Heat	X			Palmer Index	whole from	
Flood	X	x			the Palmer	
Hailstorm	X				Index See	
		<b> </b>	Flood See Appendix A for	USGS, NCDC,	Appendix A Flood Plain	
Hurricane	X		this complete information	SHELDUS, The	Maps are	
Land Subsidence			uns complete information	Sparta Ishmaelite,	available See	
Landslide					Appendix A	
Severe Winter Storm	Х	X	Severe Winter Weather	SERRC, NCDC,	Maps are	
Tornado	x	x	See Appendix A for this	SHELDUS, The	available in	
Tsunami			complete information Hail See Appendix A for this	Sparta Ishmaelite, NCDC, SHELDUS,	Appendix A No map is	
Volcano		+	complete information	NCDC, SHELDUS,	available	
			Tornado See Appendix A for	Tornado History	Map is	
Wildfire	Х	X	this complete information	Project, NCDC,	available See	
Windstorm			-	SHELDUS, The	Chapter II.	
Lightning	Х	X		Sparta Ishmaelite,	Section V.	
Tropical Storms	Х	Х	Lightning See Appendix A for	NCDC, SHELDUS,	No map is	
Thunderstorm Winds	Х	X	this complete information Tropical Storms See	NCDC, SHELDUS,	available No map is	
	1	<u> </u>	Appendix A for this complete		available	
			information			
			Thunderstorm Winds See	NCDC, SHELDUS,	No map is	1
			Appendix A for this complete		available Map	
			information		is available	
					for wind zone	
			Wildfire See Appendix A for	GFC	Map is	
			this complete information		available for	
					fire danger	
					zones	

Date:

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Hancock County All Jurisdictions Hazard: Flood

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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.

	Numbe	er of Struct	ures	Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community or 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	22,014	25	0.114%	457,708,995.00	519,251	0.113%	9,429	53	1%
Commercial	1,038	0	0.000%	56,485,260.00	0	0.000%	9,429	0	0%
Industrial	39	1	2.564%	13,064,207.50	359,318	2.750%	839	126	15%
Agricultural/Forestry	4,624	36	0.779%	441,930,552.50	3,154,789	0.714%	133	12	9%
Religious/Non-profit	269	0	0.000%	6,621,632.50	0	0.000%	9,429	0	0%
Government	219	0	0.000%	18,211,077.50	0	0.000%	784	0	0%
Education	7	0	0.000%	650,677.50	0	0.000%	1,197	0	0%
Utilities	20	1	5.000%	124,370,510.00	367,139	0.295%	5	0	0%
Total	28,230	63	0.223%	1,119,042,912.50	4,400,497	0.393%	9,429	191	

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

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Hancock County All Jurisdictions Hazard: Drought, Wildfire, Severe Weather, Winter Storm, 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.

	Number of Structures			Val	ue of Structures		Number of People		
Type of Structure (Occupancy Class)	# in Community or 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	22,014	22,014	100.00%	457,708,995.00	457,708,995.00	100.00%	9,429	9,429	100.00%
Commercial	1,038	1,038	100.00%	56,485,260.00	56,485,260.00	100.00%	9,429	9,429	100.00%
Industrial	39	39	100.00%	13,064,207.50	13,064,207.50	100.00%	839	839	100.00%
Agricultural/Forestry	4,624	4,624	100.00%	441,930,552.50	441,930,552.50	100.00%	133	133	100.00%
Religious/Non-profit	269	269	100.00%	6,621,632.50	6,621,632.50	100.00%	9,429	9,429	100.00%
Government	219	219	100.00%	18,211,077.50	18,211,077.50	100.00%	784	784	100.00%
Education	7	7	100.00%	650,677.50	650,677.50	100.00%	1,197	1,197	100.00%
Utilities	20	20	100.00%	124,370,510.00	124,370,510.00	100.00%	5	5	100.00%
Total	28,230	28,230	100.00%	1,119,042,912.50	1,119,042,912.50	100.00%	9,429	9,429	100.00%

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

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

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Sparta Hazard: Drought, Wildfire, Severe Weather, Winter Storm, 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.

