

# *Archer County*

*and the Cities of*

*Archer City*

*Holliday*

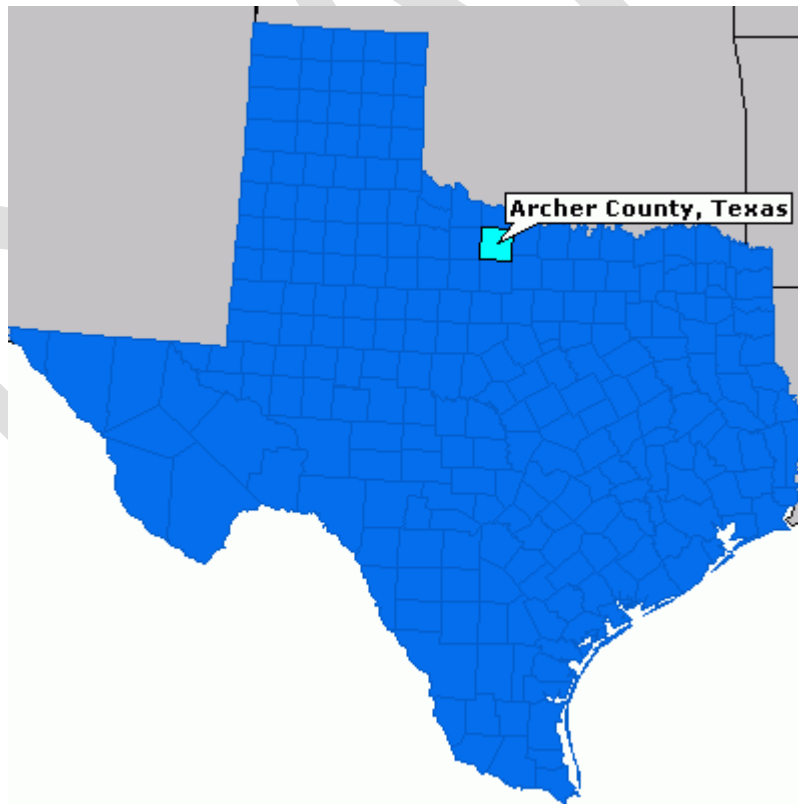
*Lakeside City*

*Megargel*

*Scotland*

*Windthorst*

## ***Mitigation Action Plan***



***DEVELOPED BY THE ARCHER COUNTY MITIGATION PLANNING COMMITTEE  
June 5, 2013***

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## **EXECUTIVE SUMMARY**

*Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland, and Windthorst Mitigation Action Plan (MAP) are intended to protect citizens, property, and local economies from natural hazards. The mitigation action plan's sole purpose is to take actions based on a solid understanding of the community's vulnerabilities and reduce the impacts of those hazards that are most likely to strike. In addition to developing an outline for proactive actions, this MAP enables Archer County and its' Cities within the county to apply for pre and post-disaster mitigation funding that would otherwise be unavailable. This funding would assist the communities to implement their desired goals and objectives summarized in this plan.*

*This MAP also serves the purpose of augmenting regional goals and objectives as established by the Nortex Regional Planning Commission (NRPC). The Archer County and Archer City, Holliday, Lakeside City, Megargel, Scotland, and Windthorst MAP links broad ideas set by the Nortex Regional Steering Committee to city strategic and action-oriented tasks.*

*Hereafter when referencing the Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland, and Windthorst Mitigation Action Plan as a whole it will be the intent that it includes all jurisdictions within Archer County.*

*The planning grant for Nortex Regional Planning Commission was terminated prior to the draft Mitigation Plan being approved by FEMA. In June 2013, Archer County and the City of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst, determined a need to complete the plan in order to submit a completed draft plan to Texas Division of Emergency Management for review and eventual submission to FEMA for review and approval. ACMPC did a thorough review of each section of the draft Mitigation Plan as part of its updating of information and assumption of the role of plan writer.*

### **National Flood Insurance Program**

*Flooding is a significant hazard for Archer County or the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst. Flooding can occur anywhere inside of Archer County. During a two-day period on July 27-29, 2004, flooding was reported throughout Archer County. Rainfall totals for the 48 hour period included 8.12 inches in Scotland and 6.62 in Archer City. Moderate to major flooding occurred along the Little Wichita River between Lake Kickapoo and Lake Arrowhead. During this flooding event the following roads were closed: State Highway 79 (4 miles south of Archer City); State Highway 25 (northwest and east of Archer City); State Highway 174 (near Windthorst); FM 210 (west of Archer City); FM 2178 (10 miles southwest of Archer City); FM 2581 (5 miles southeast of Archer City); US Highway 281 (near Scotland); and FM 172 (near Scotland). To address any problems with flooding, Archer County and the Cities of Archer City, Holliday, Lakeside City and Megargel do participate in the National Flood Insurance Program (NFIP). The Cities of Scotland and Windthorst currently do not participate in NFIP. It will be recommended to these city leaders to adopt NFIP. Archer County and the Cities of Archer City, Holliday, Lakeside City and Megargel will continue compliance with the NFIP. The NFIP will be incorporated in updating and reviewing current and future mitigations*

*strategies based on the analyzing and prioritize actions to these hazards. To continue compliance with the NFIP, Archer County will include these actions in identifying updates: identifying areas of potential flood impact by updating and digitizing flood maps and developing a Floodplain Map Master Plan; carrying out assessments of NFIP in member communities and encouraging improvements in floodplain management; assisting communities to qualify for the Community Rating System (CRS), thereby reducing flood insurance premium rates for the planning area; and provide training and technical assistance to assist local member jurisdictions in becoming disaster resistant. See Appendix 11 for FIRMETTS.*

DRAFT

## Demographics

Geography	
<b>Bordering Counties:</b>	S. by Young and Jack Counties E. by Clay County N. by Wichita County W. by Baylor County
<b>Archer County's Center is at:</b>	35°30' North latitude 98°30' West Longitude
<b>Altitude:</b>	900 to 1,400 Feet
<b>Average Temperature:</b>	28° to 98° F
<b>Soils:</b>	Sandy Loam Clay to Stony Soil Ground Cover: Grasses, Mesquites and Junipers
<b>Major Mineral Deposits:</b>	Oil, Gas, Copper
<b>Average Growing Season:</b>	220 days
<b>Average Rain Fall:</b>	25.26 inches

<b>Water</b>	The land is drained by the Big Wichita, Little Wichita River, West Fork of the Trinity, and the Brazos Rivers.
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**Source:** TX State Historical Association; The Texas Handbook of Texas  
**Online:** [www.tsha.utexas.edu/handbook/online/articles/view](http://www.tsha.utexas.edu/handbook/online/articles/view)

### CENSUS POPULATION

#### County Population

<b>Estimated 2011</b>	8,842
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<b>Census 2010</b>	9,054
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<b>Census 2000</b>	8,854
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<b>Overall population has:</b>	Increased
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#### Population of the County Seat (City of Archer City)

<b>Census 2010:</b>	1,834
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<b>Census 2000:</b>	1,848
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<b>Unincorporated Archer County:</b>	3,370
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<b>Archer City</b>	1,834
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<b>Holliday</b>	1,758
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<b>Lakeside City</b>	997
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<b>Megargel</b>	203
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<b>Scotland</b>	501
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<b>Windthorst</b>	391
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<b>Total in Archer County</b>	9,054
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<b>GENERAL INFORMATION</b>		
<b>County Size in Square Miles</b>		
<b>Land Area:</b>		<b>903.1</b>
<b>Water Area:</b>		<b>22.3</b>
<b>Total Area</b>		<b>925.4</b>
<b>Population Density (Per Square Mile in 2010)</b>		<b>10.03</b>
<b>DEMOGRAPHICS</b>		
<b>Ethnicity (2010)</b>		
<b>Percent Hispanic:</b>		<b>8.0%</b>
<b>Race (2010)</b>		
<b>Percent White:</b>		<b>96.6%</b>
<b>Percent African American:</b>		<b>0.8%</b>
<b>Percent American Indian and Alaska Native Alone:</b>		<b>1.1%</b>
<b>Percent Asian Alone:</b>		<b>0.2%</b>
<b>Percent Native Hawaiian and Other Pacific</b>		<b>0.1%</b>
<b>Percent Multi-Racial:</b>		<b>1.2%</b>
<b>Age (2010 Census)</b>		
<b>17 and Under:</b>		<b>23.4%</b>
<b>65 and Older</b>		<b>16.7%</b>
<b>85 and Older:</b>		<b>1.5%</b>
<b>Median Age:</b>		<b>43.8 Years</b>
<b>Per Capita Income, 2011</b>		<b>\$45,689</b>
<b>Median Per Capita Income, 2011</b>		<b>\$52,318</b>
<b>Poverty (2010 Census)</b>		
<b>Percent of Population in Poverty:</b>		<b>11.8%</b>
<b>Percent of Population under 18:</b>		<b>16.6%</b>
<b>Average Wage Per Job (BEA)</b>		
<b>2012:</b>		<b>\$28,275</b>
<b>2011</b>		<b>\$32,144</b>
<b>2010</b>		<b>\$31,368</b>
<b>2009</b>		<b>\$30,802</b>
<b>2008</b>		<b>\$32,786</b>
<b>2007</b>		<b>\$31,243</b>
<b>Land Area:</b>		
<b>2010:</b>		<b>903</b>
<b>1990:</b>		<b>903</b>
<b>County Finances</b>		
<b>Total County Tax Rate:</b>		<b>\$0.654310</b>
<b>Total Market Value:</b>		<b>\$957,060,524</b>
<b>Total Appraised Value Available for County Taxation:</b>		<b>\$598,322,564</b>
<b>Total Actual Levy:</b>		<b>\$3,909,114</b>
<b>Source: County Information Project; Texas Association of Counties</b>		
<b>Online: <a href="http://www.txcip.org/tac/census/profile.php">http://www.txcip.org/tac/census/profile.php</a></b>		

<b>HOUSE HOLD INFORMATION AND EDUCATION</b>	
<b>Living in same house in 2006 and 2010', percentage 1 and above, 2010</b>	<b>94.5%</b>
<b>Foreign born persons, percent, 2010</b>	<b>3.6%</b>
<b>Language other than English spoken at home, percent age 5 and above, 2010</b>	<b>5.9%</b>
<b>High school graduates, percent of persons age 25 and above, 2010</b>	<b>85%</b>
<b>Bachelor's degree or higher, percent of person age 25+, 2010</b>	<b>18.8%</b>
<b>Mean travel time to work (minutes), workers age 16 and above, 2010</b>	<b>19.9 minutes</b>
<b>Housing units, 2011</b>	<b>4,129</b>
<b>Homeownership rate, 2006 – 2010</b>	<b>81.6%</b>
<b>Housing units in multi-unit structures, percent, 2006-2010</b>	<b>2.8%</b>
<b>Median value of owner-occupied housing units, 2006-2010</b>	<b>\$101,200</b>
<b>Source: U.S. Census Bureau, Quick Facts</b>	
<b>Online: <a href="http://quickfacts.census.gov/qdf/states">http://quickfacts.census.gov/qdf/states</a></b>	

<b>INDUSTRY OF EMPLOYMENT</b>		
<b>Type of Industry</b>	<b>Number Employed</b>	<b>Percentage Employed</b>
<b>Employed Civilian Population 16 years and Over:</b>	<b>4,341</b>	<b>100</b>
<b>Agriculture, Forestry, Fishing and Hunting, and Mining:</b>	<b>540</b>	<b>12.4</b>
<b>Construction:</b>	<b>359</b>	<b>8.3</b>
<b>Manufacturing:</b>	<b>380</b>	<b>8.8</b>
<b>Wholesale Trade:</b>	<b>163</b>	<b>3.7</b>
<b>Retail Trade:</b>	<b>450</b>	<b>10.4</b>
<b>Transportation, Warehouse, and Utilities:</b>	<b>203</b>	<b>4.7</b>
<b>Information:</b>	<b>61</b>	<b>1.4</b>
<b>Finance, Insurance, Real State, Rental and Leasing:</b>	<b>187</b>	<b>4.3</b>
<b>Professional, Scientific, Management, Administrative, and Waste Management:</b>	<b>213</b>	<b>4.9</b>
<b>Educational, Health and Social Services</b>	<b>999</b>	<b>23.0</b>
<b>Arts, Entertainment, Recreation, Accommodation and Food Services:</b>	<b>205</b>	<b>4.7</b>
<b>Other Services (except public administration):</b>	<b>298</b>	<b>6.9</b>
<b>Public Administration:</b>	<b>283</b>	<b>6.5</b>
<b>Source: Texas State Data Center &amp; Office of the State Demographer: Table 21 Percent of Employed Persons by Industry of Employment for the State of Texas and Counties in Texas, 2010,</b>		
<b>Online: <a href="http://txsdc.utsa.edu/Resources/Decennial/2000/DP2_4/county/tab-021.txt">http://txsdc.utsa.edu/Resources/Decennial/2000/DP2_4/county/tab-021.txt</a></b>		



<b>City of:</b>	<b>Archer City</b>
<b>Located in the County of:</b>	<b>Archer</b>
<b>Population</b>	
<b>2000</b>	<b>1,848</b>
<b>Males</b>	<b>868</b>
<b>Females</b>	<b>980</b>
<b>Median Resident Age</b>	<b>39.2</b>
<b>Economy</b>	
<b>Median Household Income (1999)</b>	<b>29,886</b>
<b>Median House Value (1999)</b>	<b>40,400</b>
<b>Elevation</b>	
<b>Above Sea Level</b>	<b>1061</b>
<b>Races</b>	
<b>White Non-Hispanic</b>	<b>1,803</b>
<b>Hispanic</b>	<b>43</b>
<b>Black</b>	
<b>American Indian</b>	<b>13</b>
<b>Two or more Races</b>	<b>17</b>
<b>Other Race</b>	<b>19</b>
<b>Education 25 years old and over</b>	
<b>High School or Higher (%)</b>	<b>35.5</b>
<b>Bachelor's Degree (%)</b>	<b>8.7</b>
<b>Graduate or professional (%)</b>	<b>3.2</b>
<b>Unemployed (%)</b>	<b>3.3</b>
<b>Mean Travel time to Work</b>	<b>23.5</b>
<b>Marital Status Population 15 Years and Above</b>	
<b>Never Married (%)</b>	<b>16.3</b>
<b>Now Married (%)</b>	<b>58.4</b>
<b>Separated (%)</b>	<b>2.1</b>
<b>Widowed (%)</b>	<b>13.3</b>
<b>Divorced (%)</b>	<b>10.0</b>

Ref: [http://txsdc.utsa.edu/resources/decennial/2000/dp2\\_4/pdf/1604803696.pdf](http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604803696.pdf)

	<b>Land Area</b>											
<b>Per Square Mile</b>	<b>2.2</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Average temp. (°F)</b>	42	47	54	64	72	80	85	85	76	65	54	43
<b>Avg. High temp. (°F)</b>	55	59	67	77	84	91	97	97	88	78	66	56
<b>Avg. Low temp. (°F)</b>	29	34	41	50	60	68	72	72	63	52	41	30
<b>Precipitation (in)</b>	1.36	2.16	2.24	2.53	4.09	3.81	1.92	2.61	2.62	3.81	1.82	1.84

**Weather Data Obtained from**  
<http://www.weather.com/weather/climatology/monthly/76351>

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Days with precip.</b>	5	5	6	7	9	7	5	6	6	6	5	5
<b>Wind speed (mph)</b>	11	12	13	13	12	12	11	10	10	11	11	11
<b>Morning humidity (%)</b>	79	78	78	79	85	84	76	77	83	82	82	80
<b>Afternoon humidity (%)</b>	59	58	54	53	57	55	48	49	56	55	57	59
<b>Sunshine (%)</b>	62	63	69	71	69	76	79	78	71	72	65	62
<b>Days clear of clouds</b>	11	10	11	11	11	13	15	15	15	15	13	12
<b>Partly cloudy days</b>	6	6	8	8	9	11	9	9	7	7	6	6
<b>Cloudy days</b>	14	12	12	11	11	7	7	6	8	9	11	13
<b>Snowfall (in)</b>	2.2	1.7	0.8	0	0	0	0	0	0	0	0.3	1.1

<b>City of:</b>		<b>Holliday</b>
<b>Located in the County of:</b>		<b>Archer</b>
<b>Population</b>		
<b>2000</b>		<b>1,632</b>
<b>Males</b>		<b>786</b>
<b>Females</b>		<b>846</b>
<b>Median Resident Age</b>		<b>34.5</b>
<b>Economy</b>		
<b>Median Household Income (1999)</b>		<b>32,857</b>
<b>Median House Value (1999)</b>		<b>53,000</b>
<b>Elevation</b>		
<b>Above Sea Level</b>		<b>1055</b>
<b>Races</b>		
<b>White Non-Hispanic</b>		<b>1,567</b>
<b>Hispanic</b>		<b>57</b>
<b>Black</b>		<b>0</b>
<b>American Indian</b>		<b>18</b>
<b>Two or more Races</b>		<b>21</b>
<b>Other Race</b>		<b>22</b>
<b>Education 25 years old and over</b>		
<b>High School or Higher (%)</b>		<b>38.4</b>
<b>Bachelor's Degree (%)</b>		<b>11.0</b>
<b>Graduate or professional (%)</b>		<b>2.8</b>
<b>Unemployed (%)</b>		<b>3.3</b>
<b>Mean Travel time to Work</b>		<b>23.6</b>
<b>Marital Status Population 15 Years and Above</b>		
<b>Never Married (%)</b>		<b>17.5</b>
<b>Now Married (%)</b>		<b>60.7</b>
<b>Separated (%)</b>		<b>1.1</b>

<b>Widowed (%)</b>	<b>8.8</b>											
<b>Divorced (%)</b>	<b>12.0</b>											
Ref: <a href="http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604834532.pdf">http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604834532.pdf</a>												
	<b>Land Area</b>											
<b>Per Square Mile</b>	<b>2.0</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Average temp. (°F)</b>	42	46	54	63	72	80	85	84	76	65	53	43
<b>Avg. High temp. (°F)</b>	54	58	67	76	84	91	97	97	88	77	65	55
<b>Avg. Low temp. (°F)</b>	30	34	41	49	60	68	72	71	63	52	40	31
<b>Precipitation (in)</b>	1.14	1.83	2.20	2.61	3.77	4.15	1.59	2.5	2.81	3.11	1.65	1.62
<b>Weather Data Obtained from</b> <a href="http://www.weather.com/weather/climatology/monthly/76366">http://www.weather.com/weather/climatology/monthly/76366</a>												

	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Days with precip.</b>	5	5	6	7	9	7	5	6	6	6	5	5
<b>Wind speed (mph)</b>	11	12	13	13	12	12	11	10	10	11	11	11
<b>Morning humidity (%)</b>	79	78	78	79	85	84	76	77	83	82	82	80
<b>Afternoon humidity (%)</b>	59	58	54	53	57	55	48	49	56	55	57	59
<b>Sunshine (%)</b>	62	63	69	71	69	76	79	78	71	72	65	62
<b>Days clear of clouds</b>	11	10	11	11	11	13	15	15	15	15	13	12
<b>Partly cloudy days</b>	6	6	8	8	9	11	9	9	7	7	6	6
<b>Cloudy days</b>	14	12	12	11	11	7	7	6	8	9	11	13
<b>Snowfall (in)</b>	2.2	1.7	0.8	0	0	0	0	0	0	0	0.3	1.1



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Days with precip.</b>	5	5	6	7	9	7	5	6	6	6	5	5
<b>Wind speed (mph)</b>	11	12	13	13	12	12	11	10	10	11	11	11
<b>Morning humidity (%)</b>	79	78	78	79	85	84	76	77	83	82	82	80
<b>Afternoon humidity (%)</b>	59	58	54	53	57	55	48	49	56	55	57	59
<b>Sunshine (%)</b>	62	63	69	71	69	76	79	78	71	72	65	62
<b>Days clear of clouds</b>	11	10	11	11	11	13	15	15	15	15	13	12
<b>Partly cloudy days</b>	6	6	8	8	9	11	9	9	7	7	6	6
<b>Cloudy days</b>	14	12	12	11	11	7	7	6	8	9	11	13
<b>Snowfall (in)</b>	2.2	1.7	0.8	0	0	0	0	0	0	0	0.3	1.1

<b>Weather Data Obtained from</b> <a href="http://www.weather.com/weather/climatology/monthly/76310">http://www.weather.com/weather/climatology/monthly/76310</a>	
<b>City of:</b>	<b>Megargel</b>
<b>Located in the County of:</b>	<b>Archer</b>
<b>Population</b>	
<b>2000</b>	<b>248</b>
<b>Males</b>	<b>124</b>
<b>Females</b>	<b>124</b>
<b>Median Resident Age</b>	<b>40.6</b>
<b>Economy</b>	
<b>Median Household Income (2000)</b>	<b>30,000</b>
<b>Median House Value (2000)</b>	<b>18,900</b>
<b>Elevation</b>	
<b>Above Sea Level</b>	<b>1288</b>
<b>Races</b>	
<b>White Non-Hispanic</b>	<b>232</b>
<b>Hispanic</b>	<b>15</b>
<b>Black</b>	<b>2</b>
<b>American Indian</b>	<b>1</b>
<b>Two or more Races</b>	<b>10</b>
<b>Other Race</b>	<b>0</b>
<b>Education 25 years old and over</b>	
<b>High School or Higher (%)</b>	<b>44.7</b>
<b>Bachelor's Degree (%)</b>	<b>14.0</b>
<b>Graduate or professional (%)</b>	<b>2.2</b>
<b>Unemployed (%)</b>	<b>2.9</b>
<b>Mean Travel time to Work</b>	<b>21.0</b>
<b>Marital Status Population 15 Years and Above</b>	
<b>Never Married (%)</b>	<b>20.2</b>

<b>Now Married (%)</b>	<b>65.3</b>											
<b>Separated (%)</b>	<b>4.7</b>											
<b>Widowed (%)</b>	<b>3.8</b>											
<b>Divorced (%)</b>	<b>6.1</b>											
Ref: <a href="http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604847460.pdf">http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604847460.pdf</a>												
	<b>Land Area</b>											
<b>Per Square Mile</b>	<b>0.6</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Average temp. (°F)</b>	42	46	54	63	71	79	84	84	76	65	54	44
<b>Avg. High temp. (°F)</b>	55	59	67	77	83	91	96	97	89	78	67	56
<b>Avg. Low temp. (°F)</b>	29	33	40	48	58	67	71	71	62	51	40	31
<b>Precipitation (in)</b>	1.40	1.94	2.56	2.70	5.00	4.03	2.41	1.98	2.43	3.56	1.89	1.64
<b>Weather Data Obtained from</b> <a href="http://www.weather.com/weather/climatology/monthly/76370">http://www.weather.com/weather/climatology/monthly/76370</a>												

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Days with precip.</b>	5	5	6	7	9	7	5	6	6	6	5	5
<b>Wind speed (mph)</b>	11	12	13	13	12	12	11	10	10	11	11	11
<b>Morning humidity (%)</b>	79	78	78	79	85	84	76	77	83	82	82	80
<b>Afternoon humidity (%)</b>	59	58	54	53	57	55	48	49	56	55	57	59
<b>Sunshine (%)</b>	62	63	69	71	69	76	79	78	71	72	65	62
<b>Days clear of clouds</b>	11	10	11	11	11	13	15	15	15	15	13	12
<b>Partly cloudy days</b>	6	6	8	8	9	11	9	9	7	7	6	6
<b>Cloudy days</b>	14	12	12	11	11	7	7	6	8	9	11	13
<b>Snowfall (in)</b>	2.2	1.7	0.8	0	0	0	0	0	0	0	0.3	1.1

<b>City of:</b>	<b>Scotland</b>
<b>Located in the County of:</b>	<b>Archer</b>
<b>Population</b>	
<b>2000</b>	<b>438</b>
<b>Males</b>	<b>222</b>
<b>Females</b>	<b>216</b>
<b>Median Resident Age</b>	<b>34.0</b>
<b>Economy</b>	
<b>Median Household Income (2000)</b>	<b>37,083</b>
<b>Median House Value (2000)</b>	<b>41,667</b>
<b>Elevation</b>	
<b>Above Sea Level</b>	<b>966</b>
<b>Races</b>	
<b>White Non-Hispanic</b>	<b>417</b>
<b>Hispanic</b>	<b>38</b>
<b>Black</b>	<b>0</b>
<b>American Indian</b>	<b>0</b>
<b>Two or more Races</b>	<b>9</b>
<b>Other Race</b>	<b>12</b>
<b>Education 25 years old and over</b>	
<b>High School or Higher (%)</b>	<b>47.2</b>
<b>Bachelor's Degree (%)</b>	<b>5.6</b>
<b>Graduate or professional (%)</b>	<b>5.6</b>
<b>Unemployed (%)</b>	<b>0</b>
<b>Mean Travel time to Work</b>	<b>22.8</b>
<b>Marital Status Population 15 Years and Above</b>	
<b>Never Married (%)</b>	<b>9.9</b>
<b>Now Married (%)</b>	<b>74.8</b>
<b>Separated (%)</b>	<b>0</b>
<b>Widowed (%)</b>	<b>7.0</b>
<b>Divorced (%)</b>	<b>8.3</b>

Ref: [http://txsdc.utsa.edu/resources/decennial/2000/dp2\\_4/pdf/1604866284.pdf](http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604866284.pdf)

	<b>Land Area</b>											
<b>Per Square Mile</b>	<b>11.2</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Average temp. (°F)</b>	<b>42</b>	<b>47</b>	<b>54</b>	<b>64</b>	<b>72</b>	<b>80</b>	<b>85</b>	<b>85</b>	<b>76</b>	<b>65</b>	<b>54</b>	<b>43</b>
<b>Avg. High temp. (°F)</b>	<b>55</b>	<b>59</b>	<b>67</b>	<b>77</b>	<b>84</b>	<b>91</b>	<b>97</b>	<b>97</b>	<b>88</b>	<b>78</b>	<b>66</b>	<b>56</b>
<b>Avg. Low temp. (°F)</b>	<b>29</b>	<b>34</b>	<b>41</b>	<b>50</b>	<b>60</b>	<b>68</b>	<b>72</b>	<b>72</b>	<b>63</b>	<b>52</b>	<b>41</b>	<b>30</b>
<b>Precipitation (in)</b>	<b>1.36</b>	<b>2.16</b>	<b>2.24</b>	<b>2.53</b>	<b>4.09</b>	<b>3.81</b>	<b>1.92</b>	<b>2.61</b>	<b>2.62</b>	<b>3.81</b>	<b>1.82</b>	<b>1.84</b>

**Weather Data Obtained from**

<http://www.weather.com/weather/climatology/monthly/76379>

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Days with precip.</b>	5	5	6	7	9	7	5	6	6	6	5	5
<b>Wind speed (mph)</b>	11	12	13	13	12	12	11	10	10	11	11	11
<b>Morning humidity (%)</b>	79	78	78	79	85	84	76	77	83	82	82	80
<b>Afternoon humidity (%)</b>	59	58	54	53	57	55	48	49	56	55	57	59
<b>Sunshine (%)</b>	62	63	69	71	69	76	79	78	71	72	65	62
<b>Days clear of clouds</b>	11	10	11	11	11	13	15	15	15	15	13	12
<b>Partly cloudy days</b>	6	6	8	8	9	11	9	9	7	7	6	6
<b>Cloudy days</b>	14	12	12	11	11	7	7	6	8	9	11	13
<b>Snowfall (in)</b>	2.2	1.7	0.8	0	0	0	0	0	0	0	0.3	1.1

<b>City of:</b>		<b>Windthorst</b>
<b>Located in the County of:</b>		<b>Archer</b>
<b>Population</b>		
<b>2000</b>		<b>440</b>
<b>Males</b>		<b>232</b>
<b>Females</b>		<b>208</b>
<b>Median Resident Age</b>		<b>32.4</b>
<b>Economy</b>		
<b>Median Household Income (2000)</b>		<b>37,708</b>
<b>Median House Value (2000)</b>		<b>45,000</b>
<b>Elevation</b>		
<b>Above Sea Level</b>		<b>1028</b>
<b>Races</b>		
<b>White Non-Hispanic</b>		<b>369</b>
<b>Hispanic</b>		<b>103</b>
<b>Black</b>		<b>0</b>
<b>American Indian</b>		<b>1</b>
<b>Two or more Races</b>		<b>8</b>
<b>Other Race</b>		<b>62</b>
<b>Education 25 years old and over</b>		
<b>High School or Higher (%)</b>		<b>36.2</b>
<b>Bachelor's Degree (%)</b>		<b>11.1</b>
<b>Graduate or professional (%)</b>		<b>5.2</b>
<b>Unemployed (%)</b>		<b>0</b>
<b>Mean Travel time to Work</b>		<b>16.3</b>
<b>Marital Status Population 15 Years and Above</b>		
<b>Never Married (%)</b>		<b>16.1</b>
<b>Now Married (%)</b>		<b>71.4</b>
<b>Separated (%)</b>		<b>0</b>



<b>Widowed (%)</b>	<b>5.9</b>											
<b>Divorced (%)</b>	<b>6.5</b>											
Ref: <a href="http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604879696.pdf">http://txsdc.utsa.edu/resources/decennial/2000/dp2_4/pdf/1604879696.pdf</a>												
	<b>Land Area</b>											
<b>Per Square Mile</b>	<b>2.5</b>											
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
<b>Average temp. (°F)</b>	42	47	54	64	72	80	85	85	76	65	54	43
<b>Avg. High temp. (°F)</b>	55	59	67	77	84	91	97	97	88	78	66	56
<b>Avg. Low temp. (°F)</b>	29	34	41	50	60	68	72	72	63	52	41	30
<b>Precipitation (in)</b>	1.36	2.16	2.24	2.53	4.09	3.81	1.92	2.61	2.62	3.81	1.82	1.84
<b>Weather Data Obtained from</b> <a href="http://www.weather.com/weather/climatology/monthly/76389">http://www.weather.com/weather/climatology/monthly/76389</a>												

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Days with precip.</b>	5	5	6	7	9	7	5	6	6	6	5	5
<b>Wind speed (mph)</b>	11	12	13	13	12	12	11	10	10	11	11	11
<b>Morning humidity (%)</b>	79	78	78	79	85	84	76	77	83	82	82	80
<b>Afternoon humidity (%)</b>	59	58	54	53	57	55	48	49	56	55	57	59
<b>Sunshine (%)</b>	62	63	69	71	69	76	79	78	71	72	65	62
<b>Days clear of clouds</b>	11	10	11	11	11	13	15	15	15	15	13	12
<b>Partly cloudy days</b>	6	6	8	8	9	11	9	9	7	7	6	6
<b>Cloudy days</b>	14	12	12	11	11	7	7	6	8	9	11	13
<b>Snowfall (in)</b>	2.2	1.7	0.8	0	0	0	0	0	0	0	0.3	1.1

The following provides an outline and brief explanation on how to read and understand this plan. The sections are:

**Section I – Adoption**

Identifies who adopted the plan.

**Section II – Authorities**

Representatives of Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland, and Windthorst are represented on the Archer County Mitigation Planning Committee (ACMPC).

### **Section III – Purpose**

Explains why the plan was written and identifies neighboring jurisdictions that donated time and data to the plan.

### **Section IV – Organizing Assets**

Shows how the plan was organized, participants, and how the plan will be revised:

**Establishing the Mitigation Action Team** – Identifies the process Archer County and the Cities within Archer County undertook to establish their mitigation action team.

**Establishing an Open Public Process** – Identifies the process Archer County and the Cities within Archer County undertook to increase public participation as this MAP underwent development. Community meetings are identified and discussed here.

### **Section V – Assessing Risks**

Identifies, explains, and analyzes hazards and their impacts on Archer County

**Hazards** – Hazards that affect Archer County and the Cities within Archer County are identified.

**History of Local Hazards** – Historical and statistical information pertaining to specific hazards.

**Risk Summary** – Community priorities on specific hazards.

**Vulnerability Worksheets** – A graphical representation of the vulnerability of hazards.

**Survey Results** – Results of the community survey to rate hazards that impact the community.

**Demographics** – Identifies relevant population, geographical, demographics, and economic data for Archer County and the Cities within Archer County.

**Loss Estimates** - An estimation of the impact each hazard would have on critical and special facilities within Archer County and the Cities within Archer County.

**Past Mitigation** - A comprehensive look at previous mitigation projects for Archer County and the Cities within Archer County.

**Development Trends** – Analysis of a community's growth.

### **Section VI – Develop Mitigation Action Plan**

**Mitigation Goals and Objectives** – Overall, long-term strategies and short-term tactics are identified which led to the development of specific mitigation actions.

**Mitigation Actions** – Actions taken by communities to lessen the impact of hazards.

### **Section VII – Resources**

### **Section VIII – Appendices**

## **SECTION I - ADOPTION**

The Archer County MAP was formally adopted on the following date(s):

- Archer County, Resolution, #, date
- City of Archer City, Ordinance, #, date
- City of Holliday, Ordinance, #, date
- City of Lakeside City, Ordinance, #, date
- City of Megargel, Ordinance, #, date
- City of Scotland, Ordinance, #, date
- City of Windthorst, Ordinance, #, date

Once formally adopted the Archer County MAP will be incorporated into the existing multi-jurisdictional Emergency Operations Plan by the adoption of Archer County Commissioner's Court resolution and city ordinance by the appropriate jurisdiction.

## **SECTION II - AUTHORITY**

This MAP has yet to be adopted by Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst. The evidence of local adoption by Archer County and the Cities of Archer City, Holiday, Lakeside City, Megargel, Scotland and Windthorst officials will be included with a supplementary package to this plan. The Archer County MAP has been developed to be in accordance with current state and federal rules and regulations governing local MAPs and shall be routinely monitored to maintain compliance with the following provisions, rules, and regulations:

### **Federal and State Level Authority:**

Section 322, Mitigation Planning, of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as enacted by Section 104 of the Disaster Mitigation Act of 2000 (P.L. 106-390)

FEMA's Interim Final Rule published in the Federal Register on February 26, 2002, at 44 CFR Part 201.

Texas Department of Public Safety, Division of Emergency Management; the State of Texas Hazard Analysis document; Annex P; and Checklist P.

### **Local Level Authority:**

This guidance addresses Local Mitigation Plan requirements for local governments, which are defined at 44 CFR §201.2 as: any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of governments (regardless of whether the council of governments is incorporated as a nonprofit corporation under State law), regional or interstate government entity, or agency or instrumentality of a local government; any Indian tribe or authorized tribal organization, or Alaska Native village or organization; and any rural community, unincorporated town or village, or other public entity.

Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), 42 U.S.C. 5165, as amended by the Disaster Mitigation Act of 2000 (DMA) (P.L. 106-390), provides for States, Tribes, and local governments to undertake a risk-based approach to reducing risks to natural hazards through mitigation planning. The National Flood Insurance Act of 1968, as amended, 42 U.S.C. 4001 et seq, reinforced the need and requirement for mitigation plans, linking flood mitigation assistance programs to State, Tribal and Local Mitigation Plans.

FEMA has implemented the various hazard mitigation planning provisions through regulations at 44 CFR Part 201. These reflect the need for States, Tribal, and local governments to closely coordinate mitigation planning and implementation efforts, and describes the requirement for a State Mitigation Plan as a condition of pre-and post-disaster assistance, as well as the mitigation plan requirement for local and Tribal governments as a condition of receiving FEMA hazard mitigation assistance.

The regulations governing the mitigation planning requirements for local mitigation plans are published under 44 CFR §201.6. Under 44 CFR §201.6, local governments must have a FEMA-approved Local Mitigation Plan in order to apply for and/or receive project grants under the following hazard mitigation assistance programs: Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM), Flood Mitigation Assistance (FMA), Severe Repetitive Loss (SRL)

MOU, between NRPC and Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst for the formal recognition of the NRMAT.

## **SECTION III - PURPOSE**

The Archer County MAP was created in order to save lives and reduce injuries, prevent or reduce property damage, reduce economic losses, minimize social dislocation, minimize agricultural losses, ensure that critical facilities in functional order, protect infrastructure from damage, protect mental health, lessen legal liability of government and public officials and provide positive political consequences for governmental action.

### **Archer County**

- City of Archer City
- City of Holliday
- City of Lakeside City
- City of Megargel
- City of Scotland
- City of Windthorst

The objective of Archer County MAP is to fulfill the requirements of the Hazard Mitigation Grant, Pre-Disaster Mitigation Program and National Flood Mitigation Fund.

## **SECTION IV – ORGANIZING ASSETS**

### **Introduction**

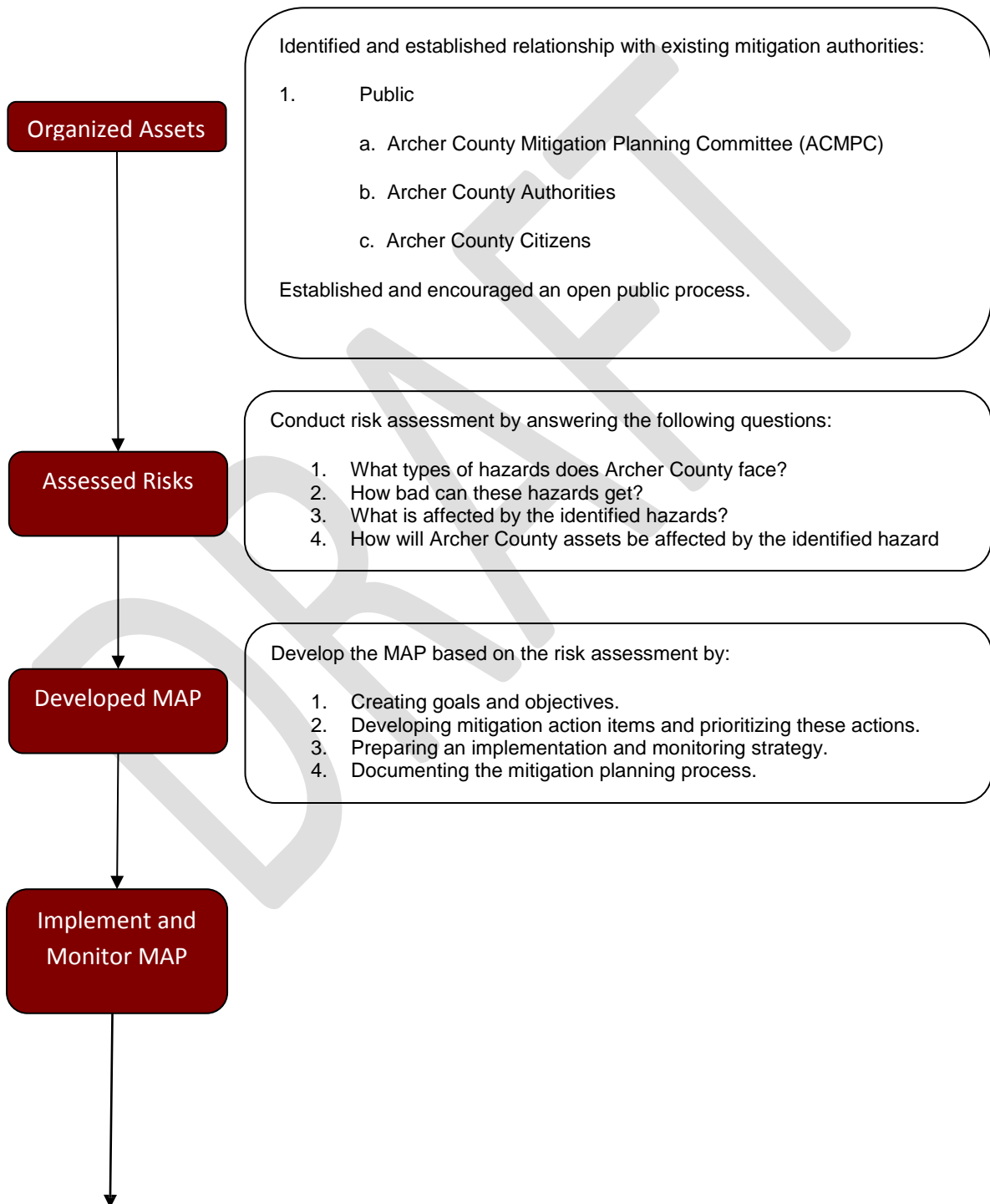
This MAP represents the following jurisdictions:

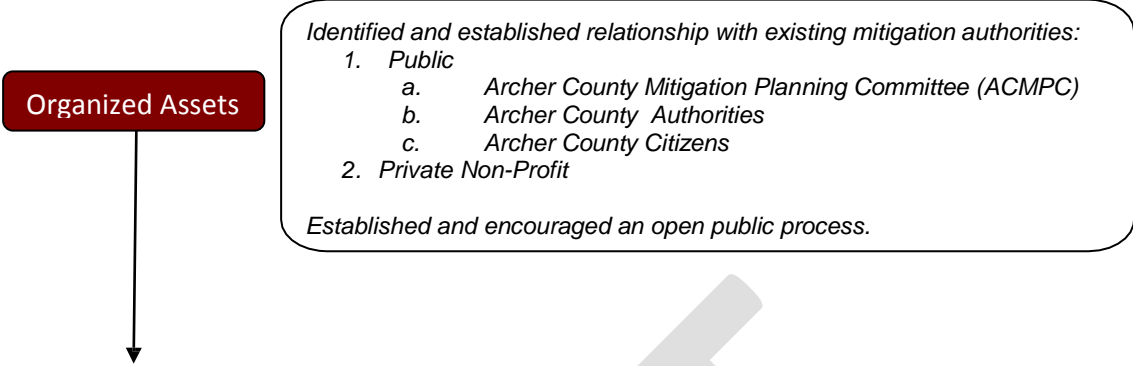
- Archer County
- City of Archer City
- City of Holliday
- City of Lakeside City
- City of Megargel
- City of Scotland
- City of Windthorst

This MAP was developed in accordance with the provisions of the Disaster Mitigation Act of 2000 (Public Law 106-390), the Pre-Disaster Mitigation Grant Program (44 CFR, Part 206), and the planning standards adopted by the Texas Division of Emergency Management. The MAP process for Archer County and the Cities within Archer County is illustrated in Diagram 1.

**Establishing the  
Mitigation Action Team**

*Diagram 1 – Archer County MAP Process*





The first two concerns for Archer County when identifying and establishing a relationship with the NRPC was; 1) getting official support for the MAP process; and, 2) encouraging public participation during meetings of the ACMPC.

To address the first issue there needed to be a consensus on how the ACMPC was going to be set up and how it was going to function. Members of this existing board would also serve as their community’s representatives for the ACMPC.

Table 1 provides the name and jurisdiction of each representative present on the NRMAT-SC.

**Table 1 – Name & Jurisdiction Served by Individuals on the NRMAT-SC**  
*The original committee members of NRMTC, which initially set up the plan format:*

<b>Nortex Regional Mitigation Action Team Steering Committee (NRMAT-SC)</b>	
<b>Representative</b>	<b>Jurisdictions served by Representative</b>
<b>Kelly DeSautel</b>	Archer County, City of Archer City, City of Holliday, City of Lakeside City, City of
<b>Billy Henderson</b>	Baylor County, City of Seymour
<b>Randy Detwiler</b>	Cottle County, City of Paducah
<b>Mike Brown</b>	Foard County, City of Crowell
<b>Frank Walden</b>	Baylor County
<b>Wallace Clay</b>	City of Chillicothe
<b>Danny Felty</b>	City of Quanah
<b>Frank Hefner</b>	Jack County, City of Bryson
<b>Frank Mooney</b>	City of Jacksboro
<b>Kelly McNabb</b>	Montague County
<b>Jim Spinks</b>	City of Bowie
<b>Lynn Henley</b>	City of Nocona
<b>Scott Thomas</b>	City of Saint Jo
<b>Gayle Roebuck</b>	City of Sunset
<b>Charles Stewart</b>	Wilbarger County, City of Vernon
<b>John Henderson</b>	City of Wichita Falls
<b>Matt Pruitt</b>	Young County, New Castle
<b>David Hooper</b>	City of Graham
<b>Ronnie Cowart</b>	City of Olney
<b>Mike Bland</b>	Nortex Regional Planning Commission

The new committee created in 2013 to facilitate the completion of and the successful approval by FEMA of the Archer County MAP.

<b>Archer County Mitigation Plan Committee</b>	
<b>Representative</b>	<b>Jurisdictions served by Representative</b>
Judge Archer County	Archer County
County Commissioners	Archer County
Archer County EMC	Archer County
Archer City Mayor	City of Archer City
Archer City Council	City of Archer City
Holliday City Mayor	City of Holliday
Holliday City Council	City of Holliday
Lakeside City Mayor	City of Lakeside City
Lakeside City Council	City of Lakeside City
Megargel City Mayor	City of Megargel
Megargel City Council	City of Megargel
Scotland City Mayor	City of Scotland
Scotland City Council	City of Scotland
Windthorst City Mayor	City of Windthorst
Windthorst City Council	City of Windthorst

To increase stakeholder buy-in, the ACMPC held two new public meetings that the ACMPC representatives from Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland, and Windthorst attended which explained the MAP process to civil servants, elected officials, and the general public. These workshops gave those in attendance information on the following:

- What is mitigation and why do we need it?
- What is the difference between nonstructural and structural mitigation?
- What is the process of creating a mitigation action plan?
- The benefits and costs involved with mitigation measures.
- The positive political consequences of mitigation actions.
- The legal liabilities for civil servants and elected officials concerning hazards in their community.

Dates of original Mitigation Workshops:

- May 6, 2005, at 10:00am
- July 20, 2005, at 10:00am
- August 17, 2005, at 10:00am

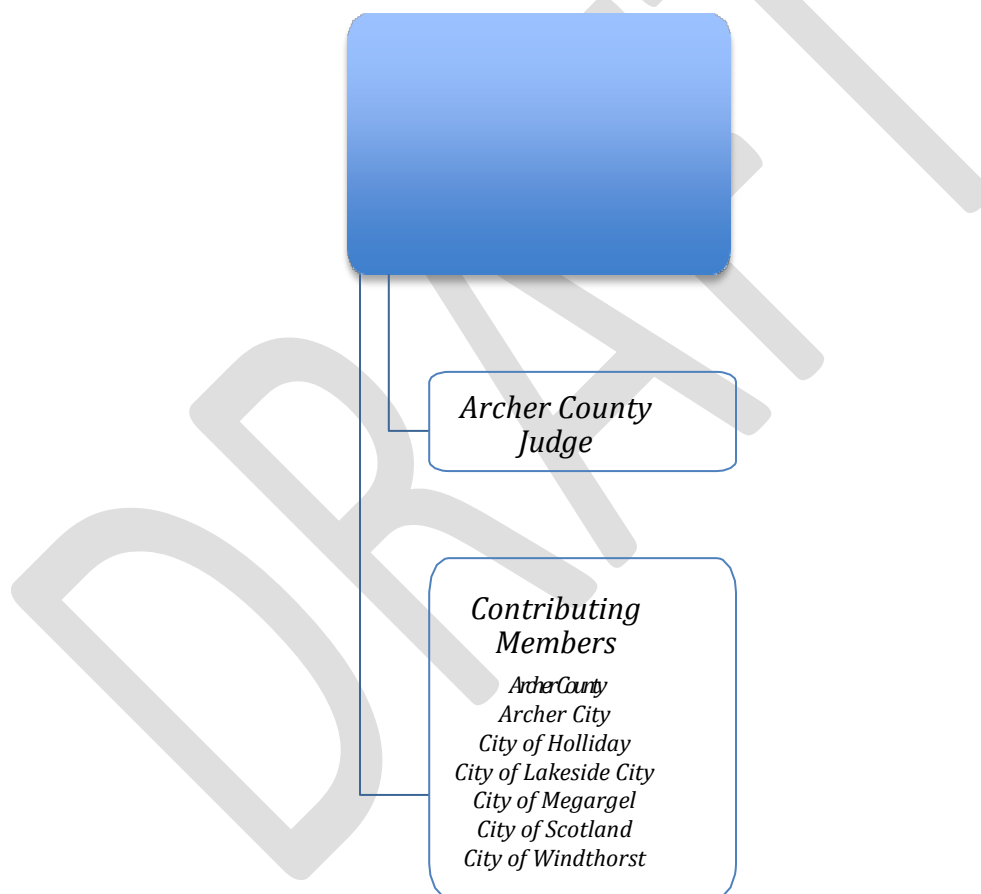
During those workshops, the NRMAT-SC representative from Archer County and the Cities within Archer County discussed and negotiated the expected outputs (e.g., this MAP) and outcomes (i.e., increases in the level of safety for Archer County citizens) with the NRPC representative as well as with representatives from the other jurisdictions represented on the NRMAT-SC. One area of concern for Archer County was the creation of a reasonable timeline to complete the MAP. The NRPC representative reassured the Archer County representative as well as representatives from other jurisdictions such as Baylor County that a MAP could be completed in a timely fashion. Another issue brought up at these workshops was the question of leadership. That is, who would lead the development of this MAP at the staff level? In the end, the NRPC agreed to share this responsibility with the Archer County representative through the NRMAT. A similar offer was extended to each jurisdiction involved in the creation of a MAP who worked with the NRPC through the NRMAT. This meant that the Archer County representative on the NRMAT would be responsible for amassing data, reviewing drafts, and editing drafts of the MAP. The general public expressed concerns about individual hazards such as

tornadoes and flooding. The Archer County representative suggested several mitigation actions the jurisdiction could take to alleviate their concerns. For example, the representative spoke some time about safe-room projects.

To finalize the creation of the NRMAT a memorandum of understanding (MOU) was established between Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland, Windthorst and the NRPC. The MOU gave NRMAT the official authority to develop the MAP for Archer County and the Cities within Archer County. The MOU outlined responsibilities for the NRMAT-SC and NRPC.

**Diagram 2 illustrates the ACMPC structure.**

**Diagram 2 – Archer County Mitigation Plan Committee Hierarchy**



### **Establishing an Open Public Process**

In order to ensure that the public would be involved in the planning process, the ACMPC decided to give Archer County citizen's general membership on the ACMPC. The general membership teams served as an advising body to the members of the ACMPC. General membership was extended to all citizens of Archer County who came and/or was invited to public meetings.

*Who was Involved?*

The general membership team represented a cross-section of Archer County



society and included, but was not limited to:

Archer County Emergency Management Coordinator  
Mayor of Megargel  
Mayor of Archer City  
Chief Appraiser for Archer County  
Archer County Extension Agent  
Archer County Judge  
Archer County Commissioner  
Archer City Councilman  
Holliday Chief of Police  
Windthorst Fire Chief  
Mayor of Scotland

Archer County also received input from local livestock inspector, bank officers and citizens from Lakeside City.

From the start, an open dialogue was established between the Archer County governing bodies and all sectors of the public to create this MAP. This open forum; 1) allowed an exchange of ideas and concerns regarding hazard mitigation between public officials and the community at large to occur; and, 2) helped establish community and official support for the mitigation actions that are outlined in this plan. Posting of the MAP online with a comment section for the general public.

- What is Mitigation and why is it important for your community?
- Difference between Structural and Nonstructural Mitigation?
- What is a Hazard?
- What hazards are the communities concerned with?
- Development of the Mitigation Action Plan and why it is important.

### Surveys

Archer County and participating jurisdictions, in coordination with the ACMPC, engaged the public was through surveys. Each member of the ACMPC was given a survey to pass out among the citizens of their jurisdictions. Please see Appendix 2 for a sample survey. See Appendix 9 for updated survey.

### Posting the MAP Online

To increase public participation during the MAP development phase was through the Archer County Website ([www.co.archer.tx.us](http://www.co.archer.tx.us)) The draft plan was posted online asking for public comments back via email. Further, during the previously mentioned countywide meetings this Web site was given to the public for their comments on the plan. In the future, the Archer County and the participating cities MAP will be posted on the Archer County's web site (<http://www.co.archer.tx.us>). The posting also ensures the continuation of public involvement in the MAP process.

### Writing the Plan

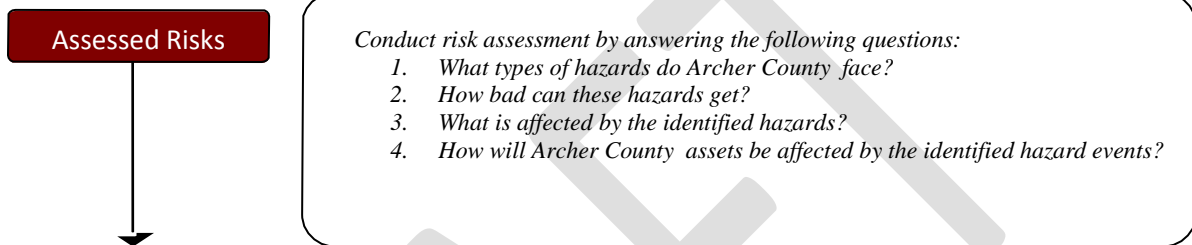
Development and coordination for the plan was conducted by ACMPC. Plan

development was discussed at public meetings of the ACMPC. The MAP Committee first reviewed methodology for risk assessment, hazard mitigation goals and objectives and determined that no changes were needed. The committee then reviewed the original potential mitigation activities. Some of the original proposed mitigation actions were replaced with new or modified proposed actions. The Mitigation activities were evaluated and prioritized. The MAP committee reviewed each project with a benefit cost review to determine if the benefit of the project were greater than the cost. This was followed by draft review and approval.

## SECTION V – ASSESSING RISKS

### Introduction

Archer County wanted a plan that would be a living, functional document.



### What Types Of Hazards Does Archer County Face?

Nine hazards were identified as possible threats to Archer County. The hazard identification was based upon a review of historical records, national data sources; Flood Insurance Rate maps (FIRMs), official reports, and discussions with local, regional, state, and federal experts. The hazard agents are as follows:

- Tornadoes
- Hail
- Windstorms
- Flood
- Winter storm
- Drought
- Extreme Heat
- Wildfire
- Dam Failure

Some of these hazards are interconnected (e.g., drought creates more fuel for wildfires) and some hazards may be characterized as elements of a broader hazard agent. For example, planners omit lengthy narratives on thunderstorms, as wind and hail, which are common during thunderstorms, are addressed at length in this MAP. It should be noted that some hazards, such as severe winter storms, may impact a large area yet cause little damage, while other hazards, such as a tornadoes, may impact a small area but cause extensive damage. Furthermore, terrorist-related incidents or accidents involving chemical, biological, radiological, nuclear, or high-yield explosives (CBRNE) agents can coincide with natural hazard events, such as flooding caused by destruction of a dam or an accidental chemical release caused by a tornado or windstorm event. It should be noted that some hazards, such as severe winter storms, may impact a large area yet cause little damage, while other hazards, such as a tornadoes, may impact a small area but cause extensive damage.