	Number of Structures			Val	Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community or 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	1,526	1,526	100.00%	28,846,802.50	28,846,802.50	100.00%	1,400	1,400	100.00%	
Commercial	447	447	100.00%	20,536,525.00	20,536,525.00	100.00%	1,400	1,400	100.00%	
Industrial	3	3	100.00%	128,760.00	128,760.00	100.00%	41	41	100.00%	
Agricultural/Forestry	19	19	100.00%	411,772.50	411,772.50	100.00%	6	6	100.00%	
Religious/Non-profit	54	54	100.00%	1,489,775.00	1,489,775.00	100.00%	1,400	1,400	100.00%	
Government	60	60	100.00%	5,721,565.00	5,721,565.00	100.00%	139	139	100.00%	
Education	3	3	100.00%	499,425.00	499,425.00	100.00%	0	0	100.00%	
Utilities	7	7	100.00%	2,569,972.50	2,569,972.50	100.00%	2	2	100.00%	
Total	2,119	2,119	100.00%	60,204,597.50	60,204,597.50	100.00%	1,400	1,400	100.00%	

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

#### **Inventory of Assets**

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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.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community or 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	1,526	2	0.131%	28,846,802.50	37,807	0.131%	1,400	5	0%
Commercial	447	0	0.000%	20,536,525.00	0	0.000%	1,400	0	0%
Industrial	3	0	0.000%	128,760.00	0	0.000%	41	0	0%
Agricultural/Forestry	19	4	21.053%	411,772.50	86,689	21.053%	6	0	0%
Religious/Non-profit	54	0	0.000%	1,489,775.00	0	0.000%	1,400	0	0%
Government	60	0	0.000%	5,721,565.00	0	0.000%	139	0	0%
Education	3	0	0.000%	499,425.00	0	0.000%	0	0	0%
Utilities	7	1	14.286%	2,569,972.50	367,139	14.286%	2	0	0%
Total	2,119	7	0.330%	60,204,597.50	491,635	0.817%	1,400	5	

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

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Unincorporated Hancock 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.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community or 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	20,488	23	0.112%	428,862,192.50	481,444	0.112%	8,029	48	1%
Commercial	591	0	0.000%	35,948,735.00	0	0.000%	8,029	0	0%
Industrial	36	1	2.778%	12,935,447.50	359,318	2.778%	798	126	16%
Agricultural/Forestry	4,605	32	0.695%	441,518,780.00	3,068,100	0.695%	127	12	9%
Religious/Non-profit	215	0	0.000%	5,131,857.50	0	0.000%	8,029	0	0%
Government	159	0	0.000%	12,489,512.50	0	0.000%	645	0	0%
Education	4	0	0.000%	151,252.50	0	0.000%	1,197	0	0%
Utilities	13	0	0.000%	121,800,537.50	0	0.000%	3	0	0%
Total	26,111	56	0.214%	1,058,838,315.00	3,908,862	0.369%	8,029	186	

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

#### GEMA Worksheet #3a Inventory of Assets Jurisdiction: Unincorporated Hancock County Hazard: Drought, Wildfire, Severe Weather, Winter Storm, 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.

	Number of Structures			Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community or 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	20,488	20,488	100.00%	428,862,192.50	428,862,192.50	100.00%	8,029	8,029	100.00%
Commercial	591	591	100.00%	35,948,735.00	35,948,735.00	100.00%	8,029	8,029	100.00%
Industrial	36	36	100.00%	12,935,447.50	12,935,447.50	100.00%	798	798	100.00%
Agricultural/Forestry	4,605	4,605	100.00%	441,518,780.00	441,518,780.00	100.00%	127	127	100.00%
Religious/Non-profit	215	215	100.00%	5,131,857.50	5,131,857.50	100.00%	8,029	8,029	100.00%
Government	159	159	100.00%	12,489,512.50	12,489,512.50	100.00%	645	645	100.00%
Education	4	4	100.00%	151,252.50	151,252.50	100.00%	1,197	1,197	100.00%
Utilities	13	13	100.00%	121,800,537.50	121,800,537.50	100.00%	3	3	100.00%
Total	26,111	26,111	100.00%	1,058,838,315.00	1,058,838,315.00	100.00%	8,029	8,029	100.00%

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

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

FU	U <b>JITA SC</b>	ALE		VED EF ALE		TIONAL EF CALE
F Number	Fastest 1/4-mile (mph)	3 Second Gust (mph)	EF Number	3 Second Gust (mph)	EF	3 Second Gust (mph)
0	40-72	45-78	0	65-85	0	65-85
1	73-112	79-117	1	86-109	1	86-110
2	113-157	118-161	2	110-137	2	111-135
3	158-207	162-209	3	138-167	3	136-165
4	208-260	210-261	4	168-199	4	166-200
5	261-318	262-317	5	200-234	5	<b>Over 200</b>

NOTE: The historic frequency of a hazard event over a given period of time determines the historic recurrence interval. For example: If there have been 20 HazMat Releases in the County in the past 5 years,	Radiological Release	HazMat Release (trans)	HazMat Release (fixed)	Tropical Storm 18 69 4 16	Dam Failure 0 69 0 0	Lightning 135 69 18 49	Snow & Ice 31 69 9 15	Extreme Heat	Drought 34 69 7 28	Hail 31 69 6 13	Thunderstorm Wind 86 69 17 37	Tornado [ 10] 69] 7] 8	Earthquake	Wildfire 123 61 18 49	Floods 3 69 0 2	Hurricane Wind	Hurricane Surge - Cat 5	Hurricane Surge - Cat 4	Hurricane Surge - Cat 3	Hurricane Surge - Cat 2	Hurricane Surge - Cat 1	NumberNumberNumberNumberofofYearsofofEvents ininEventsHistoricHistoric10in PastRecordRecordYears20 Years
5 years,				17	0	126	22		34	18	73	8		123	3							Number of Events in Past 50 Years
the historic rec	#DIV/0!	#DIV/0!	#DIV/0!	3.83	#DIV/0!	0.51	2.23	#DIV/0!	2.03	2.23	0.80	6.90	#DIV/0!	0.50	23.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Historic Recurrence Interval (years)
urrence interval.	#DIV/0!	#DIV/0!	#DIV/0!	26.09	0.00	195.65	44.93	#DIV/0!	49.28	44.93	124.64	14.49	#DIV/0!	201.64	4.35	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Historic Frequency % chance/year
	0.00	0.00	0.00	80.00	0.00	245.00	75.00	0.00	140.00		185.00	40.00	0.00	2	10.00	0.00	0.00	0.00	0.00	0.00	0.00	20 year Historic Frequency % chance/year
	0	0	0	0.4	0	1.8	0.9	0	0.7	0.6	1.7	0.7	0	1.8	0	0	0	0	0	0	0	Past 10 Year Record Frequency Per Year
	0	0	0	0.8	0	2.45	0.75	0	1.4	0.65	1.85	0.4	0	2.45	0.1	0	0	0	0	0	0	Past 20 Year Record Frequency Per Year
	0	0	0	0.34	0	2.52	0.44	0	0.68	0.36	1.46	0.16	0	2.46	0.06	0	0	0	0	0	0	Past 50 Year Record Frequency Per Year

For example: If there have been 20 HazMat Releases in the County in the past 5 years,

statistically you could expect that there will be 4 releases a year.

Realize that from a statistical standpoint, there are several variables to consider. 1) Accurate hazard history data

and collection are crucial to an accurate recurrence interval and frequency. 2) Data collection and accuarcy has been much

better in the past 10-20 years (NCDC weather records). 3) It is important to include all significant recorded hazard events

which will include periodic updates to this table.

By updating and reviewing this table over time, it may be possible to see if certain types of hazard events are increasing in the past 10-20 years.