*These hazards will be into other planning mechanisms such as Archer County's Emergency Operation Plan (EOP) annexes of the State of Texas. Annex P – Hazard Mitigation will incorporate these mitigation strategies based on the risk that are identified. These plans are to be updated on a 5 year basis or if any changes, amendments or reductions are needed before that time period. New mitigation measures will be identified based on the reviews of the Hazard Mitigation Action Plan (MAP) and adjustments will be incorporated into the plan. Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland, and Windthorst are committed to implanting and maintaining the currency of this MAP. Any major substantive changes to the Plan will be brought to the County Commissioners Court for consideration and formal adoption. It will be the responsibility of the Emergency Management Coordinator to make these changes once they are adopted.*

## **Floods**

*Flooding is a significant hazard for Archer County or the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst. Flooding can occur anywhere inside of Archer County. During a two-day period on July 27-29, 2004, flooding was reported throughout Archer County. Rainfall totals for the 48 hour period included 8.12 inches in Scotland and 6.62 in Archer City. Moderate to major flooding occurred along the Little Wichita River between Lake Kickapoo and Lake Arrowhead. During this flooding event the following roads were closed: State Highway 79 (4 miles south of Archer City); State Highway 25 (northwest and east of Archer City); State Highway 174 (near Windthorst); FM 210 (west of Archer City); FM 2178 (10 miles southwest of Archer City); FM 2581 (5 miles southeast of Archer City); US Highway 281 (near Scotland); and FM 172 (near Scotland). To address any problems with flooding, **Archer County and the Cities of Archer City, Holliday, Lakeside City and Megargel do participate in the National Flood Insurance Program (NFIP)**. The Cities of Scotland and Windthorst currently do not participate in NFID. It will be recommended to these city leaders to adopt NFIP. Archer County and the Cities of Archer City, Holliday, Lakeside City and Megargel will continue compliance with the NFIP. The NFIP will be incorporated in updating and reviewing current and future mitigations strategies based on the analyzing and prioritize actions to these hazards. To continue compliance with the NFIP, Archer County will include these actions in identifying updates: identifying areas of potential flood impact by updating and digitizing flood maps and developing a Floodplain Map Master Plan; carrying out assessments of NFIP in member communities and encouraging improvements in floodplain management; assisting communities to qualify for the Community Rating System (CRS), thereby reducing flood insurance premium rates for the planning area; and provide training and technical assistance to assist local member jurisdictions in becoming disaster resistant.*

*The periodic flooding of lands adjacent to rivers, streams, and shorelines (land known as floodplain) is a natural and inevitable occurrence that can be expected to take place based upon established recurrence intervals. The recurrence interval of a flood is defined as the average time interval, in years, expected between a flood event of a particular magnitude and an equal or larger flood. Flood magnitude increases with increasing recurrence interval. Flood frequency is the chance of occurrence in a given year, which is the percentage of the probability of flooding each <sub>27</sub> year. For example, the 100-*

year flood has a 1 percent chance of occurring in any given year. Floods generally result from excessive precipitation, and can be classified under two categories:

- *General Floods - Precipitation over a given river basin for an extended period of time.*
- *Flash Floods - The product of heavy localized precipitation in a short time over a given location.*

General floods are usually long-term events that may last for several days. The primary types of general flooding include riverine, coastal, and urban flooding. Riverine flooding is a function of excessive precipitation levels and water runoff volumes within the watershed of a stream or river. Baylor is subject to a limited amount of riverine flooding. Urban flooding occurs where man-made development has obstructed the natural flow of water and decreased the ability of natural groundcover to absorb and retain surface water runoff.

Flash flooding events usually occur from within minutes or hours of heavy amounts of rainfall, or from a sudden release of water held by an ice jam. Flash flooding is the most significant cause of flooding in the planning area. Most flash flooding in the Archer County area is caused by slow moving thunderstorms or by heavy rains associated with large air masses. The flash flooding hazard may be compounded by extraneous factors. For example, a drought may exacerbate the flash flooding risk. In drought conditions the topsoil has difficulty in soaking up rainwater causing a higher risk of flash flooding. Although flash flooding occurs often along mountain streams, it is also common in urbanized areas where much of the ground is covered by impervious surfaces. Flash flood waters move at very high speeds — “walls” of water can reach heights of 10 to 20 feet. Flash flood waters and the accompanying debris can uproot trees, roll boulders, destroy buildings, and obliterate bridges and roads. The severity of a flooding event is determined by the following:

- *A combination of stream and river basin topography and physiography.*
- *Precipitation and weather patterns.*
- *Recent soil moisture conditions.*
- *The degree of vegetative clearing.*

## **Windstorms**

Windstorms, which may be a part of broader thunderstorms, may include straight-line winds, down-, micro-, and macro-burst. These destructive elements may be described as follows:

- *Straight-Line Winds – Winds that move forward along the ground in a straight-line fashion. Lines of thunderstorms can produce straight-line winds with wind speeds that can exceed 100 mph. What makes a straight-line wind not a tornado is the fact that these winds do not rotate as they do in a tornadic event. A straight-line wind can uproot trees and destroy buildings. When straight-line winds are accompanied by hail it can destroy roofs, crops, and other vegetation.*
- *Downburst - Strong downdrafts of air in a single thunderstorm that accelerates as it pushes downward. There are two types of downburst called microburst and macro-burst.*

- *Micro-Burst* - A short-lived wind event
- *Macro-Burst* - A longer-lived downburst event that has the ability of producing extensive damage across areas larger than 2.5 miles. Macro-burst are capable of producing strong winds 2.5 miles in diameter.

A review of Storm Event data shows that high winds are a frequent occurrence in Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst. Since Windstorms can happen anywhere, the entire county is prone to this type of disaster. It is not an infrequent occurrence for a windstorm to register 60 to 75 knot winds. For example, a windstorm recorded with winds of 69 knots occurred on March 4, 2004 at Holliday. Wind gust were from the range of 71mph to 87 mph. Many power lines were downed and power poles snapped, numerous trees were damaged, and some minor roof damage.

The highest value on Beaufort Wind Scale classifies winds in excess of 64 knots as a force 12 event. A force 12 wind is described as “Seldom experienced on land, trees broken or uprooted, [with] considerable structural damage.” The Beaufort Wind Scale, depicted in Table 4, shows wind speeds and the effects of winds on land. This scale may be used for thunderstorms and windstorms. The jurisdictions can expect windstorms in excess of 64 knots. Therefore the extent of Wind Storm is uniform throughout the planning area.

**Table 4 - Beaufort Wind Scale**

Force	Wind (Knots)	WMO Classification	Appearance of Wind Effects	
			On the Water	On Land
0	Less than 1	Calm	Sea surface smooth and mirror-like	Calm, smoke rises vertically
1	1-3	Light Air	Scaly ripples, no foam crests	Smoke drift indicates wind direction, still wind vanes
2	4-6	Light Breeze	Small wavelets, crests glassy, no breaking	Wind felt on face, leaves rustle, vanes begin to move
3	7-10	Gentle Breeze	Large wavelets, crests begin to break, scattered whitecaps	Leaves and small twigs constantly moving, light flags extended
4	11-16	Moderate Breeze	Small waves 1-4 ft. becoming longer, numerous whitecaps	Dust, leaves, and loose paper lifted, small tree branches move
5	17-21	Fresh Breeze	Moderate waves 4-8 ft taking longer form, many whitecaps, some spray	Small trees in leaf begin to sway
6	22-27	Strong Breeze	Larger waves 8-13 ft, whitecaps common,	Larger tree branches moving,

			<i>more spray</i>	<i>whistling in wires</i>
<b>7</b>	28-33	<i>Near Gale</i>	<i>Sea heaps up, waves 13-20 ft, white foam streaks off breakers</i>	<i>Whole trees moving, resistance felt walking against wind</i>
<b>8</b>	34-40	<i>Gale</i>	<i>Moderately high (13-20 ft) waves of greater length, edges of crests begin to break into spindrift, foam blown in streaks</i>	<i>Whole trees in motion, resistance felt walking against wind</i>
<b>9</b>	41-47	<i>Strong Gale</i>	<i>High waves (20 ft), sea begins to roll, dense streaks of foam, spray may reduce visibility</i>	<i>Slight structural damage occurs, slate blows off roofs</i>
<b>10</b>	48-55	<i>Storm</i>	<i>Very high waves (20-30 ft) with overhanging crests, sea white with densely blown foam, heavy rolling, lowered visibility</i>	<i>Seldom experienced on land, trees broken or uprooted, "considerable structural damage"</i>
<b>11</b>	56-63	<i>Violent Storm</i>	<i>Exceptionally high (30-45 ft) waves, foam patches cover sea, visibility more reduced</i>	
<b>12</b>	64+	<i>Hurricane</i>	<i>Air filled with foam, waves over 45 ft, sea completely white with driving spray, visibility greatly reduced</i>	

Source: [www.wikipedia.org](http://www.wikipedia.org)

## **Tornadoes**

Each year, an average of over 1,000 tornadoes is reported nationwide, resulting in an average of 80 deaths and 1,500 injuries (Texas Tech Weather Statistics, 2010). They are more likely to occur during the spring and early summer months of March through June and can occur at any time of day, but are likely to form in the late afternoon and early evening. Most Tornadoes are a few dozen yards wide and touch down briefly, but even small short-lived tornadoes can inflict tremendous damage. Highly destructive tornadoes may carve out a path over a mile wide and several miles long. Tornadoes may be described as follows:

- *Tornado - A violent windstorm characterized by a twisting, funnel-shaped, cloud extending to the ground. Tornadoes are most often generated by thunderstorm activity when cool, dry air intersects and overrides a layer of warm, moist, air forcing the warm air to rise rapidly.*
- *Waterspout - Weak tornado that forms over warm water. These tornadoes are most common along the Gulf Coast and southeastern states. Waterspouts are typically weak and short-lived. Because they are so common, most go unreported unless they cause damage.*

According to the National Weather Service, tornado wind speeds normally range from 40 to more than 300 miles per hour. The most violent tornadoes have rotating winds of 250 miles per hour or more and are capable of causing extreme destruction and turning normally harmless objects into deadly missiles.

The damage caused by a tornado is a result of the high wind velocity and wind-blown

debris, accompanied by lightning or large hail. Tornado destruction ranges from light to incredible depending on the intensity, size, and duration of the tornado. Typically, tornados cause the greatest damages to structures of light construction such as mobile homes, and tend to remain localized in impact.

The Enhanced Fujita (EF) Scale for tornadoes was developed to measure tornado strength and associated damages; it became operational on February 1, 2007. The EF Scale has the same basic design as the original Fujita scale, six categories from zero to five representing increasing degrees of damage. It was revised to reflect better examinations of tornado damage surveys, so as to align wind speeds more closely with associated storm damage. The new scale takes into account how most structures are designed, and is thought to be a much more accurate representation of the surface wind speeds in the most violent tornadoes.

The EF Scale portrayed in Table 5 is representative of the damage from tornadoes this community has faced in the past and will no doubt face in the future. As a tool, the EF Scale allows planners to gauge the potential damage associated with future tornadoes. Historical data, such as the 1964 example above, could be used with the EF Scale to improve the accuracy of these predictions.

Tornadoes have ranged from EF-0 to EF-2 in Baylor County. Jurisdictions can expect tornadoes from EF-0 to EF-2. Therefore the extent of tornado is uniform throughout the planning area.

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**Table 5: The Enhanced Fujita (EF) Scale**

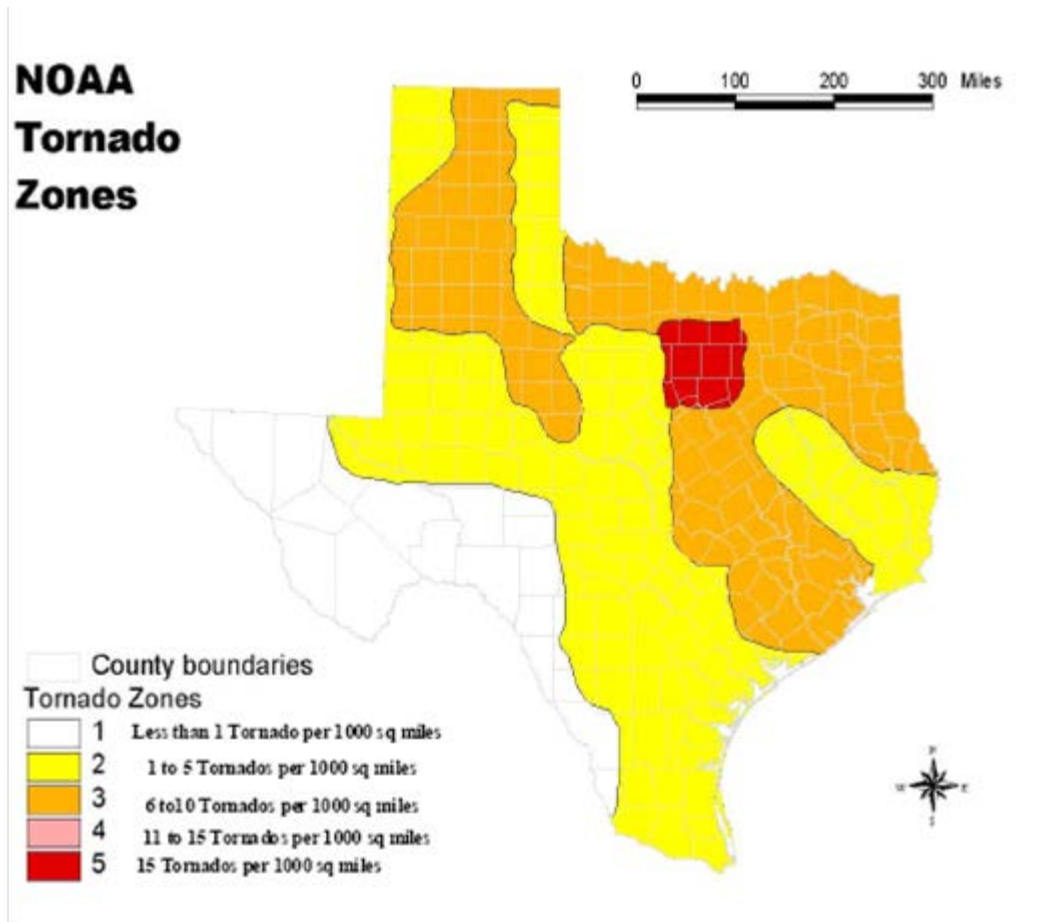
<b>Enhanced Fujita (EF) Scale</b>		
<b>Enhanced Fujita Category</b>	<b>Wind Speed (mph)</b>	<b>Potential Damage</b>
<b>EF0</b>	65-85	<b>Light damage.</b> Peels surface off some roofs; some damage to gutters or siding; branches broken off trees; shallow-rooted trees pushed over.
<b>EF1</b>	86-110	<b>Moderate damage.</b> Roofs severely stripped; mobile homes overturned or badly damaged; loss of exterior doors; windows and other glass broken.
<b>EF2</b>	111-135	<b>Considerable damage.</b> Roofs torn off well-constructed houses; foundations of frame homes shifted; mobile homes completely destroyed; large trees snapped or uprooted; light-object missiles generated; cars lifted off ground.
<b>EF3</b>	136-165	<b>Severe damage.</b> Entire stories of well-constructed houses destroyed; severe damage to large buildings such as shopping malls; trains overturned; trees debarked; heavy cars lifted off the ground and thrown; structures with weak foundations blown away some distance.
<b>EF4</b>	166-200	<b>Devastating damage.</b> Well-constructed houses and whole frame houses completely leveled; cars thrown and small missiles generated.
<b>EF5</b>	>200	<b>Incredible damage.</b> Strong frame houses leveled off foundations and swept away; automobile-sized missiles fly through the air in excess of 100 m (109 yd); high-rise buildings have significant structural deformation; incredible phenomena will occur.

Source: [http://en.wikipedia.org/wiki/Enhanced\\_Fujita\\_Scale](http://en.wikipedia.org/wiki/Enhanced_Fujita_Scale)

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst are considered to be a part of Tornado Alley. Tornado Alley is an area in the United States where the most intense tornadoes are likely to occur. Since Tornadoes can happen anywhere, the entire county is prone to this type of disaster. Tornado Alley has the highest recorded number of EF4 and EF5 tornadoes. Figure 1 illustrates where Tornado Alley lies within Texas.



**Figure 1 – Map of Tornado Alley**



## **Wildfires**

*Wildfires are part of the natural management of the Earth's ecosystems, but may also be caused by human factors. Over 80 percent of forest fires are started by negligent human behavior such as smoking in wooded areas or improperly extinguishing campfires. These fires are usually signaled by dense smoke that fills the area for miles around. Wildfires may be described as follows:*

- *Wildfire - A fire occurring in a wildland area (e.g., grasslands, forests, brush lands). An exception to this definition is a prescribed burn.*
- *Prescription Burning ("Controlled Burning") – The process of igniting fires under selected conditions, in accordance with strict parameters. For example, this fire may be undertaken by land management agencies.*

*There are three classes of wildland fires: surface fire, ground fire, and crown fire.*

1. *Surface Fire – A fire that burns along the floor of a forest, moving slowly and killing or damaging trees. This is the most common wildfire.*
2. *Ground Fire ("Muck Fire") – Fire that is usually started by lightning or human carelessness and burns on or below the forest floor.*

3. **Crown Fire** – Fire that spreads rapidly by wind and moves quickly by jumping along the tops of trees.

State and local governments can impose fire safety regulations on home sites and developments to help curb wildfire. Land treatment measures such as fire access roads, water storage, helipads, safety zones, buffers, firebreaks, fuel breaks, and fuel management can be designed as part of an overall fire defense system to aid in fire control. Fuel management, prescribed burning, and cooperative land management planning can also be encouraged to reduce fire hazards.

Fire probability depends on local weather conditions, outdoor activities such as camping, debris burning, and construction, and the degree of public cooperation with fire prevention measures. Drought conditions and other natural disasters (e.g., tornadoes, hurricanes, etc.) increase the probability of wildfires by producing fuel in both urban and rural settings. Fire probability may be determined by using the Keetch-Byram Drought Index (KBDI).

The KBDI is a mathematical system for relating current and recent weather conditions to potential or expected fire behavior. This system was originally developed for the southeastern United States and is based primarily on recent rainfall patterns. The KBDI presented in Table 6 is the most widely used drought index system by fire managers in the south. It is also one of the only drought index systems specifically developed to equate the effects of drought with potential fire activities. The result of this system is a drought index number ranging from 0 to 800 that accurately describes the amount of moisture that is missing. A rating of zero defines the point where there is no moisture deficiency and 800 is the maximum drought possible.

The extent of acreage burned during wildfires ranged from 85 acres to 5,166 acres; therefore the extent of wildfire is uniform across the planning area.

Table 6 - Keetch-Byram Drought Index

<b>Keetch-Byram Drought Index</b>	
<b>Drought Index #</b>	<b>Potential Fire Behavior</b>
<b>0 - 200</b>	Soil and fuel moisture are high. Most fuels will not readily ignite or burn. However, with sufficient sunlight and wind, cured grasses and some light surface fuels will burn in spots and patches.
<b>200 - 400</b>	Fires more readily burn and will carry across an area with no gaps. Heavier fuels will still not readily ignite and burn. Also, expect smoldering and the resulting smoke to carry into and possibly through the night.
<b>400 - 600</b>	Fire intensity begins to significantly increase. Fires will readily burn in all directions exposing mineral soils in some locations. Larger fuels may burn or smolder for several days creating possible smoke and control problems.
<b>600 - 800</b>	Fires will burn to mineral soil. Stumps will burn to the end of underground roots and spotting will be a major problem. Fires will burn thorough the night and heavier fuels will actively burn and contribute to fire intensity.

Source: <http://www.wfas.us/content/view/32/49/>

## **Drought**

*In the 1930s-1950s the United States experienced a great drought called the "Dust Bowl." The planning area received damaging dust storms from that event which economically devastated the farming community. Drought may be described as follows:*

- *Drought - A natural climatic condition caused by an extended period of limited rainfall that occurs naturally in a broad geographic area. High temperatures, high winds, and low humidity can worsen drought conditions, and can make areas more susceptible to wildfire. Human demands and actions can also hasten drought-related impacts.*

*Droughts are frequently classified as one of following four types:*

- *Meteorological – Drought defined by the level of "dryness" when compared to an average, or normal amount of precipitation over a given period of time.*
- *Agricultural - Agricultural droughts relate common characteristics of drought to their specific agricultural-related impacts. Emphasis tends to be placed on factors such as soil water deficits, water needs based on differing stages of crop development, and water reservoir levels.*
- *Hydrological - Hydrological drought is directly related to the effect of precipitation shortfalls on surface and groundwater supplies. Human factors, particularly changes in land use, can alter the hydrologic characteristics of a basin.*
- *Socio-economic - Socio-economic drought is the result of water shortages that limit the ability to supply water dependent products in the marketplace.*

*In 1965, Wayne Palmer developed an index to "measure the departure of the moisture supply". Palmer based his index on the supply-and-demand concept of the water balance equation, taking into account more than only the precipitation deficit at specific locations. The objective of the Palmer Drought Severity Index (PDSI), as this index is now called, is to provide a measurement of moisture conditions that were "standardized" so that comparisons using the index could be made between locations and between months. The PDSI displayed in Table 7 is based on precipitation and temperature. The PDSI can therefore be applied to any site for which sufficient precipitation and temperature data is available. The PDSI varies roughly between -4.0 and +4.0. Weekly PDSI values are calculated for the climate divisions during every growing season and are on the Internet from the Climate Prediction Center.*

*Periods of drought occur on a frequent basis throughout the planning area with the PDSI values ranging from 0 to -3.89. The jurisdictions can expect droughts with PDSI values ranging from 0 to -3.89 therefore; the extent of drought is uniform across the planning area.*

**Table 7 - Palmer Drought Severity Index (PDSI)**

<b>PDSI Classifications for Dry and Wet Periods</b>	
<b>4.00 or more</b>	<i>Extremely wet</i>
<b>3.00 to 3.99</b>	<i>Very wet</i>
<b>2.00 to 2.99</b>	<i>Moderately wet</i>
<b>1.00 to 1.99</b>	<i>Slightly wet</i>
<b>0.50 to 0.99</b>	<i>Incipient wet spell</i>
<b>0.49 to -0.49</b>	<i>Near normal</i>
<b>-0.50 to -0.99</b>	<i>Incipient dry spell</i>
<b>-1.00 to -1.99</b>	<i>Mild drought</i>
<b>-2.00 to -2.99</b>	<i>Moderate drought</i>
<b>-3.00 to -3.99</b>	<i>Severe drought</i>
<b>-4.00 or less</b>	<i>Extreme drought</i>

Source: <http://drought.unl.edu/whatis/indices.htm>

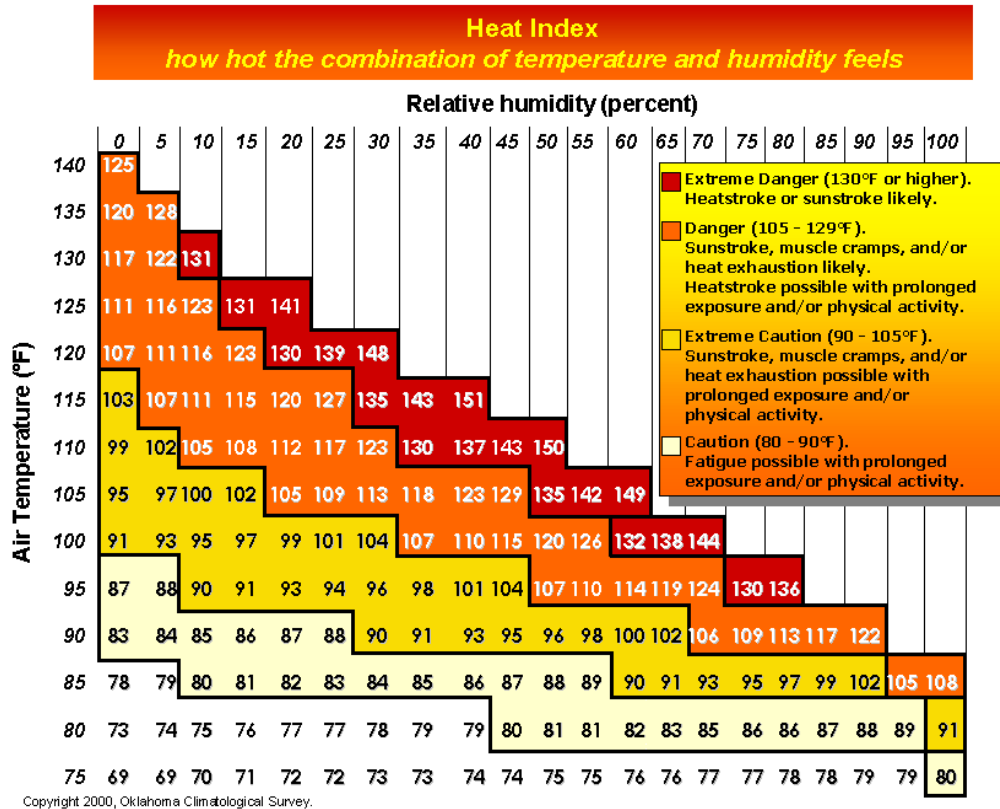
### **Extreme Heat**

While drought mostly impacts land and water resources, extreme heat can pose a significant risk to humans. Extreme heat can be defined as follows:

- *Extreme Heat - Temperatures that hover 10 degrees or more above the average high temperature for any particular geographic region. These temperatures usually last for prolonged periods of time and are often accompanied by high humidity.*

*Under normal conditions, the human body's internal thermostat produces perspiration that evaporates and cools the body. However, in extreme heat and high humidity, evaporation is slowed and the body must work much harder to maintain a normal temperature. Due to the nature of extreme heat, its effects are similar throughout the entire planning area. Figure 2 below depicts a Heat Index by which Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst may project the impact of extreme heat hazards. Since Extreme Heat can happen anywhere, the entire county is prone to this type of disaster.*

**Figure 2 – Heat Index Chart**



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## **Hail**

*Hailstorms are an outgrowth of severe thunderstorms. People outdoors would be the most likely victim during a hailstorm, but the biggest threat would come from large hailstones and damage they would cause to property. Hail may be characterized as follows:*

- *Hail - Early in the developmental stages of a hailstorm, ice crystals form within a low-pressure front due to the rapid rising of warm air into the upper atmosphere and the subsequent cooling of the air mass. Frozen droplets gradually accumulate on the ice crystals until, having developed sufficient weight, they fall as precipitation as balls or irregularly shaped masses of ice greater than 0.75 in. (1.91 cm) in diameter.*

*The size of hailstones is a direct function of the size and severity of the storm. High velocity updraft winds are required to keep hail in suspension in thunderclouds. The strength of the updraft is a function of the intensity of heating at the Earth's surface. Higher temperature gradients relative to elevation above the surface result in increased suspension time and hailstone size.*

*Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland, and Windthorst experience hailstorms on an annual basis. Many thunderstorms contain large hail that would be classified on the NWS/TORRO scale as H4 to H5, resulting in widespread damage. The Combined NOAA/TORRO Hailstorm Intensity Scales outlined in Table 8 below describes hail hazards according to size code (H0 – H10). This scale may be used during preliminary damage assessments in order to determine which mitigation action to proceed with.*

*The extent of hail in the planning area has been recorded as high as 4.75 inches, H10, on the Torro Hail Scale. The jurisdictions can expect hailstones with Torro Values ranging from H0 to H10. Therefore, the extent of hail is uniform throughout the planning area.*

**Table 8 - NWS/TORRO Hail Scale**

<b>Combined NOAA/TORRO Hailstorm Intensity Scales</b>				
<i>Size Code</i>	<i>Intensity Category</i>	<i>Typical Hail Diameter (inches)</i>	<i>Approximate Size</i>	<i>Typical Damage Impacts</i>
<i>H0</i>	<i>Hard Hail</i>	<i>up to 0.33</i>	<i>Pea</i>	<i>No damage</i>
<i>H1</i>	<i>Potentially Damaging</i>	<i>0.33-0.60</i>	<i>Marble or Mothball</i>	<i>Slight damage to plants, crops</i>
<i>H2</i>	<i>Potentially Damaging</i>	<i>0.60-0.80</i>	<i>Dime or grape</i>	<i>Significant damage to fruit, crops, vegetation</i>
<i>H3</i>	<i>Severe</i>	<i>0.80-1.20</i>	<i>Nickel to Quarter</i>	<i>Severe damage to fruit and crops, damage to glass and plastic structures, paint and wood scored</i>
<i>H4</i>	<i>Severe</i>	<i>1.2-1.6</i>	<i>Half Dollar to Ping Pong Ball</i>	<i>Widespread glass damage, vehicle bodywork damage</i>
<i>H5</i>	<i>Destructive</i>	<i>1.6-2.0</i>	<i>Silver dollar to Golf Ball</i>	<i>Wholesale destruction of glass, damage to tiled roofs, significant risk of injuries</i>
<i>H6</i>	<i>Destructive</i>	<i>2.0-2.4</i>	<i>Lime or Egg</i>	<i>Aircraft bodywork dented, brick walls pitted</i>
<i>H7</i>	<i>Very destructive</i>	<i>2.4-3.0</i>	<i>Tennis ball</i>	<i>Severe roof damage, risk of serious injuries</i>
<i>H8</i>	<i>Very destructive</i>	<i>3.0-3.5</i>	<i>Baseball to Orange</i>	<i>Severe damage to aircraft bodywork</i>
<i>H9</i>	<i>Super Hailstorms</i>	<i>3.5-4.0</i>	<i>Grapefruit</i>	<i>Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open</i>
<i>H10</i>	<i>Super Hailstorms</i>	<i>4+</i>	<i>Softball and up</i>	<i>Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open</i>

Sources: [www.noaa.gov](http://www.noaa.gov) and [www.torro.org](http://www.torro.org)

## **Winter Storms**

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst is no stranger to winter storms. Our winter storms produce ice, sleet and some snow. Winter storms may be described as follows:

*Winter Storm – Winter storms can range from a moderate snow downfall over a period of a few hours to blizzard conditions with blinding wind-driven snow downfalls that lasts for several days. Some winter storms may be large enough to affect several states, while others may affect only a single community. Many winter storms are accompanied by low temperatures and/ or blowing snow, which can severely impair visibility. Winter storms may include snow, sleet, freezing rain, or a mix of these wintry forms of precipitation.*

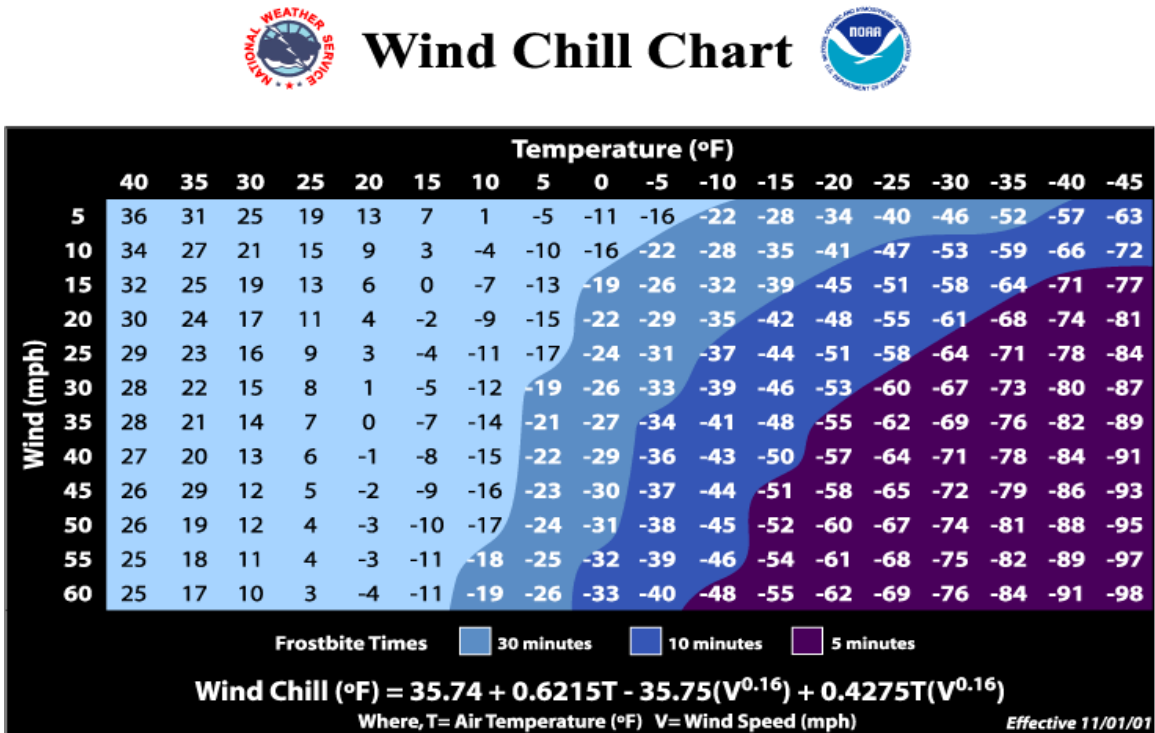
- *Sleet - Raindrops that freeze into ice pellets before reaching the ground. Sleet usually bounces off surfaces it strikes and does not stick to objects; however, sleet can accumulate like snow and cause a hazard to motorists.*
- *Freezing Rain - Rain that falls on a surface with a temperature below freezing, forming a glaze of ice. Even small accumulations of ice can cause a significant hazard, especially on power lines and trees.*
- *Ice storms occur when freezing rain falls and freezes immediately upon impact. Communications and power can be disrupted for days, and even small accumulations of ice may cause extreme hazards to motorists and pedestrians.*
- *Freeze is weather marked by low temperatures, especially when below the freezing point (zero degrees Celsius or thirty-two degrees Fahrenheit). Agricultural production is seriously affected when temperatures remain below the freezing point.*

*The wind chill temperature you have undoubtedly heard of is simply a measure of how cold the wind makes real air temperature feel to the human body. Since wind can dramatically accelerate heat loss from the body, a blustery 30° day would feel just as cold as a calm day with 0° temperatures. The Wind Chill Chart depicted in Figure 3 was created in 1870, and on November 1, 2001, the National Weather Service released a more scientifically accurate equation, which Baylor County and the City of Seymour use today. Here is a chart for calculating wind chill. Please note that the Wind Chill Chart is not applicable in calm winds or when the temperature is over 50°. Again, the Wind Chill Chart helps city planners project the effects of winter storms on the community*

*Four to eight inches of snow was estimated over the entire county, with the highest totals over the eastern half of the county. Six to eight inches was estimated in the planning area. Jurisdictions can expect winter storms that have an excess of 6-8 inches of snow. Therefore the extent of Winter Storm is uniform throughout the planning area.*



Figure 2 – Wind Chill Chart



Source: National Weather Service and NOAA

### Dam Failures

There are approximately 80,000 dams in the United States today, the majority of which are privately owned. Other owners include state and local authorities, public utilities, and federal agencies. The benefits of dams are numerous: they provide water for drinking, navigation, and agricultural irrigation. Dams also provide hydroelectric power, create lakes for fishing and recreation, and save lives by preventing or reducing floods. Dam failures may be characterized in the following way:

*Dam Failures – Dam failures occur when a dam, for whatever reason, is breached causing loss of life and property damage downstream or in areas surrounding the dam. Loss of life and property damage may be the effect of flooding created by dam.*

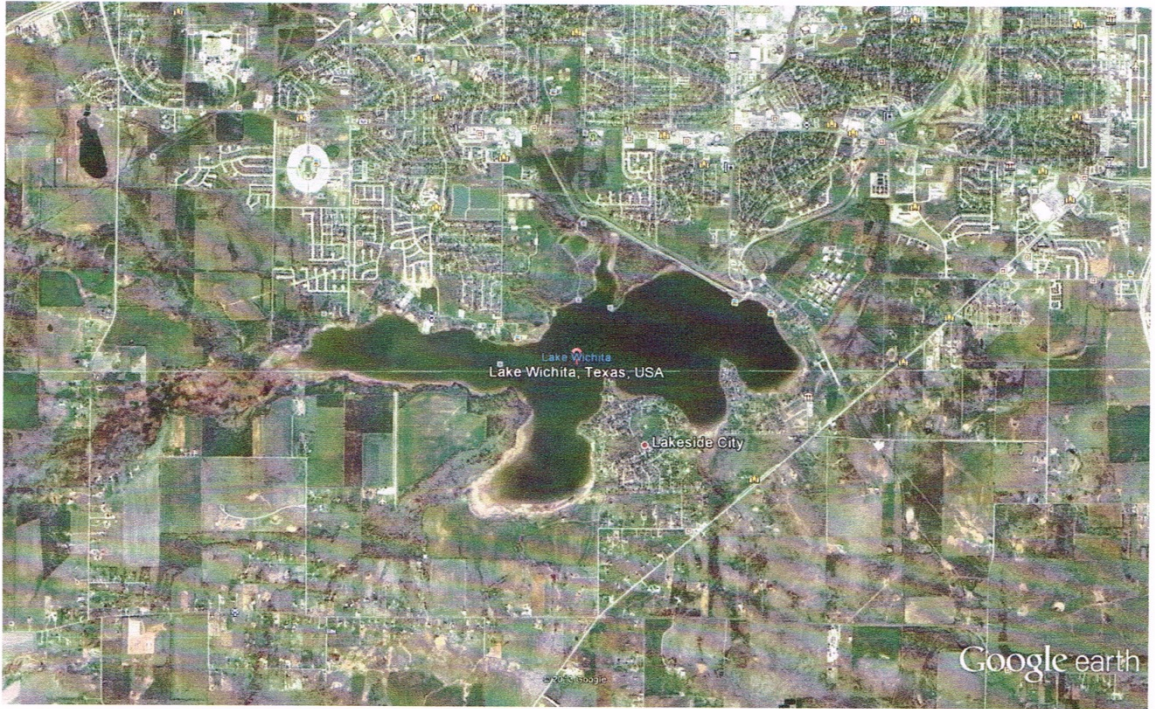
Worldwide interest in dam safety has risen significantly in recent years. Aging infrastructure, new hydrologic information, and population growth in floodplain areas downstream from dams have resulted in an increased emphasis on safety, operation, and maintenance. Though dams have many benefits, they also can pose a risk to communities if not designed, operated, and maintained properly. For

*example, in the event of a dam failure, the energy of the water stored behind even a small dam is capable of causing loss of life and great property damage if development exists downstream of the dam. The failure of dams has the potential to place large numbers of people and great amounts of property in harm's way.*

*Archer County has one major damn located within the county, Lake Kickapoo. There is also part of another lake, Lake Wichita, with portions of the lake in both Archer County and Wichita County. Wichita County is located on the northern border of the county; however, the damn and spillway are both located in Wichita County and any damn failure or breach would only result in flooding for Wichita County.*

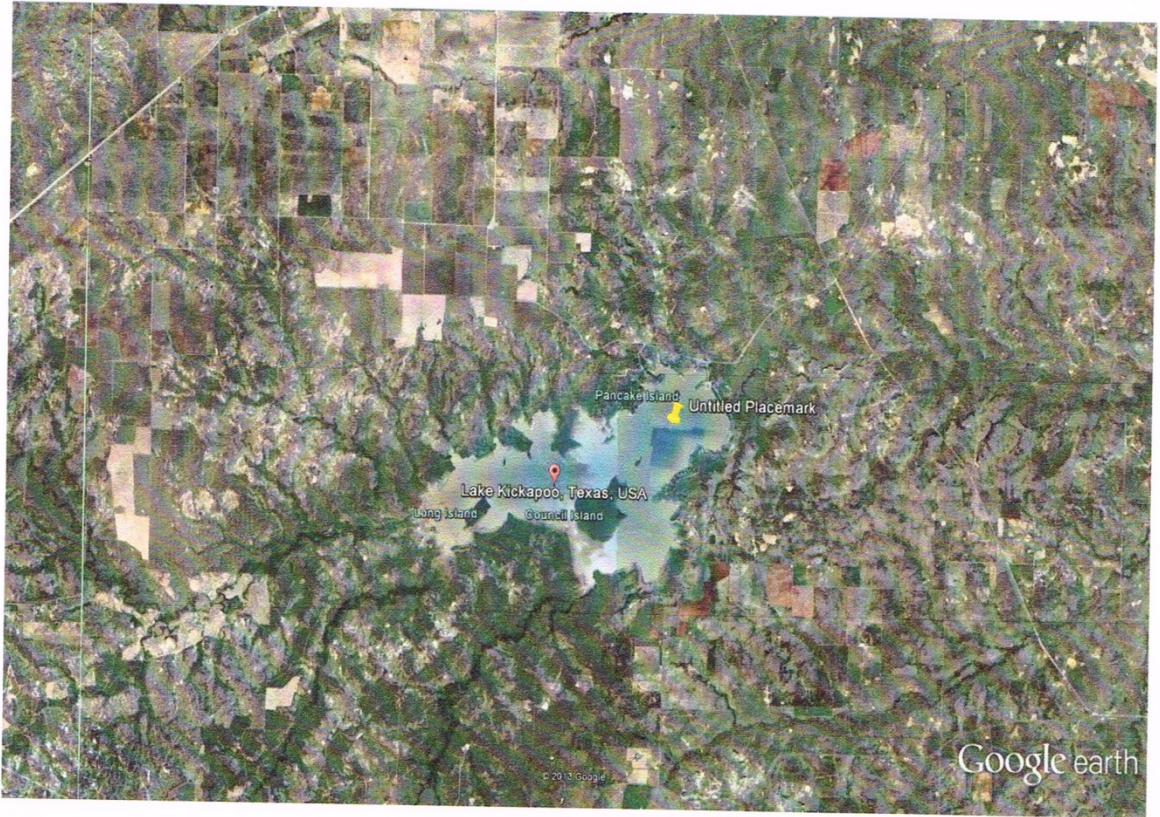
*Lake Wichita is located in portions of Northern Archer County and Southern Wichita County. The surface area of the lake is 1,224 acres with a maximum depth of 9.5 with and a conservation pool elevation of 976 ft. Like earlier stated, a damn failure or breach would only result in flooding in Wichita County. Lake Wichita damn is approximately located at 33°50'34.23"N Latitude and 98°32'10.77"W Longitude. Figure 6 is a map of the location of Lake Wichita.*

*Lake Kickapoo is located in Southern Archer County. The surface area of the lake is 6,028 acres with a maximum depth of 48 feet with the conservation pool elevation of 1,045 ft. There are no flood maps currently available for any potential damn failure or breach for the area around Lake Kickapoo. A damn failure would result in mostly agricultural losses with minimal threat to lives. Lake Kickapoo's damn is approximately located at 33°39'40.33"N Latitude and 98°46'36.68"W Longitude. Figure 7 is a map of the location of Lake Kickapoo.*



Google earth





Google earth



### **How Bad Can These Hazards Get?**

*The Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst took the nine identified hazards and profiled them. These hazard profiles are based on, among other things, the severity of impact, probability of occurrence, warning time, seasonal patterns, cascading potential, and existing warning systems associated with the nine hazards. Archer County is rural and agricultural/ranching based economy. They are more susceptible to wildfires because of the fuel load from agriculture/ranching as opposed to the fuel load found in the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst, which is predominately from overgrown lots. Flooding also impacts the county differently than the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst, again this is related to the lack of manufacturing in the county and the prevalence of agriculture/ranching as the basis for the county economy. Floods would tend to have more of an economic impact due to crop/livestock loss than a financial loss due to the loss or damage of buildings. While in the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst the economic loss would be from damage to homes and businesses. Table 9 summarizes these data.*

**Table 9 – Summary of Hazard Profiles**

<b>Hazard</b>	<b>Sector</b>	<b>Probability of Occurrence</b>	<b>Warning Time</b>	<b>Potential Severity</b>	<b>Risk Level</b>	<b>Priorit y*</b>
<b>Tornadoes</b>	Archer County	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	X Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High X High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	1
<b>Tornadoes</b>	City of Archer City	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	X Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High X High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	1
<b>Tornadoes</b>	City of Holliday	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	X Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High X High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	1
<b>Tornadoes</b>	City of Lakeside City	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	X Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High X High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	1
<b>Tornadoes</b>	City of Megargel	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	X Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High X High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	1
<b>Tornadoes</b>	City of Scotland	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	X Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High X High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	1
<b>Tornadoes</b>	City of Windthorst	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	X Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High X High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	1
<b>Wildfire</b>	Archer County	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	2
<b>Wildfire</b>	City of Archer City	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	2
<b>Wildfire</b>	City of Holliday	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours	<input type="checkbox"/> Substantial X Major	X Very High <input type="checkbox"/> High	2

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<b>Wildfire</b>	City of Lakeside City	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	2
<b>Wildfire</b>	City of Megargel	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	2
<b>Wildfire</b>	City of Scotland	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	2
<b>Wildfire</b>	City of Windthorst	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	X Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	2
<b>Extreme Heat</b>	Archer County	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	3
<b>Extreme Heat</b>	City of Archer City	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	3
<b>Extreme Heat</b>	City of Holliday	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	3
<b>Extreme Heat</b>	City of Lakeside City	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	3
<b>Extreme Heat</b>	City of Megargel	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	3
<b>Extreme Heat</b>	City of Scotland	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	3
<b>Extreme Heat</b>	City of Windthorst	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial X Major <input type="checkbox"/> Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	3
<b>Hail</b>	Archer County	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional	<input type="checkbox"/> Minimal or None X 3 to 6 hours <input type="checkbox"/> 6 to 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major	<input type="checkbox"/> Very High <input type="checkbox"/> High	4

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<b>Hail</b>	City of Archer City	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input checked="" type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	4
<b>Hail</b>	City of Holliday	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input checked="" type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	4
<b>Hail</b>	City of Lakeside City	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input checked="" type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	4
<b>Hail</b>	City of Megargel	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input checked="" type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	4
<b>Hail</b>	City of Scotland	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input checked="" type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	4
<b>Hail</b>	City of Windthorst	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input checked="" type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	4
<b>Wind Storms</b>	Archer County	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input checked="" type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	5
<b>Wind Storms</b>	City of Archer City	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input checked="" type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	5
<b>Wind Storms</b>	City of Holliday	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input checked="" type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	5
<b>Wind Storms</b>	City of Lakeside City	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input checked="" type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	5
<b>Wind Storms</b>	City of Megargel	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input checked="" type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	5
<b>Wind Storms</b>	City of Scotland	<input checked="" type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input checked="" type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	5



			hours	X Limited		
<b>Wind Storms</b>	City of Windthorst	X Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours X 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor X Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	5
<b>Winter storms</b>	Archer County	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	6
<b>Winter storms</b>	City of Archer City	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	6
<b>Winter storms</b>	City of Holliday	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	6
<b>Winter storms</b>	City of Lakeside City	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	6
<b>Winter storms</b>	City of Megargel	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	6
<b>Winter storms</b>	City of Scotland	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	6
<b>Winter storms</b>	City of Windthorst	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	6
<b>Drought</b>	Archer County	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	7
<b>Drought</b>	City of Archer City	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	7
<b>Drought</b>	City of Holliday	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	7
<b>Drought</b>	City of Lakeside City	<input type="checkbox"/> Highly Likely X Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours X More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major X Minor <input type="checkbox"/> Limited	X Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	7

<b>Drought</b>	City of Megargel	<input type="checkbox"/> Highly Likely <input checked="" type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input checked="" type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	7
<b>Drought</b>	City of Scotland	<input type="checkbox"/> Highly Likely <input checked="" type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input checked="" type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	7
<b>Drought</b>	City of Windthorst	<input type="checkbox"/> Highly Likely <input checked="" type="checkbox"/> Likely <input type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input checked="" type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input checked="" type="checkbox"/> Very High <input type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	7
<b>Flooding</b>	Archer County	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Very High <input checked="" type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	8
<b>Flooding</b>	City of Archer City	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Very High <input checked="" type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	8
<b>Flooding</b>	City of Holliday	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Very High <input checked="" type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	8
<b>Flooding</b>	City of Lakeside City	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Very High <input checked="" type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	8
<b>Flooding</b>	City of Megargel	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Very High <input checked="" type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	8
<b>Flooding</b>	City of Scotland	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Very High <input checked="" type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	8
<b>Flooding</b>	City of Windthorst	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Occasional <input type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Very High <input checked="" type="checkbox"/> High <input type="checkbox"/> Limited <input type="checkbox"/> Minimal	8
<b>Dam Failure</b>	Archer County	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	9
<b>Dam Failure</b>	City of Archer City	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	9
<b>Dam</b>	City of	<input type="checkbox"/> Highly Likely	<input checked="" type="checkbox"/> Minimal or None	<input type="checkbox"/> Substantial	<input type="checkbox"/> Very	9

<b>Failure</b>	Holiday	<input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unlikely	<input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> al <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> High <input checked="" type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	
<b>Dam Failure</b>	City of Lakeside City	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	9
<b>Dam Failure</b>	City of Megargel	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	9
<b>Dam Failure</b>	City of Scotland	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	9
<b>Dam Failure</b>	City of Windthorst	<input type="checkbox"/> Highly Likely <input type="checkbox"/> Likely <input type="checkbox"/> Occasional <input checked="" type="checkbox"/> Unlikely	<input checked="" type="checkbox"/> Minimal or None <input type="checkbox"/> 3 to 6 hours <input type="checkbox"/> 6 to 12 hours <input type="checkbox"/> More than 12 hours	<input type="checkbox"/> Substantial <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Limited	<input type="checkbox"/> Very High <input type="checkbox"/> High <input checked="" type="checkbox"/> Limited <input type="checkbox"/> Minimal	9

\* Scaled from 1 to 12 with 1 being the highest level priority

<b>Risk Level</b>	
<b>Very High</b>	People and facilities located in known risk areas.
<b>High</b>	People and facilities located in areas that have previously experienced impacts from hazards and/or in areas where impacts from hazards are possible and probable (e.g. 500 year floodplain, fringe areas along waterways, inland areas beyond coast, "tornado alley", etc.).
<b>Limited</b>	People and facilities located in areas that have low frequency history of impacts from hazards and/or in areas where impact is possible but not probable.
<b>Minimal</b>	People and facilities located in areas with no history of occurrence of hazards and/or in areas where impact is not possible or probable.

### Floods – Archer County

<b>Potential Severity Of Impact:</b>	
<b>Substantial</b>	<ul style="list-style-type: none"> <li>Multiple deaths</li> <li>Complete shutdown of facilities for 30 days or more.</li> <li>More than 50 percent of property destroyed or with major damage.</li> </ul>
<b>Major</b>	<ul style="list-style-type: none"> <li>Injuries and/or illnesses result in permanent disability.</li> <li>Complete shutdown of critical facilities for at least 2 weeks.</li> <li>More than 25 percent of property destroyed or with major damage.</li> </ul>
<b>Minor</b>	<ul style="list-style-type: none"> <li>Injuries and/or illnesses do not result in permanent disability.</li> <li>Complete shutdown of critical facilities for more than 1 week.</li> <li>More than 10 percent of property destroyed or with major damage.</li> </ul>
<b>Limited</b> X	<ul style="list-style-type: none"> <li>Injuries and/or illnesses are treatable with first aid.</li> <li>Minor quality of life lost.</li> <li>Shutdown of critical facilities and services for 24 hours or less.</li> <li>Less than 10 percent of property destroyed or with major damage.</li> </ul>
<b>Probability of Occurrence:</b>	
<b>Seasonal Pattern:</b>	

<input type="checkbox"/> <i>Highly likely: Event probable in next year.</i> <input type="checkbox"/> <i>Likely: Event probable in next 3 years.</i> <input checked="" type="checkbox"/> <i>Occasional: Event possible in next 5 years.</i> <input type="checkbox"/> <i>Unlikely: Event possible in next 10 years.</i>	<i>Spring and Summer</i>
<i>List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected:</i> <ul style="list-style-type: none"> <li>• <i>National Weather Service</i></li> </ul>	
<i>Probable Duration:</i> <ul style="list-style-type: none"> <li>• <i>Up to 24 hours</i></li> </ul>	
<b><i>Warning Time (Potential Speed of Onset):</i></b>	
<input checked="" type="checkbox"/> <i>Minimal (or no) warning.</i> <input type="checkbox"/> <i>3 to 6 hours warning.</i> <input type="checkbox"/> <i>6 to 12 hours warning.</i> <input type="checkbox"/> <i>More than 12 hours warning.</i>	
<i>Cascading Potential:</i> <ul style="list-style-type: none"> <li>• <i>Unsafe Road Conditions, Crop Damage, Soil Erosion, Property Damage</i></li> </ul>	
<i>Existing Warning Systems:</i> <ul style="list-style-type: none"> <li>• <i>National Weather Service</i></li> <li>• <i>Radio and T.V.</i></li> <li>• <i>NOAA Weather Radio</i></li> </ul>	
<b><i>Vulnerable Structures Affected by Floods:</i></b>	
<i>Critical Facility:</i>	<i>Location</i>
<i>Archer City V.F.D.</i>	<i>215 E Walnut</i>
<i>Archer City Hall</i>	<i>118 S. Sycamore</i>
<i>Archer City Police Department</i>	<i>206 E Walnut</i>
<i>Archer County Sheriff Department</i>	<i>102 S Sycamore</i>
<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>

<i>Scotland City Hall</i> <i>Scotland V.F.D.</i>	<i>727 Ave L</i> <i>379 Ave J</i>
<i>Comments/Discussion:</i>	

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Windstorms – Archer County

<i>Potential Severity Of Impact:</i>	
<i>Substantial</i>	<ul style="list-style-type: none"> <li>• <i>Multiple deaths</i></li> <li>• <i>Complete shutdown of facilities for 30 days or more.</i></li> <li>• <i>More than 50 percent of property destroyed or with major damage.</i></li> </ul>
<i>Major</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses result in permanent disability.</i></li> <li>• <i>Complete shutdown of critical facilities for at least 2 weeks.</i></li> <li>• <i>More than 25 percent of property destroyed or with major damage.</i></li> </ul>
<i>Minor</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses do not result in permanent disability.</i></li> <li>• <i>Complete shutdown of critical facilities for more than 1 week.</i></li> <li>• <i>More than 10 percent of property destroyed or with major damage.</i></li> </ul>
<i>Limited</i> X	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses are treatable with first aid.</i></li> <li>• <i>Minor quality of life lost.</i></li> <li>• <i>Shutdown of critical facilities and services for 24 hours or less.</i></li> <li>• <i>Less than 10 percent of property destroyed or with major damage.</i></li> </ul>
<i>Probability of Occurrence:</i>	
<input type="checkbox"/> <i>Highly likely: Event probable in next year.</i> X <i>Likely: Event probable in next 3 years.</i> <input type="checkbox"/> <i>Occasional: Event possible in next 5 years.</i> <input type="checkbox"/> <i>Unlikely: Event possible in next 10 years.</i>	<i>Seasonal Pattern:</i>
<i>Any time of year</i>	
<i>List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected:</i>	
<ul style="list-style-type: none"> <li>• <i>National Weather Service</i></li> </ul>	
<i>Probable Duration:</i>	
<ul style="list-style-type: none"> <li>• <i>Minutes to Hours</i></li> </ul>	
<i>Warning Time (Potential Speed of Onset):</i>	
<input type="checkbox"/> <i>Minimal (or no) warning.</i> X <i>3 to 6 hours warning.</i> <input type="checkbox"/> <i>6 to 12 hours warning.</i> <input type="checkbox"/> <i>More than 12 hours warning.</i>	
<i>Cascading Potential:</i>	
<ul style="list-style-type: none"> <li>• <i>Loss of crops, property damage, loss of communications, destroy roofs, up root trees</i></li> </ul>	
<i>Existing Warning Systems:</i>	
<ul style="list-style-type: none"> <li>• <i>National Weather Service</i></li> <li>• <i>Radio and T.V.</i></li> <li>• <i>NOAA Weather Radio</i></li> </ul>	
<i>Vulnerable Structures Affected by Windstorms:</i>	
<i>Critical Facility:</i>	<i>Location:</i>

<i>Archer City V.F.D.</i>	<i>215 E Walnut</i>
<i>Archer City City Hall</i>	<i>118 S. Sycamore</i>
<i>Archer City Police Department</i>	<i>206 E Walnut</i>
<i>Archer County Sheriff Department</i>	<i>102 S Sycamore</i>
<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

Tornadoes – Archer County

<i>Potential Severity Of Impact:</i>	
<i>Substantial X</i>	<ul style="list-style-type: none"> <li>• <i>Multiple deaths</i></li> <li>• <i>Complete shutdown of facilities for 30 days or more.</i></li> <li>• <i>More than 50 percent of property destroyed or with major damage.</i></li> </ul>
<i>Major</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses result in permanent disability.</i></li> <li>• <i>Complete shutdown of critical facilities for at least 2 weeks.</i></li> <li>• <i>More than 25 percent of property destroyed or with major damage.</i></li> </ul>
<i>Minor</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses do not result in permanent disability.</i></li> <li>• <i>Complete shutdown of critical facilities for more than 1 week.</i></li> <li>• <i>More than 10 percent of property destroyed or with major damage.</i></li> </ul>
<i>Limited</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses are treatable with first aid.</i></li> <li>• <i>Minor quality of life lost.</i></li> <li>• <i>Shutdown of critical facilities and services for 24 hours or less.</i></li> <li>• <i>Less than 10 percent of property destroyed or with major damage.</i></li> </ul>
<i>Probability of Occurrence:</i>	
<i>X</i>	<i>Highly likely: Event probable in next year.</i>
<input type="checkbox"/>	<i>Likely: Event probable in next 3 years.</i>
<input type="checkbox"/>	<i>Occasional: Event possible in next 5 years.</i>
<input type="checkbox"/>	<i>Unlikely: Event possible in next 10 years.</i>
<i>Seasonal Pattern:</i>	
<i>Spring and Summer</i>	
<i>List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected:</i>	
<ul style="list-style-type: none"> <li>• <i>National Weather Service Statistics</i></li> <li>• <i>30 to 40 minutes</i></li> </ul>	
<i>Warning Time (Potential Speed of Onset):</i>	
<i>X</i>	<i>Minimal (or no) warning.</i>
<input type="checkbox"/>	<i>3 to 6 hours warning.</i>
<input type="checkbox"/>	<i>6 to 12 hours warning.</i>
<input type="checkbox"/>	<i>More than 12 hours warning.</i>
<i>Cascading Potential:</i>	
<ul style="list-style-type: none"> <li>• <i>Loss of the following: critical and special facilities, homes, electric, drinking water, phone and shelters.</i></li> </ul>	
<i>Existing Warning Systems:</i>	
<ul style="list-style-type: none"> <li>• <i>Radio and T.V.</i></li> <li>• <i>National Weather Service NOAA Weather Radio</i></li> </ul>	
<i>Vulnerable Structures Affected by Tornadoes:</i>	
<i>Critical Facility:</i>	<i>Location:</i>



<i>Archer City V.F.D.</i>	<i>215 E Walnut</i>
<i>Archer City City Hall</i>	<i>118 S. Sycamore</i>
<i>Archer City Police Department</i>	<i>206 E Walnut</i>
<i>Archer County Sheriff Department</i>	<i>102 S Sycamore</i>
<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

<b>Potential Severity Of Impact:</b>	
<i>Substantial</i>	<ul style="list-style-type: none"> <li>• <i>Multiple deaths</i></li> <li>• <i>Complete shutdown of facilities for 30 days or more.</i></li> <li>• <i>More than 50 percent of property destroyed or with major damage.</i></li> </ul>
<i>Major X</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses result in permanent disability.</i></li> <li>• <i>Complete shutdown of critical facilities for at least 2 weeks.</i></li> <li>• <i>More than 25 percent of property destroyed or with major damage.</i></li> </ul>
<i>Minor</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses do not result in permanent disability.</i></li> <li>• <i>Complete shutdown of critical facilities for more than 1 week.</i></li> <li>• <i>More than 10 percent of property destroyed or with major damage.</i></li> </ul>
<i>Limited</i>	<ul style="list-style-type: none"> <li>• <i>Injuries and/or illnesses are treatable with first aid.</i></li> <li>• <i>Minor quality of life lost.</i></li> <li>• <i>Shutdown of critical facilities and services for 24 hours or less.</i></li> <li>• <i>Less than 10 percent of property destroyed or with major damage.</i></li> </ul>
<b>Probability of Occurrence:</b>	
<p><input checked="" type="checkbox"/> <i>Highly likely: Event probable in next year.</i></p> <p><input type="checkbox"/> <i>Likely: Event probable in next 3 years.</i></p> <p><input type="checkbox"/> <i>Occasional: Event possible in next 5 years.</i></p> <p><input type="checkbox"/> <i>Unlikely: Event possible in next 10 years.</i></p>	<b>Seasonal Pattern:</b>
	<i>Spring thru Summer</i>
	<i>Summer thru Winter</i>
<i>List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected:</i>	
<ul style="list-style-type: none"> <li>• <i>Texas Forest Service</i></li> </ul>	
<i>Probable Duration:</i>	
<ul style="list-style-type: none"> <li>• <i>24 hours to 168</i></li> </ul>	
<b>Warning Time (Potential Speed of Onset):</b>	
<p><input checked="" type="checkbox"/> <i>Minimal (or no) warning.</i></p> <p><input type="checkbox"/> <i>3 to 6 hours warning.</i></p> <p><input type="checkbox"/> <i>6 to 12 hours warning.</i></p> <p><input type="checkbox"/> <i>More than 12 hours warning.</i></p>	
<i>Cascading Potential:</i>	
<ul style="list-style-type: none"> <li>• <i>Loss of the following: crops, fences, structures, vehicles, equipment, cattle, horses, wildlife, human life.</i></li> </ul>	
<i>Existing Warning Systems:</i>	
<ul style="list-style-type: none"> <li>• <i>Texas Forest Service</i></li> <li>• <i>Burn Ban</i></li> </ul>	
<b>Vulnerable Structures Affected by Wildfire:</b>	
<i>Critical Facility:</i>	<i>Location:</i>
<i>Archer City V.F.D.</i>	<i>215 E Walnut</i>
<i>Archer City City Hall</i>	<i>118 S. Sycamore</i>
<i>Archer City Police Department</i>	<i>206 E Walnut</i>
<i>Archer County Sheriff Department</i>	<i>102 S Sycamore</i>

<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

DRAFT

Drought – Archer County

<b>Potential Severity Of Impact:</b>	
<i>Substantial</i>	<ul style="list-style-type: none"> <li>• Multiple deaths</li> <li>• Complete shutdown of facilities for 30 days or more.</li> <li>• More than 50 percent of property destroyed or with major damage.</li> </ul>
<i>Major</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses result in permanent disability.</li> <li>• Complete shutdown of critical facilities for at least 2 weeks.</li> <li>• More than 25 percent of property destroyed or with major damage.</li> </ul>
<i>Minor</i> X	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses do not result in permanent disability.</li> <li>• Complete shutdown of critical facilities for more than 1 week.</li> <li>• More than 10 percent of property destroyed or with major damage.</li> </ul>
<i>Limited</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses are treatable with first aid.</li> <li>• Minor quality of life lost.</li> <li>• Shutdown of critical facilities and services for 24 hours or less.</li> <li>• Less than 10 percent of property destroyed or with major damage.</li> </ul>
<b>Probability of Occurrence:</b>	
<input type="checkbox"/> <i>Highly likely: Event probable in next year.</i> X <i>Likely: Event probable in next 3 years.</i> <input type="checkbox"/> <i>Occasional: Event possible in next 5 years.</i> <input type="checkbox"/> <i>Unlikely: Event possible in next 10 years.</i>	<i>Seasonal Pattern:</i> Spring thru Autumn
<i>List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected:</i>	
<ul style="list-style-type: none"> <li>• US Drought Monitor</li> <li>• Palmer Index</li> </ul>	
<i>Probable Duration:</i>	
<ul style="list-style-type: none"> <li>• 8 months to 6 years.</li> </ul>	
<b>Warning Time (Potential Speed of Onset):</b>	
<input type="checkbox"/> <i>Minimal (or no) warning.</i> <input type="checkbox"/> <i>3 to 6 hours warning.</i> <input type="checkbox"/> <i>6 to 12 hours warning.</i> X <i>More than 12 hours warning.</i>	
<i>Cascading Potential:</i>	
<ul style="list-style-type: none"> <li>• Loss of agriculture, loss of grazing for livestock, water rationing.</li> </ul>	
<i>Existing Warning Systems:</i>	
<ul style="list-style-type: none"> <li>• National Weather Service</li> <li>• NOAA Weather Radio</li> </ul>	
<b>Vulnerable Structures Affected by Drought:</b>	
<i>Critical Facility:</i>	<i>Location:</i>

<i>Archer City V.F.D.</i>	<i>215 E Walnut</i>
<i>Archer City City Hall</i>	<i>118 S. Sycamore</i>
<i>Archer City Police Department</i>	<i>206 E Walnut</i>
<i>Archer County Sheriff Department</i>	<i>102 S Sycamore</i>
<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

Extreme Heat – Archer County

<b>Potential Severity Of Impact:</b>	
<i>Substantial</i>	<ul style="list-style-type: none"> <li>• Multiple deaths</li> <li>• Complete shutdown of facilities for 30 days or more.</li> <li>• More than 50 percent of property destroyed or with major damage.</li> </ul>
<i>Major X</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses result in permanent disability.</li> <li>• Complete shutdown of critical facilities for at least 2 weeks.</li> <li>• More than 25 percent of property destroyed or with major damage.</li> </ul>
<i>Minor</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses do not result in permanent disability.</li> <li>• Complete shutdown of critical facilities for more than 1 week.</li> <li>• More than 10 percent of property destroyed or with major damage.</li> </ul>
<i>Limited</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses are treatable with first aid.</li> <li>• Minor quality of life lost.</li> <li>• Shutdown of critical facilities and services for 24 hours or less.</li> <li>• Less than 10 percent of property destroyed or with major damage.</li> </ul>
<b>Probability of Occurrence:</b>	
<p>X Highly likely: Event probable in next year.</p> <p><input type="checkbox"/> Likely: Event probable in next 3 years.</p> <p><input type="checkbox"/> Occasional: Event possible in next 5 years.</p> <p><input type="checkbox"/> Unlikely: Event possible in next 10 years.</p>	<b>Seasonal Pattern:</b>
Summer	
<b>List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected:</b>	
<ul style="list-style-type: none"> <li>• National Weather Service</li> </ul>	
<b>Probable Duration:</b>	
<ul style="list-style-type: none"> <li>• June, July, August (3 months)</li> </ul>	
<b>Warning Time (Potential Speed of Onset):</b>	
<p><input type="checkbox"/> Minimal (or no) warning.</p> <p><input type="checkbox"/> 3 to 6 hours warning.</p> <p><input type="checkbox"/> 6 to 12 hours warning.</p> <p>X More than 12 hours warning.</p>	
<b>Cascading Potential:</b>	
<ul style="list-style-type: none"> <li>• Loss of crops, air conditioning failure, loss of human lives.</li> </ul>	
<b>Existing Warning Systems:</b>	
<ul style="list-style-type: none"> <li>• National Weather Service</li> <li>• Radio and T.V.</li> <li>• NOAA Weather Radio</li> </ul>	
<b>Vulnerable Structures Affected by Extreme Heat:</b>	
<b>Critical Facility:</b>	<b>Location:</b>

<i>Archer City V.F.D.</i>	<i>215 E Walnut</i>
<i>Archer City City Hall</i>	<i>118 S. Sycamore</i>
<i>Archer City Police Department</i>	<i>206 E Walnut</i>
<i>Archer County Sheriff Department</i>	<i>102 S Sycamore</i>
<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

<b>Potential Severity Of Impact:</b>	
<i>Substantial</i>	<ul style="list-style-type: none"> <li>• Multiple deaths</li> <li>• Complete shutdown of facilities for 30 days or more.</li> <li>• More than 50 percent of property destroyed or with major damage.</li> </ul>
<i>Major</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses result in permanent disability.</li> <li>• Complete shutdown of critical facilities for at least 2 weeks.</li> <li>• More than 25 percent of property destroyed or with major damage.</li> </ul>
<i>Minor X</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses do not result in permanent disability.</li> <li>• Complete shutdown of critical facilities for more than 1 week.</li> <li>• More than 10 percent of property destroyed or with major damage.</li> </ul>
<i>Limited</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses are treatable with first aid.</li> <li>• Minor quality of life lost.</li> <li>• Shutdown of critical facilities and services for 24 hours or less.</li> <li>• Less than 10 percent of property destroyed or with major damage.</li> </ul>
<b>Probability of Occurrence:</b>	
<p><input checked="" type="checkbox"/> <i>Highly likely: Event probable in next year.</i></p> <p><input type="checkbox"/> <i>Likely: Event probable in next 3 years.</i></p> <p><input type="checkbox"/> <i>Occasional: Event possible in next 5 years.</i></p> <p><input type="checkbox"/> <i>Unlikely: Event possible in next 10 years.</i></p>	<b>Seasonal Pattern:</b>
<p><i>Spring thru Fall April thru September</i></p>	
<b>List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected:</b>	
<ul style="list-style-type: none"> <li>• National Weather Service</li> </ul>	
<b>Probable Duration:</b>	
<ul style="list-style-type: none"> <li>• 2 to 30 minutes</li> </ul>	
<b>Warning Time (Potential Speed of Onset):</b>	
<p><input type="checkbox"/> <i>Minimal (or no) warning.</i></p> <p><input checked="" type="checkbox"/> <i>3 to 6 hours warning.</i></p> <p><input type="checkbox"/> <i>6 to 12 hours warning.</i></p> <p><input type="checkbox"/> <i>More than 12 hours warning.</i></p>	
<b>Cascading Potential:</b>	
<ul style="list-style-type: none"> <li>• Loss of crops, property damage, loss of communications, destroy roofs</li> </ul>	
<b>Existing Warning Systems:</b>	
<ul style="list-style-type: none"> <li>• National Weather Service</li> <li>• Radio and T.V.</li> <li>• NOAA Weather Radio</li> </ul>	
<b>Vulnerable Structures Affected by Hail:</b>	
<b>Critical Facility:</b>	<b>Location:</b>
Archer City V.F.D.	215 E Walnut
Archer City City Hall	118 S. Sycamore
Archer City Police Department	206 E Walnut
Archer County Sheriff Department	102 S Sycamore



<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

Winter Storms – Archer County

<b>Potential Severity Of Impact:</b>	
<i>Substantial</i>	<ul style="list-style-type: none"> <li>• Multiple deaths</li> <li>• Complete shutdown of facilities for 30 days or more.</li> <li>• More than 50 percent of property destroyed or with major damage.</li> </ul>
<i>Major</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses result in permanent disability.</li> <li>• Complete shutdown of critical facilities for at least 2 weeks.</li> <li>• More than 25 percent of property destroyed or with major damage.</li> </ul>
<i>Minor</i> X	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses do not result in permanent disability.</li> <li>• Complete shutdown of critical facilities for more than 1 week.</li> <li>• More than 10 percent of property destroyed or with major damage.</li> </ul>
<i>Limited</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses are treatable with first aid.</li> <li>• Minor quality of life lost.</li> <li>• Shutdown of critical facilities and services for 24 hours or less.</li> <li>• Less than 10 percent of property destroyed or with major damage.</li> </ul>
<b>Probability of Occurrence:</b>	
<input type="checkbox"/> Highly likely: Event probable in next year. X Likely: Event probable in next 3 years. <input type="checkbox"/> Occasional: Event possible in next 5 years. <input type="checkbox"/> Unlikely: Event possible in next 10 years.	<b>Seasonal Pattern:</b> Winter November thru April
List Source Documents, Studies, Maps, Etc, That Identify Areas Potentially Affected: <ul style="list-style-type: none"> <li>• National Weather Service</li> </ul>	
Probable Duration: <ul style="list-style-type: none"> <li>• A few hours, up to several days.</li> </ul>	
<b>Warning Time (Potential Speed of Onset):</b>	
<input type="checkbox"/> Minimal (or no) warning. <input type="checkbox"/> 3 to 6 hours warning. <input type="checkbox"/> 6 to 12 hours warning. X More than 12 hours warning.	
Cascading Potential: <ul style="list-style-type: none"> <li>• Freezing temperatures, frozen water pipes, impairing visibility, electric failures, unsafe road conditions, loss of communication</li> </ul>	
Existing Warning Systems: <ul style="list-style-type: none"> <li>• National Weather Service</li> <li>• Radio and T.V.</li> <li>• NOAA Weather Radio</li> </ul>	
<b>Vulnerable Structures Affected by Winter Storms:</b>	
<b>Critical Facility:</b>	<b>Location:</b>

<i>Archer City V.F.D.</i>	<i>215 E Walnut</i>
<i>Archer City City Hall</i>	<i>118 S. Sycamore</i>
<i>Archer City Police Department</i>	<i>206 E Walnut</i>
<i>Archer County Sheriff Department</i>	<i>102 S Sycamore</i>
<i>Holliday City Hall</i>	<i>110 W Olive</i>
<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

<b>Potential Severity Of Impact:</b>	
<i>Substantial</i>	<ul style="list-style-type: none"> <li>• Multiple deaths</li> <li>• Complete shutdown of facilities for 30 days or more.</li> <li>• More than 50 percent of property destroyed or with major damage.</li> </ul>
<i>Major</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses result in permanent disability.</li> <li>• Complete shutdown of critical facilities for at least 2 weeks.</li> <li>• More than 25 percent of property destroyed or with major damage.</li> </ul>
<i>Minor</i>	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses do not result in permanent disability.</li> <li>• Complete shutdown of critical facilities for more than 1 week.</li> <li>• More than 10 percent of property destroyed or with major damage.</li> </ul>
<i>Limited</i> X	<ul style="list-style-type: none"> <li>• Injuries and/or illnesses are treatable with first aid.</li> <li>• Minor quality of life lost.</li> <li>• Shutdown of critical facilities and services for 24 hours or less.</li> <li>• Less than 10 percent of property destroyed or with major damage.</li> </ul>
<b>Probability of Occurrence:</b>	
<input type="checkbox"/> <i>Highly likely: Event probable in next year.</i> <input type="checkbox"/> <i>Likely: Event probable in next 3 years.</i> <input type="checkbox"/> <i>Occasional: Event possible in next 5 years.</i> <input checked="" type="checkbox"/> <i>Unlikely: Event possible in next 10 years.</i>	
<b>Seasonal Pattern:</b>	
None	
List source documents, studies, maps, etc, that identify areas potentially affected: <ul style="list-style-type: none"> <li>• NATIONALATLAS.GOV</li> </ul>	
Probable Duration: <ul style="list-style-type: none"> <li>• 2 hours to a week.</li> </ul>	
<b>Warning Time (Potential Speed of Onset):</b>	
<input checked="" type="checkbox"/> <i>Minimal (or no) warning.</i> <input type="checkbox"/> <i>3 to 6 hours warning.</i> <input type="checkbox"/> <i>6 to 12 hours warning.</i> <input type="checkbox"/> <i>More than 12 hours warning.</i>	
Cascading Potential: <ul style="list-style-type: none"> <li>• Loss of life, loss of property and economy, and utilities</li> </ul>	
Existing Warning Systems: <ul style="list-style-type: none"> <li>• None</li> </ul>	
<b>Vulnerable Structures Affected by Dam Failure:</b>	
Critical Facility:	Location:
Archer City V.F.D.	215 E Walnut
Archer City City Hall	118 S. Sycamore
Archer City Police Department	206 E Walnut
Archer County Sheriff Department	102 S Sycamore
Holliday City Hall	110 W Olive

<i>Holliday Police Department</i>	<i>110 W Olive</i>
<i>Holliday V.F.D.</i>	<i>400 S Main</i>
<i>Lake Kickapoo VFD</i>	<i>12442 S FM 368</i>
<i>Lakeside City City Hall</i>	<i>47 Donna St.</i>
<i>Lakeside City V.F.D.</i>	<i>49 Donna St</i>
<i>Megargel City Hall</i>	<i>902 Cedar St</i>
<i>Megargel V.F.D.</i>	<i>902 Cedar St</i>
<i>Scotland City Hall</i>	<i>727 Ave L</i>
<i>Scotland V.F.D.</i>	<i>379 Ave J</i>
<i>Comments/Discussion:</i>	

***What is affected by the Identified Hazards?***

*An inventory was taken of special and critical facilities for Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst. These are key facilities that the city needs in order to sustain itself during a disaster. Critical facilities are the following: fire, rescue, police, communication, hospitals and direction and control facilities. Special facilities are the following: schools, nursing homes, health care facilities, prisons, and jails, unique historical or other cultural resources. These facilities are also more at risk in a disaster due to special populations and confidential information, therefore they are more vulnerable. Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst also identified businesses that are important for economic survival to the local economies. Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst planners provide the following data in order to better determine the potential impact a particular hazard may have on critical and special facilities. Infrastructure, demographic, and development data receive examination throughout this section.*

*History of Infrastructure Damage by Hazard Agent*

*Floods*

**Floods**

**25 Flood Events were reported in Archer County and the City of Archer City, City of Holliday, City of Lakeside City, City of Megargel, City of Scotland, City of Windthorst between 01/01/1950 and 12/31/2008**

<i>Location or County</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Magnitude</i>	<i>Death</i>	<i>Injuries</i>	<i>Property Damage</i>	<i>Crop Damage</i>	<i>Description of Weather Event</i>
<a href="#">1. Archer</a>	05/08/1993	1830	Flash Flood	N/A	0	0	50k	0	
<a href="#">2. Archer</a>	05/25/1995	1320	Flash Flood	N/A	0	0	0	0	Severe thunderstorms produced hail as large as nickels in eastern Henrietta in Clay County, and resulted in flash flooding as several inches of water flowed across some roads in Holliday in Archer County.
<a href="#">3. Windthorst</a>	07/04/1995	2150	Flash Flood	N/A	0	0	0	0	Severe thunderstorms produced hail as large as quarters 11 miles south of Windthorst in Archer County and in Shannon in Clay County. After thunderstorms persisted in the same area for several hours, flash flooding became a problem. Water six inches deep covered roads in Shannon in Clay County. In Archer County, one foot of water covered SH 16 11 miles south of Windthorst.
<a href="#">4. Dundee</a>	08/03/1995	1230	Flash Flood	N/A	0	0	0	0	In Wichita County water covered SH 25 two miles north of Kadane Corner, and in Archer County water covered a county road six miles south of Dundee.
<a href="#">5. Archer City</a>	05/08/1997	2050	Flash Flood	N/A	0	0	0	0	Highway 79 was closed due to high water. Summary of events of May 8, 1997: Severe thunderstorms moved repeatedly over western parts of north Texas

*during the late afternoon and through the evening of the 8th. During the daylight hours, the storms produced numerous reports of large hail and strong and damaging winds. Two tornadoes were also reported. By the end of the evening, a widespread flash-flood event had evolved, affecting most or all of 5 counties in the area. The first tornado was reported west of Bluegrove (on the south side of Lake Arrowhead) in Clay County, and the second tornado, probably a gustnado, occurred south of Deer Creek (also in Clay County). Minor damage was reported with each tornado and both were rated F0. The largest hail also fell near Lake Arrowhead, where baseball-sized hail fell for about 10 minutes. The strongest measured wind speeds reached 76 mph at the Wichita Falls Municipal Airport in Wichita County. Widespread and severe wind damage occurred in Harrold in Wilbarger County and in Iowa Park in Wichita County. Other more minor damage was reported east of Red Springs in Baylor County, in Oklaunion in Wilbarger County, in Archer City in Archer County, and south of Deer Creek in Clay County. Most of Clay and*

									<p>Archer Counties were affected by flash flooding. Portions of Wichita Falls in Wichita County also suffered from major flash flooding, including flooding of homes. More isolated incidents of flash flooding occurred near Benjamin in Knox County and near Seymour in Baylor County. See preceding individual Storm Data entries for further details and additional reports.</p>
<a href="#">6. Archer</a>	05/08/1997	2230	Flash Flood	N/A	0	0	0	0	<p>Highway 79 was closed due to high water. Summary of events of May 8, 1997: Severe thunderstorms moved repeatedly over western parts of north Texas during the late afternoon and through the evening of the 8th. During the daylight hours, the storms produced numerous reports of large hail and strong and damaging winds. Two tornadoes were also reported. By the end of the evening, a widespread flash-flood event had evolved, affecting most or all of 5 counties in the area. The first tornado was reported west of Bluegrove (on the south side of Lake Arrowhead) in Clay County, and the second tornado, probably a gustnado, occurred south of Deer Creek (also in Clay County). Minor damage was reported with each tornado and</p>



									<p>both were rated F0. The largest hail also fell near Lake Arrowhead, where baseball-sized hail fell for about 10 minutes. The strongest measured wind speeds reached 76 mph at the Wichita Falls Municipal Airport in Wichita County.</p> <p>Widespread and severe wind damage occurred in Harrold in Wilbarger County and in Iowa Park in Wichita County. Other more minor damage was reported east of Red Springs in Baylor County, in Oklaunion in Wilbarger County, in Archer City in Archer County, and south of Deer Creek in Clay County. Most of Clay and Archer Counties were affected by flash flooding. Portions of Wichita Falls in Wichita County also suffered from major flash flooding, including flooding of homes. More isolated incidents of flash flooding occurred near Benjamin in Knox County and near Seymour in Baylor County. See preceding individual Storm Data entries for further details and additional reports.</p>
<a href="#">7. Archer</a>	07/28/2004	0500	Flood	N/A	0	0	0	0	<p>The most significant heavy rainfall and flooding event of the month occurred on July 27-30. During this period a strong, slow-moving upper level system moved through Texas, producing multiple rounds</p>

*of thunderstorms along and near a quasi-stationary front in north Texas and southern Oklahoma during the two-day period on July 27-29. Rainfall totals for the 48-hour period ending at 6:00 am CST on July 29 reached 2 to 4+ inches in a wide swath that included most of western north Texas and south central Oklahoma. The hardest hit areas included the Brazos River basin in Knox and Baylor counties, and parts of the Wichita and Little Wichita River basins in Knox, Baylor, Archer, and Clay counties. Storm total precipitation amounts of 4.5 to 7+ inches were observed in the southern halves of these three Texas counties, and some rainfall totals up to 10 inches were reported. Some of the highest totals measured included: Westover, TX - 9.15 inches; Goree, TX - 8.50 inches; Red Springs 1E, TX - 8.3 inches; Scotland, TX - 8.12 inches; Benjamin 4W, TX - 7.79 inches; Seymour, TX - 7.50 inches; Millers Creek Reservoir - 7.12 inches; Archer City, TX (coop site) - 6.62 inches; and Knox City - 6.0 inches. Unofficial storm total amounts of 10 inches were reported in the Archer City and Bomarton, TX areas. The*

subsequent heavy runoff produced by these rains generated flash flooding and riverine flooding in western north Texas and flash flooding in south central Oklahoma. Minor to moderate rural flooding occurred along the Brazos River in Knox and Baylor counties on July 28-30 after the Brazos River basin received rainfall amounts of 2 to 3+ inches. The Brazos River at Seymour, TX crested at 14.9 feet, 2.9 feet above flood stage, at 10:30 pm CST on July 29, and remained above flood stage from 12:00 pm CST July 28 to 12:00 am CST on July 30. Moderate to major rural flooding occurred along the South Wichita River in Knox County near Benjamin, TX on July 28-29. The South Wichita River crested at 16.8 feet, 4.8 feet above flood stage, at 11:45 am CST on July 28, and remained above flood stage from 5:00 am CST on July 28 to 9:00 am CST on July 29. This flood crest was the third highest crest of record at the USGS gage site. Further downstream below the confluence of the South Wichita River with the Wichita River, moderate to major rural flooding occurred along the Wichita River in Baylor County near Seymour, TX and just

upstream of Lake Kemp on July 28-29. The Wichita River crested at 16.84 feet (flood stage unknown) at 11:45 am CST on July 28. This flood crest was the fifth highest crest of record at the USGS gage site. The heavy runoff from the Wichita and South Wichita Rivers was beneficial for the Wichita Falls area as the reservoir levels at Lake Kemp rose several feet. The Little Wichita River basin in Archer and Clay counties also saw significant rises during late July. The reservoir levels increased at both Lake Kickapoo and Lake Arrowhead. Moderate to major flooding occurred along the Little Wichita River in Archer County between Lake Kickapoo and Lake Arrowhead near Archer City, TX on July 28-30. The Wichita River crested at 25.21 feet (flood stage unknown) at 2:00 pm CST on July 29. This flood crest was the tenth highest crest of record at the USGS gage site. Minor rural flooding occurred along the Little Wichita River in Clay County near Henrietta, TX on July 29. The Little Wichita River crested at 18.5 feet, 1.5 feet above flood stage, at 2:30 am CST on July 29, and remained above flood stage from 6:00 pm CST

on July 28 to 3:00 pm  
CST on July 29.  
Numerous highways and  
roads in Knox, Baylor,  
Archer and Clay counties  
were closed by  
floodwaters during the  
event, and a list of some  
of these roads/locations  
by county follows: Knox  
County U.S. Highway 82  
(just west of Benjamin,  
TX) U.S. Highway 277  
(just east of Goree, TX)  
Texas State Highway 222  
(1 mile west of Knox City,  
TX) Texas State Highway  
6 (5 miles north of Knox  
City, TX) Baylor County  
U.S. Highway 82 (1, 3,  
and 7 miles west of  
Seymour, TX) U.S.  
Highway 183/283 (5 miles  
south of Seymour, TX)  
U.S. Highway 277 (west  
of Dundee, TX) Farm-to-  
Market Road 1152 (2-3  
miles southwest of  
Bomarton, TX) Farm-to-  
Market Road 2070 (4  
miles north of Bomarton,  
TX) Texas State Highway  
114 (several location  
between Seymour and  
Westover, TX) Archer  
County Texas State  
Highway 79 (4 miles  
south of Archer City, TX)  
Texas State Highway 25  
(northwest and east of  
Archer City, TX) Texas  
State Highway 174 (near  
Windthorst, TX) Farm-to-  
Market Road 210 (west of  
Archer City, TX) Farm-to-  
Market Road 2178 (10  
miles southwest of Archer  
City, TX) Farm-to-Market

									<p>Road 2581 (5 miles southeast of Archer City, TX) U.S. Highway 281 (near Scotland, TX) Farm-to-Market Road 172 (near Scotland, TX) Clay County Texas State Highway 79 (near Byers, TX) Farm-to-Market Road 171 (near Byers, TX) Farm-to-Market Road 172 (between Bluegrove and Lake Arrowhead, TX)</p>
<a href="#">8. Holliday</a>	08/14/2005	1500	Flash Flood	N/A	0	0	0	0	<p>At 3:00 pm CST, a county law enforcement official reported that floodwaters from Holliday Creek had covered Texas Farm Road 368 at the intersection with Gose City Road, 5 miles south of Holliday TX. Numerous thunderstorms and showers moved over western north Texas during the morning hours of August 14, and dropped rainfall totals of 2.5 to 5 inches. Heavy runoff from these storms generated flash flooding during the early afternoon hours of August 14. The heavy runoff also caused river flooding in portions of western north Texas.</p>
<a href="#">9. Archer</a>	08/16/2005	0130	Flood	N/A	0	0	0	0	<p>Minor to moderate rural flooding occurred along the Brazos River and its tributaries in Knox and Baylor counties on August 16-18. The Brazos River at Seymour, TX crested at approximately 18.6 feet, 6.6 feet above flood stage, at 11:00 am CST</p>

on August 17, and remained above flood stage from 7:00 am CST on August 16 to 12:00 am CST on August 19. Millers Creek, a tributary to the Brazos River that runs northward into southern Baylor, also saw heavy rainfall. Rainfall totals of 7 to 10+ inches fell over the headwaters of Millers Creek which is upstream of the Millers Creek Reservoir that straddles the Throckmorton/Baylor county line. Major inflows into Millers Creek Reservoir caused the lake elevation to rise above the conservation pool elevation and eventually the emergency spillway elevation. Millers Creek Reservoir crested at a record elevation of 1342.52 feet MSL at 12:00 pm CST on August 18. The flood flows from Millers Creek eventually traveled into the Brazos River, and exacerbated flooding on the Brazos River in extreme southern Baylor County, and at points further downstream. A second round of flooding also occurred along the South Wichita and Wichita Rivers on August 16-17 (first round Aug. 14-15). Minor rural flooding occurred again along these rivers. The South Wichita River in Knox County near Benjamin,

*TX had a second flood crest of 14.5 feet which occurred at 1:00 pm CST on August 16, and remained above flood stage from 1:30 am CST to 9:45 pm CST on August 16. The Wichita River in Baylor county near Seymour, TX and just upstream of Lake Kemp had a second, higher crest of 16.5 feet which occurred at 5 pm CST on August 16. The river remained above flood stage from 9:00 am CST on August 16 to 9:00 am CST August 17. The heavy runoff from the Wichita and South Wichita Rivers was beneficial for the Wichita Falls area as the reservoir levels at Lake Kemp rose to within a foot of the conservation pool level. The Little Wichita River basin in Archer and Clay counties also saw significant rises during mid August. The reservoir levels increased at both Lake Kickapoo and Lake Arrowhead. Moderate to major flooding occurred along the Little Wichita River in Archer County between Lake Kickapoo and Lake Arrowhead near Archer City, TX on August 16-19. The Wichita River crested at 25.37 feet (flood stage unknown) at 7:00 am CST on August 17. This flood crest was the tenth highest crest of record at*



									<p><i>the USGS gage site. The flooding occurred from 6:00 pm CST on August 16 to 12:00 pm CST on August 19. Moderate to major rural flooding also occurred along the Little Wichita River in Clay County near Henrietta, TX on August 16-20. The Little Wichita River crested at 23.5 feet, 6.5 feet above flood stage, at 8:30 pm CST on August 18, and remained above flood stage from 11:00 am CST on August 16 to 3:30 am CST on August 20. Some secondary roads and agricultural lands near the river were inundated during this period. Another round of numerous thunderstorms and showers moved over western north Texas during the morning hours of August 16, and dropped rainfall totals of 2.5 to 6 inches. Heavy runoff from these storms generated flash flooding through the mid afternoon hours of August 16 and river flooding of several rivers in the area.</i></p>
<a href="#">10. Megargel</a>	08/16/2005	0640	Flash Flood	N/A	0	0	5k	0	<p>At 6:42 am CST, a local law enforcement official reported that a car was stalled in high water on Texas State Highway 114, one mile southeast of Megargel. Another round of numerous thunderstorms and showers moved over western north Texas during the morning hours</p>

									of August 16, and dropped rainfall totals of 2.5 to 6 inches. Heavy runoff from these storms generated flash flooding through the mid afternoon hours of August 16 and river flooding of several rivers in the area.
<a href="#">11. Archer City</a>	08/16/2005	0910	Flash Flood	N/A	0	0	0	0	At 9:10 am CST and 10:30 am CST, the Texas Department of Transportation reported that Texas State Highway 210 was closed due to floodwaters from the Middle Fork of the Little Wichita River, 9 miles west of Archer City, and the South Fork of the Little River, 2 miles west of Archer City. Another round of numerous thunderstorms and showers moved over western north Texas during the morning hours of August 16, and dropped rainfall totals of 2.5 to 6 inches. Heavy runoff from these storms generated flash flooding through the mid afternoon hours of August 16 and river flooding of several rivers in the area.
<a href="#">12 Archer City</a>	08/16/2005	1030	Flash Flood	N/A	0	0	0	0	At 10:30 am CST, the Texas Department of Transportation reported that Texas State Highway 422 was closed due to floodwaters along Briar Creek and Kickapoo Creek 14 miles west of Archer City. Another round of numerous thunderstorms and

									showers moved over western north Texas during the morning hours of August 16, and dropped rainfall totals of 2.5 to 6 inches. Heavy runoff from these storms generated flash flooding through the mid afternoon hours of August 16 and river flooding of several rivers in the area.
<a href="#">13. Holliday</a>	08/16/2005	1030	Flash Flood	N/A	0	0	0	0	At 10:30 am CST, the Texas Department of Transportation reported that Texas Farm Road 368 was closed due to floodwaters along Panther Creek, 4 miles south of Holliday, TX. Another round of numerous thunderstorms and showers moved over western north Texas during the morning hours of August 16, and dropped rainfall totals of 2.5 to 6 inches. Heavy runoff from these storms generated flash flooding through the mid afternoon hours of August 16 and river flooding of several rivers in the area.
<a href="#">14. Archer</a>	10/06/2005	1130	Flood	N/A	0	0	0	0	Thunderstorms and showers produced rainfall totals of 2 to 4 inches over parts of western north Texas during the evening of October 5 and morning of October 6 and produced minor to moderate flooding along the Little Wichita River in Archer and Clay counties. The USGS river gage site recorded a crest of 23.9

									<p>feet, 1.9 feet above flood stage around 1:00 am CST on October 8, and the river remained at flood stage from 11:30 am CST on October 6 to 2:30 am CST on October 9. Further downstream on the Little Wichita River and just downstream of Lake Arrowhead, the USGS river gage site near Henrietta, TX also recorded a crest above flood stage on October 8. The Little Wichita River near Henrietta crested at 20.5 feet, 2.5 feet above flood stage, at 3:00 pm CST on October 8, and remained above flood stage from 12:30 pm CST to 9:30 pm CST on October 8. Only minor lowland flooding occurred along the Little Wichita River in Archer and Clay counties during this event, and beneficial inflows into Lake Arrowhead helped raise lake elevations and conservation storage in the reservoir.</p>
<a href="#">15. Archer City</a>	05/27/2007	1700	Flash Flood	N/A	0	0	0	0	<p><b>EVENT NARRATIVE:</b> Hwy 79 was closed when six inches of water was running over the pavement. <b>EPISODE NARRATIVE:</b> Widespread showers and thunderstorms developed over northern Texas during the morning and afternoon hours of the 27th. Very heavy rainfall caused some roads to be</p>

										closed due to high water.
<a href="#">16. Archer City</a>	06/26/2007	0930	Flash Flood	N/A	0	0	0	0	0	EVENT NARRATIVE: St. HWY 79 closed due to high water. EPISODE NARRATIVE: Waves of intense showers and thunderstorms continued to move north through northern Texas. The heavy rainfall and already saturated ground helped cause more flash flooding through the morning and early afternoon hours. Monetary damages were estimated.
<a href="#">17. Lakeside City</a>	06/26/2007	0930	Flash Flood	N/A	0	0	0	0	0	EVENT NARRATIVE: St. HWY 79 at FM 2224 was closed due to high water. EPISODE NARRATIVE: Waves of intense showers and thunderstorms continued to move north through northern Texas. The heavy rainfall and already saturated ground helped cause more flash flooding through the morning and early afternoon hours. Monetary damages were estimated.
<a href="#">18. Archer City</a>	06/26/2007	1136	Flood	N/A	0	0	0	0	0	EVENT NARRATIVE: HWY 79 was closed due to continued high water. EPISODE NARRATIVE: Waves of intense showers and thunderstorms continued to move north through northern Texas. The heavy rainfall and already saturated ground helped cause more flash flooding through the morning and

									early afternoon hours. Monetary damages were estimated.
<a href="#">19. Archer City</a>	06/26/2007	1210	Flood	N/A	0	0	0	0	EVENT NARRATIVE: HWY 79 was closed due to continued high water. EPISODE NARRATIVE: Waves of intense showers and thunderstorms continued to move north through northern Texas. The heavy rainfall and already saturated ground helped cause more flash flooding through the morning and early afternoon hours. Monetary damages were estimated.
<a href="#">20. Archer City</a>	06/26/2007	1347	Flood	N/A	0	0	10k	0	EVENT NARRATIVE: Two houses on Coleman Road were evacuated due to continued high water. Monetary damages were estimated. EPISODE NARRATIVE: Waves of intense showers and thunderstorms continued to move north through northern Texas. The heavy rainfall and already saturated ground helped cause more flash flooding through the morning and early afternoon hours. Monetary damages were estimated.
<a href="#">21. Archer City</a>	06/27/2007	0705	Flood	N/A	0	0	0	0	EVENT NARRATIVE: HWY 16 Cutoff was closed one mile south of HWY 281 due to high water. EPISODE NARRATIVE: Continuous rainfall from slow moving thunderstorms continued

										to plague much of north Texas. These thunderstorms aggravated the already saturated ground which made flooding easy.
<a href="#">22. Archer City</a>	06/27/2007	0705	Flood	N/A	0	0	0	0	0	EVENT NARRATIVE: HWY 368 was closed between HWY 25 and Holliday due to high water. EPISODE NARRATIVE: Continuous rainfall from slow moving thunderstorms continued to plague much of north Texas. These thunderstorms aggravated the already saturated ground which made flooding easy.
<a href="#">23. Holliday</a>	06/27/2007	0705	Flood	N/A	0	0	0	0	0	EVENT NARRATIVE: FM440 east out of Holliday was closed due to high water. EPISODE NARRATIVE: Continuous rainfall from slow moving thunderstorms continued to plague much of north Texas. These thunderstorms aggravated the already saturated ground which made flooding easy.
<a href="#">24. Holliday</a>	06/27/2007	0705	Flood	N/A	0	0	0	0	0	EVENT NARRATIVE: FM 2650 was closed near junction with RTE 1954 due to high water. EPISODE NARRATIVE: Continuous rainfall from slow moving thunderstorms continued to plague much of north Texas. These thunderstorms aggravated the already saturated ground which

									made flooding easy.
<a href="#">25. Archer City</a>	06/28/2007	1400	Flash Flood	N/A	0	0	0	0	EVENT NARRATIVE: The roadway that approaches City Lake at Archer City was flooded due to continued heavy rainfall. EPISODE NARRATIVE: Heavy rain continued over parts of northern Texas. Saturated grounds and the heavy rain combined for flooding problems over parts of Archer and Baylor county.
TOTALS:					0	0	65K	0	

Windstorms

Windstorms									
82 Thunderstorm and High Wind Events were reported in Archer County and the City of Archer City, City of Holliday, City of Lakeside City, City of Megargel, City of Scotland, City of Windthorst between 01/01/1950 and 06/30/2004									
Location or County	Date	Time	Type	Magnitude	Death	Injuries	Property Damage	Crop Damage	Description of Weather Event
<a href="#">1 ARCHER</a>	4/20/1957	2000	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">2 ARCHER</a>	5/27/1965	1645	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">3 ARCHER</a>	5/16/1968	930	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">4 ARCHER</a>	5/16/1968	2015	Tstm Wind	61 kts.	0	0	0	0	none reported
<a href="#">5 ARCHER</a>	4/19/1974	2245	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">6 ARCHER</a>	7/29/1974	1515	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">7 ARCHER</a>	5/20/1977	2200	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">8 ARCHER</a>	6/14/1978	1450	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">9 ARCHER</a>	6/19/1980	5	Tstm Wind	0 kts.	0	0	0	0	none reported



<a href="#">10 ARCHER</a>	6/2/1982	1730	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">11 ARCHER</a>	6/2/1982	1730	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">12 ARCHER</a>	6/2/1982	1750	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">13 ARCHER</a>	6/2/1982	1800	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">14 ARCHER</a>	5/22/1983	1913	Tstm Wind	61 kts.	0	0	0	0	none reported
<a href="#">15 ARCHER</a>	6/27/1983	1800	Tstm Wind	61 kts.	0	0	0	0	none reported
<a href="#">16 ARCHER</a>	4/21/1985	1845	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">17 ARCHER</a>	5/19/1985	2130	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">18 ARCHER</a>	5/4/1989	2005	Tstm Wind	0 kts.	0	0	0	0	none reported
<a href="#">19 ARCHER</a>	5/4/1989	2010	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">20 ARCHER</a>	4/9/1990	2030	Tstm Wind	0 kts.	0	12	0	0	none reported
<a href="#">21 ARCHER</a>	5/29/1990	1927	Tstm Wind	55 kts.	0	0	0	0	none reported
<a href="#">22 Windthorst</a>	5/8/1993	1445	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">23 Sweetwater</a>	5/17/1993	1830	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">24 Cherokee Lake</a>	11/20/1993	322	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">25 Windthorst</a>	8/7/1994	1505	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">26 Archer City</a>	8/14/1994	2015	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">27 Windthorst</a>	8/17/1994	1900	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">28 Nr Windthorst</a>	4/17/1995	1900	Thunderstorm Winds	N/A	0	0	5K	0	none reported
<a href="#">29 ARCHER</a>	5/23/1995	1745	Tstm Wind	2 kts.	0	0	50K	0	none reported
<a href="#">30 ARCHER</a>	5/23/1995	1815	Tstm Wind	1 kts.	0	0	0	0	none reported
<a href="#">31 Lake Kickapoo</a>	6/5/1995	1830	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">32 Holliday</a>	6/10/1995	730	Thunderstorm Winds	N/A	0	0	0	0	none reported
<a href="#">33 TXZ083&gt;090</a>	1/17/1996	10:00 PM	High Wind	41 kts.	0	0	5K	0	A strong cold front moved into North Texas the evening of January 17th, accompanied by sustained winds

										up to 37 mph with gusts as high as 41 mph in Wichita Falls. These strong gradient winds blew a tree onto a truck in Wichita Falls in Wichita County.
<a href="#">34 Archer City</a>	9/23/1996	6:25 PM	Tstm Wind	50 kts.	0	0	0	0	0	none reported
<a href="#">35 Archer City</a>	9/23/1996	8:30 PM	Tstm Wind	0 kts.	0	0	OK	0	0	none reported
<a href="#">36 Lakeside City</a>	11/16/1996	7:15 PM	Tstm Wind	52 kts.	0	0	0	0	0	none reported
<a href="#">37 Archer City</a>	5/8/1997	6:45 PM	Tstm Wind	0 kts.	0	0	1K	0	0	Power poles were blown down in Archer City. Summary of events of May 8, 1997: Severe thunderstorms moved repeatedly over western parts of north Texas during the late afternoon and through the evening of the 8th. During the daylight hours, the storms produced numerous reports of large hail and strong and damaging winds. Two tornadoes were also reported. By the end of the evening, a widespread flash-flood event had evolved, affecting most or all of 5 counties in the area. The largest hail also fell near Lake Arrowhead, where baseball-sized hail fell for about 10 minutes. Other more minor damage was reported east of Red Springs in Baylor County, in Oklaunion in Wilbarger County, in Archer

									City in Archer County, and south of Deer Creek in Clay County. Most of Clay and Archer Counties were affected by flash flooding.
<a href="#">38 Archer City</a>	5/8/1997	7:00 PM	Tstm Wind	0 kts.	0	0	0K	0	none reported
<a href="#">39 Scotland</a>	5/30/1997	3:40 AM	Tstm Wind	0 kts.	0	0	5K	0	A roof was blown off a two-story structure and one large tree was downed. Summary of events of May 30, 1997: Early morning thunderstorms moved across Clay, Archer, and Wichita Counties, producing hail as large as quarters, damaging thunderstorm winds, and flash flooding. The one-inch hail fell in Scotland in Archer County and in Bellevue in Clay County. Wind damage occurred in Wichita Falls in Wichita County and in Scotland (in Archer County). Isolated flash flooding was reported in Wichita County from Wichita Falls to Burkburnett and west-southwest of Joy in Clay County. See preceding individual Storm Data entries for further details and additional reports.
<a href="#">40 Mankins</a>	6/14/1997	9:20 PM	Tstm Wind	56 kts.	0	0	0	0	none reported
<a href="#">41 Archer City</a>	6/14/1997	9:50 PM	Tstm Wind	56 kts.	0	0	0	0	none reported
<a href="#">42 Mankins</a>	6/16/1997	8:30 PM	Tstm Wind	0 kts.	0	0	4K	0	Both radar signatures and this survey

									indicated that the two tornadoes were produced by the same storm. See individual Storm Data entries on these tornadoes for further details. While the tornadoes did produce significant structural damage, severe straight-line thunderstorm winds caused much more widespread damage across the region. Reports of structural damage came from Knox City in Knox County, Mankins in Archer County, Petrolia in Clay County, and Electra, Wichita Falls, and Burkburnett in Wichita County. Tree, limb, and power line damage was also reported in Quannah in Hardeman County, Vernon in Wilbarger County, Archer City in Archer County, and Henrietta in Clay County.
<a href="#">43 Archer City</a>	6/16/1997	9:00 PM	Tstm Wind	52 kts.	0	0	OK	0	none reported
<a href="#">44 Lakeside City</a>	8/17/1997	5:40 PM	Tstm Wind	56 kts.	0	0	0	0	none reported
<a href="#">45 Archer City</a>	3/30/1998	1:00 PM	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">46 Archer City</a>	5/8/1998	6:25 PM	Tstm Wind	0 kts.	0	0	11K	0	Severe thunderstorms affected western portions of north Texas during the afternoon of May 8th. Three to four walls of a building at Texas Compress and

										Warehouse Corporation in Seymour in Baylor County collapsed while in Archer City in Archer County severe thunderstorm winds destroyed an old barn and garage. Two cable television poles and a large tree were also blown down on the south side of Archer City.
<a href="#">47 Windthorst</a>	5/8/1998	6:45 PM	Tstm Wind	57 kts.	0	0	0	0		
<a href="#">48 Holliday</a>	6/9/1998	4:46 PM	Tstm Wind	78 kts.	0	0	0	0		
<a href="#">49 Windthorst</a>	6/19/1998	7:40 PM	Tstm Wind	0 kts.	0	0	1K	0		Thunderstorm winds uprooted trees and blew down power lines along Highway 281. Summary of events of June 19, 1998: Severe thunderstorms over Baylor County produced hail as large as golf balls. Severe thunderstorm wind damage was also reported in Windthorst in Archer County. See preceding individual Storm Data entries for further details and additional reports.
<a href="#">50 Megargel</a>	7/13/1998	7:03 PM	Tstm Wind	52 kts.	0	0	0	0		none reported
<a href="#">51 TXZ083&gt;090</a>	2/11/1999	7:00 AM	High Wind	0 kts.	0	0	0	0		none reported
<a href="#">52 TXZ083&gt;090</a>	3/2/1999	12:00 PM	High Wind	0 kts.	0	0	8K	0		North winds between 25 and 35 mph with gusts near 60 mph affected western north Texas during the afternoon of the 2nd. A roof at the Christ Gospel Church on 23rd St. in Wichita Falls was severely

										damaged. Large tree limbs and numerous power lines were also downed, resulting in scattered power outages.
<a href="#">53</a> <a href="#">TXZ083&gt;090</a>	3/8/1999	2:00 PM	High Wind	0 kts.	0	0	2K	0	0	West to northwest winds between 25 and 35 mph with gusts over 50 mph affected western portions of north Texas during the afternoon and early evening of the 8th. Siding was ripped off a building at the corner of Waggoner and Bryan in Electra.
<a href="#">54 Lake Kickapoo</a>	4/12/1999	11:15 PM	Tstm Wind	0 kts.	0	0	15K	0	0	West to northwest winds between 25 and 35 mph with gusts over 50 mph affected western portions of north Texas during the afternoon and early evening of the 8th. Siding was ripped off a building at the corner of Waggoner and Bryan in Electra.
<a href="#">55</a> <a href="#">TXZ083&gt;090</a>	4/14/1999	5:00 PM	High Wind	0 kts.	0	0	7K	0	0	Northwest winds between 40 and 50 mph with gusts over 60 mph affected much of western north Texas from the evening of the 14th through the early morning of the 15th. Two sheds were blown over, and large tree limbs were downed in Hardeman County. Minor roof damage was also reported in Hardeman County. In Archer County, a tree fell on a house in Archer City. Large tree limbs

									were downed in Knox County. Large tree limbs were also downed in Wilbarger County resulting in scattered power outages between 1900 CST and 2200 CST on the 14th.
<a href="#">56 Holliday</a>	6/6/1999	9:55 AM	Tstm Wind	64 kts.	0	0	0	0	none reported
<a href="#">57 Holliday</a>	3/7/2000	5:45 PM	Tstm Wind	0 kts.	0	0	3K	0	Five power poles were downed on Highway 1954. A long line of strong to severe thunderstorms moved out of the Texas panhandle into western portions of north Texas during the late afternoon and early evening of the 7th resulting in wind damage and large hail.
<a href="#">58 TXZ083&gt;090</a>	4/10/2001	9:00 PM	High Wind	35 kts.	0	0	0	0	none reported
<a href="#">59 Archer City</a>	5/27/2001	11:50 PM	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">60 TXZ083&gt;090</a>	4/2/2002	10:00 AM	Strong Winds	N/A	0	0	1K	0	none reported
<a href="#">61 Lake Kickapoo</a>	4/13/2002	8:43 AM	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">62 Archer City</a>	4/13/2002	9:05 AM	Tstm Wind	56 kts.	0	0	0	0	none reported
<a href="#">63 Holliday</a>	4/13/2002	9:30 AM	Tstm Wind	0 kts.	0	0	20K	0	The roof of a mobile home was blown off. Trees and power lines were downed, and lights at a football stadium were blown over.
<a href="#">64 TXZ089&gt;090</a>	5/7/2002	9:20 PM	High Wind	61 kts.	0	0	62K	0	Two power poles were downed; one telephone pole was downed; approximately 25 percent of the homes in Archer City received minor roof

									damage; several fences and trees were downed. The high winds, perhaps lasting as long as two hours, were likely associated with a heat burst and not a thunderstorm.
<a href="#">65 TXZ083&gt;090</a>	5/9/2002	1:15 AM	High Wind	0 kts.	0	0	0	0	none reported
<a href="#">66 Holliday</a>	6/15/2002	9:18 PM	Tstm Wind	0 kts.	0	0	25K	0	A mobile home was blown over. A line of severe thunderstorms moved rapidly through western and southwest Oklahoma during the evening, before moving through all of western north Texas. The most severe thunderstorms affected areas from near Childress and Quanah, south-southeastward through Crowell, Benjamin, Munday, Seymour, and Archer City. Wind speeds between 80-100 mph were measured or estimated in these areas, with widespread damage occurring. Some hail was also reported.
<a href="#">67 Archer City</a>	6/15/2002	9:28 PM	Tstm Wind	57 kts.	0	0	0	0	none reported
<a href="#">68 Archer City</a>	6/15/2002	9:31 PM	Tstm Wind	61 kts.	0	0	0	0	none reported
<a href="#">69 Archer City</a>	6/15/2002	9:34 PM	Tstm Wind	69 kts.	0	0	0	0	none reported
<a href="#">70 Archer City</a>	6/15/2002	9:37 PM	Tstm Wind	78 kts.	0	0	0	0	none reported
<a href="#">71 Lakeside City</a>	8/27/2002	3:45 AM	Tstm Wind	61 kts.	0	0	0	0	none reported