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NOTE: The historic frequency of a hazard event over a given period of time determines the historic recurrence interval.	Radiological Release	HazMat Release (trans	HazMat Release (fixed)	Tropical Storm	Dam Failure	Lightning	Snow & Ice	Extreme Heat	Drought	Hail	Thunderstorm Wind	Tornado	Earthquake	Wildfire	Floods	Hurricane Wind	Hurricane Surge - Cat 5	Hurricane Surge - Cat 4	Hurricane Surge - Cat 3	Hurricane Surge - Cat 2	Hurricane Surge - Cat 1	Hazard
c frequency	lease	e (trans)	੩ (fixed)								Vind						? - Cat 5	? - Cat 4	e - Cat 3	∋ - Cat 2	∍ - Cat 1	
y of a hazard				18		135	31		34	26	71	10		123	ы							Number of Events in Historic Record
event over a				69		69	58		69	69	69	69		61	69							in Historic Record
given period				4		18	9		7	6	14	6		18	0							Number of Events in Past 10 Years 20 Years
d of time dete				16		49	15		28	11	28	7		49	2							0, 0, .
rmines the h				17		126	22		34	13	58	7		123	ω							Number of Events in Past 50 Years
iistoric recurrer	#DIV/0!	#DIV/0!	#DIV/0!	3.83	#DIV/0!	0.51	1.87	#DIV/0!	2.03	0.23	0.97	6.90	#DIV/0!		23.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Historic Recurrence Interval (years)
nce interval.	#DIV/0!	#DIV/0!	#DIV/0!	26.09	#DIV/0!	195.65	53.45	#DIV/0!	49.28	433.33	102.90		#DIV/0!	201.64	4.35	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Historic Frequency % chance /year
	0.00	0.00	0.00	80.00	0.00	245.00	75.00	0.00	140.00	55.00	140.00	35.00	0.00	245.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	Historic Frequency % chance/ year
	0	0	0	0.4	0	1.8	0.9	0	0.7	1.1	1.4	0.6	0	1.8	0	0	0	0	0	0	0	Frequency Per Year
	0	0	0	0.8	0	2.45	0.75	0	1.4	0.55	1.4	0.35	0	2.45	0.1	0	0	0	0	0	0	Year Record Frequency Per Year
	0	0	0	0.34	0	2.52	0.44	0	0.68	0.26	1.16	0.14	0	2.46	0.06	0	0	0	0	0	0	Year Record Frequency Per Year

For example: If there have been 20 HazMat Releases in the County in the past 5 years, statistically you could expect that there will be 4 releases a year.

Realize that from a statistical standpoint, there are several variables to consider. 1) Accurate hazard history data

and collection are crucial to an accurate recurrence interval and frequency. 2) Data collection and accuarcy has been much better in the past 10-20 years (NCDC weather records). 3) It is important to include all significant recorded hazard events

which will include periodic updates to this table.

By updating and reviewing this table over time, it may be possible to see if certain types of hazard events are increasing in the past 10-20 years.

						5 years,	in the past	n the County	t Releases II II he 4 releas	en 20 HazMa that there wi	For example: If there have been 20 HazMat Releases in the County in the past 5 years, statistically you could exnect that there will be 4 releases a year
				ence interval.	historic recurr	termines the	d of time de	a given perio	event over a	/ of a hazard	NOTE: The historic frequency of a hazard event over a given period of time determines the historic recurrence interval.
0	0	0	0.00	#DIV/0!	#DIV/0!						Radiological Release
0	0	0	0.00	#DIV/0!	#DIV/0!						HazMat Release (trans)
0	0	0	0.00	#DIV/0!	#DIV/0!						HazMat Release (fixed)
0.34	0.8	0.4	80.00	26.09	3.83	17	16	4	69	18	Tropical Storm
0	0	0	0.00	#DIV/0!	#DIV/0!						Dam Failure
0.06	0	0	0.00	17.39	5.75	3	0	0	69	12	Lightning
0.44	0.75	0.9	7	44.93	2.23	22	15	6	69	31	Snow & Ice
0	0	0	0.00	#DIV/0!	#DIV/0!						Extreme Heat
0.68	1.4	0.7	140.00	49.28	2.03	34	28	7	69	34	Drought
0.12	0.15	0.3	15.00	#DIV/0!	0.00	6	3	0	59	19	Hail
1.12	1.15	0.6	115.00	116.95	0.86	56	23	6	59	69	Thunderstorm Wind
0.02	0.05	0.1	5.00	1.45	0.00	1	1	1	69	1	Tornado
0	0	0	0.00	#DIV/0!	#DIV/0!						Earthquake
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0.04	0.1	0	10.00	2.90	34.50	2	2	0	69	2	Floods
0	0	0	0.00	#DIV/0!	#DIV/0!						Hurricane Wind
0	0	0	0.00	#DIV/0!	#DIV/0!						Hurricane Surge - Cat 5
0	0	0	0.00	#DIV/0!	#DIV/0!						Hurricane Surge - Cat 4
0	0	0	0.00	#DIV/0!	#DIV/0!						Hurricane Surge - Cat 3
0	0	0	0.00	#DIV/0!	#DIV/0!						Hurricane Surge - Cat 2
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Frequency Per Year	Frequency Frequency Frequency Per Year Per Year Per Year	Frequency Per Year	% chance/ year	/year	(years)	50 Years	20 Years	10 Years	Historic Record	Historic Record	
Record	Record	Record	Frequency	Frequency % chance	Recurrence	of Events	Events	of Events			Hazard
Past 50 Vear	Past 20 Year	Past 10 Year	20 year Historic	Historic	Historic	Number	of	Number	Number	Number of Events	
							Number		:		
				Π	TALARU FREQUENCT TABLE						