<a href="#">72 Windthorst</a>	10/18/2002	10:00 PM	Tstm Wind	0 kts.	0	0	0K	0	none reported
<a href="#">73 Scotland</a>	4/5/2003	9:40 PM	Tstm Wind	56 kts.	0	0	1K	0	Power lines were downed.
<a href="#">74 TXZ086 - 089</a>	4/27/2003	9:30 PM	High Wind	76 kts.	0	0	16K	0	Measured wind gusts associated with a heat burst ranged from 71 mph to 87 mph. Many power lines and street lights were downed and power poles snapped across this area, especially in Wichita Falls, Holliday, and Archer City. Numerous trees were also damaged along with some minor roof damage and damage to a couple of awnings in Wichita Falls. The length of the damage sustained in Wichita Falls was about 5 miles with a width of 0.5 miles.
<a href="#">75 Archer City</a>	3/4/2004	1:01 PM	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">76 Holliday</a>	3/4/2004	1:03 PM	Tstm Wind	69 kts.	0	0	250K	0	Measured wind gusts associated with a heat burst ranged from 71 mph to 87 mph. Many power lines and street lights were downed and power poles snapped across this area, especially in Wichita Falls, Holliday, and Archer City. Numerous trees were also damaged along with some minor roof damage and damage to a couple of awnings in Wichita Falls. The length of the damage sustained in

									Wichita Falls was about 5 miles with a width of 0.5 miles.
<a href="#">77 Megargel</a>	3/4/2004	12:40 PM	Tstm Wind	61 kts.	0	0	30K	0	A storage bin at McCarson's Grain Elevator came off its foundation and rolled into a mobile home pushing it off its props. Several trees were uprooted at the town cemetery and damage was reported at the City Hall.
<a href="#">78 Lake Kickapoo</a>	3/4/2004	12:54 PM	Tstm Wind	69 kts.	0	0	500K	0	Most of the damage in this area was sustained on the north side of the lake. All of the siding was ripped off one home, while the roof on a new two-story home flew off and destroyed a shed. Boats were scattered along the roadside in places far from the lake. A boat dock was also moved many yards. Power lines were downed. In all it was estimated that 31 homes sustained damage, mostly to the rooftops.
<a href="#">79 Archer City</a>	6/1/2004	5:40 PM	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">80 Archer City</a>	6/1/2004	5:40 PM	Tstm Wind	52 kts.	0	0	0	0	none reported
<a href="#">81 Megargel</a>	6/12/2004	9:20 PM	Tstm Wind	61 kts.	0	0	0	0	none reported
<a href="#">82 Holliday</a>	6/12/2004	9:46 PM	Tstm Wind	52 kts.	0	0	4K	0	Power lines were downed
TOTALS:					0	12	2M	0	

Tornados

**Tornados**

**22 Tornado(s) Events were reported in Archer County and the City of Archer City, City of Holliday, City of Lakeside City, City of Megargel, City of Scotland, City of Windthorst between 01/01/1950 and 06/30/2004**

Location or County	Date	Time	Type	Magnitude	Death	Injuries	Property Damage	Crop Damage	Beginning Location	Ending Location	Length	Width
<a href="#">1 ARCHER</a>	6/8/1955	1500	Tornad	F1	0	0	OK	0	33°48'N	Not	Not	Not
<a href="#">2 ARCHER</a>	4/25/1957	1605	Tornad	F0	0	0	OK	0	33°44'N	Not	0 Mile	3
<a href="#">3 ARCHER</a>	5/8/1959	2210	Tornad	F0	0	0	OK	0	33°46'N	Not	Not	Not
<a href="#">4 ARCHER</a>	4/8/1961	1500	Tornad	F3	0	1	OK	0	33°36'N	Not	1 Mile	33
<a href="#">5 ARCHER</a>	4/10/1966	1700	Tornad	F1	0	0	OK	0	33°28'N	Not	2 Miles	27
<a href="#">6 ARCHER</a>	4/10/197	1750	Tornad	F4	0	0	3K	0	33°49'N	33°50'N	1 Miles	880

	9								/	/		
<a href="#">7 ARCHER</a>	4/2/1980	1245	Tornad	F0	0	0	0K	0	33°42'N	Not	Not	Not
<a href="#">8 ARCHER</a>	4/2/1980	1315	Tornad	F0	0	0	0K	0	33°48'N	Not	Not	Not
<a href="#">9 ARCHER</a>	4/2/1980	1316	Tornad	F0	0	0	0K	0	33°48'N	Not	Not	Not
<a href="#">10 ARCHER</a>	5/12/1982	1930	Tornad	F1	0	0	0K	0	33°44'N	Not	Not	Not
<a href="#">11 ARCHER</a>	4/21/1985	1836	Tornad	F2	0	0	250K	0	33°25'N	33°25'N	2 Miles	300
<a href="#">12 ARCHER</a>	5/14/1986	1830	Tornad	F3	0	4	2.5M	0	33°32'N	33°34'N	11	250
<a href="#">13 ARCHER</a>	9/2/1986	1130	Tornad	F0	0	0	25K	0	33°41'N	Not	0 Mile	10
<a href="#">14 ARCHER</a>	3/28/1989	2114	Tornad	F0	0	0	0K	0	33°50'N	Not	0 Mile	10
<a href="#">15 ARCHER</a>	3/8/1992	1759	Tornad	F0	0	0	0K	0	33°44'N	Not	0 Mile	10
<a href="#">16 ne</a>	4/26/1994	1150	Tornad	F0	0	0	0	0	33°26'N	3 Miles east of vene	0 Mile	20
<a href="#">17 ARCHER</a>	4/26/1994	1227	Tornad	F2	0	0	500K	0	Not	45 Miles West oforst	10	150
<a href="#">18 Scotland</a>	5/29/1994	1630	Tornad	F0	0	0	0	0	33°35'N	Not	Not	30
<a href="#">19 t</a>	8/17/1997	6:45 PM	Tornad	F0	0	0	0	0	33°28'N	33°28'N	1 Mile	75
<a href="#">20 t</a>	8/17/1997	7:15 PM	Tornad	F0	0	0	0	0	33°24'N	33°24'N	0 Mile	25
<a href="#">21 Archer</a>	5/27/2000	12:24 PM	Tornad	F0	0	0	0	0	33°34'N	33°34'N	0 Mile	25

<a href="#">22 Archer</a>	5/27/2009	12:28 PM	Tornad	F0	0	0	3K	0	33°35'N	33°34'N	1 Mile	25
TOTALS:					0	5	3.280	0				

*Wildfires*

**Wildfires**

*Local governments issue burn bans whenever environmental conditions are such that they meet prerequisites prescribed for data collection by the Texas Forestry Service (TFS). Such examples include the Keetch-Byram Drought Index (KBDI), Palmer Drought Index, and other prediction services. As well, significant wildfires in the county have established the need for proper response and action by the local governments. There have been no reported wildfires into the National Climatic Data Center; however, these are some damages that were identified in the State of Texas Wildfire SITREP.*

*Texas Wildfire SITREP #11 – 02/12/2009*

**Archer County:** Report of 20-acre grassfire located on McKinney Ranch at State Highway 79 and Sam Cowan Road, Archer County. The fire was located in rough terrain and was contained. Archer City Volunteer FD, Archer County EMC, and one private dozer responded. (RLO Sub 5A)

*Texas Wildfire SITREP #17- 02/21/2009*

**Archer County:** Report of the 200-acre Marshland Fire on Decker Road and Sisk Road in Archer County. Two homes were threatened and saved. The fire burned into Wichita County near the Wichita Falls City limits at Greg Road. The American Red Cross was on standby by for evacuees due to the smoke. Sisk Road was closed to traffic. The Holliday, Bowman, Lakeside and Lake Kickapoo VFDs, Archer County EMC and SO, Wichita County SO, FD, PD, EMC, TFS and DPS responded. (RLO Sub 5A)

*Texas Wildfire SITREP #18 – 02/24/2009*

**Archer County:** Report of the 30-acre Marshland Fire located off Sisk and Decker Roads in Archer County and was contained. 101 homes were threatened and saved. Holliday Volunteer Fire Department, Bowman VFD, Lakeside VFD, Lake Kickapoo VFD, Archer County EMC, Archer County SO, Wichita County EMC, TFS, ARC, and DPS responded. (RLO Sub 5A)

*Texas Wildfire SITREP #23 – 03/03/2009*

**Archer County:** Report of a 182-acre grassfire, caused by downed power lines, located three miles west of the City of Holliday on US 82 between Republican Road and SH 25. The fire was contained. US 82 was closed and reopened. Multiple volunteer fire departments, DPS, Archer County EMC and Archer County personnel responded. (RLO Sub 5A) Region 5

*Texas Wildfire SITREP #29 – 03/11/2009*

**Archer County:** Report of a fire in Archer County. The fire, located on Falls Co Rd, burned 20 acres. The fire was contained. Archer City FD, Megargel VFD and Archer County EMC responded. (RLO Sub 5B)

*Texas Wildfire SITREP #45 – 04/02/2009*

**Archer County:** Report of the 3,300-acre 79 Fire in Archer County. One hay barn was destroyed. TFS and resources from Childress and Abilene remained on scene. (RLO Sub 5A)

*Texas Wildfire SITREP #46 – 04/03/2009*

**Archer County:** Report of the 8,000-acre 79 Fire in Archer County. One hay barn was destroyed. TFS and resources from Childress and Abilene responded. (RLO Sub 5A)

*Texas Wildfire SITREP #51 – 04/13/2009*

**Archer County:** Report of three fires in Archer County. Highway 79 was closed. Fire 1 - homes in the area of Highway 79 & Coleman were evacuated. A shelter was opened in Archer City at the community shelter. The fires were contained. ARC responded. TXDOT closed Highway 287 from Electra to Wichita Falls. (RLO Sub 5A)

Report of the 15,000-acre Two Mile Hill Fire Complex located east of Archer City, approximately five miles north of SH 25 (the second fire was north of this fire). The fires merged. Three structures were destroyed. (RLO 5B)

Report of the 30,000-acre (formerly 15,000 acres) Coleman Road Fire (replaced the Two Mile Hill Fire) in Archer County. The fire started on Highway 79 and Coleman Road in Archer County and burned approximately 30,000 acres. The fire was contained. The Cities of Archer City, a population of 3200, and Scotland, a population of 350 were threatened and saved. Evacuations of four homes occurred and a shelter was opened at the Archer City Activity Center. The shelter was closed after one night. No homes were lost and one dairy farm was destroyed. Archer County VFDs, Texas Department of Public Safety, TFS responded. (RLO Sub 5A)

*Drought*

<b>Drought</b>									
<i>9 Recorded Drought events in the Archer County, Texas between 01/01/1950 and 12/31/2008.</i>									
<b>Jurisdiction</b>	<b>Date</b>	<b>Time</b>	<b>Type</b>	<b>Mag</b>	<b>Death</b>	<b>Injuries</b>	<b>Property Damage</b>	<b>Crop Damage</b>	<b>Description</b>
<a href="#">1. Archer</a>	08/01/2000	1200	Drought	N/A	0	0	0	0	<i>An extended period of unusually dry weather started in early August and continued through September, greatly affecting crops and reservoir levels. Some reservoir levels averaged 20 to 40 percent of normal.</i>
<a href="#">2. Archer</a>	12/01/2005	1200	Drought	N/A	0	0	0	0	<i>Without any significant precipitation for the past several months, drought conditions continued to increase during the month of December. The</i>

										drought was at D2 by the end of the month. The lack of moisture was lowering lake levels and causing farm ponds to dry up. The dry conditions were also helping to increase the wildfire potential across the area.
<a href="#">3. Archer</a>	01/01/2006	1200	Drought	N/A	0	0	0	0		Drought conditions persisted into January 2006, with severe to extreme (D2-D3) levels across western north Texas. The weather station at Wichita Falls was 0.49 inches below normal at the end of January. However, this was in addition to the already well below normal values from the previous months. The drought conditions across Texas had become bad enough that the governor issued a drought disaster declaration for Texas in late January. The drought conditions exacerbated already critical fire weather conditions on several days during the month. Several wildfires occurred during the month with one large fire beginning in Clay County and moved east into the neighboring county of Montague affecting a nearby town.
<a href="#">4. Archer</a>	02/01/2006	1200	Drought	N/A	0	0	0	0		Drought conditions continued across western north Texas throughout the month of February. Mainly extreme (D3) drought conditions were reported across the area. The dry conditions continued to exacerbate already difficult fire weather conditions, with wildfires in parts of the area. The drought was also affecting ranchers and farmers whose farm ponds for the animals were low or dry and pasture grass was less than ideal for feeding large numbers of livestock.
<a href="#">5. Archer</a>	03/01/2006	1200	Drought	N/A	0	0	0	250K		Drought conditions persisted across western north Texas throughout the month of March



										despite some rain. The entire area was in a severe (D2) drought at the end of the month. The dry conditions continued to affect farmers and ranchers across the area causing lower farm ponds and degraded pasture for livestock. The dry conditions also made the start and spread of wildfires easier across the area.
<a href="#">6. Archer</a>	04/01/2006	1200	Drought	N/A	0	0	0	0	0	Drought conditions persisted across western north Texas into April. The drought remained at the severe (D2) level for the entire month. The dry conditions continued to cause an increase in wildfire potential, with several wildfires occurring across the area. The agriculture community continued to be impacted by the dry conditions. Farm ponds were continuing to dry up. Pastures, hay supplies, and hay fields were also deteriorating making it difficult for ranchers to feed and maintain their livestock herds.
<a href="#">7. Archer</a>	05/01/2006	1200	Drought	N/A	0	0	0	0	0	Drought conditions persisted across western north Texas throughout the month of May. The drought began as a severe (D2) drought across the area but then improved during the month to a moderate (D1) drought when some much needed rain fell. The dry conditions continued to cause problems for local ranchers and farmers with hay and pasture land affected reducing available food for livestock. Water levels in farm ponds continued to diminish, with some ponds becoming completely dry.
<a href="#">8. Archer</a>	08/01/2006	1200	Drought	N/A	0	0	20K	500K		Drought conditions remained in the highest category, exceptional (D4), throughout the month of August across western north Texas. The dry, hot conditions maintained an

									<p>increased level in wildfire potential across the area. The lack of water caused some communities to implement water restrictions. The agriculture community continued to be hit hard with a lack of pasture land and hay for livestock. Farm ponds also continued to dry up across the area. Recreation activities on area lakes were affected by the drought conditions. The lack of water has caused many lakes to lose shorelines causing many boat ramps and docks to become dry. The low water levels affected boaters in other ways by bringing the lake bottom and objects on the lake floor closer to the surface.</p>
<a href="#">9. Archer</a>	09/01/2006	1200	Drought	N/A	0	0	20K	250K	<p>Drought conditions across western north Texas at the beginning of the month ranged from severe to extreme (D2-D3). During the middle part of the month, heavy rains caused conditions to improve to moderate (D1) which continued through the remainder of September. Before the improved drought conditions, the potential for wildfires continued across the area. The agriculture community continued to be hit hard by the dry conditions. Farm ponds were very low or dry which caused some ranchers to sell part or all of their herds. The lack of adequate pasture and hay also led to these actions. Recreation entities were also adversely affected with many boat docks and ramps on dry land due to receding shore lines. Boaters were also affected due to debris on the lake bottom being closer to the surface which led to some boating accidents.</p>

Extreme Heat

<b>Extreme Heat</b>									
<i>2 Recorded Extreme Heat events in Archer County, Texas between 01/01/1950 and 12/31/2008</i>									
<i>Location or County</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Magnitude</i>	<i>Death</i>	<i>Injuries</i>	<i>Property Damage</i>	<i>Crop Damage</i>	<i>Description of Weather Event</i>
<a href="#">1 ARCHER</a>	07/04/2001	1200am	Extreme Heat	N/A	0	0	0	0	None Reported
<a href="#">2 ARCHER</a>	07/11/2006	1200pm	Extreme Heat	N/A	0	0	0	0	None Reported

Hail

<b>Hail</b>									
<i>343 HAIL event(s) were reported in Archer County and the City of Archer City, City of Holliday, City of Lakeside City, City of Megargel, City of Scotland, City of Windthorst, Texas between 01/01/1950 and 06/30/2004.</i>									
<i>Location or County</i>	<i>Date</i>	<i>Time</i>	<i>Type</i>	<i>Magnitude</i>	<i>Death</i>	<i>Injuries</i>	<i>Property Damage</i>	<i>Crop Damage</i>	<i>Description of Weather Event</i>
<a href="#">1 ARCHER</a>	6/4/1955	1705	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">2 ARCHER</a>	5/17/1957	1720	Hail	1.00 in.	0	0	0	0	None Reported

<a href="#">3 ARCHER</a>	5/21/1961	2045	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">4 ARCHER</a>	5/16/1968	1930	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">5 ARCHER</a>	5/16/1968	2015	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">6 ARCHER</a>	6/8/1969	1530	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">7 ARCHER</a>	3/3/1973	1800	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">8 ARCHER</a>	6/16/1973	1455	Hail	4.50 in.	0	0	0	0	None Reported
<a href="#">9 ARCHER</a>	4/19/1974	2240	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">10 ARCHER</a>	4/27/1975	1530	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">11 ARCHER</a>	5/2/1975	1551	Hail	2.00 in.	0	0	0	0	None Reported
<a href="#">12 ARCHER</a>	5/5/1976	2010	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">13 ARCHER</a>	5/12/1976	1515	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">14 ARCHER</a>	5/25/1976	715	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">15 ARCHER</a>	5/30/1976	2330	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">16 ARCHER</a>	4/2/1980	1245	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">17 ARCHER</a>	4/2/1980	1315	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">18 ARCHER</a>	5/6/1980	1750	Hail	1.75 in.	0	0	0	0	None Reported

<a href="#">19 ARCHER</a>	5/27/1981	300	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">20 ARCHER</a>	6/2/1982	1730	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">21 ARCHER</a>	6/2/1982	1730	Hail	1.50 in.	0	0	0	0	None Reported
<a href="#">22 ARCHER</a>	3/29/1983	1845	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">23 ARCHER</a>	5/22/1983	1913	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">24 ARCHER</a>	3/18/1984	1130	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">25 ARCHER</a>	4/22/1985	1930	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">26 ARCHER</a>	4/28/1985	1929	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">27 ARCHER</a>	5/12/1985	1615	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">28 ARCHER</a>	5/12/1985	1615	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">29 ARCHER</a>	5/12/1985	1820	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">30 ARCHER</a>	5/13/1985	738	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">31 ARCHER</a>	4/3/1986	933	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">32 ARCHER</a>	4/3/1986	933	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">33 ARCHER</a>	4/3/1986	1120	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">34 ARCHER</a>	4/19/1986	710	Hail	1.00 in.	0	0	0	0	None Reported

<a href="#">35 ARCHER</a>	4/19/1986	720	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">36 ARCHER</a>	5/6/1986	1725	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">37 ARCHER</a>	5/8/1986	1553	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">38 ARCHER</a>	5/9/1986	1559	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">39 ARCHER</a>	5/13/1986	2059	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">40 ARCHER</a>	5/13/1986	2110	Hail	1.50 in.	0	0	0	0	None Reported
<a href="#">41 ARCHER</a>	5/14/1986	1753	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">42 ARCHER</a>	6/10/1986	1600	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">43 ARCHER</a>	5/22/1987	1545	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">44 ARCHER</a>	6/17/1987	2148	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">45 ARCHER</a>	3/1/1988	2140	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">46 ARCHER</a>	6/2/1988	1510	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">47 ARCHER</a>	6/16/1988	1650	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">48 ARCHER</a>	5/2/1989	1633	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">49 ARCHER</a>	5/2/1989	1708	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">50 ARCHER</a>	5/4/1989	2015	Hail	2.75 in.	0	0	0	0	None Reported

<a href="#">51 ARCHER</a>	7/18/1989	1945	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">52 ARCHER</a>	8/16/1989	1615	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">53 ARCHER</a>	3/13/1990	1626	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">54 ARCHER</a>	5/29/1990	1907	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">55 ARCHER</a>	6/1/1990	1945	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">56 ARCHER</a>	8/9/1990	1910	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">57 ARCHER</a>	3/21/1991	1350	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">58 ARCHER</a>	3/21/1991	1414	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">59 ARCHER</a>	3/21/1991	1435	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">60 ARCHER</a>	5/24/1991	1830	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">61 ARCHER</a>	5/24/1991	1847	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">62 ARCHER</a>	10/23/1991	1815	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">63 ARCHER</a>	10/23/1991	1905	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">64 ARCHER</a>	10/24/1991	1807	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">65 ARCHER</a>	10/26/1991	240	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">66 ARCHER</a>	10/27/1991	2205	Hail	1.75 in.	0	0	0	0	None Reported

<a href="#">67 ARCHER</a>	3/8/1992	1559	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">68 ARCHER</a>	3/8/1992	1559	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">69 ARCHER</a>	3/8/1992	1735	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">70 ARCHER</a>	3/8/1992	1735	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">71 ARCHER</a>	3/8/1992	1749	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">72 ARCHER</a>	3/8/1992	1749	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">73 ARCHER</a>	3/8/1992	1807	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">74 ARCHER</a>	3/8/1992	1807	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">75 ARCHER</a>	3/8/1992	1829	Hail	2.50 in.	0	0	0	0	None Reported
<a href="#">76 ARCHER</a>	3/8/1992	1829	Hail	2.50 in.	0	0	0	0	None Reported
<a href="#">77 ARCHER</a>	3/24/1992	1640	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">78 ARCHER</a>	3/24/1992	1640	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">79 ARCHER</a>	3/24/1992	1655	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">80 ARCHER</a>	3/24/1992	1655	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">81 ARCHER</a>	4/8/1992	1820	Hail	3.00 in.	0	0	0	0	None Reported
<a href="#">82 ARCHER</a>	4/8/1992	1820	Hail	3.00 in.	0	0	0	0	None Reported



<a href="#">83 ARCHER</a>	6/23/1992	1525	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">84 ARCHER</a>	6/23/1992	1525	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">85 ARCHER</a>	6/23/1992	1550	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">86 ARCHER</a>	6/23/1992	1550	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">87 ARCHER</a>	6/28/1992	1939	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">88 ARCHER</a>	6/28/1992	1939	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">89 ARCHER</a>	7/2/1992	2250	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">90 ARCHER</a>	7/2/1992	2250	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">91 ARCHER</a>	7/14/1992	2135	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">92 ARCHER</a>	7/14/1992	2135	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">93 ARCHER</a>	7/14/1992	2200	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">94 ARCHER</a>	7/14/1992	2200	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">95 ARCHER</a>	7/14/1992	2222	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">96 ARCHER</a>	7/14/1992	2222	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">97 Mankins</a>	4/3/1993	1709	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">98 Holliday</a>	4/3/1993	1722	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">99 Holliday</a>	4/3/1993	1740	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">100 Holliday</a>	4/3/1993	1747	Hail	1.00 in.	0	0	0	0	None Reported

<a href="#">101 Wichita Falls</a>	4/3/1993	1845	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">102 Windthorst</a>	5/1/1993	1900	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">103 Dundee</a>	5/1/1993	1945	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">104 Mankins</a>	5/1/1993	2053	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">105 Mankins</a>	5/1/1993	2058	Hail	3.00 in.	0	0	0	0	None Reported
<a href="#">106 Holliday</a>	5/8/1993	1455	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">107 Holliday</a>	5/8/1993	1504	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">108 Holliday</a>	5/8/1993	1600	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">109 Megargel</a>	5/8/1993	1622	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">110 Lake Kickapoo</a>	5/8/1993	1721	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">111 Archer City</a>	5/8/1993	1730	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">112 Windthorst</a>	5/8/1993	1900	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">113 S Megargel</a>	10/12/1993	1750	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">114 Megargel</a>	2/22/1994	533	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">115 Megargel</a>	2/22/1994	548	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">116 Archer City</a>	2/22/1994	555	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">117 Mullin</a>	4/24/1994	1730	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">118 San Saba</a>	4/24/1994	1855	Hail	1.00 in.	0	0	0	0	None Reported

<a href="#">119 Archer City</a>	4/25/1994	1050	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">120 Windthorst</a>	4/25/1994	1345	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">121 Nr Megargel</a>	4/26/1994	1015	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">122 Megargel</a>	4/26/1994	1130	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">123 Windthorst</a>	4/26/1994	1246	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">124 Scotland</a>	4/26/1994	1248	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">125 Megargel</a>	5/24/1994	1835	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">126 Archer City</a>	5/24/1994	1930	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">127 Scotland</a>	5/29/1994	1558	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">128 Windthorst</a>	5/29/1994	1610	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">129 ARCHER</a>	5/29/1994	1625	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">130 Scotland</a>	5/29/1994	1625	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">131 Windthorst</a>	5/29/1994	1705	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">132 Windthorst</a>	5/29/1994	1710	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">133 Markley</a>	5/29/1994	1720	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">134 Scotland</a>	6/9/1994	1930	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">135 Scotland</a>	6/9/1994	1930	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">136 Holliday</a>	6/9/1994	1956	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">137 Archer City</a>	8/7/1994	1445	Hail	0.75 in.	0	0	0	0	None Reported

<a href="#">138 Archer City</a>	8/7/1994	1500	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">139 Windthorst</a>	8/7/1994	1504	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">140 Windthorst</a>	8/7/1994	1505	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">141 Archer City</a>	8/20/1994	1450	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">142 Mankins</a>	10/3/1994	1545	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">143 Holliday</a>	10/3/1994	1555	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">144 Archer City</a>	4/16/1995	2001	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">145 Archer City</a>	4/16/1995	2008	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">146 Mankins</a>	4/19/1995	1132	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">147 Scotland</a>	4/19/1995	1220	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">148 Megargel</a>	4/19/1995	1625	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">149 Megargel</a>	4/19/1995	1742	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">150 Holliday</a>	4/22/1995	941	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">151 Holliday</a>	4/22/1995	945	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">152 S Mankins</a>	4/22/1995	952	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">153 ARCHER</a>	5/6/1995	745	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">154 ARCHER</a>	5/6/1995	849	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">155 ARCHER</a>	5/14/1995	2131	Hail	1.00 in.	0	0	0	0	None Reported

<a href="#">156 ARCHER</a>	5/23/1995	1745	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">157 ARCHER</a>	5/23/1995	1800	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">158 ARCHER</a>	5/23/1995	1815	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">159 ARCHER</a>	5/25/1995	955	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">160 Archer City</a>	6/5/1995	1724	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">161 Holliday</a>	6/5/1995	1805	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">162 Archer City</a>	6/5/1995	1924	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">163 Archer City</a>	6/10/1995	807	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">164 Scotland</a>	6/29/1995	1700	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">165 Windthorst</a>	7/4/1995	1900	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">166 Megargel</a>	4/12/1996	8:25 AM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">167 Archer City</a>	4/12/1996	8:35 AM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">168 Archer City</a>	4/12/1996	8:45 AM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">169 Windthorst</a>	4/12/1996	9:45 AM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">170 Holliday</a>	4/21/1996	2:30 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">171 Lake Kickapoo</a>	4/21/1996	2:35 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">172 Dundee</a>	4/21/1996	3:00 PM	Hail	0.75 in.	0	0	0	0	None Reported

<a href="#">173 Holliday</a>	4/21/1996	3:00 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">174 Holliday</a>	4/21/1996	3:30 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">175 Lake Kickapoo</a>	4/21/1996	3:30 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">176 Holliday</a>	4/21/1996	3:51 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">177 Holliday</a>	4/21/1996	3:58 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">178 Lake Kickapoo</a>	4/21/1996	6:13 PM	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">179 Archer City</a>	4/21/1996	6:27 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">180 Archer City</a>	4/21/1996	6:41 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">181 Windthorst</a>	8/11/1996	6:40 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">182 Archer City</a>	9/23/1996	8:06 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">183 Archer City</a>	9/23/1996	8:25 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">184 Scotland</a>	9/23/1996	8:40 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">185 Windthorst</a>	10/21/1996	7:20 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">186 Archer City</a>	3/24/1997	11:25 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">187 Scotland</a>	5/30/1997	3:38 AM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">188 Lake Kickapoo</a>	6/12/1997	7:32 PM	Hail	0.75 in.	0	0	0	0	None Reported

<a href="#">189 Archer City</a>	6/12/1997	8:25 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">190 Archer City</a>	6/12/1997	8:43 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">191 Windthorst</a>	6/12/1997	9:35 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">192 Windthorst</a>	6/12/1997	10:10 PM	Hail	2.00 in.	0	0	0	0	None Reported
<a href="#">193 Archer City</a>	10/23/1997	2:22 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">194 Scotland</a>	10/23/1997	2:39 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">195 Archer City</a>	10/23/1997	2:56 PM	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">196 Dundee</a>	3/18/1998	8:35 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">197 Lake Kickapoo</a>	3/18/1998	8:40 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">198 Archer City</a>	3/18/1998	8:45 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">199 Lakeside City</a>	3/30/1998	1:00 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">200 Lakeside City</a>	3/30/1998	12:38 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">201 Megargel</a>	4/26/1998	2:15 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">202 Archer City</a>	4/26/1998	2:43 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">203 Dundee</a>	6/9/1998	4:03 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">204 Dundee</a>	6/9/1998	4:05 PM	Hail	2.00 in.	0	0	0	0	None Reported

<a href="#">205 Dundee</a>	6/9/1998	4:05 PM	Hail	2.00 in.	0	0	0	0	None Reported
<a href="#">206 Holliday</a>	6/9/1998	4:46 PM	Hail	3.90 in.	0	0	0	0	None Reported
<a href="#">207 Holliday</a>	6/9/1998	5:01 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">208 Windthorst</a>	6/9/1998	5:44 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">209 Windthorst</a>	6/9/1998	6:00 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">210 Holliday</a>	7/13/1998	6:10 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">211 Holliday</a>	7/13/1998	6:30 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">212 Archer City</a>	10/2/1998	4:10 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">213 Archer City</a>	10/2/1998	4:12 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">214 Archer City</a>	10/5/1998	2:40 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">215 Holliday</a>	5/27/1999	3:43 PM	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">216 Archer City</a>	5/27/1999	4:04 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">217 Archer City</a>	5/27/1999	4:10 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">218 Archer City</a>	5/31/1999	9:15 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">219 Holliday</a>	5/31/1999	10:00 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">220 Mankins</a>	6/10/1999	6:43 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">221 Mankins</a>	9/11/1999	5:49 PM	Hail	0.88 in.	0	0	0	0	None Reported



<a href="#">222 Windthorst</a>	3/2/2000	1:29 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">223 Archer City</a>	3/7/2000	5:43 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">224 Archer City</a>	3/7/2000	5:51 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">225 Archer City</a>	3/7/2000	5:56 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">226 Dundee</a>	3/28/2000	6:50 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">227 Megargel</a>	4/15/2000	7:55 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">228 Archer City</a>	4/15/2000	8:00 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">229 Archer City</a>	4/29/2000	3:43 AM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">230 Megargel</a>	4/30/2000	4:45 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">231 Mankins</a>	4/30/2000	5:37 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">232 Holliday</a>	4/30/2000	5:46 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">233 Holliday</a>	4/30/2000	5:49 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">234 Megargel</a>	4/30/2000	6:00 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">235 Megargel</a>	4/30/2000	6:20 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">236 Mankins</a>	5/5/2000	7:05 AM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">237 Lake Kickapoo</a>	5/5/2000	8:05 AM	Hail	1.75 in.	0	0	0	0	None Reported

<a href="#">238 Mankins</a>	5/5/2000	8:15 AM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">239 Mankins</a>	5/5/2000	8:27 AM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">240 Windthorst</a>	5/27/2000	1:00 PM	Hail	1.75 in.	0	0	250K	0	Severe thunderstorms formed across portions of western north Texas during the afternoon of the 27th and moved southeastward. These storms resulted in areas of significant hail damage and 2 weak tornadoes. Hundreds of insurance claims were filed across Wichita, Archer, and Clay Counties (300 near and on the southwest side of Wichita Falls in Wichita County) due to hail damage, a total of approximately 1.8 million dollars.
<a href="#">241 Windthorst</a>	5/27/2000	1:10 PM	Hail	2.75 in.	0	0	250K	0	Severe thunderstorms formed across portions of western north Texas during the afternoon of the 27th and moved southeastward. These storms resulted in areas of significant hail damage and 2 weak tornadoes. Hundreds of insurance

									claims were filed across Wichita, Archer, and Clay Counties (300 near and on the southwest side of Wichita Falls in Wichita County) due to hail damage, a total of approximately 1.8 million dollars.
<a href="#">242 Windthorst</a>	5/27/2000	1:15 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">243 Windthorst</a>	5/27/2000	2:06 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">244 Windthorst</a>	5/27/2000	2:10 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">245 Windthorst</a>	5/27/2000	2:18 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">246 Holliday</a>	5/27/2000	3:05 PM	Hail	1.75 in.	0	0	250K	0	Severe thunderstorms formed across portions of western north Texas during the afternoon of the 27th and moved southeastward. These storms resulted in areas of significant hail damage and 2 weak tornadoes. Hundreds of insurance claims were filed across Wichita, Archer, and Clay Counties (300 near and on the southwest side of Wichita Falls in Wichita County) due to hail damage, a

									total of approximately 1.8 million dollars.
<a href="#">247 Archer City</a>	5/27/2000	12:20 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">248 Windthorst</a>	2/24/2001	8:22 AM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">249 Dundee</a>	5/19/2001	6:40 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">250 Lake Kickapoo</a>	5/19/2001	6:58 PM	Hail	2.75 in.	0	0	50K	0	Scattered damage to roofs was reported.
<a href="#">251 Archer City</a>	5/19/2001	7:27 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">252 Archer City</a>	5/19/2001	7:34 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">253 Archer City</a>	5/27/2001	11:51 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">254 Scotland</a>	5/30/2001	7:00 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">255 Scotland</a>	5/30/2001	7:05 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">256 Windthorst</a>	5/30/2001	7:30 PM	Hail	2.00 in.	0	0	0	0	None Reported
<a href="#">257 Windthorst</a>	5/30/2001	7:40 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">258 Windthorst</a>	5/30/2001	7:50 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">259 Windthorst</a>	5/30/2001	8:40 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">260 Holliday</a>	5/30/2001	9:10 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">261 Megargel</a>	5/30/2001	10:00 PM	Hail	1.00 in.	0	0	0	0	None Reported

<a href="#">262 Anarene</a>	9/8/2001	7:35 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">263 Archer City</a>	9/8/2001	7:59 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">264 Lake Kickapoo</a>	9/8/2001	8:20 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">265 Megargel</a>	10/10/2001	10:51 AM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">266 Lakeside City</a>	10/12/2001	3:10 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">267 Lakeside City</a>	10/12/2001	3:11 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">268 Archer City</a>	10/12/2001	3:13 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">269 Megargel</a>	4/7/2002	3:46 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">270 Archer City</a>	4/7/2002	4:15 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">271 Archer City</a>	4/7/2002	4:22 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">272 Windthorst</a>	4/7/2002	4:55 PM	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">273 Archer City</a>	4/13/2002	9:19 AM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">274 Dundee</a>	4/16/2002	4:38 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">275 Dundee</a>	4/16/2002	4:49 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">276 Holliday</a>	4/16/2002	4:55 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">277 Archer City</a>	8/13/2002	5:24 PM	Hail	0.88 in.	0	0	0	0	None Reported

<a href="#">278 Archer City</a>	8/13/2002	5:34 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">279 Mankins</a>	9/18/2002	7:28 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">280 Mankins</a>	9/18/2002	7:35 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">281 Dundee</a>	4/5/2003	8:30 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">282 Dundee</a>	4/5/2003	8:32 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">283 Archer City</a>	4/5/2003	8:36 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">284 Archer City</a>	4/5/2003	8:46 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">285 Archer City</a>	4/5/2003	8:48 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">286 Archer City</a>	4/5/2003	8:50 PM	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">287 Archer City</a>	4/5/2003	8:51 PM	Hail	2.00 in.	0	0	0	0	None Reported
<a href="#">288 Archer City</a>	4/5/2003	8:56 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">289 Scotland</a>	4/5/2003	9:10 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">290 Windthorst</a>	4/5/2003	9:24 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">291 Archer City</a>	4/15/2003	9:10 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">292 Lakeside City</a>	4/15/2003	10:10 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">293 Lake Kickapoo</a>	4/18/2003	6:46 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">294 Wichita Falls</a>	4/18/2003	6:51 PM	Hail	0.75 in.	0	0	0	0	None Reported

<a href="#">295 Mankins</a>	4/23/2003	4:10 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">296 Mankins</a>	4/23/2003	6:44 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">297 Dundee</a>	4/23/2003	6:47 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">298 Mankins</a>	4/23/2003	6:53 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">299 Holliday</a>	4/23/2003	6:54 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">300 Holliday</a>	4/23/2003	6:54 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">301 Holliday</a>	4/23/2003	6:57 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">302 Mankins</a>	4/23/2003	6:58 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">303 Mankins</a>	4/23/2003	7:04 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">304 Holliday</a>	4/23/2003	7:10 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">305 Mankins</a>	4/23/2003	7:10 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">306 Holliday</a>	4/23/2003	7:14 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">307 Mankins</a>	5/7/2003	8:30 PM	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">308 Dundee</a>	5/7/2003	8:58 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">309 Holliday</a>	5/7/2003	9:10 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">310 Dundee</a>	5/13/2003	7:35 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">311 Archer City</a>	5/16/2003	1:43 AM	Hail	0.88 in.	0	0	0	0	None Reported

<a href="#">312 Mankins</a>	5/16/2003	12:20 AM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">313 Archer City</a>	5/24/2003	12:15 AM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">314 Lake Kickapoo</a>	6/1/2003	7:01 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">315 Holliday</a>	6/1/2003	7:15 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">316 Holliday</a>	6/1/2003	7:22 PM	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">317 Lakeside City</a>	6/1/2003	7:29 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">318 Archer City</a>	6/10/2003	8:32 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">319 Windthorst</a>	6/11/2003	12:00 AM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">320 Archer City</a>	6/12/2003	1:45 AM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">321 Megargel</a>	6/12/2003	4:14 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">322 Megargel</a>	6/12/2003	4:14 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">323 Megargel</a>	6/12/2003	4:23 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">324 Lakeside City</a>	6/12/2003	10:59 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">325 Dundee</a>	3/4/2004	12:56 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">326 Lake Kickapoo</a>	4/23/2004	4:30 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">327 Holliday</a>	4/23/2004	4:40 PM	Hail	0.88 in.	0	0	0	0	None Reported



<a href="#">328 Scotland</a>	4/23/2004	5:38 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">329 Dundee</a>	5/13/2004	12:55 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">330 Scotland</a>	6/1/2004	4:25 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">331 Scotland</a>	6/1/2004	4:39 PM	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">332 Scotland</a>	6/1/2004	4:44 PM	Hail	0.88 in.	0	0	0	0	None Reported
<a href="#">333 Windthorst</a>	6/1/2004	4:55 PM	Hail	2.00 in.	0	0	0	0	None Reported
<a href="#">334 Lakeside City</a>	6/1/2004	5:24 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">335 Archer City</a>	6/1/2004	5:40 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">336 Scotland</a>	6/1/2004	5:45 PM	Hail	1.25 in.	0	0	0	0	None Reported
<a href="#">337 Archer City</a>	6/1/2004	5:55 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">338 Archer City</a>	6/1/2004	6:04 PM	Hail	1.00 in.	0	0	0	0	None Reported
<a href="#">339 Archer City</a>	6/1/2004	6:05 PM	Hail	1.75 in.	0	0	0	0	None Reported
<a href="#">340 Windthorst</a>	6/1/2004	6:17 PM	Hail	0.75 in.	0	0	0	0	None Reported
<a href="#">341 Scotland</a>	6/2/2004	7:00 PM	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">342 Scotland</a>	6/2/2004	7:07 PM	Hail	2.75 in.	0	0	0	0	None Reported
<a href="#">343 Windthorst</a>	6/2/2004	7:10 PM	Hail	1.75 in.	0	0	0	0	None Reported
TOTALS:					0	0	800K	0	

Winter Storms

Winter Storms									
10 SNOW & ICE event(s) were reported in Archer County and the City of Archer City, City of Holliday, City of Lakeside City, City of Megargel, City of Scotland, City of Windthorst, Texas between 01/01/1950 and 06/30/2004.									
Location or County	Date	Time	Type	Magnitude	Deaths	Injuries	Property Damage	Damage	Description of Weather Event
<a href="#">1 Archer County</a>	11/20/1993	1600	Ice	N/A	0	0	0	0	Widespread freezing rain and sleet occurred in much of the western part of North Texas during the morning and afternoon hours on the 25th. Hazardous roads resulted in several accidents, a few injuries and one fatality.
<a href="#">2 Archer County</a>	2/13/1995	0	Glaze	N/A	0	0	0	0	Warm air overriding cold air which was spreading into North Texas behind a cold front on the 13th, set the stage for a mixture of wintery precipitation across the northern third of the region. Freezing drizzle, light freezing rain, and some sleet resulted in slippery roadways and hundreds of accidents. Numerous people were injured and at least three indirect deaths resulted from the icy roadways.
<a href="#">3 Archer County</a>	1/1/1996	2:00 AM	Heavy Snow	N/A	0	0	0	0	A strong cold front moved into North Texas during the very early morning hours of New Year's Day. Rainfall behind the front turned to snow within a few hours of frontal passage, and lasted until very late evening. One area of heavier snow fell from Knox City to Henrietta. During the more than 18 hours of snowfall, snow accumulations reached 4 inches in Knox City in Knox County and in Archer City in Archer County.
<a href="#">4 Archer County</a>	12/26/1997	12:00 AM	Heavy Snow	N/A	0	0	0	0	Heavy snow began falling across western parts of north Texas late Christmas night and lasted until mid-morning on the 26th. Many areas saw snow accumulations of 2 inches or more, with isolated totals approaching 4 inches. The biggest accumulation was reported in Knox County, where Munday received 3.5 inches of snow, while much of the remainder of western north Texas saw 1 to 2 inches. The snow melted rapidly during the late morning and afternoon as temperatures rose into the 40s.
<a href="#">5 Archer County</a>	12/21/1998	4:00 AM	Ice Storm	N/A	0	0	0	0	A prolonged period of light freezing drizzle affected western portions of North Texas on the 21st, producing a thin layer of ice on most roads. Dozens of traffic accidents were reported across the area along with 2 fatal traffic accidents, both of which occurred in Archer County.

										Precipitation amounts were very light with Shepard Air Force Base in Wichita Falls (Wichita County) recording just one hundredth of an inch on the 21st.
<a href="#">6 Archer County</a>	12/23/1998	6:00 AM	Ice Storm	N/A	0	0	0	0	0	An extended period of light freezing drizzle or light freezing rain mixed with light snow and light sleet fell across western portions of North Texas on the 23rd and early on the 24th, producing a thin glaze of ice on most area roads.
<a href="#">7 Archer County</a>	12/26/2000	3:00 AM	Ice Storm	N/A	0	0	175K	0	0	A major winter storm developed across north Texas during the evening of the 25th, with significant accumulations of ice and snow beginning around 0300 CST on the 26th, and lasting through most of the day. Across Hardeman and northern Foard Counties, a mixture of sleet and freezing rain fell overnight on the 26th before changing to all snow during the day, with total ice and snow accumulations between 2 and 4 inches observed. Across the remainder of western north Texas, a mixture of sleet and freezing rain accumulated to a depth of 1 to 2 inches. Although damage to personal and public property and infrastructure was greater across portions of south central and southeast Oklahoma, approximately 25,000 residents lost power and schools were closed for 1 to 2 days. Hundreds of insurance claims were also received by local insurance companies for damage to property.
<a href="#">8 Archer County</a>	2/15/2001	10:30 AM	Freezing Rain	N/A	0	0	0	0	0	Periods of freezing rain fell across portions of western north Texas from the morning of the 15th through mid-morning of the 16th. Many locations received one to two tenths of an inch of ice, resulting in numerous traffic accidents.
<a href="#">9 Archer County</a>	11/27/2001	10:00 PM	Heavy Snow	N/A	0	0	0	0	0	An early season winter storm affected western north Texas during the evening of the 27th through the morning of the 28th. Four to 8 inches of snow fell across most of the area with 14 inches reported in Munday in Knox County, and 11 inches reported in Seymour in Baylor County. Wichita Falls in Wichita County reported 7 inches. In Clay County, the precipitation fell as a mixture of freezing rain, sleet, and snow, with accumulations generally less than one inch.
<a href="#">10 Archer County</a>	2/14/2004	3:00 AM	Winter Weather/mix	N/A	0	0	0	0	0	The first snow of the season fell across north Texas and southern Oklahoma. Snowfall amounts ranged from 2 to 4 inches across the area. Several accidents were reported due to the slick roads. The snow began to melt from west to east across the area during the afternoon as temperatures rose above freezing and skies cleared.
TOTALS:					0	0	175K	0	0	

*Dam Failures*

<i>Dam Failures</i>
<i>Currently there is no history of dam failure in Archer County or the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst.</i>

**Development Trends**

*Archer County and the Cities of Archer City, Holliday, City of Lakeside, Megargel, Scotland, and Windthorst are increasing in population. Archer County as a whole increases 112 persons per year. Archer County has an economy based largely on ranching, agriculture and oil production. City of Lakeside City residents mostly work in the City of Wichita Falls however; this trend does not reflect the social economic classification of the other cities in Archer County. Archer County and its surrounding cities do not qualify as small and impoverished communities.*

<b><i>Small and Impoverished Communities</i></b>	<b>Yes</b>	<b>No</b>
<i>Archer County</i>		<b>X</b>
<i>City of Archer City</i>		<b>X</b>

City of Holliday		X
City of Lakeside City		X
City of Megargel		X
City of Scotland		X
City of Windthorst		X

### **Analysis of Archer County**

***A small, impoverished community must meet all of the following criteria:***

1. *Must be a community of 3,000 or fewer individuals that is identified by the State as a rural community, and is not a remote area within the corporate boundaries of a larger city*
  - ***According to the 2000 US Census report the unincorporated Archer County currently has a population of 3,395 people***
  
2. *Must be economically disadvantaged, with residents having an average per capita annual income not exceeding 80 percent of the national per capita income, based on best available data (The Department of Commerce, Bureau of Economic Analysis (BEA) website states that the per capita personal income for the United States in 2003 was \$31,619. (80% of \$31,619 is \$25,295.20)*
  - ***Archer County Per Capita Income according to the 2000 U. S. Census is \$27,107 which does exceed 80% of the national per capita income which is reported by The Department of Commerce, Bureau of Economic Analysis to be \$25,295.20***
  
3. *Must have a local unemployment rate that exceeds by one percentage point or more the most recently reported, average yearly national unemployment rate. (According to the U.S. Bureau of Labor Statistics (USBL), the current average unemployment rate for 2004 is 6.0 percent.*
  - ***According to the Texas Workforce Commission: Texas Labor Market Information the Archer County unemployment rate is 2.5% which does not exceed the national average by one percentage point.***

### Analysis of City of Archer City

**A small, impoverished community must meet all of the following criteria:**

4. *Must be a community of 3,000 or fewer individuals that is identified by the State as a rural community, and is not a remote area within the corporate boundaries of a larger city*
  - **According to the 2000 US Census report the City of Archer City has a population of 1,848 people**
  
5. *Must be economically disadvantaged, with residents having an average per capita annual income not exceeding 80 percent of the national per capita income, based on best available data (The Department of Commerce, Bureau of Economic Analysis (BEA) website states that the per capita personal income for the United States in 2003 was \$31,619. (80% of \$31,619 is \$25,295.20)*
  - **City of Archer City average Per Capita Income according to the 2000 U. S. Census is \$29,886 which does exceed 80% of the national per capita income which is reported by The Department of Commerce, Bureau of Economic Analysis to be \$25,295.20**
  
6. *Must have a local unemployment rate that exceeds by one percentage point or more the most recently reported, average yearly national unemployment rate. (According to the U.S. Bureau of Labor Statistics (USBL), the current average unemployment rate for 2004 is 6.0 percent.*
  - **According to the Texas Workforce Commission: Texas Labor Market Information the City of Archer City unemployment rate is 5.4% which does not exceed the national average by one percentage point.**

### Analysis of City of Holliday

**A small, impoverished community must meet all of the following criteria:**

7. *Must be a community of 3,000 or fewer individuals that is identified by the State as a rural community, and is not a remote area within the corporate boundaries of a larger city*

- **According to the 2000 US Census report the City of Holliday has a population of 1,632 people**
8. *Must be economically disadvantaged, with residents having an average per capita annual income not exceeding 80 percent of the national per capita income, based on best available data (The Department of Commerce, Bureau of Economic Analysis (BEA) website states that the per capita personal income for the United States in 2003 was \$31,619. (80% of \$31,619 is \$25,295.20)*
- **City of Holliday average Per Capita Income according to the 2000 U. S. Census is \$32,857.00 which does exceed 80% of the national per capita income which is reported by The Department of Commerce, Bureau of Economic Analysis to be \$25,295.20**
9. *Must have a local unemployment rate that exceeds by one percentage point or more the most recently reported, average yearly national unemployment rate. (According to the U.S. Bureau of Labor Statistics (USBL), the current average unemployment rate for 2004 is 6.0 percent.)*
- **According to the Texas Workforce Commission: Texas Labor Market Information the City of Holliday unemployment rate is 4.8 which does not exceed the national average by one percentage point.**

#### Analysis of City of Lakeside City

**A small, impoverished community must meet all of the following criteria:**

10. *Must be a community of 3,000 or fewer individuals that is identified by the State as a rural community, and is not a remote area within the corporate boundaries of a larger city*
- **According to the 2000 US Census report the City of Lakeside City has a population of 984 people**
11. *Must be economically disadvantaged, with residents having an average per capita annual income not exceeding 80 percent of the national per capita income, based on best available data (The Department of Commerce, Bureau of Economic Analysis (BEA) website states that the per capita personal income for the United States in 2003 was \$31,619. (80% of \$31,619 is \$25,295.20)*

- **City of Lakeside City average Per Capita Income according to the 2000 U. S. Census is \$58,672.00 which does exceed 80% of the national per capita income which is reported by The Department of Commerce, Bureau of Economic Analysis to be \$25,295.20**
12. *Must have a local unemployment rate that exceeds by one percentage point or more the most recently reported, average yearly national unemployment rate. (According to the U.S. Bureau of Labor Statistics (USBL), the current average unemployment rate for 2004 is 6.0 percent.*
- **According to the Texas Workforce Commission: Texas Labor Market Information the City of Lakeside City unemployment rate is 3.one percentage point which does not exceed the national average by one percentage point.**

**Analysis of City of Megargel**

**A small, impoverished community must meet all of the following criteria:**

13. *Must be a community of 3,000 or fewer individuals that is identified by the State as a rural community, and is not a remote area within the corporate boundaries of a larger city*
- **According to the 2000 US Census report the City of Megargel has a population of 248 people**
14. *Must be economically disadvantaged, with residents having an average per capita annual income not exceeding 80 percent of the national per capita income, based on best available data (The Department of Commerce, Bureau of Economic Analysis (BEA) website states that the per capita personal income for the United States in 2003 was \$31,619. (80% of \$31,619 is \$25,295.20)*
- **City of Megargel average Per Capita Income according to the 2000 U. S. Census is \$30,000 which exceeds 80% of the national per capita income which is reported by The Department of Commerce, Bureau of Economic Analysis to be \$25,295.20**
15. *Must have a local unemployment rate that exceeds by one percentage point or more the most recently reported, average yearly national unemployment rate. (According to the U.S. Bureau of Labor Statistics (USBL), the current average unemployment rate for 2004 is 6.0 percent.*



- **According to the Texas Workforce Commission: Texas Labor Market Information the City of Megargel unemployment rate is 5.3% which does not exceed the national average by 1.5%.**

### Analysis of City of Scotland

**A small, impoverished community must meet all of the following criteria:**

16. *Must be a community of 3,000 or fewer individuals that is identified by the State as a rural community, and is not a remote area within the corporate boundaries of a larger city*

- **According to the 2000 US Census report the City of Scotland has a population of 438 people**

17. *Must be economically disadvantaged, with residents having an average per capita annual income not exceeding 80 percent of the national per capita income, based on best available data (The Department of Commerce, Bureau of Economic Analysis (BEA) website states that the per capita personal income for the United States in 2003 was \$31,619. (80% of \$31,619 is \$25,295.20)*

- **City of Scotland average Per Capita Income according to the 2000 U. S. Census is \$37,083 which does exceed 80% of the national per capita income which is reported by The Department of Commerce, Bureau of Economic Analysis to be \$25,295.20**

18. *Must have a local unemployment rate that exceeds by one percentage point or more the most recently reported, average yearly national unemployment rate. (According to the U.S. Bureau of Labor Statistics (USBL), the current average unemployment rate for 2004 is 6.0 percent.*

- **According to the Texas Workforce Commission: Texas Labor Market Information City of Scotland's unemployment rate is 0 which does not meet one percentage point need to make City of Scotland a small and impoverished community**

### Analysis of City of Windthorst

**A small, impoverished community must meet all of the following criteria:**

19. *Must be a community of 3,000 or fewer individuals that is identified by the State as a rural community, and is not a remote area within the corporate boundaries of a larger city*

- **According to the 2000 US Census report the City of Windthorst has a population of 440 people**

20. *Must be economically disadvantaged, with residents having an average per capita annual income not exceeding 80 percent of the national per capita income, based on best available data (The Department of Commerce, Bureau of Economic Analysis (BEA) website states that the per capita personal income for the United States in 2003 was \$31,619. (80% of \$31,619 is \$25,295.20)*

- **City of Windthorst average Per Capita Income according to the 2000 U. S. Census is \$37,708 which does exceed 80% of the national per capita income which is reported by The Department of Commerce, Bureau of Economic Analysis to be \$25,295.20**