SPARTA HAZARD FREQUENCY TABLE

statistically you could expect that there will be 4 releases a year.

Realize that from a statistical standpoint, there are several variables to consider. 1) Accurate hazard history data

and collection are crucial to an accurate recurrence interval and frequency. 2) Data collection and accuarcy has been much

better in the past 10-20 years (NCDC weather records). 3) It is important to include all significant recorded hazard events

which will include periodic updates to this table.

By updating and reviewing this table over time, it may be possible to see if certain types of hazard events are increasing in the past 10-20 years.

STAPLEE Criteria	s			-			Þ			P			-			m					ш		_		-
	(Social)	ial)	(Te	(Technical)		Admi	inistr	(Administrative)	(Po	(Political)	al)	_	(Legal)		Ē	(Economic)	mic)		_	(Env	iron	(Environmental)			
Considerations → for Alternative Actions	Community Acceptance Effect on Segment of	Population	echnical Feasibility	ong-term Solution	Secondary Impacts	staffing	unding Allocated	Maintenance / Operations	Political Support	ocal Champion	Public Support	State Authority	existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	ffect on Land / Water	ffect on Endangered Species	ffect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws	Alternative actions	Composite
Participate in the NFIP	_		P	Z		P	P									P		-	ľ						This is on going and completed by
Continue to assess stormwater runoff.	Р Р		P	Ρ		P	Ρ	Ρ	P						Ρ			P	•			Ρ			This is on going and completed by road departments
Construct as needed, more storm water retention facilities, storm drain improvements and channel improvements to protect existing and new developments.	ס		σ	ס	_	<del>م</del>	σ	σ	σ						ס	σ		0	-						Funding needs to be allocated is quite costly but long term benefit
Clear run-off and water retention ditches.	Р Р	Ŭ		P		P	Ρ		P								z	2							This is on going and completed by road departments
Seek funding for communication towers and voice repeater systems.	P		P	P		P	Ρ	P							P	Р		T	-			P		Can use wireless provider towers	If providers leave the jurisdications will still be in the same place where they started.
Evaluate existing water system upgrade as needed	P P		Ν	Z		z	N					Р			P	z	z	2				P			
Investigate methods to reduce non-point			Ρ	Ρ		P	Z	Ρ				Ρ			Ρ	Z	z	2 P	•			σ			
Enact a program to educate the residents	σ	_	σ	Ρ	_	z	Ρ	Р							Р	σ	σ	U D	-			Ρ			
Increase public awareness of watering restrictions and bans.	Р Р		P	P	_		Ρ	P	P	_	Ρ	Ρ			Ρ	Ρ		P	-			P			
Develop a public awareness campaign to promote water-saving campaigns (i.e. low-	,		1	,				)	)		)					)						,			
Continue training of all firefighters to include	-			, -				-	, -		' -					, -	: 2	. 4				, -			
Wildiand fire training. Seek funding for needed firefighting			٦	۲		7	Z	٦	٦		٦				٦	٦	Z					٦			
equipment Inventory and replace or install more fire	P		Ρ	P		P	Р	P	P		Р				P	Р	z					P			
Inventory and replace or Install more tire hydrants as needed.	P		Р	P		P	Р	Р	P	P	7				Р	Р	z	2				Р			
Seek funding fire trucks brush trucks, tankers and rescue vehicles for joint fire department.			Р	P		P	z	P	P		P				P	Ρ	z	2				Ρ			
Implement the Firewise Community Initiative where appropriate			P	P		P	z	P	P	P	Ρ				P	Р	z	2				Р			
Improve public awareness of wildfire																									
dangers.	P		Р	P		z	Р	Р	P	P	z				Р	Р	z	2				Ρ			

STAPLEE Criteria S	•		-			_	A			Ρ			-			m	m				т					
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-	ent of	bility	tion	acts		ted		Operations		n		1	uthority	Challenge	on		Economic Goa	g Required	/ Water	ngered Species	1AT / Waste	Community		h Federal Law	ions	
Considerations → for Alternative Actions	Effect on Segm Population	Technical Feas	Long-term Solu	Secondary Imp	Staffing	Funding Alloca	_	Maintenance /	Political Suppo	Local Champio	Public Support	State Authority	Existing Local A	Potential Lega	Benefit of Acti	Cost of Action	Contributes to	Outside Fundir	Effect on Land	Effect on Enda	Effect on HAZN Sites	Consistent wit	Environmental	Consistent Wit	Alternative act	Comments
Equip all county and city recreation parks																										
and lightning detection devices.		σ	σ		σ	Ρ	σ		Ρ						σ	σ		z				σ				
tical facilities		-	-		•	-	-								-	-		2				•				
and retrofit to reinforce windows, doors, and roofs as needed P		P	Ρ		P	P	P		P						P	Ρ		z	Ρ			P				
Enforce building codes for all new buildings and critical facilities.		Ρ	P		P	P	P		P						P	Ρ		z				P				
Inspect all county and municipal critical facilities for proper grounding.		Ρ	Ρ		P	P	P		Ρ						P	Ρ		z				P				
Install lightning rods in high value critical facilities.		Ρ	Ρ		P	P	P		Ρ						Ρ	Ρ		z				Ρ				
Review current Emergency Response Plan and update when needed.		Ρ	Ρ		P	P	P		Ρ						Ρ	Ρ						Ρ				
Review current evacuation plans paying																										
and update as needed.	Ρ	Ρ	P		P	P	P		Ρ						Ρ	P						P				
Develop a public awareness program about																										
the installation of lightning grounding																										
and business properties.		Ρ	Ρ		σ	Ρ	P		Ρ						σ	Ρ						P				
Inventory all critical facilities and assess																										
generator needs. Install generators where P		Ρ	P		z	P	P		P						P	Ρ						P				
Seek funding to ensure all current and future																										
emergency shelters have back-up generators. p		P	P		P	P	P		Ρ						Ρ	P						P				
Educate the public on shelter locations and P		Р	P		z	P	P		P						P	P						P				
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. p		P	P		P	P	P		Ρ						P	P						P				
Implement a winter storm education program to include winterization of home and/or																										
and		1	1			1	1								I	I						I				
after.		P	P		z	P	P		P		_				P	P						P				

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iore, during and after a hazard       p	Inventory existing road equipment and																									
coordinated management strategies ng, snow plowing, and clearing roads trees and debris trees and impublic buildings.pp	purcnase needed equipment to maintain roads before, during and after a hazard																									
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-	removal firm to have contract in place before hazards to ensure firm can move in	Preform procurement to contract with debris	handicap populations (moved to all hazards).	Provide NOAA weather radios to elderly and	Considerations → for Alternative Actions ↓		STAPLEE Criteria
P		•	P		Community Acceptance Effect on Segment of Population	(Social)	v
P P			P P		Technical Feasibility Long-term Solution	(Tech	
					Secondary Impacts	(Technical)	
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					Existing Local Authority Potential Legal Challenge	(Legal)	-
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					Contributes to Economic Goals	(Economic)	п
z			z		Outside Funding Required	iic)	
					Effect on Land / Water		
					Effect on Endangered Species	(E	
					Effect on HAZMAT / Waste Sites	nviror	-
P			P		Consistent with Community Environmental Goals	(Environmental)	
					Consistent With Federal Laws		
-					Alternative actions		
					Comments		

# HANCOCK COUNTY HAZARD MITIGATION PLAN UPDATE

Documentation of Labor Match

NAME (Please Print):
ORGANIZATION:
DATE(S):
EVENT: <u>Hazard Mitigation Plan Update</u>
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 ...)