21. *Must have a local unemployment rate that exceeds by one percentage point or more the most recently reported, average yearly national unemployment rate. (According to the U.S. Bureau of Labor Statistics (USBL), the current average unemployment rate for 2004 is 6.0 percent.*

- **According to the Texas Workforce Commission: Texas Labor Market Information the City of Windthorst unemployment rate is 0 which does not met one percentage point need to make City of Scotland a small and impoverished community.**

### **Loss Estimates:**

*Archer County the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst  
Estimated Total Losses from Flooding*

<i>Description of Structure</i>	<i>Structure Loss</i>		<i>Content Loss</i>		<i>Function Loss</i>		<i>Total Loss</i>
<b>Archer City</b>							
AMERICAN LEGION	\$ 152,320.25	+	\$ 152,320.25	+	\$ 14,830.35	=	\$ 319,470.85
ARCHER CITY ELDERLY HOUSING	\$ 145,804.25	+	\$ 72,902.13	+	\$ 20,895.09	=	\$ 239,601.47
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 344,862.00	+	\$ 172,431.00	+	\$ 44,882.03	=	\$ 562,175.03
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 167,604.50	+	\$ 83,802.25	+	\$ 21,812.85	=	\$ 273,219.60
ARCHER CITY ISD	\$ 37,969.75	+	\$ 37,969.75	+	\$ 5,802.08	=	\$ 81,741.58
ARCHER LODGE #708	\$ 132,048.00	+	\$ 132,048.00	+	\$ 12,855.91	=	\$ 276,951.91
ASSEMBLY OF GOD CHURCH	\$ 171,195.00	+	\$ 171,195.00	+	\$ 19,322.65	=	\$ 361,712.65
CHURCH OF CHRIST	\$ 76,924.75	+	\$ 76,924.75	+	\$ 8,682.77	=	\$ 162,532.27
CITY OF ARCHER CITY (N. CENTER)	\$ 119,680.00	+	\$ 119,680.00	+	\$ 17,346.06	=	\$ 256,706.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 153,274.00	+	\$ 153,274.00	+	\$ 22,214.85	=	\$ 328,762.85
FAITH MEMORIAL BAPTIST CHURCH	\$ 264,420.00	+	\$ 264,420.00	+	\$ 29,844.96	=	\$ 558,684.96
FIRST CHRISTIAN CHURCH	\$ 108,932.00	+	\$ 108,932.00	+	\$ 12,295.23	=	\$ 230,159.23
FIRST UNITED METHODIST CHURCH	\$ 204,840.75	+	\$ 204,840.75	+	\$ 23,120.34	=	\$ 432,801.84
OLNEY/HAMITON HOSPITAL	\$ 116,398.75	+	\$ 174,598.13	+	\$ 33,085.31	=	\$ 324,082.19
WOOD FAMILY ENTERPRISES	\$ 13,350.00	+	\$ 6,675.00	+	\$ 1,913.16	=	\$ 21,938.16
<b>Archer County</b>							
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 28,710.00	+	\$ 28,710.00	+	\$ 4,536.28	=	\$ 61,956.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 301,627.50	+	\$ 301,627.50	+	\$ 29,367.12	=	\$ 632,622.12

ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 32,500.00	+	\$ 48,750.00	+	\$ 3,476.53	=	\$ 84,726.53
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 17,864.00	+	\$ 17,864.00	+	\$ 2,589.33	=	\$ 38,317.33
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 44,462.00	+	\$ 44,462.00	+	\$ 7,025.63	=	\$ 95,949.63
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 27,427.50	+	\$ 41,141.25	+	\$ 8,333.01	=	\$ 76,901.76
<b>Holliday</b>							
ASSEMBLY OF GOD CHURCH	\$ 153,680.00	+	\$ 153,680.00	+	\$ 17,346.06	=	\$ 324,706.06
CHURCH OF CHRIST	\$ 182,269.00	+	\$ 182,269.00	+	\$ 20,572.81	=	\$ 385,110.81
<b>Description of Structure</b>	<b>Structure Loss</b>		<b>Content Loss</b>		<b>Function Loss</b>		<b>Total Loss</b>
<b>Holliday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 49,367.50	+	\$ 74,051.25	+	\$ 5,280.22	=	\$ 128,698.97
LIBRARY (S. MAIN)	\$ 97,464.00	+	\$ 97,464.00	+	\$ 9,488.99	=	\$ 204,416.99
PUBLIC WORKS (W. CHINA)	\$ 125,925.00	+	\$ 188,887.50	+	\$ 38,256.80	=	\$ 353,069.30
WATER TOWER (E. CHESTNUT)	\$ 4,657.50	+	\$ 6,986.25	+	\$ 1,415.45	=	\$ 13,059.20
<b>Lakeside City</b>							
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 162,500.00	+	\$ 243,750.00	+	\$ 17,380.85	=	\$ 423,630.85
<b>Megargel</b>							
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 59,607.50	+	\$ 59,607.50	+	\$ 6,727.74	=	\$ 125,942.74
CHURCH OF CHRIST	\$ 81,162.25	+	\$ 81,162.25	+	\$ 9,160.54	=	\$ 171,485.04
CITY HALL & FIRE STATION	\$ 46,995.00	+	\$ 70,492.50	+	\$ 5,026.92	=	\$ 122,514.42
MEGARGEL BAPTIST CHURCH	\$ 124,243.50	+	\$ 124,243.50	+	\$ 14,023.23	=	\$ 262,510.23
MEGARGEL ISD (301 FIRST ST)	\$	+	\$	+	\$ 973.65	=	\$ 13,713.65

	6,370.00		6,370.00				
MEGARGEL ISD (601 FIRST ST)	\$ 336,973.00	+	\$ 336,973.00	+	\$ 51,489.91	=	\$ 725,435.91
MEGARGEL ISD (CEDAR ST)	\$ 199,699.50	+	\$ 199,699.50	+	\$ 30,514.31	=	\$ 429,913.31
METHODIST CHURCH OF MEGARGEL	\$ 148,369.00	+	\$ 148,369.00	+	\$ 16,746.56	=	\$ 313,484.56
<b>Scotland</b>							
CATHOLIC DIOCESE OF FT. WORTH	\$ 97,632.00	+	\$ 97,632.00	+	\$ 11,019.49	=	\$ 206,283.49
CITY OF SCOTLAND - SHOP B	\$ 39,600.00	+	\$ 39,600.00	+	\$ 6,257.20	=	\$ 85,457.20
COMMUNITY BAPTIST CHURCH	\$ 26,696.25	+	\$ 26,696.25	+	\$ 3,012.96	=	\$ 56,405.46
KNIGHTS OF COLUMBUS HALL	\$ 58,950.00	+	\$ 58,950.00	+	\$ 5,739.41	=	\$ 123,639.41
SCOTLAND BAPTIST CHURCH	\$ 90,400.00	+	\$ 90,400.00	+	\$ 10,203.08	=	\$ 191,003.08
<b>Windthorst</b>							
CITY HALL	\$ 33,924.00	+	\$ 33,924.00	+	\$ 4,916.83	=	\$ 72,764.83
KNIGHTS OF COLUMBUS HALL	\$ 107,944.00	+	\$ 107,944.00	+	\$ 10,509.90	=	\$ 226,397.90
ST. MARYS CATHOLIC CHURCH	\$ 986,009.75	+	\$ 986,009.75	+	\$ 111,290.33	=	\$ 2,083,309.83
WINDTHORST ISD	\$ 1,604,079.75	+	\$ 17,627.25	+	\$ 245,105.68	=	\$ 1,866,812.68

**Total Loss** \$ 14,330,780.21

**Windstorms**

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst  
 Estimated Total Losses from Windstorms

Description of Structure	Structure Loss	Content Loss	Function Loss	Total Loss
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<b>Archer City</b>						
AMERICAN LEGION	\$ 304,640.50	+	\$ 304,640.50	+	\$ 14,830.35	= \$ 624,111.35
ARCHER CITY ELDERLY HOUSING	\$ 291,608.50	+	\$ 145,804.25	+	\$ 20,895.09	= \$ 458,307.84
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 689,724.00	+	\$ 344,862.00	+	\$ 44,882.03	= \$ 1,079,468.03
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 335,209.00	+	\$ 167,604.50	+	\$ 21,812.85	= \$ 524,626.35
ARCHER CITY ISD	\$ 75,939.50	+	\$ 75,939.50	+	\$ 5,802.08	= \$ 157,681.08
ARCHER LODGE #708	\$ 264,096.00	+	\$ 264,096.00	+	\$ 12,855.91	= \$ 541,047.91
ASSEMBLY OF GOD CHURCH	\$ 342,390.00	+	\$ 342,390.00	+	\$ 19,322.65	= \$ 704,102.65
CHURCH OF CHRIST	\$ 153,849.50	+	\$ 153,849.50	+	\$ 8,682.77	= \$ 316,381.77
CITY OF ARCHER CITY (N. CENTER)	\$ 239,360.00	+	\$ 239,360.00	+	\$ 17,346.06	= \$ 496,066.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 306,548.00	+	\$ 306,548.00	+	\$ 22,214.85	= \$ 635,310.85
FAITH MEMORIAL BAPTIST CHURCH	\$ 528,840.00	+	\$ 528,840.00	+	\$ 29,844.96	= \$ 1,087,524.96
FIRST CHRISTIAN CHURCH	\$ 217,864.00	+	\$ 217,864.00	+	\$ 12,295.23	= \$ 448,023.23
FIRST UNITED METHODIST CHURCH	\$ 409,681.50	+	\$ 409,681.50	+	\$ 23,120.34	= \$ 842,483.34
OLNEY/HAMITON HOSPITAL	\$ 232,797.50	+	\$ 349,196.25	+	\$ 33,085.31	= \$ 615,079.06
WOOD FAMILY ENTERPRISES	\$ 26,700.00	+	\$ 13,350.00	+	\$ 1,913.16	= \$ 41,963.16
<b>Archer County</b>						
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 57,420.00	+	\$ 57,420.00	+	\$ 4,536.28	= \$ 119,376.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 603,255.00	+	\$ 603,255.00	+	\$ 29,367.12	= \$ 1,235,877.12
ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 65,000.00	+	\$ 97,500.00	+	\$ 3,476.53	= \$ 165,976.53

ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 35,728.00	+	\$ 35,728.00	+	\$ 2,589.33	=	\$ 74,045.33
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 88,924.00	+	\$ 88,924.00	+	\$ 7,025.63	=	\$ 184,873.63
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 54,855.00	+	\$ 82,282.50	+	\$ 8,333.01	=	\$ 145,470.51
<b>Holiday</b>							
ASSEMBLY OF GOD CHURCH	\$ 307,360.00	+	\$ 307,360.00	+	\$ 17,346.06	=	\$ 632,066.06
CHURCH OF CHRIST	\$ 364,538.00	+	\$ 364,538.00	+	\$ 20,572.81	=	\$ 749,648.81
<i>Description of Structure</i>	<i>Structure Loss</i>		<i>Content Loss</i>		<i>Function Loss</i>		<i>Total Loss</i>
<b>Holiday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 98,735.00	+	\$ 148,102.50	+	\$ 5,280.22	=	\$ 252,117.72
LIBRARY (S. MAIN)	\$ 194,928.00	+	\$ 194,928.00	+	\$ 9,488.99	=	\$ 399,344.99
PUBLIC WORKS (W. CHINA)	\$ 251,850.00	+	\$ 377,775.00	+	\$ 38,256.80	=	\$ 667,881.80
WATER TOWER (E. CHESTNUT)	\$ 9,315.00	+	\$ 13,972.50	+	\$ 1,415.45	=	\$ 24,702.95
<b>Lakeside City</b>							
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 325,000.00	+	\$ 487,500.00	+	\$ 17,380.85	=	\$ 829,880.85
<b>Megargel</b>							
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 119,215.00	+	\$ 119,215.00	+	\$ 6,727.74	=	\$ 245,157.74
CHURCH OF CHRIST	\$ 162,324.50	+	\$ 162,324.50	+	\$ 9,160.54	=	\$ 333,809.54
CITY HALL & FIRE STATION	\$ 93,990.00	+	\$ 140,985.00	+	\$ 5,026.92	=	\$ 240,001.92
MEGARGEL BAPTIST CHURCH	\$ 248,487.00	+	\$ 248,487.00	+	\$ 14,023.23	=	\$ 510,997.23
MEGARGEL ISD (301 FIRST ST)	\$ 12,740.00	+	\$ 12,740.00	+	\$ 973.65	=	\$ 26,453.65
MEGARGEL ISD (601 FIRST ST)	\$	+	\$	+	\$	=	\$

	673,946.00		673,946.00		51,489.91		1,399,381.91
MEGARGEL ISD (CEDAR ST)	\$ 399,399.00	+	\$ 399,399.00	+	\$ 30,514.31	=	\$ 829,312.31
METHODIST CHURCH OF MEGARGEL	\$ 296,738.00	+	\$ 296,738.00	+	\$ 16,746.56	=	\$ 610,222.56
<b>Scotland</b>							
CATHOLIC DIOCESE OF FT. WORTH	\$ 195,264.00	+	\$ 195,264.00	+	\$ 11,019.49	=	\$ 401,547.49
CITY OF SCOTLAND - SHOP B	\$ 79,200.00	+	\$ 79,200.00	+	\$ 6,257.20	=	\$ 164,657.20
COMMUNITY BAPTIST CHURCH	\$ 53,392.50	+	\$ 53,392.50	+	\$ 3,012.96	=	\$ 109,797.96
KNIGHTS OF COLUMBUS HALL	\$ 117,900.00	+	\$ 117,900.00	+	\$ 5,739.41	=	\$ 241,539.41
SCOTLAND BAPTIST CHURCH	\$ 180,800.00	+	\$ 180,800.00	+	\$ 10,203.08	=	\$ 371,803.08
<b>Windthorst</b>							
CITY HALL	\$ 67,848.00	+	\$ 67,848.00	+	\$ 4,916.83	=	\$ 140,612.83
KNIGHTS OF COLUMBUS HALL	\$ 215,888.00	+	\$ 215,888.00	+	\$ 10,509.90	=	\$ 442,285.90
ST. MARYS CATHOLIC CHURCH	\$ 1,972,019.50	+	\$ 1,972,019.50	+	\$ 111,290.33	=	\$ 4,055,329.33
WINDTHORST ISD	\$ 3,208,159.50	+	\$ 35,254.50	+	\$ 245,105.68	=	\$ 3,488,519.68

**Total Loss** **\$27,664,869.96**

### Tornadoes

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst  
**Estimated Total Losses from Tornadoes**

Description of Structure	Structure Loss		Content Loss		Function Loss		Total Loss
<b>Archer City</b>							
AMERICAN LEGION	\$ 609,281.00	+	\$ 609,281.00	+	\$ 14,830.35	=	\$ 1,233,392.35



ARCHER CITY ELDERLY HOUSING	\$ 583,217.00	+	\$ 291,608.50	+	\$ 20,895.09	=	\$ 895,720.59
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 1,379,448.00	+	\$ 689,724.00	+	\$ 44,882.03	=	\$ 2,114,054.03
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 670,418.00	+	\$ 335,209.00	+	\$ 21,812.85	=	\$ 1,027,439.85
ARCHER CITY ISD	\$ 151,879.00	+	\$ 151,879.00	+	\$ 5,802.08	=	\$ 309,560.08
ARCHER LODGE #708	\$ 528,192.00	+	\$ 528,192.00	+	\$ 12,855.91	=	\$ 1,069,239.91
ASSEMBLY OF GOD CHURCH	\$ 684,780.00	+	\$ 684,780.00	+	\$ 19,322.65	=	\$ 1,388,882.65
CHURCH OF CHRIST	\$ 307,699.00	+	\$ 307,699.00	+	\$ 8,682.77	=	\$ 624,080.77
CITY OF ARCHER CITY (N. CENTER)	\$ 478,720.00	+	\$ 478,720.00	+	\$ 17,346.06	=	\$ 974,786.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 613,096.00	+	\$ 613,096.00	+	\$ 22,214.85	=	\$ 1,248,406.85
FAITH MEMORIAL BAPTIST CHURCH	\$ 1,057,680.00	+	\$ 1,057,680.00	+	\$ 29,844.96	=	\$ 2,145,204.96
FIRST CHRISTIAN CHURCH	\$ 435,728.00	+	\$ 435,728.00	+	\$ 12,295.23	=	\$ 883,751.23
FIRST UNITED METHODIST CHURCH	\$ 819,363.00	+	\$ 819,363.00	+	\$ 23,120.34	=	\$ 1,661,846.34
OLNEY/HAMITON HOSPITAL	\$ 465,595.00	+	\$ 698,392.50	+	\$ 33,085.31	=	\$ 1,197,072.81
WOOD FAMILY ENTERPRISES	\$ 53,400.00	+	\$ 26,700.00	+	\$ 1,913.16	=	\$ 82,013.16
<b>Archer County</b>							
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 114,840.00	+	\$ 114,840.00	+	\$ 4,536.28	=	\$ 234,216.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 1,206,510.00	+	\$ 1,206,510.00	+	\$ 29,367.12	=	\$ 2,442,387.12
ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 130,000.00	+	\$ 195,000.00	+	\$ 3,476.53	=	\$ 328,476.53
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 71,456.00	+	\$ 71,456.00	+	\$ 2,589.33	=	\$ 145,501.33

ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 177,848.00	+	\$ 177,848.00	+	\$ 7,025.63	=	\$ 362,721.63
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 109,710.00	+	\$ 164,565.00	+	\$ 8,333.01	=	\$ 282,608.01
<b>Holliday</b>							
ASSEMBLY OF GOD CHURCH	\$ 614,720.00	+	\$ 614,720.00	+	\$ 17,346.06	=	\$ 1,246,786.06
CHURCH OF CHRIST	\$ 729,076.00	+	\$ 729,076.00	+	\$ 20,572.81	=	\$ 1,478,724.81
<b>Description of Structure</b>	<b>Structure Loss</b>		<b>Content Loss</b>		<b>Function Loss</b>		<b>Total Loss</b>
<b>Holliday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 197,470.00	+	\$ 296,205.00	+	\$ 5,280.22	=	\$ 498,955.22
LIBRARY (S. MAIN)	\$ 389,856.00	+	\$ 389,856.00	+	\$ 9,488.99	=	\$ 789,200.99
PUBLIC WORKS (W. CHINA)	\$ 503,700.00	+	\$ 755,550.00	+	\$ 38,256.80	=	\$ 1,297,506.80
WATER TOWER (E. CHESTNUT)	\$ 18,630.00	+	\$ 27,945.00	+	\$ 1,415.45	=	\$ 47,990.45
<b>Lakeside City</b>							
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 650,000.00	+	\$ 975,000.00	+	\$ 17,380.85	=	\$ 1,642,380.85
<b>Megargel</b>							
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 238,430.00	+	\$ 238,430.00	+	\$ 6,727.74	=	\$ 483,587.74
CHURCH OF CHRIST	\$ 324,649.00	+	\$ 324,649.00	+	\$ 9,160.54	=	\$ 658,458.54
CITY HALL & FIRE STATION	\$ 187,980.00	+	\$ 281,970.00	+	\$ 5,026.92	=	\$ 474,976.92
MEGARGEL BAPTIST CHURCH	\$ 496,974.00	+	\$ 496,974.00	+	\$ 14,023.23	=	\$ 1,007,971.23
MEGARGEL ISD (301 FIRST ST)	\$ 25,480.00	+	\$ 25,480.00	+	\$ 973.65	=	\$ 51,933.65
MEGARGEL ISD (601 FIRST ST)	\$ 1,347,892.00	+	\$ 1,347,892.00	+	\$ 51,489.91	=	\$ 2,747,273.91

MEGARGEL ISD (CEDAR ST)	\$ 798,798.00	+	\$ 798,798.00	+	\$ 30,514.31	=	\$ 1,628,110.31
METHODIST CHURCH OF MEGARGEL	\$ 593,476.00	+	\$ 593,476.00	+	\$ 16,746.56	=	\$ 1,203,698.56
<b>Scotland</b>							
CATHOLIC DIOCESE OF FT. WORTH	\$ 390,528.00	+	\$ 390,528.00	+	\$ 11,019.49	=	\$ 792,075.49
CITY OF SCOTLAND - SHOP B	\$ 158,400.00	+	\$ 158,400.00	+	\$ 6,257.20	=	\$ 323,057.20
COMMUNITY BAPTIST CHURCH	\$ 106,785.00	+	\$ 106,785.00	+	\$ 3,012.96	=	\$ 216,582.96
KNIGHTS OF COLUMBUS HALL	\$ 235,800.00	+	\$ 235,800.00	+	\$ 5,739.41	=	\$ 477,339.41
SCOTLAND BAPTIST CHURCH	\$ 361,600.00	+	\$ 361,600.00	+	\$ 10,203.08	=	\$ 733,403.08
<b>Windthorst</b>							
CITY HALL	\$ 135,696.00	+	\$ 135,696.00	+	\$ 4,916.83	=	\$ 276,308.83
KNIGHTS OF COLUMBUS HALL	\$ 431,776.00	+	\$ 431,776.00	+	\$ 10,509.90	=	\$ 874,061.90
ST. MARYS CATHOLIC CHURCH	\$ 3,944,039.00	+	\$ 3,944,039.00	+	\$ 111,290.33	=	\$ 7,999,368.33
WINDTHORST ISD	\$ 6,416,319.00	+	\$ 70,509.00	+	\$ 245,105.68	=	\$ 6,731,933.68

**Total Loss**

**\$54,333,049.46**

**Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst**

**Estimated Total Losses from Wildfires**

Description of Structure	Structure Loss		Content Loss		Function Loss		Total Loss
<b>Archer City</b>							
AMERICAN LEGION	\$ 121,856.20	+	\$ 121,856.20	+	\$ 14,830.35	=	\$ 258,542.75
ARCHER CITY ELDERLY HOUSING	\$ 116,643.40	+	\$ 58,321.70	+	\$ 20,895.09	=	\$ 195,860.19
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 275,889.60	+	\$ 137,944.80	+	\$ 44,882.03	=	\$ 458,716.43
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 134,083.60	+	\$ 67,041.80	+	\$ 21,812.85	=	\$ 222,938.25
ARCHER CITY ISD	\$ 30,375.80	+	\$ 30,375.80	+	\$ 5,802.08	=	\$ 66,553.68
ARCHER LODGE #708	\$ 105,638.40	+	\$ 105,638.40	+	\$ 12,855.91	=	\$ 224,132.71
ASSEMBLY OF GOD CHURCH	\$ 136,956.00	+	\$ 136,956.00	+	\$ 19,322.65	=	\$ 293,234.65
CHURCH OF CHRIST	\$ 61,539.80	+	\$ 61,539.80	+	\$ 8,682.77	=	\$ 131,762.37
CITY OF ARCHER CITY (N. CENTER)	\$ 95,744.00	+	\$ 95,744.00	+	\$ 17,346.06	=	\$ 208,834.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 122,619.20	+	\$ 122,619.20	+	\$ 22,214.85	=	\$ 267,453.25
FAITH MEMORIAL BAPTIST CHURCH	\$ 211,536.00	+	\$ 211,536.00	+	\$ 29,844.96	=	\$ 452,916.96
FIRST CHRISTIAN CHURCH	\$ 87,145.60	+	\$ 87,145.60	+	\$ 12,295.23	=	\$ 186,586.43
FIRST UNITED METHODIST CHURCH	\$ 163,872.60	+	\$ 163,872.60	+	\$ 23,120.34	=	\$ 350,865.54
OLNEY/HAMITON HOSPITAL	\$ 93,119.00	+	\$ 139,678.50	+	\$ 33,085.31	=	\$ 265,882.81
WOOD FAMILY ENTERPRISES	\$ 10,680.00	+	\$ 5,340.00	+	\$ 1,913.16	=	\$ 17,933.16
<b>Archer County</b>							
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 22,968.00	+	\$ 22,968.00	+	\$ 4,536.28	=	\$ 50,472.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 241,302.00	+	\$ 241,302.00	+	\$ 29,367.12	=	\$ 511,971.12
ARCHER COUNTY PRECINCT BARN (LOCATED IN	\$	+	\$	+	\$	=	\$ 68,476.53

MEGARGEL)	26,000.00		39,000.00		3,476.53		
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 14,291.20	+	\$ 14,291.20	+	\$ 2,589.33	=	\$ 31,171.73
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 35,569.60	+	\$ 35,569.60	+	\$ 7,025.63	=	\$ 78,164.83
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 21,942.00	+	\$ 32,913.00	+	\$ 8,333.01	=	\$ 63,188.01
<b>Holiday</b>							
ASSEMBLY OF GOD CHURCH	\$ 122,944.00	+	\$ 122,944.00	+	\$ 17,346.06	=	\$ 263,234.06
CHURCH OF CHRIST	\$ 145,815.20	+	\$ 145,815.20	+	\$ 20,572.81	=	\$ 312,203.21
<b>Description of Structure</b>	<b>Structure Loss</b>		<b>Content Loss</b>		<b>Function Loss</b>		<b>Total Loss</b>
<b>Holiday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 39,494.00	+	\$ 59,241.00	+	\$ 5,280.22	=	\$ 104,015.22
LIBRARY (S. MAIN)	\$ 77,971.20	+	\$ 77,971.20	+	\$ 9,488.99	=	\$ 165,431.39
PUBLIC WORKS (W. CHINA)	\$ 100,740.00	+	\$ 151,110.00	+	\$ 38,256.80	=	\$ 290,106.80
WATER TOWER (E. CHESTNUT)	\$ 3,726.00	+	\$ 5,589.00	+	\$ 1,415.45	=	\$ 10,730.45
<b>Lakeside City</b>							
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 130,000.00	+	\$ 195,000.00	+	\$ 17,380.85	=	\$ 342,380.85
<b>Megargel</b>							
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 47,686.00	+	\$ 47,686.00	+	\$ 6,727.74	=	\$ 102,099.74
CHURCH OF CHRIST	\$ 64,929.80	+	\$ 64,929.80	+	\$ 9,160.54	=	\$ 139,020.14
CITY HALL & FIRE STATION	\$ 37,596.00	+	\$ 56,394.00	+	\$ 5,026.92	=	\$ 99,016.92
MEGARGEL BAPTIST CHURCH	\$ 99,394.80	+	\$ 99,394.80	+	\$ 14,023.23	=	\$ 212,812.83
MEGARGEL ISD (301 FIRST ST)	\$ 5,096.00	+	\$ 5,096.00	+	\$ 973.65	=	\$ 11,165.65

MEGARGEL ISD (601 FIRST ST)	\$ 269,578.40	+	\$ 269,578.40	+	\$ 51,489.91	=	\$ 590,646.71
MEGARGEL ISD (CEDAR ST)	\$ 159,759.60	+	\$ 159,759.60	+	\$ 30,514.31	=	\$ 350,033.51
METHODIST CHURCH OF MEGARGEL	\$ 118,695.20	+	\$ 118,695.20	+	\$ 16,746.56	=	\$ 254,136.96
<b>Scotland</b>							
CATHOLIC DIOCESE OF FT. WORTH	\$ 78,105.60	+	\$ 78,105.60	+	\$ 11,019.49	=	\$ 167,230.69
CITY OF SCOTLAND - SHOP B	\$ 31,680.00	+	\$ 31,680.00	+	\$ 6,257.20	=	\$ 69,617.20
COMMUNITY BAPTIST CHURCH	\$ 21,357.00	+	\$ 21,357.00	+	\$ 3,012.96	=	\$ 45,726.96
KNIGHTS OF COLUMBUS HALL	\$ 47,160.00	+	\$ 47,160.00	+	\$ 5,739.41	=	\$ 100,059.41
SCOTLAND BAPTIST CHURCH	\$ 72,320.00	+	\$ 72,320.00	+	\$ 10,203.08	=	\$ 154,843.08
<b>Windthorst</b>							
CITY HALL	\$ 27,139.20	+	\$ 27,139.20	+	\$ 4,916.83	=	\$ 59,195.23
KNIGHTS OF COLUMBUS HALL	\$ 86,355.20	+	\$ 86,355.20	+	\$ 10,509.90	=	\$ 183,220.30
ST. MARYS CATHOLIC CHURCH	\$ 788,807.80	+	\$ 788,807.80	+	\$ 111,290.33	=	\$ 1,688,905.93
WINDTHORST ISD	\$ 1,283,263.80	+	\$ 14,101.80	+	\$ 245,105.68	=	\$ 1,542,471.28

**Total Loss**

**\$11,663,962.26**

# Drought

## Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst Estimated Total Losses from Drought

Description of Structure	Structure Loss		Content Loss		Function Loss		Total Loss
<b>Archer City</b>							
AMERICAN LEGION	\$ 456,960.75	+	\$456,960.75	+	\$14,830.35	=	\$ 928,751.85
ARCHER CITY ELDERLY HOUSING	\$ 437,412.75	+	\$ 218,706.38	+	\$ 20,895.09	=	\$ 677,014.22
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$1,034,586.00	+	\$517,293.00	+	\$ 44,882.03	=	\$1,596,761.03
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$502,813.50	+	\$251,406.75	+	\$ 21,812.85	=	\$776,033.10
ARCHER CITY ISD	\$113,909.25	+	\$113,909.25	+	\$ 5,802.08	=	\$233,620.58
ARCHER LODGE #708	\$396,144.00	+	\$ 396,144.00	+	\$ 12,855.91	=	\$805,143.91
ASSEMBLY OF GOD CHURCH	\$513,585.00	+	\$513,585.00	+	\$19,322.65	=	\$1,046,492.65
CHURCH OF CHRIST	\$230,774.25	+	\$230,774.25	+	\$ 8,682.77	=	\$470,231.27
CITY OF ARCHER CITY (N. CENTER)	\$359,040.00	+	\$359,040.00	+	\$ 17,346.06	=	\$735,426.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$459,822.00	+	\$459,822.00	+	\$ 22,214.85	=	\$941,858.85
FAITH MEMORIAL BAPTIST CHURCH	\$793,260.00	+	\$793,260.00	+	\$ 29,844.96	=	\$1,616,364.96
FIRST CHRISTIAN CHURCH	\$326,796.00	+	\$326,796.00	+	\$ 12,295.23	=	\$665,887.23
FIRST UNITED METHODIST CHURCH	\$614,522.25	+	\$614,522.25	+	\$ 23,120.34	=	\$1,252,164.84
OLNEY/HAMITON HOSPITAL	\$349,196.25	+	\$523,794.38	+	\$ 33,085.31	=	\$906,075.94
WOOD FAMILY ENTERPRISES	\$40,050.00	+	\$20,025.00	+	\$ 1,913.16	=	\$61,988.16
<b>Archer County</b>							
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 86,130.00	+	\$ 86,130.00	+	\$ 4,536.28	=	\$ 176,796.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 904,882.50	+	\$ 904,882.50	+	\$ 29,367.12	=	\$ 1,839,132.12
ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 97,500.00	+	\$ 146,250.00	+	\$ 3,476.53	=	\$ 247,226.53
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 53,592.00	+	\$ 53,592.00	+	\$ 2,589.33	=	\$ 109,773.33
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 33,386.00	+	\$ 33,386.00	+	\$ 7,025.63	=	\$ 273,797.63
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 82,282.50	+	\$ 123,423.75	+	\$ 8,333.01	=	\$ 214,039.26
<b>Holliday</b>							
ASSEMBLY OF GOD CHURCH	\$ 461,040.00	+	\$ 461,040.00	+	\$ 17,346.06	=	\$ 939,426.06
CHURCH OF CHRIST	\$ 546,807.00	+	\$ 546,807.00	+	\$ 20,572.81	=	\$ 1,114,186.81
<b>Description of Structure</b>	<b>Structure Loss</b>		<b>Content Loss</b>		<b>Function Loss</b>		<b>Total Loss</b>
<b>Holliday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 148,102.50	+	\$ 222,153.75	+	\$ 5,280.22	=	\$ 375,536.47
LIBRARY (S. MAIN)	\$ 292,392.00	+	\$ 292,392.00	+	\$ 9,488.99	=	\$ 594,272.99
PUBLIC WORKS (W. CHINA)	\$ 377,775.00	+	\$ 566,662.50	+	\$ 38,256.80	=	\$ 982,694.30
WATER TOWER (E. CHESTNUT)	\$ 13,972.50	+	\$ 20,958.75	+	\$ 1,415.45	=	\$ 36,346.70
<b>Lakeside City</b>							
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 487,500.00	+	\$ 731,250.00	+	\$ 17,380.85	=	\$ 1,236,130.85

# Drought

<b>Megargel</b>						
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 178,822.50	+	\$ 178,822.50	+	\$ 6,727.74	= \$ 364,372.74
CHURCH OF CHRIST	\$ 243,486.75	+	\$ 243,486.75	+	\$ 9,160.54	= \$ 496,134.04
CITY HALL & FIRE STATION	\$ 140,985.00	+	\$ 211,477.50	+	\$ 5,026.92	= \$ 357,489.42
MEGARGEL BAPTIST CHURCH	\$ 372,730.50	+	\$ 372,730.50	+	\$ 14,023.23	= \$ 759,484.23
MEGARGEL ISD (301 FIRST ST)	\$ 19,110.00	+	\$ 19,110.00	+	\$ 973.65	= \$ 39,193.65
MEGARGEL ISD (601 FIRST ST)	\$1,010,919.00	+	\$ 1,010,919.00	+	\$ 51,489.91	= \$ 2,073,327.91
MEGARGEL ISD (CEDAR ST)	\$ 599,098.50	+	\$ 599,098.50	+	\$ 30,514.31	= \$ 1,228,711.31
METHODIST CHURCH OF MEGARGEL	\$ 445,107.00	+	\$ 445,107.00	+	\$ 16,746.56	= \$ 906,960.56
<b>Scotland</b>						
CATHOLIC DIOCESE OF FT. WORTH	\$ 292,896.00	+	\$ 292,896.00	+	\$ 11,019.49	= \$ 596,811.49
CITY OF SCOTLAND - SHOP B	\$ 118,800.00	+	\$ 118,800.00	+	\$ 6,257.20	= \$ 243,857.20
COMMUNITY BAPTIST CHURCH	\$ 80,088.75	+	\$ 80,088.75	+	\$ 3,012.96	= \$ 163,190.46
KNIGHTS OF COLUMBUS HALL	\$ 176,850.00	+	\$ 176,850.00	+	\$ 5,739.41	= \$ 359,439.41
SCOTLAND BAPTIST CHURCH	\$ 271,200.00	+	\$ 271,200.00	+	\$ 10,203.08	= \$ 552,603.08
<b>Windthorst</b>						
CITY HALL	\$ 101,772.00	+	\$ 101,772.00	+	\$ 4,916.83	= \$ 208,460.83
KNIGHTS OF COLUMBUS HALL	\$ 323,832.00	+	\$ 323,832.00	+	\$ 10,509.90	= \$ 658,173.90
ST. MARYS CATHOLIC CHURCH	\$2,958,029.25	+	\$ 2,958,029.25	+	\$ 111,290.33	= \$ 6,027,348.83
WINDTHORST ISD	\$4,812,239.25	+	\$ 52,881.75	+	\$ 245,105.68	= \$ 5,110,226.68
					<b>Total Loss</b>	<b>\$40,998,959.71</b>



**Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland  
and Windthorst**

**Estimated Total Losses from Extreme Heat**

Description of Structure	Replacement Value of Contents		Percentage Damage		Loss of Contents
<b>Archer City</b>					
AMERICAN LEGION	\$ 609,281.00	x	20%	=	\$ 121,856.20
ARCHER CITY ELDERLY HOUSING	\$ 291,608.50	x	20%	=	\$ 58,321.70
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 689,724.00	x	20%	=	\$ 137,944.80
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 335,209.00	x	20%	=	\$ 67,041.80
ARCHER CITY ISD	\$ 151,879.00	x	20%	=	\$ 30,375.80
ARCHER LODGE #708	\$ 528,192.00	x	20%	=	\$ 105,638.40
ASSEMBLY OF GOD CHURCH	\$ 684,780.00	x	20%	=	\$ 136,956.00
CHURCH OF CHRIST	\$ 307,699.00	x	20%	=	\$ 61,539.80
CITY OF ARCHER CITY (N. CENTER)	\$ 478,720.00	x	20%	=	\$ 95,744.00
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 613,096.00	x	20%	=	\$ 122,619.20
FAITH MEMORIAL BAPTIST CHURCH	\$ 1,057,680.00	x	20%	=	\$ 211,536.00
FIRST CHRISTIAN CHURCH	\$ 435,728.00	x	20%	=	\$ 87,145.60
FIRST UNITED METHODIST CHURCH	\$ 819,363.00	x	20%	=	\$ 163,872.60
OLNEY/HAMITON HOSPITAL	\$ 698,392.50	x	20%	=	\$ 139,678.50
WOOD FAMILY ENTERPRISES	\$ 26,700.00	x	20%	=	\$ 5,340.00
<b>Archer County</b>					
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 114,840.00	x	20%	=	\$ 22,968.00
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 1,206,510.00	x	20%	=	\$ 241,302.00
ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 195,000.00	x	20%	=	\$ 39,000.00
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 71,456.00	x	20%	=	\$ 14,291.20
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 177,848.00	x	20%	=	\$ 35,569.60
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 164,565.00	x	20%	=	\$ 32,913.00
<b>Holliday</b>					
ASSEMBLY OF GOD CHURCH	\$ 614,720.00	x	20%	=	\$ 122,944.00
CHURCH OF CHRIST	\$ 729,076.00	x	20%	=	\$ 145,815.20
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 296,205.00	x	20%	=	\$ 59,241.00
LIBRARY (S. MAIN)	\$ 389,856.00	x	20%	=	\$ 77,971.20
PUBLIC WORKS (W. CHINA)	\$ 755,550.00	x	20%	=	\$ 151,110.00
WATER TOWER (E. CHESTNUT)	\$ 27,945.00	x	20%	=	\$ 5,589.00
<b>Lakeside City</b>					
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 975,000.00	x	20%	=	\$ 195,000.00
<b>Megargel</b>					
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 238,430.00	x	20%	=	\$ 47,686.00
CHURCH OF CHRIST	\$ 324,649.00	x	20%	=	\$ 64,929.80
CITY HALL & FIRE STATION	\$ 281,970.00	x	20%	=	\$ 56,394.00
<b>Description of Structure</b>	<b>Replacement Value of Contents</b>		<b>Percent Damage</b>		<b>Loss to Contents</b>
<b>Megargel</b>					
MEGARGEL BAPTIST CHURCH	\$ 496,974.00	x	20%	=	\$ 99,394.80
MEGARGEL ISD (301 FIRST ST)	\$ 25,480.00	x	20%	=	\$ 5,096.00
MEGARGEL ISD (601 FIRST ST)	\$ 1,347,892.00	x	20%	=	\$ 269,578.40
MEGARGEL ISD (CEDAR ST)	\$ 798,798.00	x	20%	=	\$ 159,759.60
METHODIST CHURCH OF MEGARGEL	\$ 593,476.00	x	20%	=	\$ 118,695.20
<b>Scotland</b>					
CATHOLIC DIOCESE OF FT. WORTH	\$ 390,528.00	x	20%	=	\$ 78,105.60

CITY OF SCOTLAND - SHOP B	\$ 158,400.00	x	20%	=	\$ 31,680.00
COMMUNITY BAPTIST CHURCH	\$ 106,785.00	x	20%	=	\$ 21,357.00
KNIGHTS OF COLUMBUS HALL	\$ 235,800.00	x	20%	=	\$ 47,160.00
SCOTLAND BAPTIST CHURCH	\$ 361,600.00	x	20%	=	\$ 72,320.00
<b>Windthorst</b>					
CITY HALL	\$ 135,696.00	x	20%	=	\$ 27,139.20
KNIGHTS OF COLUMBUS HALL	\$ 431,776.00	x	20%	=	\$ 86,355.20
ST. MARYS CATHOLIC CHURCH	\$ 3,944,039.00	x	20%	=	\$ 788,807.80
WINDTHORST ISD	\$ 70,509.00	x	20%	=	\$ 14,101.80

**Total Loss to Contents \$ 4,677,885.00**

## Hail

### Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst Estimated Total Losses from Hail

Description of Structure	Structure Loss	Content Loss	Function Loss	Total Loss
<b>Archer City</b>				
AMERICAN LEGION	\$ 304,640.50	+ \$ 304,640.50	+ \$ 14,830.35	= \$ 624,111.35
ARCHER CITY ELDERLY HOUSING	\$ 291,608.50	+ \$ 145,804.25	+ \$ 20,895.09	= \$ 458,307.84
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 689,724.00	+ \$ 344,862.00	+ \$ 44,882.03	= \$ 1,079,468.03
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 335,209.00	+ \$ 167,604.50	+ \$ 21,812.85	= \$ 524,626.35
ARCHER CITY ISD	\$ 75,939.50	+ \$ 75,939.50	+ \$ 5,802.08	= \$ 157,681.08
ARCHER LODGE #708	\$ 264,096.00	+ \$ 264,096.00	+ \$ 12,855.91	= \$ 541,047.91
ASSEMBLY OF GOD CHURCH	\$ 342,390.00	+ \$ 342,390.00	+ \$ 19,322.65	= \$ 704,102.65
CHURCH OF CHRIST	\$ 153,849.50	+ \$ 153,849.50	+ \$ 8,682.77	= \$ 316,381.77
CITY OF ARCHER CITY (N. CENTER)	\$ 239,360.00	+ \$ 239,360.00	+ \$ 17,346.06	= \$ 496,066.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 306,548.00	+ \$ 306,548.00	+ \$ 22,214.85	= \$ 635,310.85
FAITH MEMORIAL BAPTIST CHURCH	\$ 528,840.00	+ \$ 528,840.00	+ \$ 29,844.96	= \$ 1,087,524.96
FIRST CHRISTIAN CHURCH	\$ 217,864.00	+ \$ 217,864.00	+ \$ 12,295.23	= \$ 448,023.23
FIRST UNITED METHODIST CHURCH	\$ 409,681.50	+ \$ 409,681.50	+ \$ 23,120.34	= \$ 842,483.34
OLNEY/HAMITON HOSPITAL	\$ 232,797.50	+ \$ 349,196.25	+ \$ 33,085.31	= \$ 615,079.06
WOOD FAMILY ENTERPRISES	\$ 26,700.00	+ \$ 13,350.00	+ \$ 1,913.16	= \$ 41,963.16
<b>Archer County</b>				
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 57,420.00	+ \$ 57,420.00	+ \$ 4,536.28	= \$ 119,376.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 603,255.00	+ \$ 603,255.00	+ \$ 29,367.12	= \$ 1,235,877.12
ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 65,000.00	+ \$ 97,500.00	+ \$ 3,476.53	= \$ 165,976.53
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 35,728.00	+ \$ 35,728.00	+ \$ 2,589.33	= \$ 74,045.33
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 88,924.00	+ \$ 88,924.00	+ \$ 7,025.63	= \$ 184,873.63
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 54,855.00	+ \$ 82,282.50	+ \$ 8,333.01	= \$ 145,470.51
<b>Holliday</b>				
ASSEMBLY OF GOD CHURCH	\$ 307,360.00	+ \$ 307,360.00	+ \$ 17,346.06	= \$ 632,066.06
CHURCH OF CHRIST	\$ 364,538.00	+ \$ 364,538.00	+ \$ 20,572.81	= \$ 749,648.81

Description of Structure	Structure Loss		Content Loss		Function Loss		Total Loss
<b>Holliday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 98,735.00	+	\$ 148,102.50	+	\$ 5,280.22	=	\$ 252,117.72
LIBRARY (S. MAIN)	\$ 194,928.00	+	\$ 194,928.00	+	\$ 9,488.99	=	\$ 399,344.99
PUBLIC WORKS (W. CHINA)	\$ 251,850.00	+	\$ 377,775.00	+	\$ 38,256.80	=	\$ 667,881.80
WATER TOWER (E. CHESTNUT)	\$ 9,315.00	+	\$ 13,972.50	+	\$ 1,415.45	=	\$ 24,702.95
<b>Lakeside City</b>							
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 325,000.00	+	\$ 487,500.00	+	\$ 17,380.85	=	\$ 829,880.85
<b>Megargel</b>							
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 119,215.00	+	\$ 119,215.00	+	\$ 6,727.74	=	\$ 245,157.74
CHURCH OF CHRIST	\$ 162,324.50	+	\$ 162,324.50	+	\$ 9,160.54	=	\$ 333,809.54
CITY HALL & FIRE STATION	\$ 93,990.00	+	\$ 140,985.00	+	\$ 5,026.92	=	\$ 240,001.92
MEGARGEL BAPTIST CHURCH	\$ 248,487.00	+	\$ 248,487.00	+	\$ 14,023.23	=	\$ 510,997.23
MEGARGEL ISD (301 FIRST ST)	\$ 12,740.00	+	\$ 12,740.00	+	\$ 973.65	=	\$ 26,453.65
MEGARGEL ISD (601 FIRST ST)	\$ 673,946.00	+	\$ 673,946.00	+	\$ 51,489.91	=	\$ 1,399,381.91
MEGARGEL ISD (CEDAR ST)	\$ 399,399.00	+	\$ 399,399.00	+	\$ 30,514.31	=	\$ 829,312.31
METHODIST CHURCH OF MEGARGEL	\$ 296,738.00	+	\$ 296,738.00	+	\$ 16,746.56	=	\$ 610,222.56
<b>Scotland</b>							
CATHOLIC DIOCESE OF FT. WORTH	\$ 195,264.00	+	\$ 195,264.00	+	\$ 11,019.49	=	\$ 401,547.49
CITY OF SCOTLAND - SHOP B	\$ 79,200.00	+	\$ 79,200.00	+	\$ 6,257.20	=	\$ 164,657.20
COMMUNITY BAPTIST CHURCH	\$ 53,392.50	+	\$ 53,392.50	+	\$ 3,012.96	=	\$ 109,797.96
KNIGHTS OF COLUMBUS HALL	\$ 117,900.00	+	\$ 117,900.00	+	\$ 5,739.41	=	\$ 241,539.41
SCOTLAND BAPTIST CHURCH	\$ 180,800.00	+	\$ 180,800.00	+	\$ 10,203.08	=	\$ 371,803.08
<b>Windthorst</b>							
CITY HALL	\$ 67,848.00	+	\$ 67,848.00	+	\$ 4,916.83	=	\$ 140,612.83
KNIGHTS OF COLUMBUS HALL	\$ 215,888.00	+	\$ 215,888.00	+	\$ 10,509.90	=	\$ 442,285.90
ST. MARYS CATHOLIC CHURCH	\$1,972,019.50	+	\$1,972,019.50	+	\$ 111,290.33	=	\$ 4,055,329.33
WINDTHORST ISD	\$3,208,159.50	+	\$ 35,254.50	+	\$ 245,105.68	=	\$ 3,488,519.68
<b>Total Loss</b>							<b>\$27,664,869.96</b>

**Winter Storms**

**Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst  
Estimated Total Losses from Winter Storms**

Description of Structure	Structure Loss		Content Loss		Function Loss		Total Loss
<b>Archer City</b>							
AMERICAN LEGION	\$ 60,928.10	+	\$ 60,928.10	+	\$ 14,830.35	=	\$ 136,686.55
ARCHER CITY ELDERLY HOUSING	\$ 58,321.70	+	\$ 29,160.85	+	\$ 20,895.09	=	\$ 108,377.64
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 137,944.80	+	\$ 68,972.40	+	\$ 44,882.03	=	\$ 251,799.23
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 67,041.80	+	\$ 33,520.90	+	\$ 21,812.85	=	\$ 122,375.55
ARCHER CITY ISD	\$ 15,187.90	+	\$ 15,187.90	+	\$ 5,802.08	=	\$ 36,177.88
ARCHER LODGE #708	\$ 52,819.20	+	\$ 52,819.20	+	\$ 12,855.91	=	\$ 118,494.31
ASSEMBLY OF GOD CHURCH	\$ 68,478.00	+	\$ 68,478.00	+	\$ 19,322.65	=	\$ 156,278.65
CHURCH OF CHRIST	\$ 30,769.90	+	\$ 30,769.90	+	\$ 8,682.77	=	\$ 70,222.57
CITY OF ARCHER CITY (N. CENTER)	\$ 47,872.00	+	\$ 47,872.00	+	\$ 17,346.06	=	\$ 113,090.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 61,309.60	+	\$ 61,309.60	+	\$ 22,214.85	=	\$ 144,834.05
FAITH MEMORIAL BAPTIST CHURCH	\$ 105,768.00	+	\$ 105,768.00	+	\$ 29,844.96	=	\$ 241,380.96
FIRST CHRISTIAN CHURCH	\$ 43,572.80	+	\$ 43,572.80	+	\$ 12,295.23	=	\$ 99,440.83
FIRST UNITED METHODIST CHURCH	\$ 81,936.30	+	\$ 81,936.30	+	\$ 23,120.34	=	\$ 186,992.94
OLNEY/HAMITON HOSPITAL	\$ 46,559.50	+	\$ 69,839.25	+	\$ 33,085.31	=	\$ 149,484.06
WOOD FAMILY ENTERPRISES	\$ 5,340.00	+	\$ 2,670.00	+	\$ 1,913.16	=	\$ 9,923.16
<b>Archer County</b>							
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 11,484.00	+	\$ 11,484.00	+	\$ 4,536.28	=	\$ 27,504.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 120,651.00	+	\$ 120,651.00	+	\$ 29,367.12	=	\$ 270,669.12
ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 13,000.00	+	\$ 19,500.00	+	\$ 3,476.53	=	\$ 35,976.53
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 7,145.60	+	\$ 7,145.60	+	\$ 2,589.33	=	\$ 16,880.53
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 17,784.80	+	\$ 17,784.80	+	\$ 7,025.63	=	\$ 42,595.23
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 10,971.00	+	\$ 16,456.50	+	\$ 8,333.01	=	\$ 35,760.51
<b>Holliday</b>							
ASSEMBLY OF GOD CHURCH	\$ 61,472.00	+	\$ 61,472.00	+	\$ 17,346.06	=	\$ 140,290.06
CHURCH OF CHRIST	\$ 72,907.60	+	\$ 72,907.60	+	\$ 20,572.81	=	\$ 166,388.01
<b>Description of Structure</b>	<b>Structure Loss</b>		<b>Content Loss</b>		<b>Function Loss</b>		<b>Total Loss</b>
<b>Holliday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 19,747.00	+	\$ 29,620.50	+	\$ 5,280.22	=	\$ 54,647.72
LIBRARY (S. MAIN)	\$ 38,985.60	+	\$ 38,985.60	+	\$ 9,488.99	=	\$ 87,460.19

PUBLIC WORKS (W. CHINA)	\$ 50,370.00	+	\$ 75,555.00	+	\$ 38,256.80	=	\$ 164,181.80	
WATER TOWER (E. CHESTNUT)	\$ 1,863.00	+	\$ 2,794.50	+	\$ 1,415.45	=	\$ 6,072.95	
<b>Lakeside City</b>								
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 65,000.00	+	\$ 97,500.00	+	\$ 17,380.85	=	\$ 179,880.85	
<b>Megargel</b>								
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 23,843.00	+	\$ 23,843.00	+	\$ 6,727.74	=	\$ 54,413.74	
CHURCH OF CHRIST	\$ 32,464.90	+	\$ 32,464.90	+	\$ 9,160.54	=	\$ 74,090.34	
CITY HALL & FIRE STATION	\$ 18,798.00	+	\$ 28,197.00	+	\$ 5,026.92	=	\$ 52,021.92	
MEGARGEL BAPTIST CHURCH	\$ 49,697.40	+	\$ 49,697.40	+	\$ 14,023.23	=	\$ 113,418.03	
MEGARGEL ISD (301 FIRST ST)	\$ 2,548.00	+	\$ 2,548.00	+	\$ 973.65	=	\$ 6,069.65	
MEGARGEL ISD (601 FIRST ST)	\$ 134,789.20	+	\$ 134,789.20	+	\$ 51,489.91	=	\$ 321,068.31	
MEGARGEL ISD (CEDAR ST)	\$ 79,879.80	+	\$ 79,879.80	+	\$ 30,514.31	=	\$ 190,273.91	
METHODIST CHURCH OF MEGARGEL	\$ 59,347.60	+	\$ 59,347.60	+	\$ 16,746.56	=	\$ 135,441.76	
<b>Scotland</b>								
CATHOLIC DIOCESE OF FT. WORTH	\$ 39,052.80	+	\$ 39,052.80	+	\$ 11,019.49	=	\$ 89,125.09	
CITY OF SCOTLAND - SHOP B	\$ 15,840.00	+	\$ 15,840.00	+	\$ 6,257.20	=	\$ 37,937.20	
COMMUNITY BAPTIST CHURCH	\$ 10,678.50	+	\$ 10,678.50	+	\$ 3,012.96	=	\$ 24,369.96	
KNIGHTS OF COLUMBUS HALL	\$ 23,580.00	+	\$ 23,580.00	+	\$ 5,739.41	=	\$ 52,899.41	
SCOTLAND BAPTIST CHURCH	\$ 36,160.00	+	\$ 36,160.00	+	\$ 10,203.08	=	\$ 82,523.08	
<b>Windthorst</b>								
CITY HALL	\$ 13,569.60	+	\$ 13,569.60	+	\$ 4,916.83	=	\$ 32,056.03	
KNIGHTS OF COLUMBUS HALL	\$ 43,177.60	+	\$ 43,177.60	+	\$ 10,509.90	=	\$ 96,865.10	
ST. MARYS CATHOLIC CHURCH	\$ 394,403.90	+	\$ 394,403.90	+	\$ 111,290.33	=	\$ 900,098.13	
WINDTHORST ISD	\$ 641,631.90	+	\$ 7,050.90	+	\$ 245,105.68	=	\$ 893,788.48	
<b>Total Loss</b>								<b>\$ 6,330,326.36</b>

**Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst  
Estimated Total Losses from Dam/ Levee Failure**

Description of Structure	Structure Loss		Content Loss		Function Loss		Total Loss
<b>Archer City</b>							
AMERICAN LEGION	\$ 243,712.40	+	\$ 243,712.40	+	\$ 14,830.35	=	\$ 502,255.15
ARCHER CITY ELDERLY HOUSING	\$ 233,286.80	+	\$ 116,643.40	+	\$ 20,895.09	=	\$ 370,825.29
ARCHER CITY HOUSING AUTHORITY (EVERGREEN ST)	\$ 551,779.20	+	\$ 275,889.60	+	\$ 44,882.03	=	\$ 872,550.83
ARCHER CITY HOUSING AUTHORITY (S. SYCAMORE)	\$ 268,167.20	+	\$ 134,083.60	+	\$ 21,812.85	=	\$ 424,063.65
ARCHER CITY ISD	\$ 60,751.60	+	\$ 60,751.60	+	\$ 5,802.08	=	\$ 127,305.28
ARCHER LODGE #708	\$ 211,276.80	+	\$ 211,276.80	+	\$ 12,855.91	=	\$ 435,409.51
ASSEMBLY OF GOD CHURCH	\$ 273,912.00	+	\$ 273,912.00	+	\$ 19,322.65	=	\$ 567,146.65
CHURCH OF CHRIST	\$ 123,079.60	+	\$ 123,079.60	+	\$ 8,682.77	=	\$ 254,841.97
CITY OF ARCHER CITY (N. CENTER)	\$ 191,488.00	+	\$ 191,488.00	+	\$ 17,346.06	=	\$ 400,322.06
CITY OF ARCHER CITY (S. SYCAMORE)	\$ 245,238.40	+	\$ 245,238.40	+	\$ 22,214.85	=	\$ 512,691.65
FAITH MEMORIAL BAPTIST CHURCH	\$ 423,072.00	+	\$ 423,072.00	+	\$ 29,844.96	=	\$ 875,988.96
FIRST CHRISTIAN CHURCH	\$ 174,291.20	+	\$ 174,291.20	+	\$ 12,295.23	=	\$ 360,877.63
FIRST UNITED METHODIST CHURCH	\$ 327,745.20	+	\$ 327,745.20	+	\$ 23,120.34	=	\$ 678,610.74
OLNEY/HAMITON HOSPITAL	\$ 186,238.00	+	\$ 279,357.00	+	\$ 33,085.31	=	\$ 498,680.31
WOOD FAMILY ENTERPRISES	\$ 21,360.00	+	\$ 10,680.00	+	\$ 1,913.16	=	\$ 33,953.16
<b>Archer County</b>							
ARCHER COUNTY LAW ENFORCEMENT (LOCATED IN ARCHER CITY)	\$ 45,936.00	+	\$ 45,936.00	+	\$ 4,536.28	=	\$ 96,408.28
ARCHER COUNTY MUSEUM (LOCATED IN ARCHER CITY)	\$ 482,604.00	+	\$ 482,604.00	+	\$ 29,367.12	=	\$ 994,575.12
ARCHER COUNTY PRECINCT BARN (LOCATED IN MEGARGEL)	\$ 52,000.00	+	\$ 78,000.00	+	\$ 3,476.53	=	\$ 133,476.53
ARCHER COUNTY PRECINCT #2 (LOCATED IN WINDTHORST)	\$ 28,582.40	+	\$ 28,582.40	+	\$ 2,589.33	=	\$ 59,754.13
ARCHER COUNTY SHERIFF DEPARTMENT (LOCATED IN ARCHER CITY)	\$ 71,139.20	+	\$ 71,139.20	+	\$ 7,025.63	=	\$ 149,304.03
ARCHER COUNTY SHOP (LOCATED IN HOLLIDAY)	\$ 43,884.00	+	\$ 65,826.00	+	\$ 8,333.01	=	\$ 118,043.01
<b>Holliday</b>							
ASSEMBLY OF GOD CHURCH	\$ 245,888.00	+	\$ 245,888.00	+	\$ 17,346.06	=	\$ 509,122.06
CHURCH OF CHRIST	\$ 291,630.40	+	\$ 291,630.40	+	\$ 20,572.81	=	\$ 603,833.61
<b>Description of Structure</b>	<b>Structure Loss</b>		<b>Content Loss</b>		<b>Function Loss</b>		<b>Total Loss</b>
<b>Holliday</b>							
CITY HALL & POLICE DEPT. (W. OLIVE ST)	\$ 78,988.00	+	\$ 118,482.00	+	\$ 5,280.22	=	\$ 202,750.22
LIBRARY (S. MAIN)	\$ 155,942.40	+	\$ 155,942.40	+	\$ 9,488.99	=	\$ 321,373.79
PUBLIC WORKS (W. CHINA)	\$ 201,480.00	+	\$ 302,220.00	+	\$ 38,256.80	=	\$ 541,956.80
WATER TOWER (E. CHESTNUT)	\$ 7,452.00	+	\$ 11,178.00	+	\$ 1,415.45	=	\$ 20,045.45
<b>Lakeside City</b>							
CITY HALL & VOLUNTEER FIRE DEPT.	\$ 260,000.00	+	\$ 390,000.00	+	\$ 17,380.85	=	\$ 667,380.85
<b>Megargel</b>							
CHRISTIAN FELLOWSHIP OF MEGARGEL	\$ 95,372.00	+	\$ 95,372.00	+	\$ 6,727.74	=	\$ 197,471.74
CHURCH OF CHRIST	\$ 129,859.60	+	\$ 129,859.60	+	\$ 9,160.54	=	\$ 268,879.74
CITY HALL & FIRE STATION	\$ 75,192.00	+	\$ 112,788.00	+	\$ 5,026.92	=	\$ 193,006.92
MEGARGEL BAPTIST CHURCH	\$ 198,789.60	+	\$ 198,789.60	+	\$ 14,023.23	=	\$ 411,602.43
MEGARGEL ISD (301 FIRST ST)	\$ 10,192.00	+	\$ 10,192.00	+	\$ 973.65	=	\$ 21,357.65
MEGARGEL ISD (601 FIRST ST)	\$ 539,156.80	+	\$ 539,156.80	+	\$ 51,489.91	=	\$ 1,129,803.51
MEGARGEL ISD (CEDAR ST)	\$ 319,519.20	+	\$ 319,519.20	+	\$ 30,514.31	=	\$ 669,552.71
METHODIST CHURCH OF MEGARGEL	\$ 237,390.40	+	\$ 237,390.40	+	\$ 16,746.56	=	\$ 491,527.36

<b>Scotland</b>							
CATHOLIC DIOCESE OF FT. WORTH	\$ 156,211.20	+	\$ 156,211.20	+	\$ 11,019.49	=	\$ 323,441.89
CITY OF SCOTLAND - SHOP B	\$ 63,360.00	+	\$ 63,360.00	+	\$ 6,257.20	=	\$ 132,977.20
COMMUNITY BAPTIST CHURCH	\$ 42,714.00	+	\$ 42,714.00	+	\$ 3,012.96	=	\$ 88,440.96
KNIGHTS OF COLUMBUS HALL	\$ 94,320.00	+	\$ 94,320.00	+	\$ 5,739.41	=	\$ 194,379.41
SCOTLAND BAPTIST CHURCH	\$ 144,640.00	+	\$ 144,640.00	+	\$ 10,203.08	=	\$ 299,483.08
<b>Windthorst</b>							
CITY HALL	\$ 54,278.40	+	\$ 54,278.40	+	\$ 4,916.83	=	\$ 113,473.63
KNIGHTS OF COLUMBUS HALL	\$ 172,710.40	+	\$ 172,710.40	+	\$ 10,509.90	=	\$ 355,930.70
ST. MARYS CATHOLIC CHURCH	\$ 1,577,615.60	+	\$ 1,577,615.60	+	\$ 111,290.33	=	\$ 3,266,521.53
WINDTHORST ISD	\$ 2,566,527.60	+	\$ 28,203.60	+	\$ 245,105.68	=	\$ 2,839,836.88
					<b>Total Loss</b>		<b>\$ 22,331,234.06</b>

Dam/Levee Failures

### **Past Mitigation**

#### ***Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst***

*This section of the plan includes a comprehensive look at past mitigation attempts by Archer County and the Cities of Archer City, Holliday, Lakeside, Megargel, Scotland and Windthorst. This includes an evaluation of the following: Hazard Mitigation Grant Program (HMGP), Public Assistance Program Projects, Project Impact, Pre-Disaster Mitigation, Hurricane-Property Protection Mitigation, Current building Codes, Floodplain Management Ordinances/Orders, and Building Code Effectiveness Grading Report. Based on past events, Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst have reviewed and incorporated their appropriate mitigation strategies to lessen the burden of future disasters. The Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst Mitigation Action Plan (MAP) will identify mitigation actions that will further enhance the jurisdiction's ability to cope with future disasters. Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst have no repetitive losses from any of the identified hazards.*

#### **Hazard Mitigation Grant Program Projects (HMGP)**

*Archer County and the Cities Archer City, Holliday, Lakeside, Megargel, Scotland and Windthorst have not received any Hazard Mitigation Grant Program Project Funds.*

#### **Past Disaster Declarations/ Public Assistance Program Grant**

- **820 Spring Storms May 1989**

*Archer County received assistance in the amount of \$153,255.00 and City of Archer City received approximately \$11,000.00. Culverts were replaced and enlarged within the city and county.*

- **863 Archer County Flood May 1990**  
Archer County received \$42,566.00 so that roads and culverts could be repaired and replaced.

**Project Impact, Pre-Disaster Mitigation, Hurricane Property Protection Mitigation**

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst have not received Project Impact, Pre-Disaster Mitigation, and Hurricane Property Protection Mitigation. Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst are not located anywhere near the coast line.

**Current Building and Fire Codes**

- **Archer County**  
Archer County currently has no building or fire codes.
- **City of Archer City**  
The City of Archer City adheres to the following: Southern Building Code Congress International 1979. This is enforced by the building inspector. There are no permit variances. PPC7. New construction is inspected for building permits. Periodic inspections are done for fire codes. These inspections are sometimes done unannounced. This is done by the fire marshal.
- **City of Holliday**  
The City of Holliday adheres to the following: International bldg code 1996. This is enforced by city building inspector. There are no permit variances. PPC 7. New construction is inspected for building permits. Periodic inspections are done for fire codes, sometimes unannounced. This is done by the fire marshal.
- **City of Lakeside City**  
The City of Lakeside City adheres to the following: Southern bldg code congress international 1990. This is enforced by the building inspector. There are no permit variances. PPC 7. Periodic inspections are done for fire codes, sometimes unannounced. This is done by the fire chief.
- **City of Megargel**  
City of Megargel currently has no building or fire codes.
- **City of Scotland**  
City of Scotland currently has no building or fire codes.
- **City of Windthorst**  
The City of Windthorst adheres to the following: 2000 International Bldg Code July 11, 2002. Ordinance 2002-01.

**Flood Plain Ordinances / Orders**



- **Archer County**  
Flood damage prevention court order May 11, 1987. Enforcement is made by the flood plain administrator for Archer County through a permitting process.
- **City of Archer City**  
Flood damage ordinance May 7, 1987. Ordinance # 209. This is enforced by the Flood Plain Administrator through a permitting process.
- **City of Holliday**  
Flood Ordinance is incorporated under article 3.1000 under the building code dated 1996. This is enforced by the building inspector. This is at or above base flood elevation.
- **City of Lakeside City**  
Ordinance 90-3. Oct. 7, 1990. This is enforced by the Flood Plain Administrator through a permitting process.
- **City of Megargel**  
March 28, 2001. This is enforced by the Flood Plain Administrator through permitting process.
- **City of Scotland**  
None
- **City of Windthorst**  
None

**Building Code Effectiveness Grading Report (BCEGS)**

The cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst could not obtain the BCEGS before this plan was finished but they do strictly adhere to the Standard Building Codes (see above for their building codes and responsible party).

Archer County does not enforce building codes except for Flood Plain through the permitting process.

**SECTION VI – DEVELOP MITIGATION ACTION PLAN**

**Introduction**

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst are committed to implementing and maintaining a dynamic MAP. In this spirit, a mission statement was developed by the City of Wichita Falls, in coordination with the NRMAT:

*Communities uniting together to become partners in disaster sustainable development which includes a safe, secure environment for future generations.*



Develop the MAP based on the risk assessment by:

5. Creating goals and objectives.
6. Developing mitigation action items and prioritizing these actions.
7. Preparing an implementation and monitoring strategy.

### ***How Were Mitigation Actions Developed?***

*First, mitigation goals and objectives were formulated by Archer County and the Cities Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst in coordination with the NRMAT, to reduce or eliminate the long term risk to human life and property from each significant hazard. The following is a list of these goals and objectives:*

*Goal 1: Protect public health and safety*

*Objective 1.1: Advise the public about health and safety precautions to guard against injury and loss of life from hazards.*

*Objective 1.2: Maximize the utilization of the latest technology to provide adequate warning, communication, and mitigation of hazards events.*

*Objective 1.3: Reduce the danger to, and enhance protection of, dangerous areas during hazard events.*

*Objective 1.4: Protect critical facilities and services.*

*Goal 2: Protect existing and new properties*

*Objective 2.1: Reduce repetitive losses to the National Flood Insurance Program*

*Objective 2.2: Use the most cost-effective approaches to protect existing and new building and public infrastructure from hazards.*

*Objective 2.3: Enact and enforce regulatory measures to ensure that development will not put people in harm's way or increase threats to existing and new properties.*

*Goal 3: Increase public understanding, support, and demand for hazard mitigation*

*Objective 3.1: Increase public awareness of the full range of natural and man-made hazards they face.*

*Objective 3.2: Educate the public on actions they can take to prevent or reduce the loss of life or property from all hazards.*

*Objective 3.3: Publicize and encourage the adoption of appropriate hazard mitigation measures.*

*Objective 3.4: Encourage public policy to promote mitigation activities among the local jurisdictions.*

*Goal 4: Promote growth in a sustainable manner.*

*Objective 4.1: Incorporate hazard mitigation into the long-range planning and development activities*

*Objective 4.2: Promote beneficial uses of hazardous areas while expanding open space and recreational opportunities*

*Objective 4.3: Utilize regulatory approaches to prevent creation of future hazards to life and property*

*Goal 5: Maximize the use of outside sources of funding*

*Objective 5.1: Maximize the use of outside sources of funding*

*Objective 5.2: Maximize participation of property owners in protecting their properties*

*Objective 5.3: Maximize insurance coverage to provide financial protection against hazard events*

*Objective 5.4: Prioritize mitigation projects, based on cost effectiveness and starting with those sites facing the greatest threat to life, health and property.*

*The goals and objectives of this MAP reflect similar goals to those found in the State of Texas Mitigation Plan and those of the National Flood Insurance Program. This similarity is not intentional. It is, however understandable that the goals established through these three separate efforts are similar because of the similar purposes of the NFIP, the State of Texas's MAP, and the Archer County and the Cities MAP.*

*Once the goals and objectives were identified, Archer County and the Cities of Archer City, Holliday, Lakeside City, Scotland and Windthorst, in coordination with the NRMAT, went through an extensive review of past mitigation activities. Planners felt that the only way to plan for the future was to understand what mitigation actions had been pursued in the past. Appendix 3 is an example of a worksheet filled out by Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst planners during the creation of this plan. The data collected from this worksheet helped city planners better understand the action items that had worked in the past.*

*When elected officials and representatives choose what mitigation actions they would support they took the following into account:*

*Past Hazard Mitigation Activities*

*Cost benefit review (would be performed at future date)*

*Comments and Concerns of Nortex Regional Mitigation Action Team General Membership*

*First County Wide Meetings*

*Community Surveys*

*Comments left by citizens on the draft MAP*

*Hazard/Vulnerabilities Analyses*

*Loss Estimates*

*Each mitigation action was developed by identifying several possible actions, conducting a benefit-cost analysis for each action, identifying organizations responsible for each action, creating objectives relevant to actions, creating an implementation schedule, and prioritizing potential funding sources for each action. Prioritizing potential funding sources involved identifying the name, authority, and funding source of each program. City representatives, in coordination with the NRMAT and members of the public, chose what mitigation actions would go into this MAP. Three criteria were used to prioritize mitigation actions:*

*Local Politics*

*Local Budgeting Constraints  
Understanding of City and NRMAT Objectives*

*Extra meetings were held between the Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst and the NRMAT when extra guidance was needed concerning mitigation actions. Mitigation action priorities were voted on and set by the NRMAT general membership. Again, general membership is made up of the community at large from the participating communities.*

*Mitigation Action Items - Floods*

<i>Archer County</i>	<i>Construct Culverts and widen channels to reduce flooding.</i>
<i>Area(s) prone to flooding:</i>	<i>FM 1954 and Sisk Rd</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>County Precincts</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: This action would decrease property damage in a high traffic area. Location is well populated residentially.</i>	
<i>Archer County</i>	<i>Enhance data and mapping for floodplain information in the county, and identify and map flood-prone areas outside the designated floodplains.</i>
<i>Area(s) prone to flooding:</i>	<i>State Hwy 25 at Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding</i>

	<i>mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reducing the property damage due to flooding.</i>
<i>Discussion: Development of floodplain maps for all local streams not currently mapped on FIRM maps or county maps, with special attention focused on mapping rural and unincorporated areas. The maps can be used for planning, risk analysis, and emergency management. The maps should show: The expected frequency of flooding; The level of flooding; The areas subject to inundation. Maintain maps of covered streams and creeks, including digitizing and creating a set of aerial maps of Archer County to more easily ‘ground truth’ collected data; Identify mapped culverts that historically create flooding problems and target them for retrofitting; Prepare and inventory of rural drainage problems; Coordinate with local agencies and organizations to obtain flood data and mapping resources; Build databases for HAZUS programs; Integrate GIS; Include a map layer with arrows to indicate direction of stream/creek flow; and add creek names that are missing and coordinate the naming of unnamed creeks.</i>	
<b><i>City of Archer City</i></b>	<b><i>Retrofit culverts in Archer City with pipes designed for 50-100 year flood intervals.</i></b>
<i>Area(s) prone to flooding:</i>	<i>Mesquite St, Plum St, Walnut St</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$285,000.00</i>
<i>Potential Funding Source:</i>	<i>Grant Funding</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: This action would decrease property damage in a high traffic area. Location is well populated residentially. Work with local, state, and federal agencies involved with habitat restoration.</i>	
<b><i>City of Archer City</i></b>	<b><i>Installation of pump stations in areas prone to flooding.</i></b>
<i>Area(s) prone to flooding:</i>	<i>Beech St, Rose St</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>

<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reducing the property damage due to flooding.</i>
<i>Discussion: This would minimize the possible effects of flooding in a low lying area.</i>	
<b><i>City of Holliday</i></b>	<b><i>Provide flood event education and outreach to households and businesses.</i></b>
<i>Area(s) prone to flooding:</i>	<i>Red Wood St., Bois D' Arc St., Olive St.</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants/ General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through education and better planning</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through education and better planning.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: Create a flood education curriculum, a speaker-training program, and outreach aimed at specific populations i.e. households, businesses, etc; Collaborate with existing program managers to develop a flood education component that supports water quality education curricula; identify existing watersheds education programs and determine which programs would support a flood education component; Identify and provide mitigation guidance to owners of properties at risk from flooding; recruit individuals to speak to households and businesses/employees about flood issues; raise awareness level of property owners and developers that impacts upstream result in impacts downstream, and lack of storm water best management practices can result in an increase in flooding events.</i>	
<b><i>City of Holliday</i></b>	<b><i>Construct Culverts and widen channels to reduce</i></b>

	<b><i>flooding.</i></b>
<i>Area(s) prone to flooding:</i>	<i>200 block of FM 368, Cedar St, Elm St</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grant Funding</i>
<i>Lead Agency/Department Responsible:</i>	<i>County Precincts</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: This action would decrease property damage in a high traffic area. Location is well populated residentially.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Provide flood event education and outreach to households and businesses.</i></b>
<i>Area(s) prone to flooding:</i>	<i>Windjammer St, Gallon St.</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through education and better planning.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through education and better planning.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: Create a flood education curriculum, a speaker-training program, and outreach aimed at specific populations i.e. households, businesses, etc; Collaborate with existing program managers to develop a flood education component that supports water quality education curricula; identify existing watersheds education programs and determine which programs would support a flood education component; Identify and provide mitigation guidance to owners of properties at risk</i>	

from flooding; recruit individuals to speak to households and businesses/employees about flood issues; raise awareness level of property owners and developers that impacts upstream result in impacts downstream, and lack of storm water best management practices can result in an increase in flooding events.

<b>City of Lakeside City</b>	<b>Enhance data and mapping for floodplain information in the county, and identify and map flood-prone areas outside the designated floodplains.</b>
Area(s) prone to flooding:	Royal Lane
Objective(s) Addressed:	2.1, 2.2, 5.4
Hazards(s) Addressed:	Floods
Priority (High, Medium, Low):	High
Estimated Cost:	\$250,000
Potential Funding Source:	Grant Funding
Lead Agency/Department Responsible:	Emergency Management/Planning
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is high but the potential benefits would be reducing the property damage due to flooding.
<p><i>Discussion: Development of floodplain maps for all local streams not currently mapped on FIRM maps or county maps, with special attention focused on mapping rural and unincorporated areas. The maps can be used for planning, risk analysis, and emergency management. The maps should show: The expected frequency of flooding; The level of flooding; The areas subject to inundation. Maintain maps of covered streams and creeks, including digitizing and creating a set of aerial maps of Archer County to more easily ‘ground truth’ collected data; Identify mapped culverts that historically create flooding problems and target them for retrofitting; Prepare and inventory of rural drainage problems; Coordinate with local agencies and organizations to obtain flood data and mapping resources; Build databases for HAZUS programs; Integrate GIS; Include a map layer with arrows to indicate direction of stream/creek flow; and add creek names that are missing and coordinate the naming of unnamed creeks.</i></p>	
<b>City of Megargel</b>	<b>Provide flood event education and outreach to households and businesses.</b>
Area(s) prone to flooding:	3 <sup>rd</sup> Ave, 6 <sup>th</sup> Ave
Objective(s) Addressed:	2.1, 2.2, 5.4
Hazards(s) Addressed:	Floods
Priority (High, Medium, Low):	High
Estimated Cost:	\$5,000
Potential Funding Source:	Grants/ General Budget



<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through education and better planning.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through education and better planning.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: Create a flood education curriculum, a speaker-training program, and outreach aimed at specific populations i.e. households, businesses, etc; Collaborate with existing program managers to develop a flood education component that supports water quality education curricula; identify existing watersheds education programs and determine which programs would support a flood education component; Identify and provide mitigation guidance to owners of properties at risk from flooding; recruit individuals to speak to households and businesses/employees about flood issues; raise awareness level of property owners and developers that impacts upstream result in impacts downstream, and lack of storm water best management practices can result in an increase in flooding events.</i>	
<b>City of Megargel</b>	<b>Construct Culverts and widen channels to reduce flooding.</b>
<i>Area(s) prone to flooding:</i>	<i>4<sup>th</sup> St, 5<sup>th</sup> St</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/City Council</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reducing the property damage due to flooding.</i>
<i>Discussion: This action would decrease property damage in a high traffic area. Location is well populated residentially.</i>	
<b>City of Scotland</b>	<b>Provide flood event education and outreach to households and businesses.</b>
<i>Area(s) prone to flooding:</i>	<i>2<sup>nd</sup> St, 3rd St, 4<sup>th</sup> St.</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>

<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through education and better planning.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through education and better planning.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: Create a flood education curriculum, a speaker-training program, and outreach aimed at specific populations i.e. households, businesses, etc; Collaborate with existing program managers to develop a flood education component that supports water quality education curricula; identify existing watersheds education programs and determine which programs would support a flood education component; Identify and provide mitigation guidance to owners of properties at risk from flooding; recruit individuals to speak to households and businesses/employees about flood issues; raise awareness level of property owners and developers that impacts upstream result in impacts downstream, and lack of storm water best management practices can result in an increase in flooding events.</i>	
<b><i>City of Scotland</i></b>	<b><i>Construct Culverts and widen channels to reduce flooding.</i></b>
<i>Area(s) prone to flooding:</i>	<i>Avenue J, Avenue M</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/City Council</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reducing the property damage due to flooding.</i>
<i>Discussion: This action would decrease property damage in a high traffic area.</i>	

<i>Location is well populated residentially.</i>	
<b>City of Windthorst</b>	<b>Provide flood event education and outreach to households and businesses.</b>
<i>Area(s) prone to flooding:</i>	<i>Weinzapfel Loop, Zihlman Rd</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through education and better planning.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through education and better planning.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reducing the property damage due to flooding.</i>
<i>Discussion: Create a flood education curriculum, a speaker-training program, and outreach aimed at specific populations i.e. households, businesses, etc; Collaborate with existing program managers to develop a flood education component that supports water quality education curricula; identify existing watersheds education programs and determine which programs would support a flood education component; Identify and provide mitigation guidance to owners of properties at risk from flooding; recruit individuals to speak to households and businesses/employees about flood issues; raise awareness level of property owners and developers that impacts upstream result in impacts downstream, and lack of storm water best management practices can result in an increase in flooding events.</i>	
<b>City of Windthorst</b>	<b>Construct Culverts and widen channels to reduce flooding.</b>
<i>Area(s) prone to flooding:</i>	<i>Zotz Rd, Trojan Rd</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Floods</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/City Council</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of flooding on new buildings through increased use of flooding mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of flooding on existing buildings through increased use of flooding</i>

	<i>mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the potential benefits would be reducing the property damage due to flooding.</i>
<i>Discussion: This action would decrease property damage in a high traffic area. Location is well populated residentially.</i>	

*Mitigation Action Items – Windstorms*

<i>Archer County</i>	<i>Develop and implement system for ensuring maintenance of utility infrastructure in easement right-of-ways are clear of obstructions to include excessive tree/brush growth.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning, Code Enforcement/Utilities</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings through increased use of wind mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Tree pruning near power lines can reduce the potential for trees falling on and breaking power lines.</i>	
<i>Archer County</i>	<i>Install electric utilities underground.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings through increased use of wind</i>

	<i>mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms</i>
<i>Discussion: Increase the use of underground utilities where possible to reduce the effects of downed power lines during windstorms.</i>	
<b>City of Archer City</b>	<b><i>Maintain tree trimming for above ground power lines.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Fund</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing building through by ensuring the major impact of wind (trees) has been removed.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Coordinate with overhead utilities to evaluate tree trimming to reduce the potential for trees falling on and breaking power lines.</i>	
<b>City of Archer City</b>	<b><i>Install electric utilities underground.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings through increased use of wind mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low</i>

	<i>compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Increase the use of underground utilities where possible to reduce the effects of downed power lines during windstorms.</i>	
<i>City of Holliday</i>	<i>Develop and implement system for ensuring maintenance of utility infrastructure in easement right-of-ways are clear of obstructions to include excessive tree/brush growth.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants/ General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Tree pruning near power lines can reduce the potential for trees falling on and breaking power lines.</i>	
<i>City of Holliday</i>	<i>Install electric utilities underground.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings through increased use of wind mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Increase the use of underground utilities where possible to reduce the</i>	

effects of downed power lines during windstorms.

<b>City of Lakeside City</b>	<b>Develop and implement system for ensuring maintenance of utility infrastructure in easement right-of-ways are clear of obstructions to include excessive tree/brush growth.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Windstorms
Priority (High, Medium, Low):	High
Estimated Cost:	\$5,000
Potential Funding Source:	Grants/General Budget
Lead Agency/Department Responsible:	Planning/Code Enforcement/Utilities
Implementation Schedule:	Possible 5 year implementation
Effect on New Buildings	This action will reduce the effects of windstorms on new buildings by ensuring the major impact of wind (trees) has been removed.
Effect on Existing Buildings	This action will reduce the effects of windstorms on existing buildings by ensuring the major impact of wind (trees) has been removed.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.
Discussion: Tree pruning near power lines can reduce the potential for trees falling on and breaking power lines.	
<b>City of Lakeside City</b>	<b>Install electric utilities underground.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Windstorms
Priority (High, Medium, Low):	High
Estimated Cost:	\$100,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Planning/Code Enforcement/Utilities/Public Works
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of windstorms on new buildings through increased use of wind mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.
Discussion: Increase the use of underground utilities where possible to reduce the effects of downed power lines during windstorms.	
<b>City of Megargel</b>	<b>Develop and implement system for ensuring maintenance of utility infrastructure in easement</b>

	<i>right-of-ways are clear of obstructions to include excessive tree/brush growth.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants/ General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Tree pruning near power lines can reduce the potential for trees falling on and breaking power lines.</i>	
<b><i>City of Megargel</i></b>	<b><i>Install electric utilities underground.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings through increased use of wind mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Increase the use of underground utilities where possible to reduce the effects of downed power lines during windstorms.</i>	
<b><i>City of Scotland</i></b>	<b><i>Develop and implement system for ensuring maintenance of utility infrastructure in easement right-of-ways are clear of obstructions to include excessive tree/brush growth.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>



<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Tree pruning near power lines can reduce the potential for trees falling on and breaking power lines.</i>	
<b><i>City of Scotland</i></b>	<b><i>Install electric utilities underground.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings through increased use of wind mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Increase the use of underground utilities where possible to reduce the effects of downed power lines during windstorms.</i>	
<b><i>City of Windthorst</i></b>	<b><i>Develop and implement system for ensuring maintenance of utility infrastructure in easement right-of-ways are clear of obstructions to include excessive tree/brush growth.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>

<i>Potential Funding Source:</i>	<i>Grants/General Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings by ensuring the major impact of wind (trees) has been removed.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Tree pruning near power lines can reduce the potential for trees falling on and breaking power lines.</i>	
<b><i>City of Windthorst</i></b>	<b><i>Install electric utilities underground.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Windstorms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Code Enforcement/Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of windstorms on new buildings through increased use of wind mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of windstorms on existing buildings through increased use of wind mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of windstorms.</i>
<i>Discussion: Increase the use of underground utilities where possible to reduce the effects of downed power lines during windstorms.</i>	

*Mitigation Action Items – Tornadoes*

<b><i>Archer County</i></b>	<b><i>Retrofit existing buildings and implement design and construction for community safe rooms and/or in-ground shelters.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornadoes</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>

<i>Estimated Cost:</i>	<i>\$2,000,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Emergency Management</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of tornados on new buildings but will increase the protection of those whom reside there.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of tornados on existing buildings but will increase the protection of those whom reside there.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects of tornados.</i>
<i>Discussion: Utilizing current specifications through FEMA publications, “safe” rooms will be installed at centralized critical facilities.</i>	
<b><i>Archer County</i></b>	<b><i>Retrofit power poles to critical facilities with power wraps to strengthen the poles to prevent breakage.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of tornados on new buildings through increased use of tornado mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of tornados on existing buildings through increased use of tornado mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of tornados.</i>
<i>Discussion: This would be for installing power wraps on power poles servicing critical facilities to decrease the potential power lose from poles breaking during a high wind event.</i>	
<b><i>City of Archer City</i></b>	<b><i>Develop and implement a program through FEMA that allows monetary assistance for homeowners to construct “Safe Room” shelters.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000,000</i>
<i>Potential Funding Source:</i>	<i>Grant Funding</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of tornados on new buildings but will increase the protection of those whom reside there.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of tornados on existing buildings but will increase the protection of those whom reside there.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the benefits would be to potentially reduce risk of lives lost due to tornados.</i>
<i>Discussion: This would be a reimbursement program providing up to \$3,000.00 per house hold to an individual who installs a safe room.</i>	
<b>City of Archer City</b>	<b><i>Retrofit power poles to critical facilities with power wraps to strengthen the poles to prevent breakage.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of tornados on new buildings through increased use of tornado mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of tornados on existing buildings through increased use of tornado mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of high winds during tornados.</i>
<i>Discussion: This would be for installing power wraps on power poles servicing critical facilities to decrease the potential power lose from poles breaking during a high wind event.</i>	
<b>City of Holliday</b>	<b><i>Develop and implement a program through FEMA that allows monetary assistance for homeowners to construct “Safe Room” shelters.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of tornados</i>

	<i>on new buildings but will increase the protection of those whom reside there.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of tornados on existing buildings but will increase the protection of those whom reside there.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the benefits would be to potentially reduce risk of lives lost due to tornados.</i>
<i>Discussion: This would be a reimbursement program providing up to \$3,000.00 per house hold to an individual who installs a safe room.</i>	
<b><i>City of Holliday</i></b>	<b><i>Retrofit power poles to critical facilities with power wraps to strengthen the poles to prevent breakage.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of tornados on new buildings through increased use of tornado mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of tornados on existing buildings through increased use of tornado mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of high winds during tornados.</i>
<i>Discussion: This would be for installing power wraps on power poles servicing critical facilities to decrease the potential power lose from poles breaking during a high wind event.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Develop and implement a program through FEMA that allows monetary assistance for homeowners to construct “Safe Room” shelters.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of tornados on new buildings but will increase the protection of those whom reside there.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of tornados</i>

	<i>on existing buildings but will increase the protection of those whom reside there.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the benefits would be to potentially reduce risk of lives lost due to tornados.</i>
<i>Discussion: This would be a reimbursement program providing up to \$3,000.00 per house hold to an individual who installs a safe room.</i>	
<b>City of Lakeside City</b>	<b><i>Retrofit power poles to critical facilities with power wraps to strengthen the poles to prevent breakage.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of tornados on new buildings through increased use of tornado mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of tornados on existing buildings through increased use of tornado mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of high winds during tornados.</i>
<i>Discussion: This would be for installing power wraps on power poles servicing critical facilities to decrease the potential power lose from poles breaking during a high wind event.</i>	
<b>City of Megargel</b>	<b><i>Develop and implement a program through FEMA that allows monetary assistance for homeowners to construct “Safe Room” shelters.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of tornados on new buildings but will increase the protection of those whom reside there.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of tornados on existing buildings but will increase the protection of those whom reside there.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but</i>

	<i>the benefits would be to potentially reduce risk of lives lost due to tornados.</i>
<i>Discussion: This would be a reimbursement program providing up to \$3,000.00 per house hold to an individual who installs a safe room.</i>	
<b>City of Megargel</b>	<b><i>Retrofit power poles to critical facilities with power wraps to strengthen the poles to prevent breakage.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$25,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of tornados on new buildings through increased use of tornado mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of tornados on existing buildings through increased use of tornado mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of high winds during tornados.</i>
<i>Discussion: This would be for installing power wraps on power poles servicing critical facilities to decrease the potential power lose from poles breaking during a high wind event.</i>	
<b>City of Scotland</b>	<b><i>Develop and implement a program through FEMA that allows monetary assistance for homeowners to construct “Safe Room” shelters.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of tornados on new buildings but will increase the protection of those whom reside there.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of tornados on existing buildings but will increase the protection of those whom reside there.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is high but the benefits would be to potentially reduce risk of lives lost due to tornados.</i>
<i>Discussion: This would be a reimbursement program providing up to \$3,000.00 per</i>	

<i>house hold to an individual who installs a safe room.</i>	
<b>City of Scotland</b>	<b>Retrofit power poles to critical facilities with power wraps to strengthen the poles to prevent breakage.</b>
Objective(s) Addressed:	1.2, 2.2, 5.1, 5.4
Hazards(s) Addressed:	Tornados
Priority (High, Medium, Low):	High
Estimated Cost:	\$250,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Utilities/Public Works
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of tornados on new buildings through increased use of tornado mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of tornados on existing buildings through increased use of tornado mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of high winds during tornados.
<i>Discussion: This would be for installing power wraps on power poles servicing critical facilities to decrease the potential power lose from poles breaking during a high wind event.</i>	
<b>City of Windthorst</b>	<b>Develop and implement a program through FEMA that allows monetary assistance for homeowners to construct “Safe Room” shelters.</b>
Objective(s) Addressed:	1.2, 2.2, 5.1, 5.4
Hazards(s) Addressed:	Tornados
Priority (High, Medium, Low):	High
Estimated Cost:	\$5,000,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will not reduce the effects of tornados on new buildings but will increase the protection of those whom reside there.
Effect on Existing Buildings	This action will not reduce the effects of tornados on existing buildings but will increase the protection of those whom reside there.
Cost Effectiveness	Cost Effective – The cost of this project is high but the benefits would be to potentially reduce risk of lives lost due to tornados.
<i>Discussion: This would be a reimbursement program providing up to \$3,000.00 per house hold to an individual who installs a safe room.</i>	
<b>City of Windthorst</b>	<b>Retrofit power poles to critical facilities with power wraps to strengthen the poles to prevent breakage.</b>



<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Tornados</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Utilities/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of tornados on new buildings through increased use of tornado mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of tornados on existing buildings through increased use of tornado mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of high winds during tornados.</i>
<i>Discussion: This would be for installing power wraps on power poles servicing critical facilities to decrease the potential power lose from poles breaking during a high wind event.</i>	

*Mitigation Action Items - Wildfires*

<i>Archer County</i>	<i>Implementation of wildfire mitigation activities in a manner consistent with the goals of promoting sustainable ecological management on community stability.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Employ mechanical thinning and prescribed burning to abate the risk of catastrophic fire and restore the more natural regime of high frequency, low-intensity burns. Prescribed burning can provide benefits to ecosystems by thinning hazards vegetation and restoring ecological diversity to areas homogenized by invasive plants. Use a variety of appropriate tools (prescribed fire application, fuel</i>	

reduction through grass/timber/brush removal). To address complex issue of mitigating wildfire hazards in urban/interface areas. Clear trimmings, trees, brush, and other debris completely from sites when performing routine maintenance and landscaping to reduce fire risk.

<b>Archer County</b>	<b>Reduce wildfire fuels.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Wildfires
Priority (High, Medium, Low):	High
Estimated Cost:	\$50,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management/Fire Departments
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.
Cost Effectiveness	Cost Effective – Cost of this project is low compared to the potential benefits of reducing the effects of wildfire.
<i>Discussion: Identify methods of disposal or utilization of fire fuels removed from individual.</i>	
<b>City of Archer City</b>	<b>Develop and implement, or enhance existing outreach and education programs aimed at mitigating wildfire hazards and reducing or preventing the exposure of citizens, public agencies, private property owners, and businesses to natural hazards.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Wildfires
Priority (High, Medium, Low):	High
Estimated Cost:	\$5,000.00
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management/Fire Departments/Code Enforcement
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to potential benefits of reducing effects

	<i>on wildfire. The cost of this project is high but the potential benefits would be reduced property damage due to flooding.</i>
<i>Discussion: (OUTREACH) Conduct specific community-based demonstration projects for fire prevention and mitigation; Perform public outreach and information activities at fire stations by creating “wildfire awareness week” activities. Fire stations can hold open houses and allow the public to visit, see the equipment, and discuss wildfire mitigation with station crews. (EDUCATION) Communities in the area need to develop public awareness programs and land use development policies that ensure specific recommendations for wildfire mitigation policies, programs, and community based activities that will be implemented and develop a “preventative approach” campaign by educating the public on hazardous human activities that should be regulated and controlled because of the danger of starting fires, including residential pile burning and industrial slash burning, campfires, smoking, and the use of fireplaces without spark arrestors.</i>	
<b>City of Archer City</b>	<b>Promote agricultural uses that reduce fuel loads.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments/Code Enforcement</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Educate the public on how agriculture can help reduce fuel loads and investigate and seek funding for conventional, chemical, and biological fuel reduction and weed control.</i>	
<b>City of Holliday</b>	<b>Development and dissemination of maps relating to fire hazards to help educate and assist builders and homeowners in being engaged in wildfire mitigations activities, and to help guide emergency services during response.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$20,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management/Fire Departments/Code</i>

<i>Responsible:</i>	<i>Enforcement</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Identify and establish a data-collection mechanism in coordination with county, state, and local governments, fire agencies, the insurance industry, and the National Fire Protection Association; Using collected data and research, assess the nature and scope of the wildland fire problem; Conduct risk analysis incorporating data and the city’s hazard maps using GIS technology to identify risk sites and further assist in prioritizing mitigation activities; and encourage coordination between fire jurisdictions and county GIS to make sure that the most accurate elevation maps are being used.</i>	
<i>City of Holliday</i>	<i>Educate agency personnel on federal cost-share and grant programs, fire protection agreements, and other related federal programs so the full array of assistance available to local agencies is understood.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments/Code Enforcement</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Investigate potential funding opportunities for individual mitigation projects; and develop, approve, and promote Fire Protection Agreements and partnerships to clarify roles and responsibilities and to provide for fire mitigation activities and suppression preparedness.</i>	
<i>City of Lakeside City</i>	<i>Development and dissemination of maps relating to fire hazards to help educate and assist builders and homeowners in being engaged in wildfire</i>

	<i>mitigations activities, and to help guide emergency services during response.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$20,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments/Code Enforcement</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Identify and establish a data-collection mechanism in coordination with county, state, and local governments, fire agencies, the insurance industry, and the National Fire Protection Association; Using collected data and research, assess the nature and scope of the wildland fire problem Lakeside City; Conduct risk analysis incorporating data and the city's hazard maps using GIS technology to identify risk sites and further assist in prioritizing mitigation activities; and coordination between fire jurisdictions and county GIS to make sure that the most accurate elevation maps are being used.</i>	
<i>City of Lakeside City</i>	<i>Educate agency personnel on federal cost-share and grant programs, fire protection agreements, and other related federal programs so the full array of assistance available to local agencies is understood.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments/Code Enforcement</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>

Cost Effectiveness	Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.
<i>Discussion: Investigate potential funding opportunities for individual mitigation projects; and develop, approve, and promote Fire Protection Agreements and partnerships to clarify roles and responsibilities and to provide for fire mitigation activities and suppression preparedness.</i>	
<b>City of Megargel</b>	<b>Development and dissemination of maps relating to fire hazards to help educate and assist builders and homeowners in being engaged in wildfire mitigations activities, and to help guide emergency services during response.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Wildfires
Priority (High, Medium, Low):	High
Estimated Cost:	\$20,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management/Fire Departments/Code Enforcement
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.
<i>Discussion: Identify and establish a data-collection mechanism in coordination with county, state, and local governments, fire agencies, the insurance industry, and the National Fire Protection Association; Using collected data and research, assess the nature and scope of the wildland fire problem Megargel; Conduct risk analysis incorporating data and the city's hazard maps using GIS technology to identify risk sites and further assist in prioritizing mitigation activities; and coordination between fire jurisdictions and county GIS to make sure that the most accurate elevation maps are being used.</i>	
<b>City of Megargel</b>	<b>Educate agency personnel on federal cost-share and grant programs, fire protection agreements, and other related federal programs so the full array of assistance available to local agencies is understood.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Wildfires
Priority (High, Medium, Low):	High
Estimated Cost:	\$5,000
Potential Funding Source:	Grants
Lead Agency/Department	Emergency Management/Fire Departments/Code

<i>Responsible:</i>	<i>Enforcement</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Investigate potential funding opportunities for individual mitigation projects; and develop, approve, and promote Fire Protection Agreements and partnerships to clarify roles and responsibilities and to provide for fire mitigation activities and suppression preparedness.</i>	
<i>City of Scotland</i>	<i>Development and dissemination of maps relating to fire hazards to help educate and assist builders and homeowners in being engaged in wildfire mitigations activities, and to help guide emergency services during response.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$20,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments/Code Enforcement</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Identify and establish a data-collection mechanism in coordination with county, state, and local governments, fire agencies, the insurance industry, and the National Fire Protection Association; Using collected data and research, assess the nature and scope of the wildland fire problem; Conduct risk analysis incorporating data and the city's hazard maps using GIS technology to identify risk sites and further assist in prioritizing mitigation activities; and coordination between fire jurisdictions and county GIS to make sure that the most accurate elevation maps are being used.</i>	
<i>City of Scotland</i>	<i>Educate agency personnel on federal cost-share and grant programs, fire protection agreements, and other related federal programs so the full array</i>

	<i>of assistance available to local agencies is understood.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments/Code Enforcement</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Investigate potential funding opportunities for individual mitigation projects; and develop, approve, and promote Fire Protection Agreements and partnerships to clarify roles and responsibilities and to provide for fire mitigation activities and suppression preparedness.</i>	
<i>City of Windthorst</i>	<i>Development and dissemination of maps relating to fire hazards to help educate and assist builders and homeowners in being engaged in wildfire mitigations activities, and to help guide emergency services during response.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Wildfires</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$20,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Fire Departments/Code Enforcement</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.</i>
<i>Discussion: Identify and establish a data-collection mechanism in coordination with county, state, and local governments, fire agencies, the insurance industry, and the</i>	



National Fire Protection Association; Using collected data and research, assess the nature and scope of the wildland fire problem; Conduct risk analysis incorporating data and the city's hazard maps using GIS technology to identify risk sites and further assist in prioritizing mitigation activities; and coordination between fire jurisdictions and county GIS to make sure that the most accurate elevation maps are being used.

<b>City of Windthorst</b>	<b>Educate agency personnel on federal cost-share and grant programs, fire protection agreements, and other related federal programs so the full array of assistance available to local agencies is understood.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Wildfires
Priority (High, Medium, Low):	High
Estimated Cost:	\$5,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management/Fire Departments/Code Enforcement
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of wildfire on new buildings through increased use of wildfire mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of wildfire on existing buildings through increased use of wildfire mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to potential benefits of reducing effects on wildfire.
Discussion: Investigate potential funding opportunities for individual mitigation projects; and develop, approve, and promote Fire Protection Agreements and partnerships to clarify roles and responsibilities and to provide for fire mitigation activities and suppression preparedness.	

Mitigation Action Items - Drought

<b>Archer County</b>	<b>Develop and Implement a drought contingency plan.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Drought
Priority (High, Medium, Low):	High
Estimated Cost:	\$5,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Public Works/Utilities/Planning/Extension Office
Implementation Schedule:	Possible 5 year implementation
Effect on New Buildings	This action will reduce the effects of drought on

	<i>new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of drought.</i>
<i>Discussion: Develop and Implement a drought contingency plan to include water conservation, building code requirements, mandatory water rationing. During times of drought, the demand for potable water may exceed the city’s capacity to produce sufficient potable water for domestic, sanitation and fire protection. The drought contingency plan provides the ability to regulate the use of potable water for non-essential uses.</i>	
<b>Archer County</b>	<b>Develop brochure to inform citizens on water conservation and safety precautions</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Emergency Management/Utilities/Extension Office</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of drought.</i>
<i>Discussion: Brochures would be developed from information from state agencies by the Emergency Management office with the assistance of the planning office, printed by city printing and distributed to citizens through a mass mailing; they would also be on hand at public building i.e. Library, fire stations.</i>	
<b>City of Archer City</b>	<b>Provide technical services administered by county-based agencies on effective methods of water use curtailment.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management/Public Information</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Provide technical services for local land owners on ways to reduce water use during drought emergencies, including voluntary and enforced methods, including no outside use of water (residential), mandatory reductions of certain uses, etc.</i>	
<b><i>City of Archer City</i></b>	<b><i>Authorize local governments to the use of inter-tie water systems.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works/Utilities/Planning</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Authorize local governments located proximate to one another, yet with separate water systems, to develop the physical capability to send water from one system to the other; and assist local governments planning to inter-tie water systems with agreements necessary to execute such projects.</i>	
<b><i>City of Holliday</i></b>	<b><i>Provide technical services administered by county-based agencies on effective methods of water use curtailment.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>

<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Provide technical services for local land owners on ways to reduce water use during drought emergencies, including voluntary and enforced methods, including no outside use of water (residential), mandatory reductions of certain uses, etc.</i>	
<b><i>City of Holliday</i></b>	<b><i>Authorize local governments to the use of inter-tie water systems.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works/Utilities/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Authorize local governments located proximate to one another, yet with separate water systems, to develop the physical capability to send water from one system to the other; and assist local governments planning to inter-tie water systems with agreements necessary to execute such projects.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Provide technical services administered by county-based agencies on effective methods of water use curtailment.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>

<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Provide technical services for local land owners on ways to reduce water use during drought emergencies, including voluntary and enforced methods, including no outside use of water (residential), mandatory reductions of certain uses, etc.</i>	
<i>City of Lakeside City</i>	<i>Authorize local governments to the use of inter-tie water systems.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works/Utilities/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Authorize local governments located proximate to one another, yet with separate water systems, to develop the physical capability to send water from one system to the other; and assist local governments planning to inter-tie water systems with agreements necessary to execute such projects.</i>	
<i>City of Megargel</i>	<i>Provide technical services administered by county-based agencies on effective methods of water use curtailment.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>

<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Provide technical services for local land owners on ways to reduce water use during drought emergencies, including voluntary and enforced methods, including no outside use of water (residential), mandatory reductions of certain uses, etc.</i>	
<b><i>City of Megargel</i></b>	<b><i>Authorize local governments to the use of inter-tie water systems.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works/Utilities/Planning</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Authorize local governments located proximate to one another, yet with separate water systems, to develop the physical capability to send water from one system to the other; and assist local governments planning to inter-tie water systems with agreements necessary to execute such projects.</i>	
<b><i>City of Scotland</i></b>	<b><i>Provide technical services administered by county-based agencies on effective methods of water use curtailment.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>

<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Provide technical services for local land owners on ways to reduce water use during drought emergencies, including voluntary and enforced methods, including no outside use of water (residential), mandatory reductions of certain uses, etc.</i>	
<b><i>City of Scotland</i></b>	<b><i>Authorize local governments to the use of inter-tie water systems.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works/Utilities/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Authorize local governments located proximate to one another, yet with separate water systems, to develop the physical capability to send water from one system to the other; and assist local governments planning to inter-tie water systems with agreements necessary to execute such projects.</i>	
<b><i>City of Windthorst</i></b>	<b><i>Provide technical services administered by county-based agencies on effective methods of water use curtailment.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>

<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>The Cost Effective – is cost is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Provide technical services for local land owners on ways to reduce water use during drought emergencies, including voluntary and enforced methods, including no outside use of water (residential), mandatory reductions of certain uses, etc.</i>	
<b><i>City of Windthorst</i></b>	<b><i>Authorize local governments to the use of inter-tie water systems.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Drought</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works/Utilities/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of drought on new buildings through increased use of drought mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of drought on existing buildings through increased use of drought mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a drought.</i>
<i>Discussion: Authorize local governments located proximate to one another, yet with separate water systems, to develop the physical capability to send water from one system to the other; and assist local governments planning to inter-tie water systems with agreements necessary to execute such projects.</i>	



Mitigation Action Items – Extreme Heat

<b>Archer County</b>	<b>Retrofit existing shelters into “Cooling Centers” for special needs population</b>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$250,000</i>
<i>Potential Funding Source:</i>	<i>Grant Funds General Fund</i>
<i>Lead Agency/Department Responsible:</i>	<i>Planning/Emergency Management/Water Depts.</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of extreme heat on new buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of extreme heat on existing buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: The project would identify the centralized location, and retrofit the location with additional and more efficient air conditioners to better accommodate the facility.</i>	
<b>Archer County</b>	<b>Install and maintain back-up power facilities at city-owned critical infrastructure</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$500,000</i>
<i>Potential Funding Source:</i>	<i>General Fund</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: The installation of a generator would allow for continued operations during power outages which might occur from extreme heat and other disasters.</i>	
<b>City of Archer City</b>	<b>Develop television program to be broadcast on</b>

	<i>local city channel to advise citizens of the dangers from extreme heat and the precautions they need to take to decrease the effects from extreme heat.</i>
<i>Objective(s) Addressed:</i>	<i>1.2, 2.2, 5.1, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$40,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>City Manager/Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: The program can be produced by the Public Information Office and broadcast over current city channel. Information will be gathered from state and federal agencies and National Weather Service.</i>	
<b><i>City of Archer City</i></b>	<b><i>Install and maintain back-up power facilities at city owned critical infrastructures.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$200,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Installation of generators will allow for continued operations during power outages which might occur from overloading circuits.</i>	
<b><i>City of Holliday</i></b>	<b><i>Install and maintain back-up power facilities at city owned critical infrastructures.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>

<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$200,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Installation of generators will allow for continued operations during power outages which might occur from overloading circuits.</i>	
<b><i>City of Holliday</i></b>	<b><i>Establish cooling centers for the city for special needs population.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$375,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of extreme heat on new buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of extreme heat on existing buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Summer heat can cause wide spread electrical outages resulting in dangerous conditions, especially for at-risk populations. Occasionally “cooling centers” are opened at community centers to provide a safe place for citizens to seek refuge from heat. Extreme heat can have economical impacts if construction work is curtailed or outdoor special events are cancelled.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Install and maintain back-up power facilities at city owned critical infrastructures.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>

<i>Estimated Cost:</i>	<i>\$200,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Installation of generators will allow for continued operations during power outages which might occur from overloading circuits.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Establish cooling centers for the city for special needs population.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$375,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of extreme heat on new buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of extreme heat on existing buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Summer heat can cause wide spread electrical outages resulting in dangerous conditions, especially for at-risk populations. Occasionally “cooling centers” are opened at community centers to provide a safe place for citizens to seek refuge from heat. Extreme heat can have economical impacts if construction work is curtailed or outdoor special events are cancelled.</i>	
<b><i>City of Megargel</i></b>	<b><i>Install and maintain back-up power facilities at city owned critical infrastructures.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$200,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>

<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Installation of generators will allow for continued operations during power outages which might occur from overloading circuits.</i>	
<b>City of Megargel</b>	<b>Establish cooling centers for the city for special needs population.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$375,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of extreme heat on new buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of extreme heat on existing buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Summer heat can cause wide spread electrical outages resulting in dangerous conditions, especially for at-risk populations. Occasionally “cooling centers” are opened at community centers to provide a safe place for citizens to seek refuge from heat. Extreme heat can have economical impacts if construction work is curtailed or outdoor special events are cancelled.</i>	
<b>City of Scotland</b>	<b>Install and maintain back-up power facilities at city owned critical infrastructures.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$200,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>

<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Installation of generators will allow for continued operations during power outages which might occur from overloading circuits.</i>	
<b>City of Scotland</b>	<b>Establish cooling centers for the city for special needs population.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$375,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>T This action will not reduce the effects of extreme heat on new buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of extreme heat on existing buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Summer heat can cause wide spread electrical outages resulting in dangerous conditions, especially for at-risk populations. Occasionally “cooling centers” are opened at community centers to provide a safe place for citizens to seek refuge from heat. Extreme heat can have economical impacts if construction work is curtailed or outdoor special events are cancelled.</i>	
<b>City of Windthorst</b>	<b>Install and maintain back-up power facilities at city owned critical infrastructures.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$200,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of extreme heat</i>

	<i>on new buildings through increased use of extreme heat mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of extreme heat on existing buildings through increased use of extreme heat mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Installation of generators will allow for continued operations during power outages which might occur from overloading circuits.</i>	
<b><i>City of Windthorst</i></b>	<b><i>Establish cooling centers for the city for special needs population.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Extreme Heat</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$375,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of extreme heat on new buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of extreme heat on existing buildings but will provide vulnerable citizens with a cool place to stay.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – This cost is low compared to potential benefits of reducing the effects of extreme heat.</i>
<i>Discussion: Summer heat can cause wide spread electrical outages resulting in dangerous conditions, especially for at-risk populations. Occasionally “cooling centers” are opened at community centers to provide a safe place for citizens to seek refuge from heat. Extreme heat can have economical impacts if construction work is curtailed or outdoor special events are cancelled.</i>	

**Mitigation Action Items – Hail**

<b><i>Archer County</i></b>	<b><i>Install and maintain hail resistant roofing on critical infrastructure buildings.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$25,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail.</i>
<i>Discussion: Damage from hail can be underestimated, although not preventable, damage and life safety risks from this.</i>	
<b>Archer County</b>	<b>Acquire and implement “Code Red” for all county residents for mass notification of severe weather or disasters.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$50,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of hail on new buildings but will inform the citizens of severe weather conditions.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of hail on existing buildings but will inform the citizens of severe weather conditions.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail storms.</i>
<i>Discussion: Severe thunderstorms can adversely impact the community due to threats to life, safety, and property. However, most of our hail storms come from severe thunderstorms.</i>	
<b>City of Archer City</b>	<b>Increase and maintain public awareness of severe thunderstorms and the benefits of mitigation activities through education aimed at households and businesses and increase targeting of special needs populations.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>



<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail.</i>
<i>Discussion: Collect additional information and add to existing informational sources on public education materials for protecting life, property, and the environment from severe weather events; Distribute educational materials to city residents and public and private sector organizations regarding evacuation routes during road closures; Distribute audience specific educational materials to schools, churches, and other public and private sector organizations; develop methods of improving emergency warning system; educate citizens about the variety of National Weather Service severe weather advisories; identify and contact at-risk populations such as the elderly or disabled not living in group home/assisted living facilities; and create inventory of supplies available for at-risk populations in severe weather situations.</i>	
<b>City of Archer City</b>	<b>Install and maintain hail resistant roofing on critical infrastructure buildings.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$25,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Planning</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail storms.</i>
<i>Discussion: Damage from hail can be underestimated, although not preventable, damage and life safety risks from this.</i>	
<b>City of Holliday</b>	<b>Increase and maintain public awareness of severe thunderstorms and the benefits of mitigation activities through education aimed at households and businesses and increase targeting of special needs populations.</b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>

<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail.</i>
<i>Discussion: Collect additional information and add to existing informational sources on public education materials for protecting life, property, and the environment from severe weather events; Distribute educational materials to city residents and public and private sector organizations regarding evacuation routes during road closures; Distribute audience specific educational materials to schools, churches, and other public and private sector organizations; develop methods of improving emergency warning system; educate citizens about the variety of National Weather Service severe weather advisories; identify and contact at-risk populations such as the elderly or disabled not living in group home/assisted living facilities; and create inventory of supplies available for at-risk populations in severe weather situations.</i>	
<b><i>City of Holliday</i></b>	<b><i>Install and maintain hail resistant roofing on critical infrastructure buildings.</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$25,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail storms.</i>
<i>Discussion: Damage from hail can be underestimated, although not preventable, damage and life safety risks from this.</i>	

<i>City of Lakeside City</i>	<i>Increase and maintain public awareness of severe thunderstorms and the benefits of mitigation activities through education aimed at households and businesses and increase targeting of special needs populations.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail.</i>
<i>Discussion: Collect additional information and add to existing informational sources on public education materials for protecting life, property, and the environment from severe weather events; Distribute educational materials to city residents and public and private sector organizations regarding evacuation routes during road closures; Distribute audience specific educational materials to schools, churches, and other public and private sector organizations; develop methods of improving emergency warning system; educate citizens about the variety of National Weather Service severe weather advisories; identify and contact at-risk populations such as the elderly or disabled not living in group home/assisted living facilities; and create inventory of supplies available for at-risk populations in severe weather situations.</i>	
<i>City of Lakeside City</i>	<i>Install and maintain hail resistant roofing on critical infrastructure buildings.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$25,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation</i>

	measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail storms.
<i>Discussion: Damage from hail can be underestimated, although not preventable, damage and life safety risks from this.</i>	
<b>City of Megargel</b>	<b>Increase and maintain public awareness of severe thunderstorms and the benefits of mitigation activities through education aimed at households and businesses and increase targeting of special needs populations.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Hail
Priority (High, Medium, Low):	High
Estimated Cost:	\$10,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail.
<i>Discussion: Collect additional information and add to existing informational sources on public education materials for protecting life, property, and the environment from severe weather events; Distribute educational materials to city residents and public and private sector organizations regarding evacuation routes during road closures; Distribute audience specific educational materials to schools, churches, and other public and private sector organizations; develop methods of improving emergency warning system; educate citizens about the variety of National Weather Service severe weather advisories; identify and contact at-risk populations such as the elderly or disabled not living in group home/assisted living facilities; and create inventory of supplies available for at-risk populations in severe weather situations.</i>	
<b>City of Megargel</b>	<b>Install and maintain hail resistant roofing on critical infrastructure buildings.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Hail
Priority (High, Medium, Low):	High
Estimated Cost:	\$25,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management/Planning

<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail storms.</i>
<i>Discussion: Damage from hail can be underestimated, although not preventable, damage and life safety risks from this.</i>	
<i>City of Scotland</i>	<i>Increase and maintain public awareness of severe thunderstorms and the benefits of mitigation activities through education aimed at households and businesses and increase targeting of special needs populations.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail.</i>
<i>Discussion: Collect additional information and add to existing informational sources on public education materials for protecting life, property, and the environment from severe weather events; Distribute educational materials to city residents and public and private sector organizations regarding evacuation routes during road closures; Distribute audience specific educational materials to schools, churches, and other public and private sector organizations; develop methods of improving emergency warning system; educate citizens about the variety of National Weather Service severe weather advisories; identify and contact at-risk populations such as the elderly or disabled not living in group home/assisted living facilities; and create inventory of supplies available for at-risk populations in severe weather situations.</i>	
<i>City of Scotland</i>	<i>Install and maintain hail resistant roofing on critical infrastructure buildings.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>

<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$25,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Planning</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail storms.</i>
<i>Discussion: Damage from hail can be underestimated, although not preventable, damage and life safety risks from this.</i>	
<i>City of Windthorst</i>	<i>Increase and maintain public awareness of severe thunderstorms and the benefits of mitigation activities through education aimed at households and businesses and increase targeting of special needs populations.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Hail</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail.</i>
<i>Discussion: Collect additional information and add to existing informational sources on public education materials for protecting life, property, and the environment from severe weather events; Distribute educational materials to city residents and public and private sector organizations regarding evacuation routes during road closures; Distribute audience specific educational materials to schools, churches, and other public and private sector organizations; develop methods of improving emergency warning system; educate citizens about the variety of National Weather Service</i>	

severe weather advisories; identify and contact at-risk populations such as the elderly or disabled not living in group home/assisted living facilities; and create inventory of supplies available for at-risk populations in severe weather situations.