### GEMA Worksheet #2 Pr

**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?

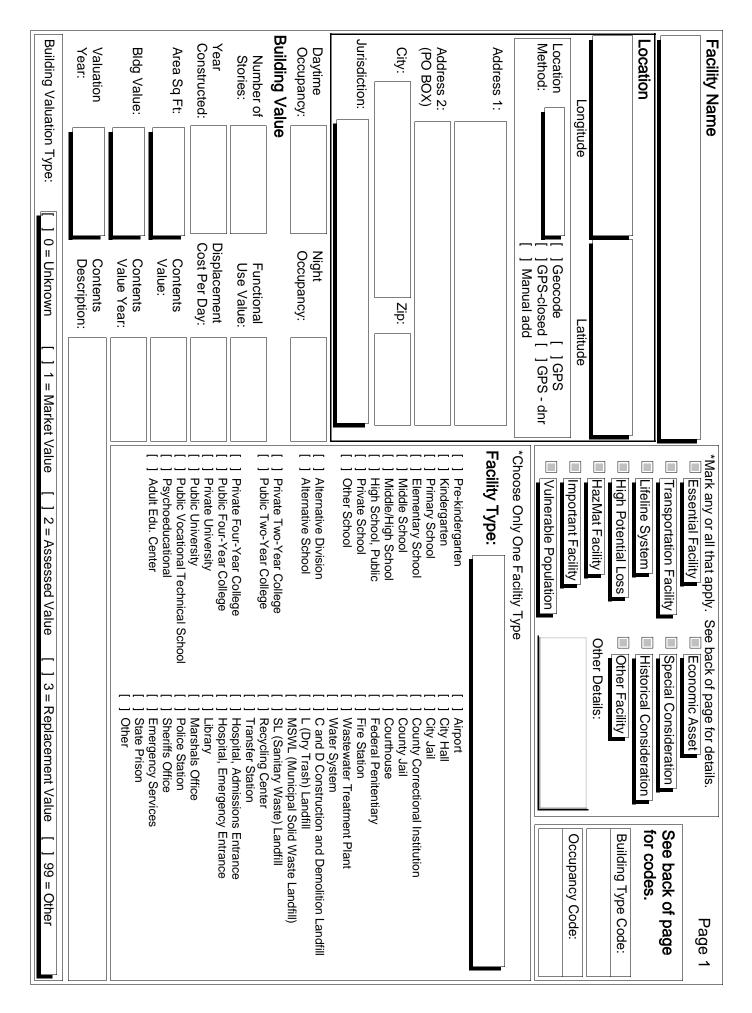
#### Please answer the above questions on a separate sheet of paper and attach to this worksheet.

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



Building Type Code:		Page 2
[ ] C1 = Concrete Moment Frame	Occupancy Code:	[] IND1 = Heavy Industrial
I C2 = Concrete Shear Walls I C3 = Concrete Frame with Unreinforced Masonry Infill Walls	[] AGR1 = Agriculture Facilities and Offices	<ul> <li>IND2 = Light Industrial</li> <li>IND3 = Food/Drugs/Chemicals</li> </ul>
[] MH = Manufactured Housings	[ ] COM2 = Wholesale Trade	[ ] IND4 = Metals/Minerals Processing
<ul> <li>J O = Other Building Type</li> <li>J P1 = Precast Concrete Tilt-Up Walls</li> </ul>	[] COM3 = Personal and Repair Services	<ul> <li>IND5 = High Technology</li> <li>IND6 = Construction Facilities and Offices</li> </ul>
[ ] P2 = Precast Concrete Frames with Cast-in-Place Concrete		[ ] REL1 = Churches and Non-Profit
RM1 = 0		Organizations
Deck Diaphragms	I COM7 = Medical Office and Clinic I COM8 = Entertainment Recreation	[ ] RES2 = Manufactured Housing
[ ] RM2 = Reinforced Masonry Bearing Walls with Precast Concrete	[ ] COM9 =	[ ] RES3A = Duplex
Diaphragms	[ ] COM10 = Parking Garages	[ ] RES3B = 3 to 4 Units
	[ ] EDU2 = Colleges and Universities	[ ] RES3D =
I 3 Steel Light Frame I 3 Steel Frame with Cast-in-Place Concrete Shear Walls	GOV1 = Government - General Services I 1 GOV2 = Government - Emergency	[ ] RES3E = 20 to 49 Units [ ] RES3F = > 50 Units
[ ] S5 = Steel Frame with Unreinforced Masonry Infill Walls	Response	[ ] RES4 = Temporary Lodging
UNK = Unknown Building Type		[ ] RES6 = Nursing Homes
Definitions: High Pc	High Potential Loss Facility Facilities that would have a high human loss associated with their Lar	Economic Assets Larger economic assets that are vital to the prosperity of the
Essential Facility damage An essential facility is a critical facility that is essential to the dams a health and welfare of the population. The potential		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
	inters, namination indications, reduced to see if your county has a Local mittee (LEPC) and an existing	amaged or impacted in a hazard event or disaster, could result in high death tolls or injury rates. Examples include: larger
and other structures that house first responder equipment or	riazardous waterial listilig. con	complexes.
	Inity	Historic Considerations
or facilities. Examples include:	nd or	Historic, cultural or natural resources, including structures and areas that are identified and protected under state or federal law.
Highways: airports, neilports, roadbeds, overpasses, transfer institution institution	institutions, major employers in the area, bank and tinancial Exa institutions, non-nuclear power generators, certain commercial hist	Examples include: state parks, federal parks, museums and historic districts.
	าd gas	Other Facilities
		Any other significant locally identified facility that does not fit into
Waterways: canals, locks, ports, ferries, dry-docks, piers. Vulnera		another category of those listed above.
Lifeline System structure		Comments:
	Examples include: elderly people, jail populations, people with	
that could include utilities and communication. Examples populations	mental, physical of mobility problems, and non-English speaking populations.	
ric		

power, and communication.

#### **EXHIBIT "H"**

Date:	XYZ Cou	inty PDM Prog	gress Paymer	nt Request
expenditure below to the fu supports this progress paym	allest detail possible, nent request, such as ject administrative c	including a reference copies of bills of sale	e to specific sites o , invoices, receipts	on supporting actual expenditures. Itemize each or elements of work. Attach documentation that s, and canceled checks evidencing payment. Do o not include this in your request for payment.
AGREEMENT NUMBER_		FEMA P	roject Number	
SUBGRANTEE NAME: X	YZ County	(FIPs cod	le) 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 she	eet attached) SUBTOTAL TOTAL		
	or 15% if S	Subgrantee Share (25%) (tate match is applicable) (Share if applicable (10%)		
		MOUNT 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)

DATE						TITLE					Signature
		GRANT.	<b>VOTHER FEDERAL</b>	ATCH FOR AN	LOCAL M.	ISED FOR	)T BEING U	S ARE NC	VE COST:	I CERTIFY THAT THE ABOVE COSTS ARE NOT BEING USED FOR LOCAL MATCH FOR ANOTHER FEDERAL GRANT.	
	ABLE FOR AUDI	AT ARE AVAIL	DOCUMENTS THA	S OR OTHER	)S, INVOICE	RECORD	PAYROLL	ED FROM	OBTAINE	I CERTIFY THAT THE ABOVE INFORMATION WAS OBTAINED FROM PAYROLL RECORDS, INVOICES OR OTHER DOCUMENTS THAT ARE AVAILABLE FOR AUDIT.	
\$	Total Cost for Labor Time	<b>Total Cost</b>									
\$	\$	0							Hours	TITLE	NAME
\$ -	\$	0							Hours	TITLE	NAME
\$ -	\$	0							Hours	TITLE	NAME
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\$ -	\$	0							Hours	TITLE	NAME
TOTAL COSTS	HOURLY RATE	TOTAL HOURS							DATE		
	COSTS			ORKED	DATES AND HOURS WORKED	TES AND	DA			STAFF	
			n	5. Program						ork Performed	4. Purpose/Work Performed
Page Of			Covering	3. Period Covering		ber	2. Disaster Number	2. Dis		Т	1. APPLICANT
				Agency		igeme Imma	Emergency Management Labor Expense Summary	gency Expe	Emer( .abor	Georgia Emergency Management Labor Expense Summary	