<b>City of Windthorst</b>	<b>Install and maintain hail resistant roofing on critical infrastructure buildings.</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Hail
Priority (High, Medium, Low):	High
Estimated Cost:	\$25,000
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Emergency Management/Planning
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will reduce the effects of hail on new buildings through increased use of hail mitigation measures.
Effect on Existing Buildings	This action will reduce the effects of hail on existing buildings through increased use of hail mitigation measures.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to potential benefits of reducing the effects of hail storms.
<i>Discussion: Damage from hail can be underestimated, although not preventable, damage and life safety risks from this.</i>	

#### Mitigation Action Items – Winter Storms

<b>Archer County</b>	<b>Acquire and maintain road protection material for Ice and snow removal</b>
Objective(s) Addressed:	1.1, 3.1, 3.2, 3.3, 3.4, 5.4
Hazards(s) Addressed:	Winter Storms
Priority (High, Medium, Low):	High
Estimated Cost:	\$100,000.00
Potential Funding Source:	Grants
Lead Agency/Department Responsible:	Public Works
Implementation Schedule:	5 year implementation
Effect on New Buildings	This action will not reduce the effects of winterstorms on new buildings but will make traveling safer.
Effect on Existing Buildings	This action will not reduce the effects of winterstorm on existing buildings but will make traveling safer.
Cost Effectiveness	Cost Effective – The cost of this project is low compared to the potential benefits of reducing

	<i>the effects of a winterstorm.</i>
<i>Discussion: This project is to acquire new road material that can handle severe cold conditions and not deteriorate the current roadways. This would make it safer for the travelers and lesson the damage to roadways from the extreme temperatures.</i>	
<i>Archer County</i>	<i>Develop and maintain comprehensive impact data base and when possible, map and publicize historical severe weather events in Archer County. NOTE: Hazardous areas can be identified for the public so precautions can be taken at appropriate times. Information about the county road icing and county road closures due to snow or other severe winter storm events may already exist within county offices, yet it can be mapped and disseminated county wide to make residents knowledgeable about severe winter (and wind storms) events.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of winterstorm on new buildings through increased use of winterstorm mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of winterstorm on existing buildings through increased use of winterstorm mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winter storm.</i>
<i>Discussion: Research and analyze historical severe weather events’ damage in county. Identify and map reoccurring patterns; Identify a responsible agency for central collection and reporting of storm data. Data collected should include: Records of ice and snow in localities throughout Archer County; Maps of locations within Archer County most vulnerable to snow and ice, including roads, bridges and utility lines; Injury and property damage estimates, including locations. Identify a responsible agency to collect and transfer data to the National Climate Data Center, FEMA, or any other agency concerned with the incidence of storms, to help establish and maintain baseline and historic records of storm events. Document future events including impacts and losses. Identify public infrastructure and facilities subject to closures due to snow fall and ice hazards during winter storms.</i>	
<i>City of Archer City</i>	<i>Acquire and maintain road protection material for Ice and snow removal</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>



<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of winterstorms on new buildings but will make traveling safer.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of winterstorm on existing buildings but will make traveling safer.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winterstorm.</i>
<i>Discussion: This project is to acquire new road material that can handle severe cold conditions and not deteriorate the current roadways. This would make it safer for the travelers and lesson the damage to roadways from the extreme temperatures.</i>	
<i>City of Archer City</i>	<i>Develop and maintain comprehensive impact data base and when possible, map and publicize historical severe weather events in Archer County. NOTE: Hazardous areas can be identified for the public so precautions can be taken at appropriate times. Information about the county road icing and county road closures due to snow or other severe winter storm events may already exist within county offices, yet it can be mapped and disseminated county wide to make residents knowledgeable about severe winter (and wind storms) events.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of winterstorm on new buildings through increased use of winterstorm mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of winterstorm on existing buildings through increased use of winterstorm mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winter storm.</i>

*Discussion: Research and analyze historical severe weather events' damage in county. Identify and map reoccurring patterns; Identify a responsible agency for central collection and reporting of storm data. Data collected should include: Records of ice and snow in localities throughout Archer County; Maps of locations within Archer County most vulnerable to snow and ice, including roads, bridges and utility lines; Injury and property damage estimates, including locations. Identify a responsible agency to collect and transfer data to the National Climate Data Center, FEMA, or any other agency concerned with the incidence of storms, to help establish and maintain baseline and historic records of storm events. Document future events including impacts and losses. Identify public infrastructure and facilities subject to closures due to snow fall and ice hazards during winter storms.*

<i>City of Holliday</i>	<i>Acquire and maintain road protection material for Ice and snow removal</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of winterstorms on new buildings but will make traveling safer.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of winterstorm on existing buildings but will make traveling safer.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winterstorm.</i>
<i>Discussion: This project is to acquire new road material that can handle severe cold conditions and not deteriorate the current roadways. This would make it safer for the travelers and lesson the damage to roadways from the extreme temperatures.</i>	
<i>City of Holliday</i>	<i>Develop and maintain comprehensive impact data base and when possible, map and publicize historical severe weather events in Archer County. NOTE: Hazardous areas can be identified for the public so precautions can be taken at appropriate times. Information about the county road icing and county road closures due to snow or other severe winter storm events may already exist within county offices, yet it can be mapped and disseminated county wide to make residents knowledgeable about severe winter (and wind storms) events.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>

<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of winterstorm on new buildings through increased use of winterstorm mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of winterstorm on existing buildings through increased use of winterstorm mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winter storm.</i>
<i>Discussion: Research and analyze historical severe weather events' damage in county. Identify and map reoccurring patterns; Identify a responsible agency for central collection and reporting of storm data. Data collected should include: Records of ice and snow in localities throughout Archer County; Maps of locations within Archer County most vulnerable to snow and ice, including roads, bridges and utility lines; Injury and property damage estimates, including locations. Identify a responsible agency to collect and transfer data to the National Climate Data Center, FEMA, or any other agency concerned with the incidence of storms, to help establish and maintain baseline and historic records of storm events. Document future events including impacts and losses. Identify public infrastructure and facilities subject to closures due to snow fall and ice hazards during winter storms.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Acquire and maintain road protection material for Ice and snow removal</i></b>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of winterstorms on new buildings but will make traveling safer.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of winterstorm on existing buildings but will make traveling safer.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winterstorm.</i>
<i>Discussion: This project is to acquire new road material that can handle severe cold conditions and not deteriorate the current roadways. This would make it safer for the travelers and lesson the damage to roadways from the extreme temperatures.</i>	

<i>City of Lakeside City</i>	<i>Develop and maintain comprehensive impact data base and when possible, map and publicize historical severe weather events in Archer County. NOTE: Hazardous areas can be identified for the public so precautions can be taken at appropriate times. Information about the county road icing and county road closures due to snow or other severe winter storm events may already exist within county offices, yet it can be mapped and disseminated county wide to make residents knowledgeable about severe winter (and wind storms) events.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of winterstorm on new buildings through increased use of winterstorm mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of winterstorm on existing buildings through increased use of winterstorm mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winter storm.</i>
<i>Discussion: Research and analyze historical severe weather events' damage in county. Identify and map reoccurring patterns; Identify a responsible agency for central collection and reporting of storm data. Data collected should include: Records of ice and snow in localities throughout Archer County; Maps of locations within Archer County most vulnerable to snow and ice, including roads, bridges and utility lines; Injury and property damage estimates, including locations. Identify a responsible agency to collect and transfer data to the National Climate Data Center, FEMA, or any other agency concerned with the incidence of storms, to help establish and maintain baseline and historic records of storm events. Document future events including impacts and losses. Identify public infrastructure and facilities subject to closures due to snow fall and ice hazards during winter storms.</i>	
<i>City of Megargel</i>	<i>Acquire and maintain road protection material for Ice and snow removal</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Public Works</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of winterstorms on new buildings but will make traveling safer.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of winterstorm on existing buildings but will make traveling safer.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winterstorm.</i>
<i>Discussion: This project is to acquire new road material that can handle severe cold conditions and not deteriorate the current roadways. This would make it safer for the travelers and lesson the damage to roadways from the extreme temperatures.</i>	
<b>City of Megargel</b>	<i>Develop and maintain comprehensive impact data base and when possible, map and publicize historical severe weather events in Archer County. NOTE: Hazardous areas can be identified for the public so precautions can be taken at appropriate times. Information about the county road icing and county road closures due to snow or other severe winter storm events may already exist within county offices, yet it can be mapped and disseminated county wide to make residents knowledgeable about severe winter (and wind storms) events.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of winterstorm on new buildings through increased use of winterstorm mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of winterstorm on existing buildings through increased use of winterstorm mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winter storm.</i>
<i>Discussion: Research and analyze historical severe weather events' damage in county. Identify and map reoccurring patterns; Identify a responsible agency for central collection and reporting of storm data. Data collected should include: Records of ice and snow in localities throughout Archer County; Maps of locations within Archer County most vulnerable to snow and ice, including roads, bridges and</i>	

utility lines; Injury and property damage estimates, including locations. Identify a responsible agency to collect and transfer data to the National Climate Data Center, FEMA, or any other agency concerned with the incidence of storms, to help establish and maintain baseline and historic records of storm events. Document future events including impacts and losses. Identify public infrastructure and facilities subject to closures due to snow fall and ice hazards during winter storms.

<i>City of Scotland</i>	<i>Acquire and maintain road protection material for Ice and snow removal</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of winterstorms on new buildings but will make traveling safer.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of winterstorm on existing buildings but will make traveling safer.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winterstorm.</i>
<i>Discussion: This project is to acquire new road material that can handle severe cold conditions and not deteriorate the current roadways. This would make it safer for the travelers and lesson the damage to roadways from the extreme temperatures.</i>	
<i>City of Scotland</i>	<i>Develop and maintain comprehensive impact data base and when possible, map and publicize historical severe weather events in Archer County. NOTE: Hazardous areas can be identified for the public so precautions can be taken at appropriate times. Information about the county road icing and county road closures due to snow or other severe winter storm events may already exist within county offices, yet it can be mapped and disseminated county wide to make residents knowledgeable about severe winter (and wind storms) events.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>

<i>Effect on New Buildings</i>	<i>This action will reduce the effects of winterstorm on new buildings through increased use of winterstorm mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of winterstorm on existing buildings through increased use of winterstorm mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winter storm.</i>
<i>Discussion: Research and analyze historical severe weather events' damage in county. Identify and map reoccurring patterns; Identify a responsible agency for central collection and reporting of storm data. Data collected should include: Records of ice and snow in localities throughout Archer County; Maps of locations within Archer County most vulnerable to snow and ice, including roads, bridges and utility lines; Injury and property damage estimates, including locations. Identify a responsible agency to collect and transfer data to the National Climate Data Center, FEMA, or any other agency concerned with the incidence of storms, to help establish and maintain baseline and historic records of storm events. Document future events including impacts and losses. Identify public infrastructure and facilities subject to closures due to snow fall and ice hazards during winter storms.</i>	
<i>City of Windthorst</i>	<i>Acquire and maintain road protection material for Ice and snow removal</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000.00</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Public Works</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will not reduce the effects of winterstorms on new buildings but will make traveling safer.</i>
<i>Effect on Existing Buildings</i>	<i>This action will not reduce the effects of winterstorm on existing buildings but will make traveling safer.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winterstorm.</i>
<i>Discussion: This project is to acquire new road material that can handle severe cold conditions and not deteriorate the current roadways. This would make it safer for the travelers and lesson the damage to roadways from the extreme temperatures.</i>	
<i>City of Windthorst</i>	<i>Develop and maintain comprehensive impact data base and when possible, map and publicize historical severe weather events in Archer County. NOTE: Hazardous areas can be identified for the public so precautions can be taken at appropriate times. Information about the county road icing and</i>

	<i>county road closures due to snow or other severe winter storm events may already exist within county offices, yet it can be mapped and disseminated county wide to make residents knowledgeable about severe winter (and wind storms) events.</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 3.1, 3.2, 3.3, 3.4, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Winter Storms</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$10,000</i>
<i>Potential Funding Source:</i>	<i>Grants/Emergency Management Budget</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management/Public Information</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of winterstorm on new buildings through increased use of winterstorm mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of winterstorm on existing buildings through increased use of winterstorm mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a winter storm.</i>
<i>Discussion: Research and analyze historical severe weather events' damage in county. Identify and map reoccurring patterns; Identify a responsible agency for central collection and reporting of storm data. Data collected should include: Records of ice and snow in localities throughout Archer County; Maps of locations within Archer County most vulnerable to snow and ice, including roads, bridges and utility lines; Injury and property damage estimates, including locations. Identify a responsible agency to collect and transfer data to the National Climate Data Center, FEMA, or any other agency concerned with the incidence of storms, to help establish and maintain baseline and historic records of storm events. Document future events including impacts and losses. Identify public infrastructure and facilities subject to closures due to snow fall and ice hazards during winter storms.</i>	

*Mitigation Action Items – Dam/Levee Failures*

<i>Archer County</i>	<i>Install real time rain and water level gauges to provide advance warning of increasing levels.</i>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>



<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This projects to install real time rain and water level gauges on the Little Wichita River to allow time to warn public and public utilities to take precautions to decrease the damage to water treatment and sewer facilities.</i>	
<b><i>Archer County</i></b>	<b><i>Develop a public outreach strategy and implementation plan for dam failure.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 1.2, 1.3, 2.1</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This action will heighten public awareness of dam failure and actions that can be taken to prevent or reduce loss of life and property.</i>	
<b><i>City of Archer City</i></b>	<b><i>Install real time rain and water level gauges to provide advance warning of increasing levels.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This projects to install real time rain and water level gauges on the Little Wichita River to allow time to warn public and public utilities to take precautions to decrease the damage to water treatment and sewer facilities.</i>	
<b><i>City of Archer City</i></b>	<b><i>Develop a public outreach strategy and implementation plan for dam failure.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 1.2, 1.3, 2.1</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This action will heighten public awareness of dam failure and actions that can be taken to prevent or reduce loss of life and property.</i>	
<b><i>City of Holliday</i></b>	<b><i>Install real time rain and water level gauges to provide advance warning of increasing levels.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This projects to install real time rain and water level gauges on the Little Wichita River to allow time to warn public and public utilities to take precautions to decrease the damage to water treatment and sewer facilities.</i>	
<b><i>City of Holliday</i></b>	<b><i>Develop a public outreach strategy and implementation plan for dam failure.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 1.2, 1.3, 2.1</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This action will heighten public awareness of dam failure and actions that can be taken to prevent or reduce loss of life and property.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Install real time rain and water level gauges to provide advance warning of increasing levels.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This projects to install real time rain and water level gauges on the Little Wichita River to allow time to warn public and public utilities to take precautions to decrease the damage to water treatment and sewer facilities.</i>	
<b><i>City of Lakeside City</i></b>	<b><i>Develop a public outreach strategy and implementation plan for dam failure.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 1.2, 1.3, 2.1</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This action will heighten public awareness of dam failure and actions that can be taken to prevent or reduce loss of life and property.</i>	
<b><i>City of Megargel</i></b>	<b><i>Install real time rain and water level gauges to provide advance warning of increasing levels.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This projects to install real time rain and water level gauges on the Little Wichita River to allow time to warn public and public utilities to take precautions to decrease the damage to water treatment and sewer facilities.</i>	
<b><i>City of Megargel</i></b>	<b><i>Develop a public outreach strategy and implementation plan for dam failure.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 1.2, 1.3, 2.1</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This action will heighten public awareness of dam failure and actions that can be taken to prevent or reduce loss of life and property.</i>	
<b><i>City of Scotland</i></b>	<b><i>Install real time rain and water level gauges to provide advance warning of increasing levels.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This projects to install real time rain and water level gauges on the Little Wichita River to allow time to warn public and public utilities to take precautions to decrease the damage to water treatment and sewer facilities.</i>	
<b><i>City of Scotland</i></b>	<b><i>Develop a public outreach strategy and implementation plan for dam failure.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 1.2, 1.3, 2.1</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This action will heighten public awareness of dam failure and actions that can be taken to prevent or reduce loss of life and property.</i>	
<b><i>City of Windthorst</i></b>	<b><i>Install real time rain and water level gauges to provide advance warning of increasing levels.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>2.1, 2.2, 5.4</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$100,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department</i>	<i>Emergency Management</i>

<i>Responsible:</i>	
<i>Implementation Schedule:</i>	<i>Possible 5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This projects to install real time rain and water level gauges on the Little Wichita River to allow time to warn public and public utilities to take precautions to decrease the damage to water treatment and sewer facilities.</i>	
<b><i>City of Windthorst</i></b>	<b><i>Develop a public outreach strategy and implementation plan for dam failure.</i></b>
<i>Areas that are prone to flooding:</i>	<i>Little Wichita River</i>
<i>Objective(s) Addressed:</i>	<i>1.1, 1.2, 1.3, 2.1</i>
<i>Hazards(s) Addressed:</i>	<i>Dam/Levee Failures</i>
<i>Priority (High, Medium, Low):</i>	<i>High</i>
<i>Estimated Cost:</i>	<i>\$5,000</i>
<i>Potential Funding Source:</i>	<i>Grants</i>
<i>Lead Agency/Department Responsible:</i>	<i>Emergency Management</i>
<i>Implementation Schedule:</i>	<i>5 year implementation</i>
<i>Effect on New Buildings</i>	<i>This action will reduce the effects of dam failure on new buildings through increased use of dam mitigation measures.</i>
<i>Effect on Existing Buildings</i>	<i>This action will reduce the effects of dam failure on existing buildings through increased use of dam mitigation measures.</i>
<i>Cost Effectiveness</i>	<i>Cost Effective – The cost of this project is low compared to the potential benefits of reducing the effects of a dam failure.</i>
<i>Discussion: This action will heighten public awareness of dam failure and actions that can be taken to prevent or reduce loss of life and property.</i>	

## **Monitoring**

*Within the course of every five years, Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst elected officials, in coordination with the NRMAT-SC and the NRMAT general membership teams will undertake formal review and evaluation of the hazard analyses and this MAP to ensure the documents remain current. New mitigation measures will be developed and included in the revised document as necessary. A full, formal review, evaluation, and update process will be initiated in 2010 with any changes needed issued by or before January, 2013. In the future, information in this plan will be incorporated into other existing plans and reports. For example, Archer County's Emergency Management Coordinator will ensure that any change made to this MAP is reflected in his or her EOP.*

*The background information contained in the plan will be updated annually by Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst in coordination with NRPC staff. Any major substantive changes to the MAP will be brought back to the city council for consideration and formal adoption. A record of changes will be maintained during this process.*

*Again, Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst are committed to involving the public directly in the implementation and monitoring of this MAP. This MAP, including the hazard analysis will be posted on the NRPC's Emergency Preparedness Web site ([www.nortexrpc.org](http://www.nortexrpc.org)) and the public will have an opportunity to provide feedback on the plan on a continuing basis.*

*The planning committee developed a procedure for review and updating the plan. Each department which has an action item in the plan or is responsible for mitigating disasters will be on the committee, including, but not limited to, the following departments:*

*Emergency Management  
Planning  
Public Works  
Fire  
Police  
Transportation  
Streets  
Code Enforcement  
Public Information*

*This MAP will be reviewed on an annual basis by the planning committee. The meetings will be held in February of each year and will be scheduled by the Emergency Management Coordinator for Archer County. Prior to the meetings, each department within Archer County will obtain reports from the persons who are responsible for the implementation of each action item. Each goal will be reviewed to determine if the action items have been completed or need to be revised. The departments will then review the reports and, if necessary suggest revisions and justifications for the revisions to the plan.*



<i>Monitoring Actions</i>	<i>Involved Parties</i>	<i>Date</i>
<i>Notify Departments of Review</i>	<i>Emergency Management Coordinator (EMC)</i>	<i>January (annually)</i>
<i>Evaluate/Review Plan</i>	<i>EMC and city department heads</i>	<i>February (annually)</i>
<i>Hold Revisions Meeting</i>	<i>EMC and departments</i>	<i>March (annually if needed)</i>
<i>Update Plan</i>	<i>EMC</i>	<i>May (annually if needed)</i>

### **Evaluating**

The mitigation actions will be evaluated by each department at the first of each year. After notification from the Emergency Management Coordinator each department will determine if any of their actions are still viable or need to be revised. Actions could be removed if they have been accomplished or are no longer viable for inclusion in the plan. If actions are accomplished by other means other than those noted in the mitigation plan, this will also need to be documented in the plan. After evaluating the plan department will meet at the direction of the EMC to discuss the revisions. Revisions will then be forwarded to the Emergency Management Coordinator to update the plan.

<i>Evaluating Actions</i>	<i>Involved Parties</i>	<i>Date</i>
<i>Notify Departments of Review</i>	<i>Emergency Management Coordinator (EMC)</i>	<i>January (annually)</i>
<i>Evaluate/Review Plan</i>	<i>EMC and city department heads</i>	<i>February (annually)</i>
<i>Hold Revisions Meeting</i>	<i>EMC and departments</i>	<i>March (annually if needed)</i>
<i>Update Plan</i>	<i>EMC</i>	<i>May (annually if needed)</i>

Individuals within departments responsible for this MAP (as well as individuals responsible for the various plans mentioned in this MAP) shall use, but are not limited to using, the following criteria to evaluate:

Criteria	Yes	No	Solution
Are goals still applicable?			
Have any changes in the state or community made the goals obsolete or irrelevant?			
Do existing actions need to be reprioritized for implementation?			
Do the plan's priorities correspond with state priorities?			
Can actions be implemented with available resources?			

Source: Bringing the plan to life: Implementing the hazard mitigation plan, FEMA 386-4

### Updating

The Mitigation Action Plan will be reviewed and evaluated annually and updated if revisions are needed. The MAP will be formally updated every five years to include new hazards and new mitigation actions. Also in the plan will be updated on the disposition of existing mitigation actions to see if they are still viable and if they need to stay in the plan or be removed. Revisions will then be forwarded to the Emergency Management Coordinator to update the plan. The plan revisions will be completed within two months and returned to the each department and the State of Texas GDEM Mitigation Office. If no changes to the plan are necessary, justification will be forwarded to the State of Texas GDEM Mitigation Office.

A formal revision of the MAP will be done at the five year mark if no updates have been made before that time.

Updating Actions	Involved Parties	Date
Notify Departments of Review	Emergency Management Coordinator (EMC)	January (annually)
Evaluate/Review Plan	EMC and city department heads	February (annually)
Hold Revisions	EMC and departments	March (annually if

<i>Meeting</i>		<i>needed)</i>
<i>Solicit Public Opinion</i>	<i>EMC, departments, public</i>	<i>March (annually if needed)</i>
<i>Update Plan</i>	<i>EMC</i>	<i>May (annually if needed)</i>
<i>Send to State</i>	<i>EMC</i>	<i>June (annually if needed)</i>
<i>Send to FEMA</i>	<i>EMC/State</i>	<i>August (annually if needed)</i>
<i>Approved by FEMA</i>	<i>EMC/State/FEMA</i>	<i>November (annually if needed)</i>
<i>Publish Plan Update</i>	<i>EMC</i>	<i>December (annually if needed)</i>

*Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst are committed to implementing and maintaining the accuracy of this Hazard Mitigation Action Plan. The background information contained in the plan will be updated by the Archer County Emergency Management staff on an as needed basis as new data or information becomes available. Any major substantive changes to the Plan will be brought on to the County Commissioners Court and/or City Councils for consideration and formal adoption. These plan process includes a schedule for monitoring, evaluating, and updating the plans on an annual basis and producing a plan revision every five years.*

*New mitigation measures will be identified on the reviews of the Hazard Analysis and incorporated into any annual adjustment to the Plan. At least every five years, during the formal review and evaluation process, new mitigation measures will be developed and included in the new revised Plan. New mitigation measures will be approached to identify cost and benefits associated with hazard mitigation strategies or projects will fall into two general categories: benefit/cost analysis and cost-effectiveness analysis. Conducting a benefit/cost analysis for a mitigation action can assist Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later. Cost effectiveness analysis evaluates how best to spend a given amount of money to achieve a specific goal. Determining the economic feasibility of mitigating hazards can provide decision makers with an understanding of the potential benefits and costs of a mitigation action, as well as provide a basis upon which to compare alternative projects.*

*Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst are committed to involving the public directly in the review and updates of the Hazard Mitigation Action Plan. The Plan will have an opportunity to provide feedback on the Plan on a continuing basis. Public meeting*

will be announced by to the media to be passed on to the Citizens of Archer County. These meetings will give the public an opportunity to learn about local hazards they face and ways to protect themselves and their families and to provide an opportunity for public input into the Plan. Copies of the Plan will be available to the public at the Archer County's Emergency Management office.

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst elected officials, in coordination with the NRMAT-SC and the NRMAT general membership teams will be responsible for coordinating the implementation of actions identified in this MAP and undertaking other activities to reduce vulnerability and risks within the Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst.

## **SECTION VII - RESOURCES**

American Society of Civil Engineers (ASCE), "Facts about Windstorms." Web site: [www.windhazards.org/facts.cfm](http://www.windhazards.org/facts.cfm)

Bureau of Reclamation, U.S. Department of the Interior. Web site: [www.usbr.gov](http://www.usbr.gov)

Federal Emergency Management Agency (FEMA). Web site: [www.fema.gov](http://www.fema.gov)

National Climatic Data Center (NCDC), U.S. Department of Commerce,  
National Oceanic and Atmospheric Administration  
Web site: <http://lwf.ncdc.noaa.gov/oa/ncdc.html>

National Drought Mitigation Center, University of Nebraska-Lincoln Web site: [www.drought.unl.edu/index.htm](http://www.drought.unl.edu/index.htm)

National Severe Storms Laboratory (NSSL), U.S. Department of Commerce,  
National Oceanic and Atmospheric Administration Web site: [www.nssl.noaa.gov](http://www.nssl.noaa.gov)

National Weather Service (NWS), U.S. Department of Commerce, National Oceanic  
and Atmospheric Administration Web site: [www.nws.noaa.gov](http://www.nws.noaa.gov)

Storm Prediction Center (SPC), U.S. Department of Commerce, National Oceanic  
and Atmospheric Administration, National Weather Service Web site: [www.spc.noaa.gov](http://www.spc.noaa.gov)

The Tornado Project, St. Johnsbury, Vermont Web site: [www.tornadoproject.com](http://www.tornadoproject.com)

United States Geological Survey (USGS), U.S. Department of the Interior Web site: [www.usgs.gov](http://www.usgs.gov)

## SECTION VIII – APPENDICES

### Appendix 1

Archer County and Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst Sign-In Sheet – Public Meeting 1

Sign In Sheet for Nortex Regional Mitigation Action General Membership-County Wide Meeting  
 Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and  
 DATE 6/28/2005

MICHAEL CAVITT	EMERGENCY MGMT COORD. ARCHER COUNTY	Michael Cavitt
Amy Myers	Emergency Planner Nortex RPC	Amy Myers
Danny Fails	MAYOR Megargel	DANNY FAILS
Carl P. Klamm	City of Archuleta (Mayor)	Carl P. Klamm
Shirley York	Chief appraiser Archuleta	Shirley York
Don Sheppard	Lakeside City	DON SHEPPARD
TRAVIS BALL	County Extension Agent Archer Co	TRAVIS BALL
Paul Wylie	Archer County Judge	Paul Wylie
Lori Geis	Banking Officer State Nat Bank of IA	Lori Geis
Pat Martin III	Archer County Commissioner	Pat Martin III
Greg F. Vieth	councilman	Greg F. Vieth

## Appendix 2

Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel,

Scotland and Windthorst

Number of Surveys Distributed: 300

Number of Surveys Sent In: 80

### NATURAL HAZARD INFORMATION

1. In the past 5 years have you or someone in your household experienced a natural disaster such as an earthquake, flood, wildfire, or other type of disaster?

18 Yes 62 No

If yes, which of these disasters was experienced?

7 Drought 0 Flood 3 Household Fire

0 Earthquake 4 Wildfire 2 Winter Storm

10 Other (specify) Propane Truck Rollover (2), Straight Winds (1), Tornado (3), Wind & Storms (1), Hail (1), Other (1).

2. Have you ever received information about how to make your family and home safer from natural disasters?

35 Yes 42 No 3 No Response

3. What is the most effective way for you to receive information about how to make your family and home safer from natural disasters?

32 Newspaper      55 Television      14 Radio

18 Other (specify) Mail (5), Internet (1), Newsletter (1), Email (1),

News (1), Handouts (1), Community Programs (1), Phone (1).

4. What steps, if any, have you or someone in your household taken to prepare for a natural disaster? (**check all that apply**)

Have you stored or stocked up on:      6 Prepared a Disaster Supply Kit

27 Food      32 Received First Aid/CPR Training

29 Water      26 Made a Fire Escape Plan

64 Flashlight(s)      22 Developed a reconnection plan:

47 Batteries      12 Where to go and who to call

43 Battery-powered radio      Discussed utility shutoff

29 Medical Supplies      0 Other (please explain)

42 Fire Extinguisher

64 Smoke Detector

5. Does your household have insurance coverage for flood events?

7 Yes      68 No      5 No Response

If No what is the main reason your household does not have flood insurance?

(Check only one) \*

- 43 Not located in the floodplain      3 Deductibles too high  
5 Too expensive      3 Not familiar with it  
5 Not necessary      11 Never considered it  
1 Other Insurance provider does not carry flood insurance.

\* 3 Marked more than one on survey

**General Information**

6. Do you have access to the internet? 66 Yes 14 No
7. Do you own or rent your home? 74 Own 6 Rent
8. Do you rent/own a:  
69 Single Family Home      0 Duplex  
0 Apartment      5 Manufactured  
Home  
6 Other No Response on Survey

Other  
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(OPTIONAL)**



Your Name \_\_\_\_\_.

Address \_\_\_\_\_

\_\_\_\_\_

Phone \_\_\_\_\_

DRAFT

### Appendix 3

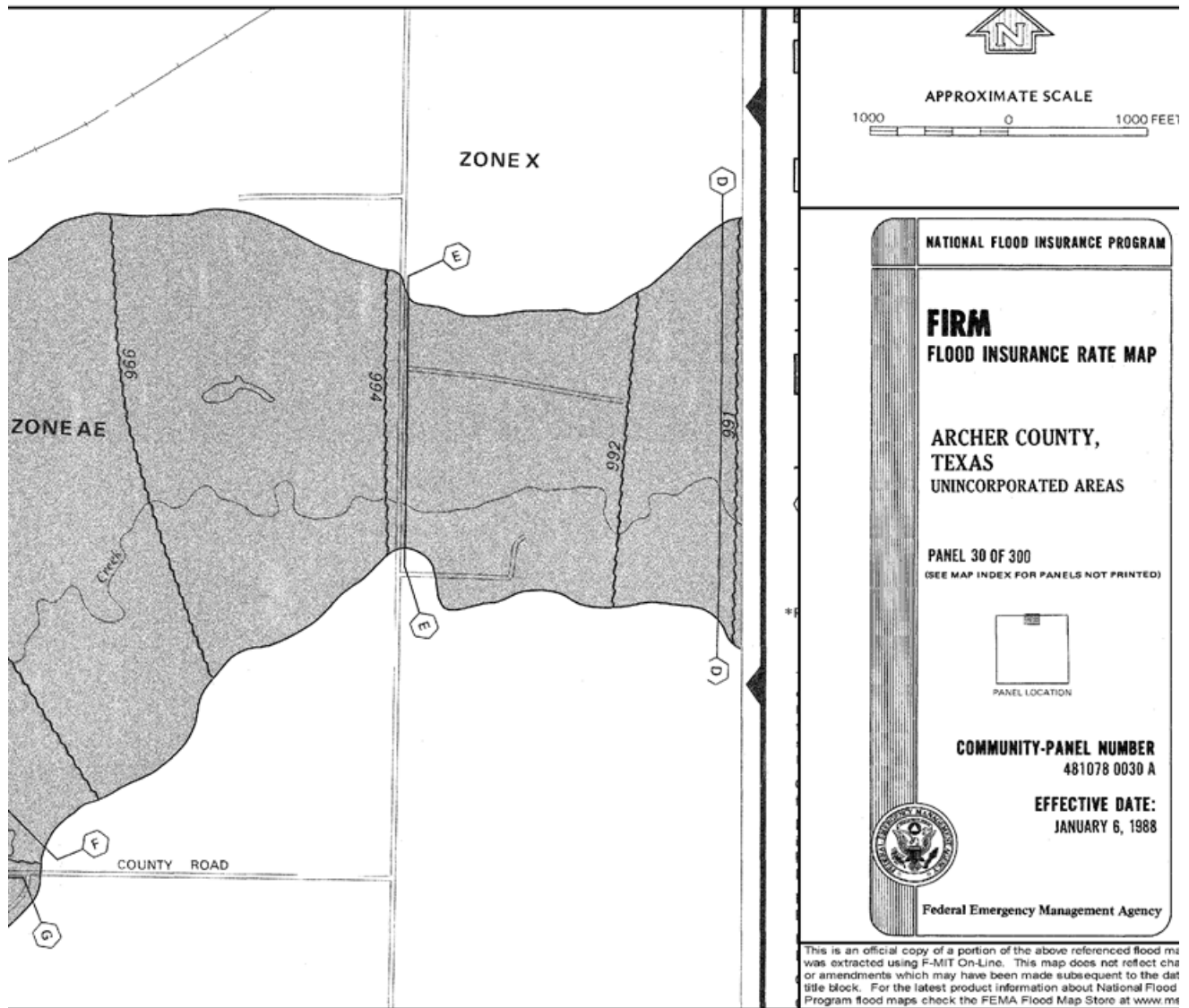
#### Archer County and the Cities of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst Community Past Mitigation Report

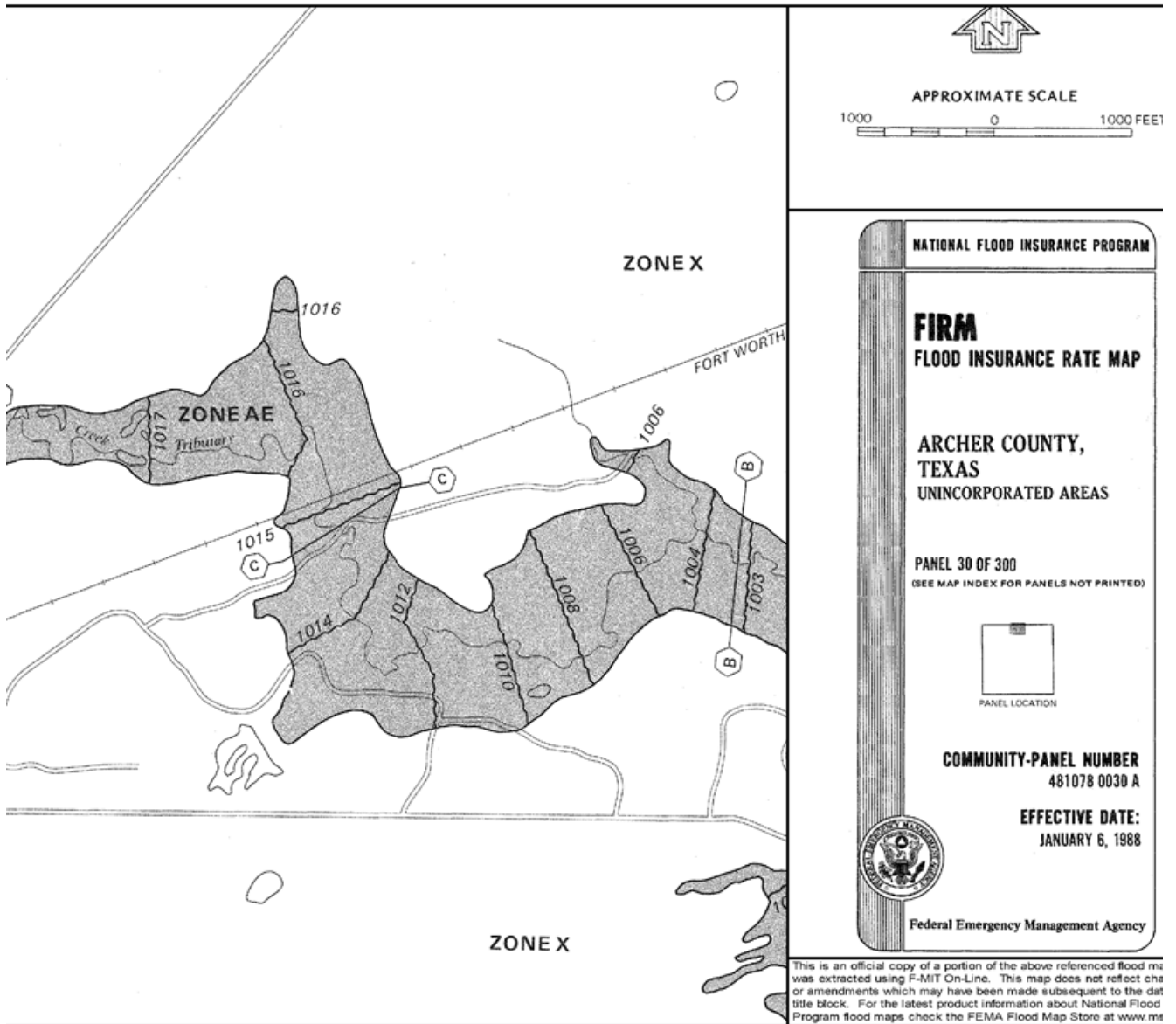
Community Past Mitigation Report		
<i>Name of your Community:</i>	<b>Archer County and City of Archer City, Holliday, Lakeside City, Megargel, Scotland and Windthorst</b>	
<i>Name of person and title of person doing report:</i>		
<i>Are the City/County Appraisal Roles in Tiger Files? If not what kind of files are they in?</i>	<b>Yes</b>	<b>No</b>
<i>Is your Community part of NFIP? Please, do not guess on this question, it could cause FEMA audit if it is wrong</i>	<b>Yes</b>	<b>No</b>
<i>Flood Plan Management Ordinances/ Order</i>		
<ul style="list-style-type: none"> <li>• <i>Date Adopted</i></li> <li>• <i>Explain inspection/permit process</i></li> <li>• <i>Numbers and Qualifications of Flood Administrators and Staff</i></li> <li>• <i>Numbers of inspections</i></li> <li>• <i>Number and Explanation of why permit variances were allowed for the past 12 months</i></li> </ul>		
<i>Please, attach the above information</i>		
<i>Where is your 100 year flood plain?</i>		
<i>Please explain and attach information</i>		
<i>Does your community have a small map of where your 100 year flood plan that will fit in a 2 inch Binder</i>	<b>Yes</b>	<b>No</b>
<i>How many structures are in that 100 year flood plain? Number of Structures_____</i>		
<i>What is the average depth of flooding for that area? See handout labeled flood for calculation</i>		
<i>Depth_____ is this in (Inches or Feet Circle one)</i>		
<i>Has your community ever used NFIP mitigation funds for a project like relocation, or buyouts of homes/business? If so what kind of project was it and what was involved please attach.</i>	<b>Yes</b>	<b>No</b>
<i>What do you plan on doing with the vacated land (park, raising taxes in that area so people can not redevelop it?)</i>		
		<b>242</b>

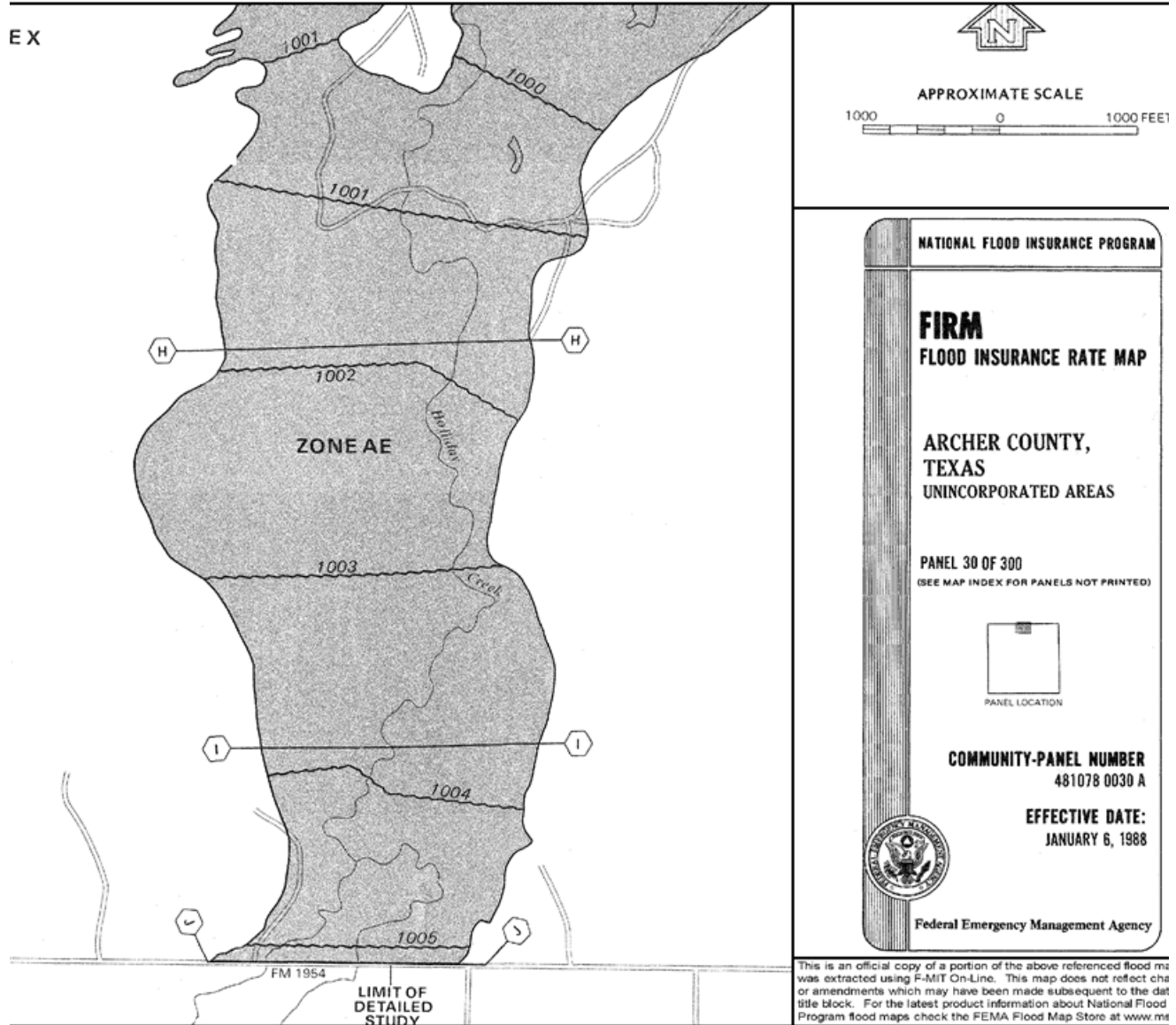


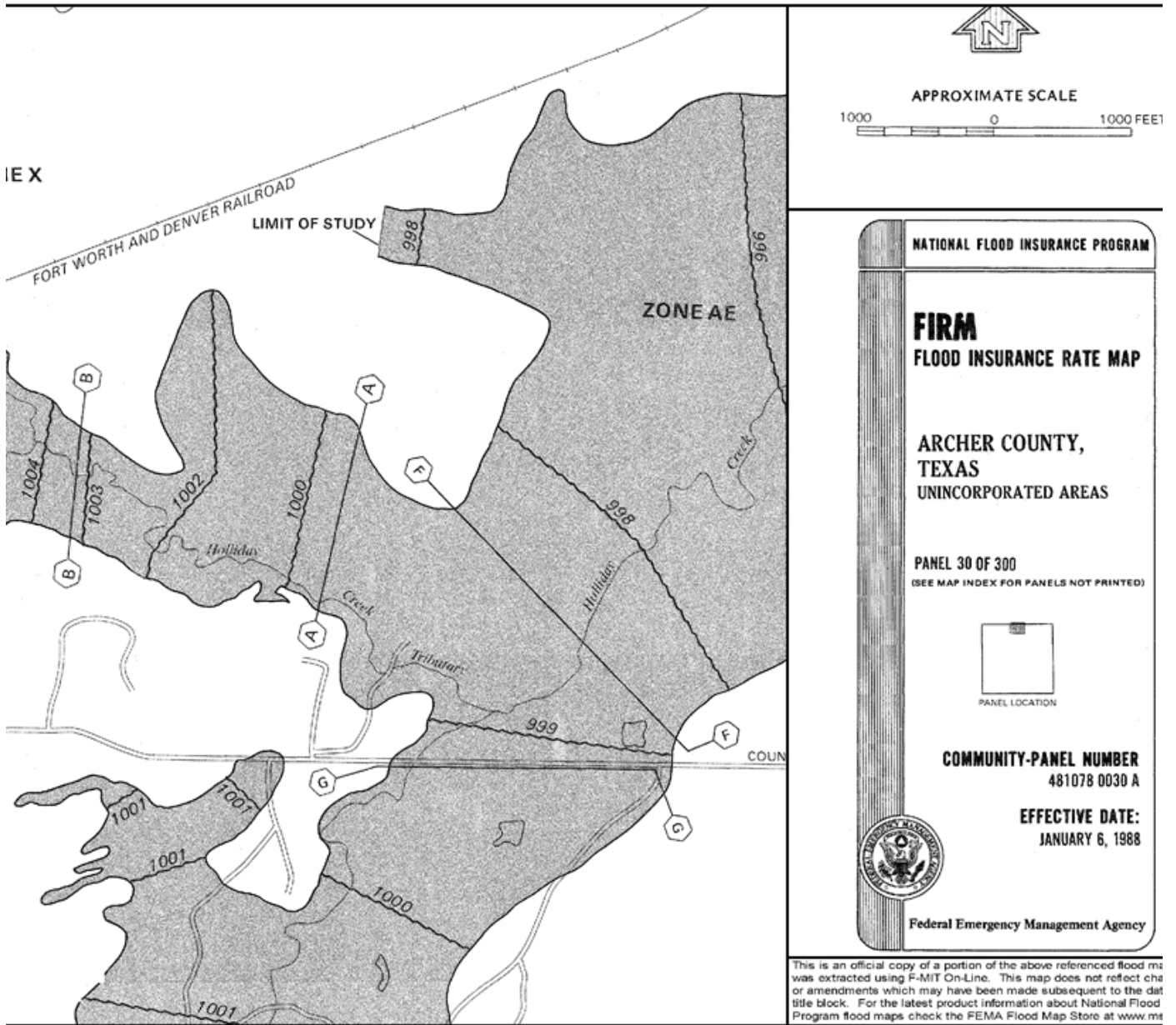
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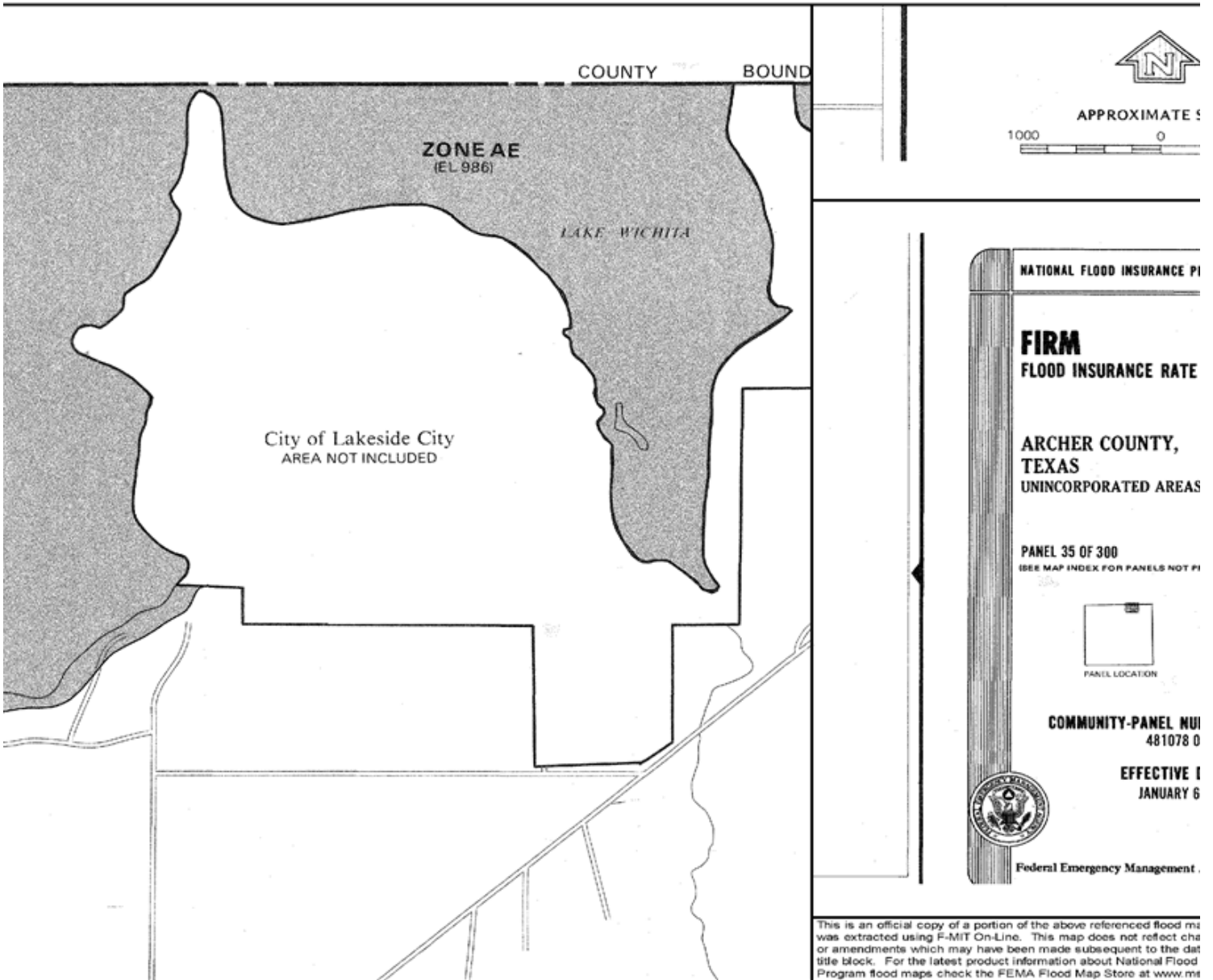
**Archer County and the City of Archer City, Holliday, Lakeside City, Megargel FIRMettes  
Archer County (1 of 11)**



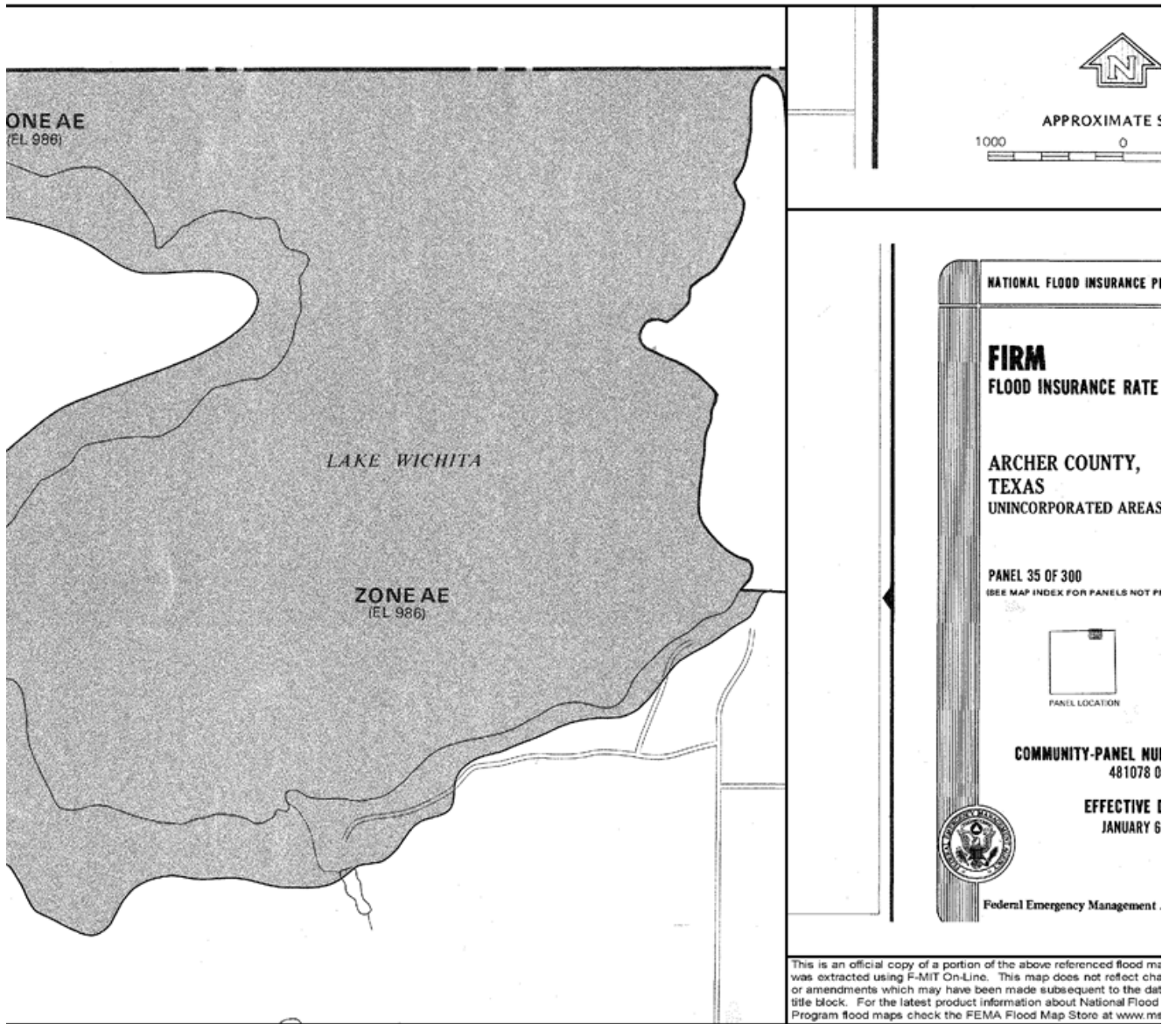


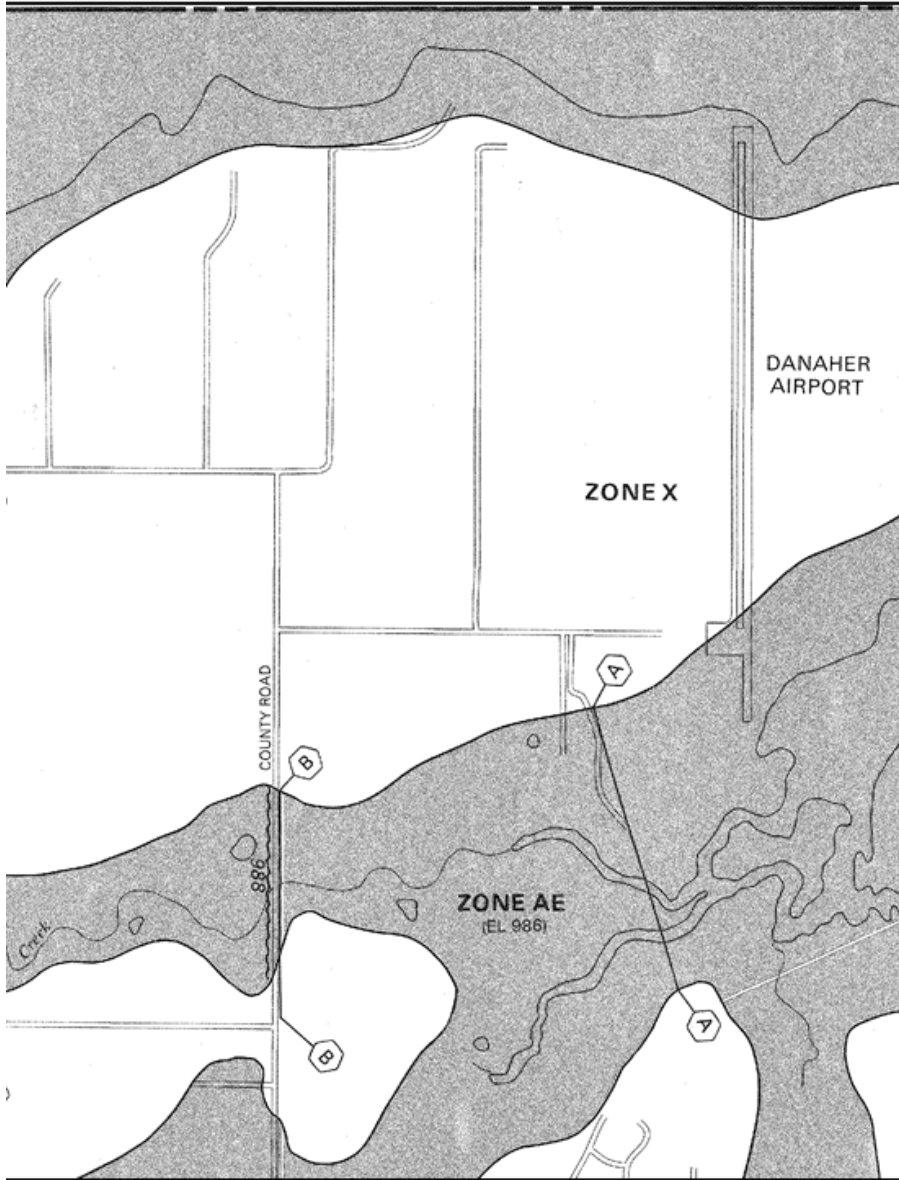




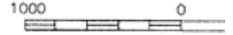








APPROXIMATE



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE

ARCHER COUNTY,  
TEXAS  
UNINCORPORATED AREAS

PANEL 35 OF 300  
(SEE MAP INDEX FOR PANELS NOT SHOWN)



PANEL LOCATION

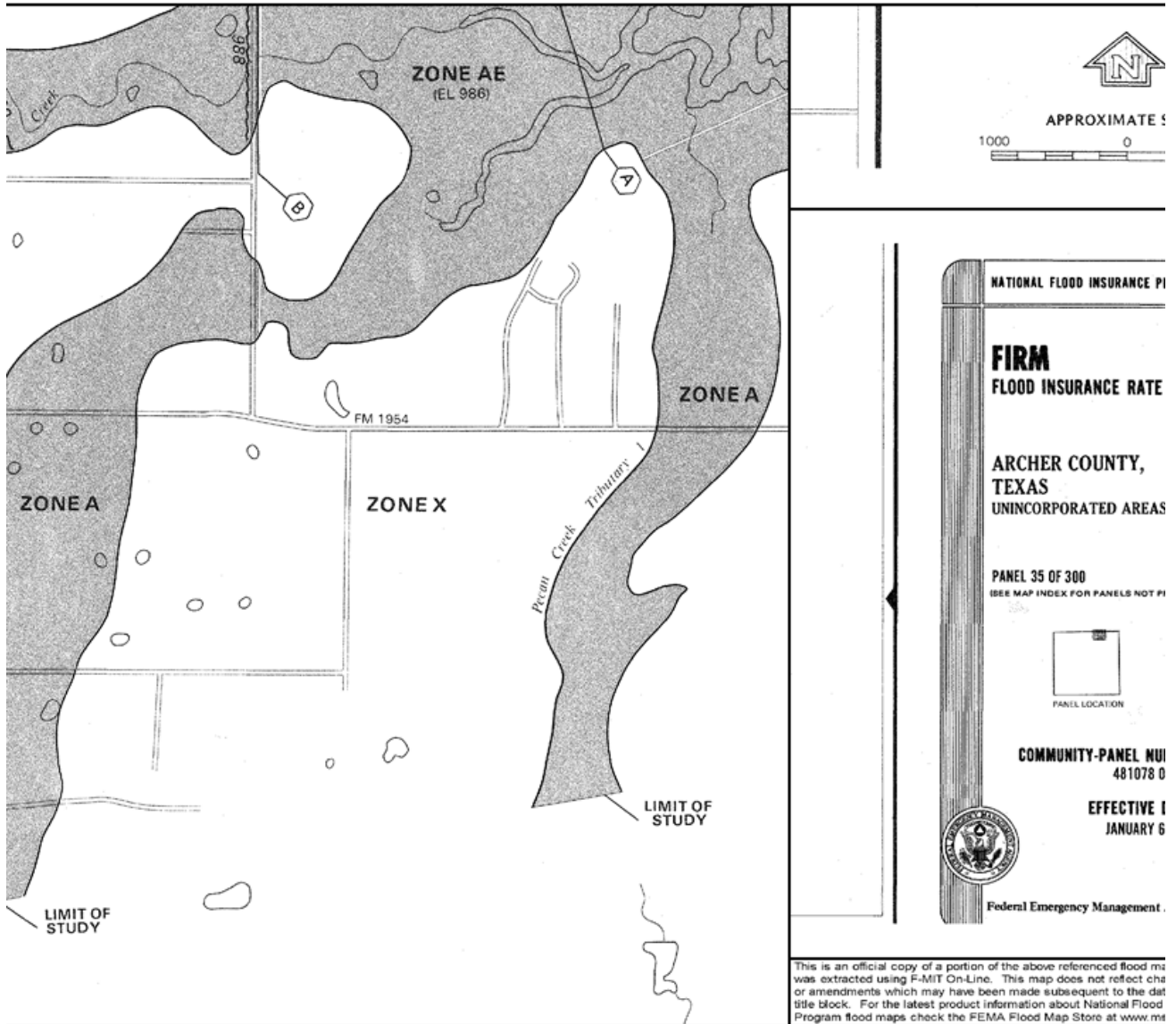
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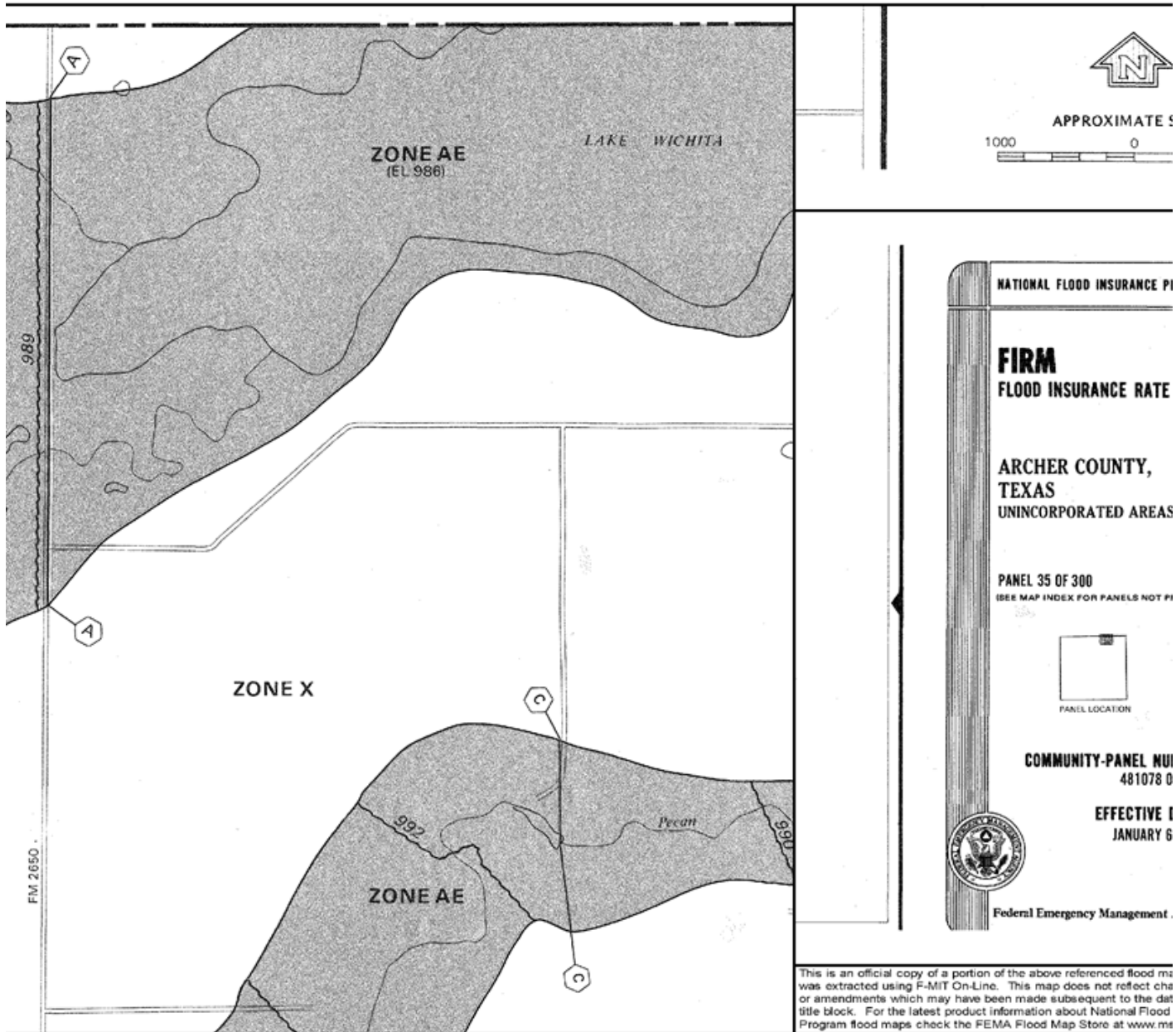
EFFECTIVE DATE  
JANUARY 6

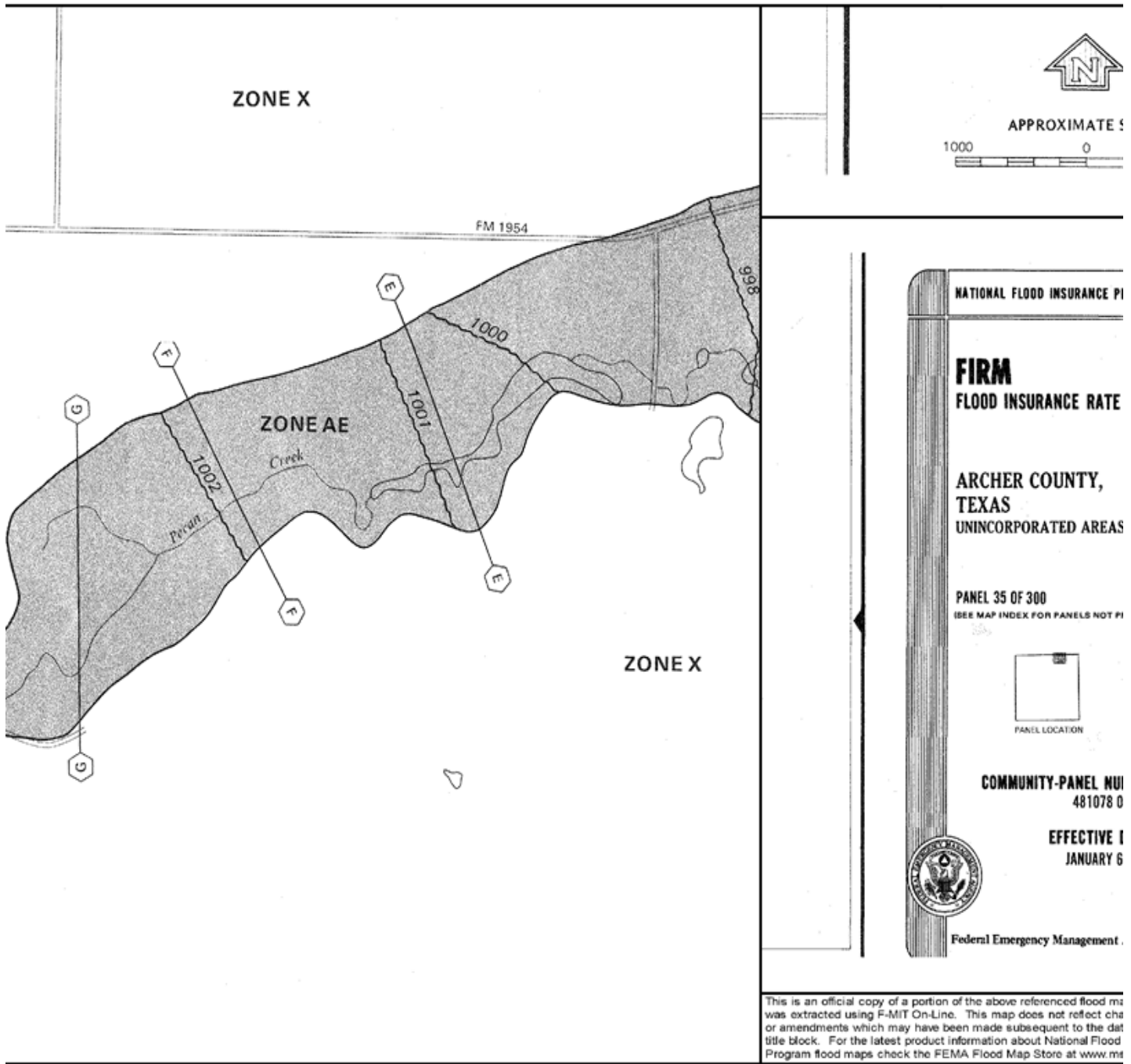


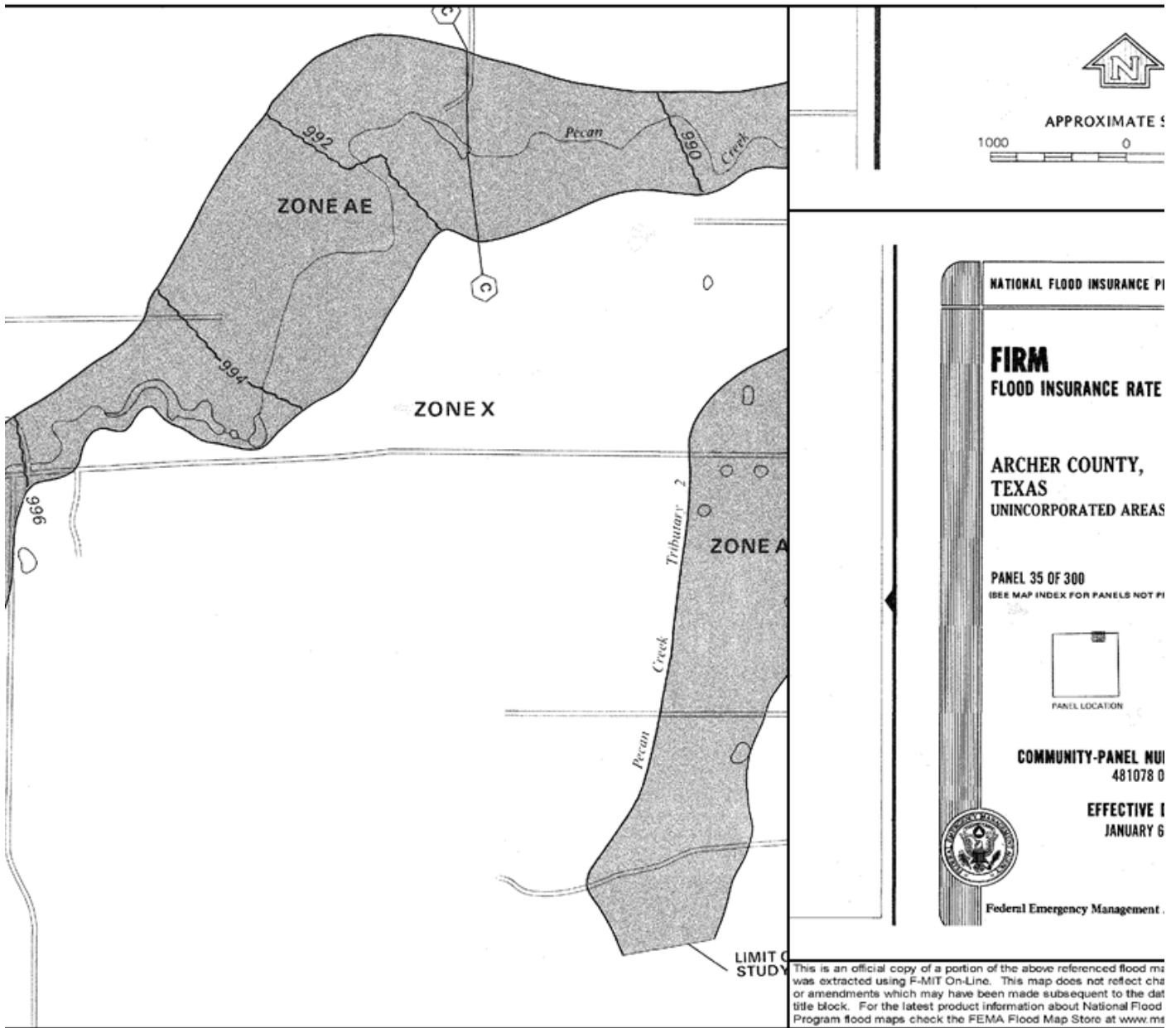
Federal Emergency Management Agency

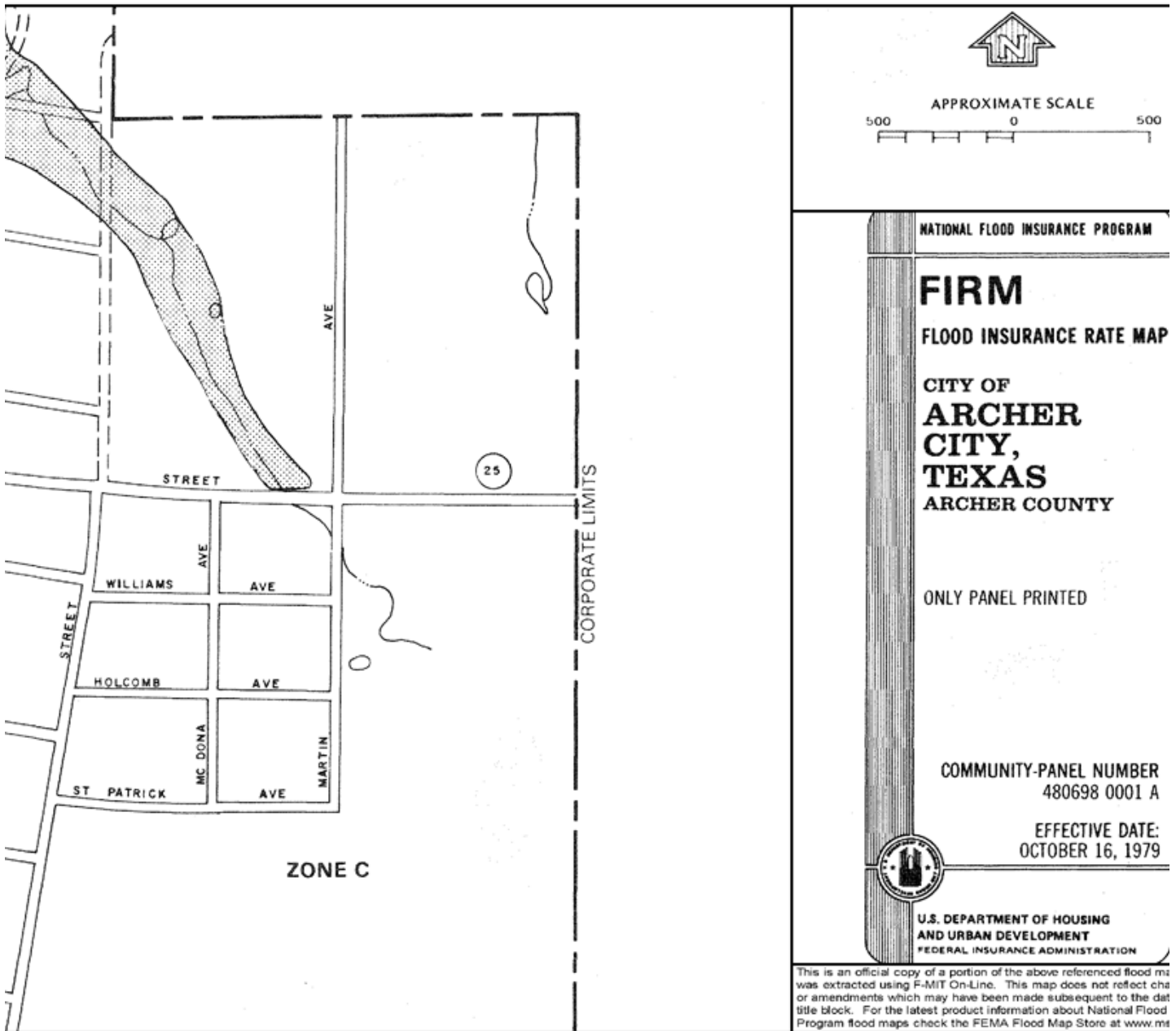
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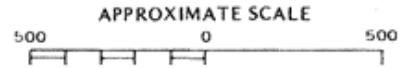
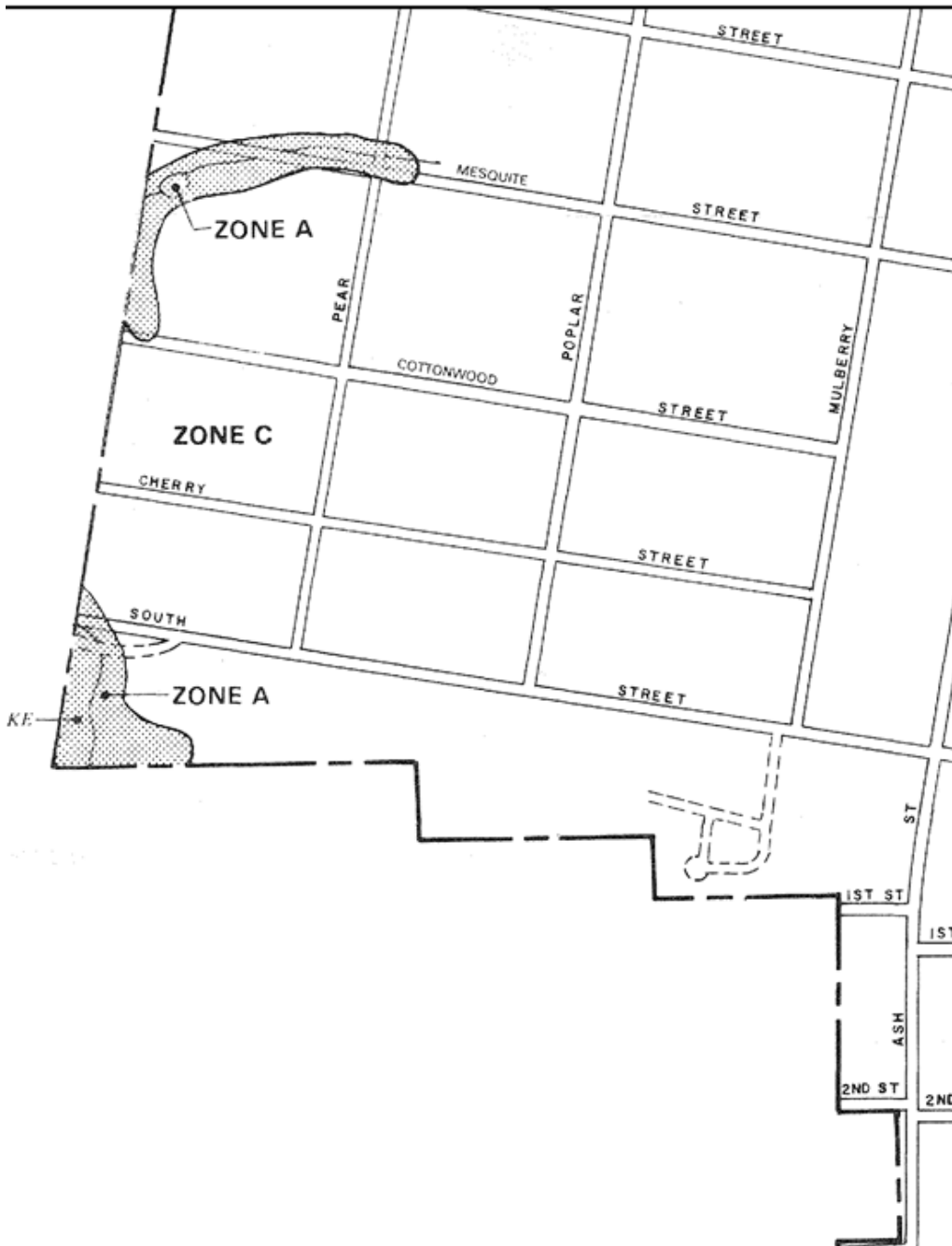












NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**

FLOOD INSURANCE RATE MAP

CITY OF  
**ARCHER  
CITY,  
TEXAS**  
ARCHER COUNTY

ONLY PANEL PRINTED

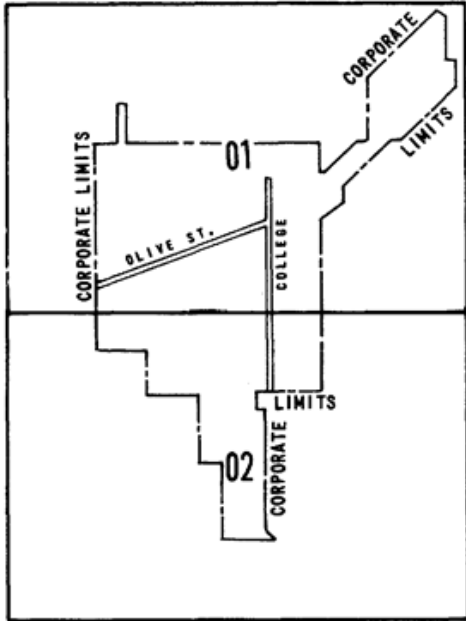
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480698 0001 A

EFFECTIVE DATE:  
OCTOBER 16, 1979



U.S. DEPARTMENT OF HOUSING  
AND URBAN DEVELOPMENT  
FEDERAL INSURANCE ADMINISTRATION

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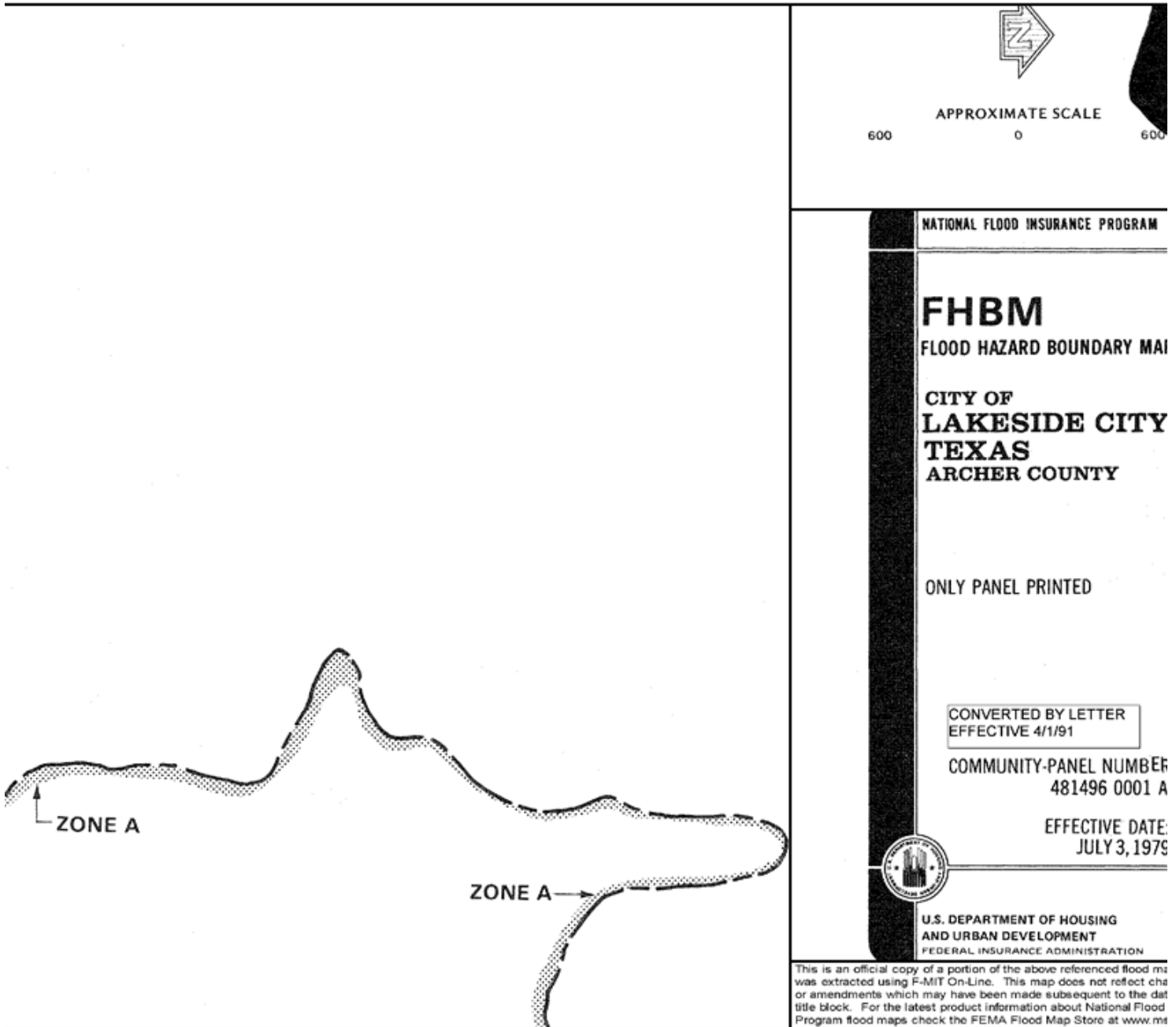
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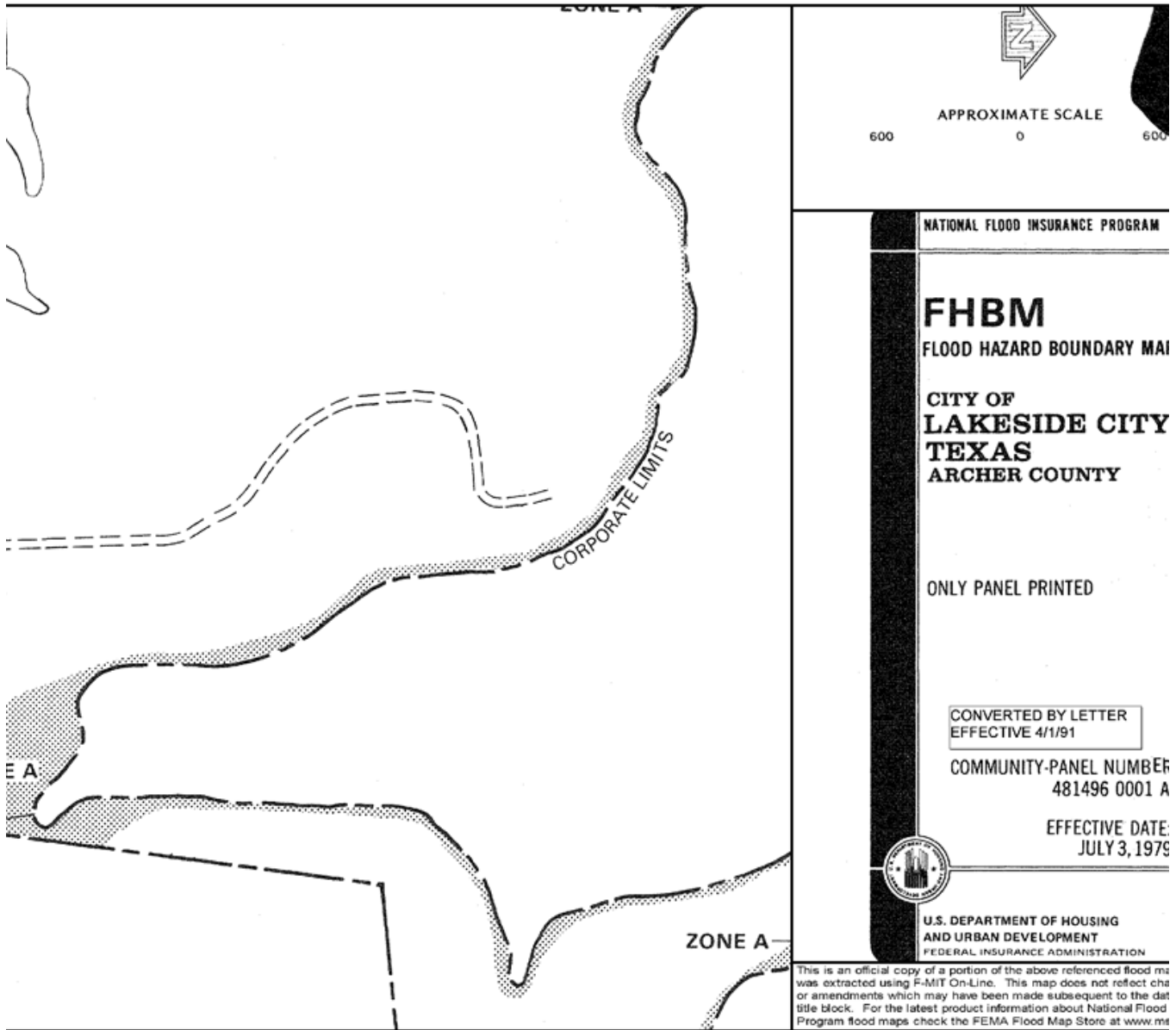
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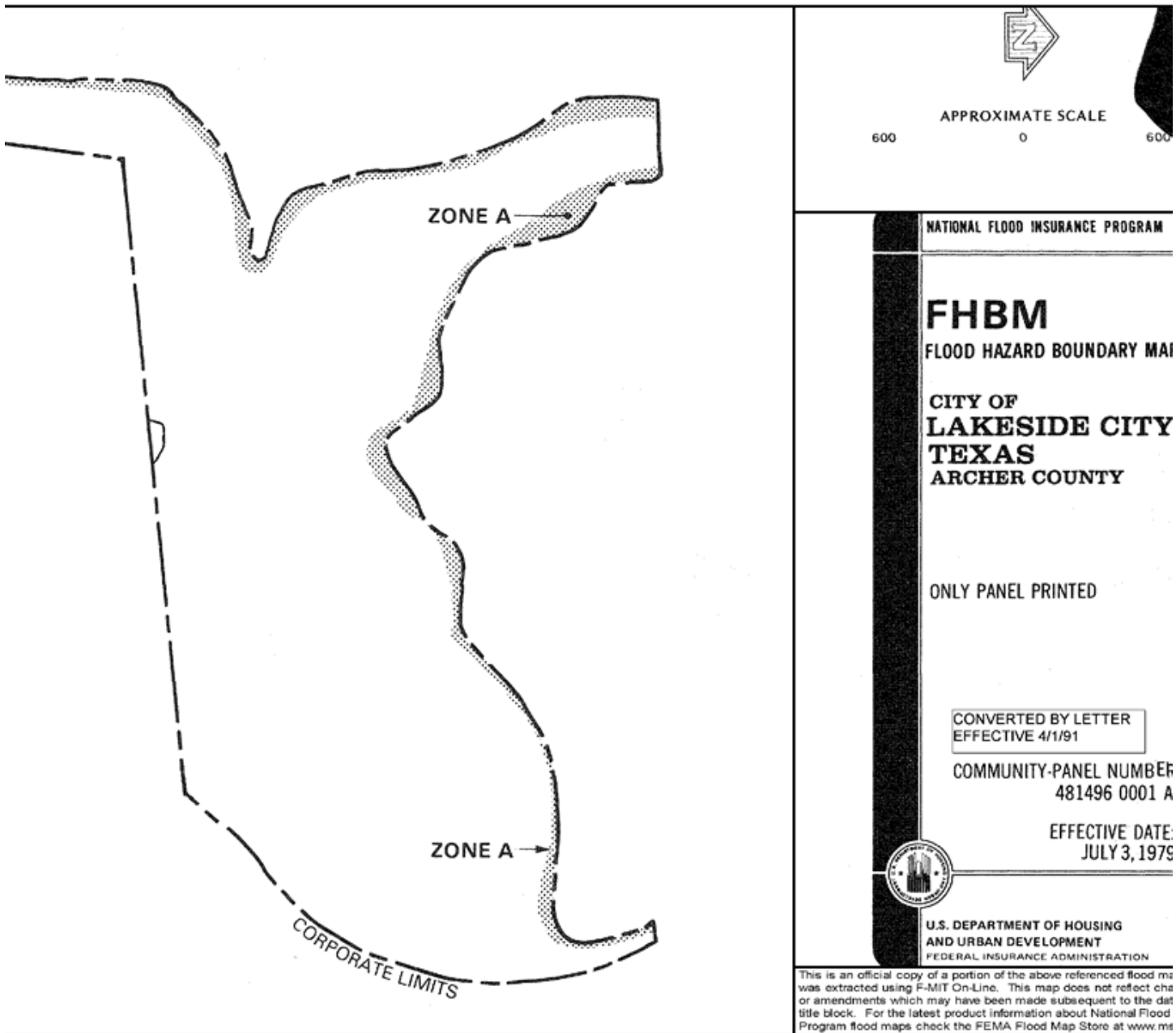
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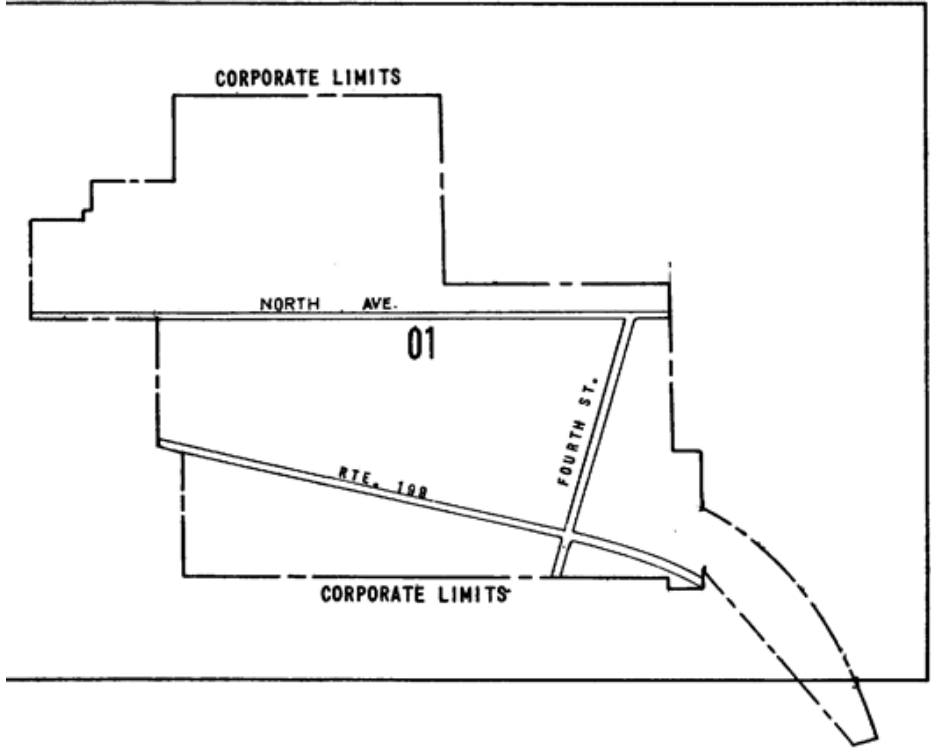
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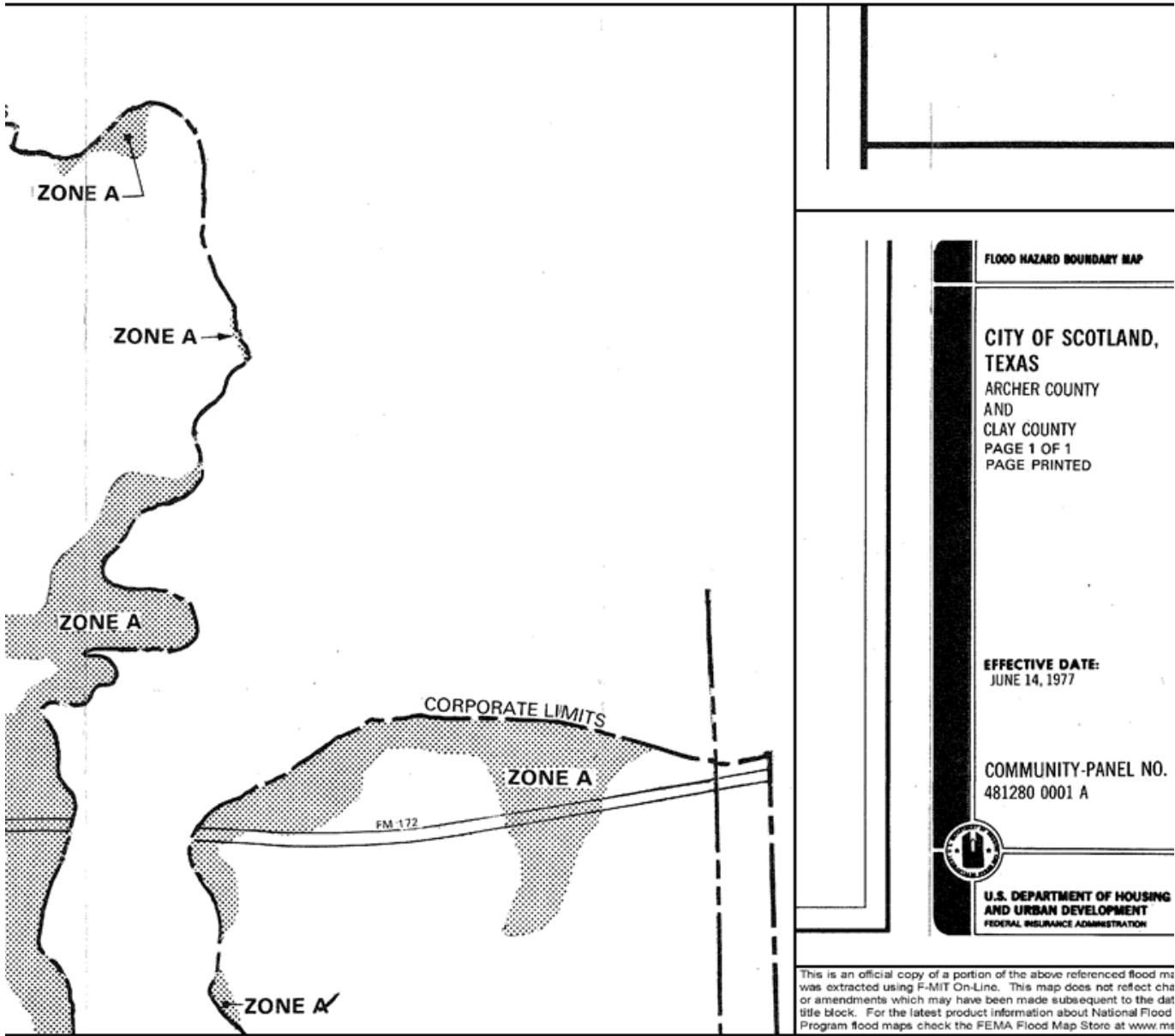


**ZONE A**  
E: (DATE)

**N DEVELOPMENT**  
tion  
, TX

APS

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FLOOD HAZARD BOUNDARY MAP

CITY OF SCOTLAND,  
TEXAS  
ARCHER COUNTY  
AND  
CLAY COUNTY  
PAGE 1 OF 1  
PAGE PRINTED

EFFECTIVE DATE:  
JUNE 14, 1977

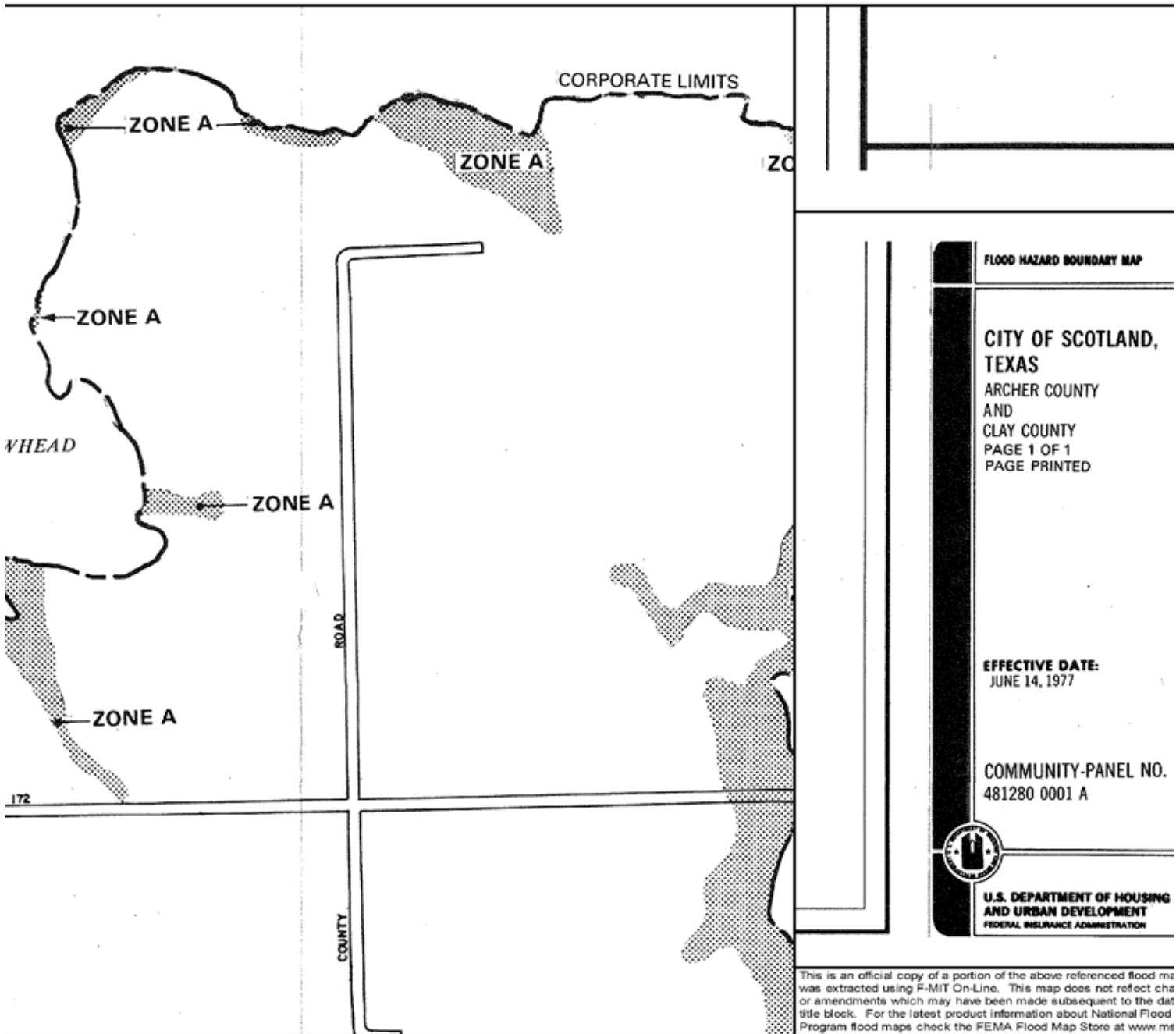
COMMUNITY-PANEL NO.  
481280 0001 A



U.S. DEPARTMENT OF HOUSING  
AND URBAN DEVELOPMENT  
FEDERAL INSURANCE ADMINISTRATION

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FLOOD HAZARD BOUNDARY MAP

**CITY OF SCOTLAND,  
TEXAS**  
ARCHER COUNTY  
AND  
CLAY COUNTY  
PAGE 1 OF 1  
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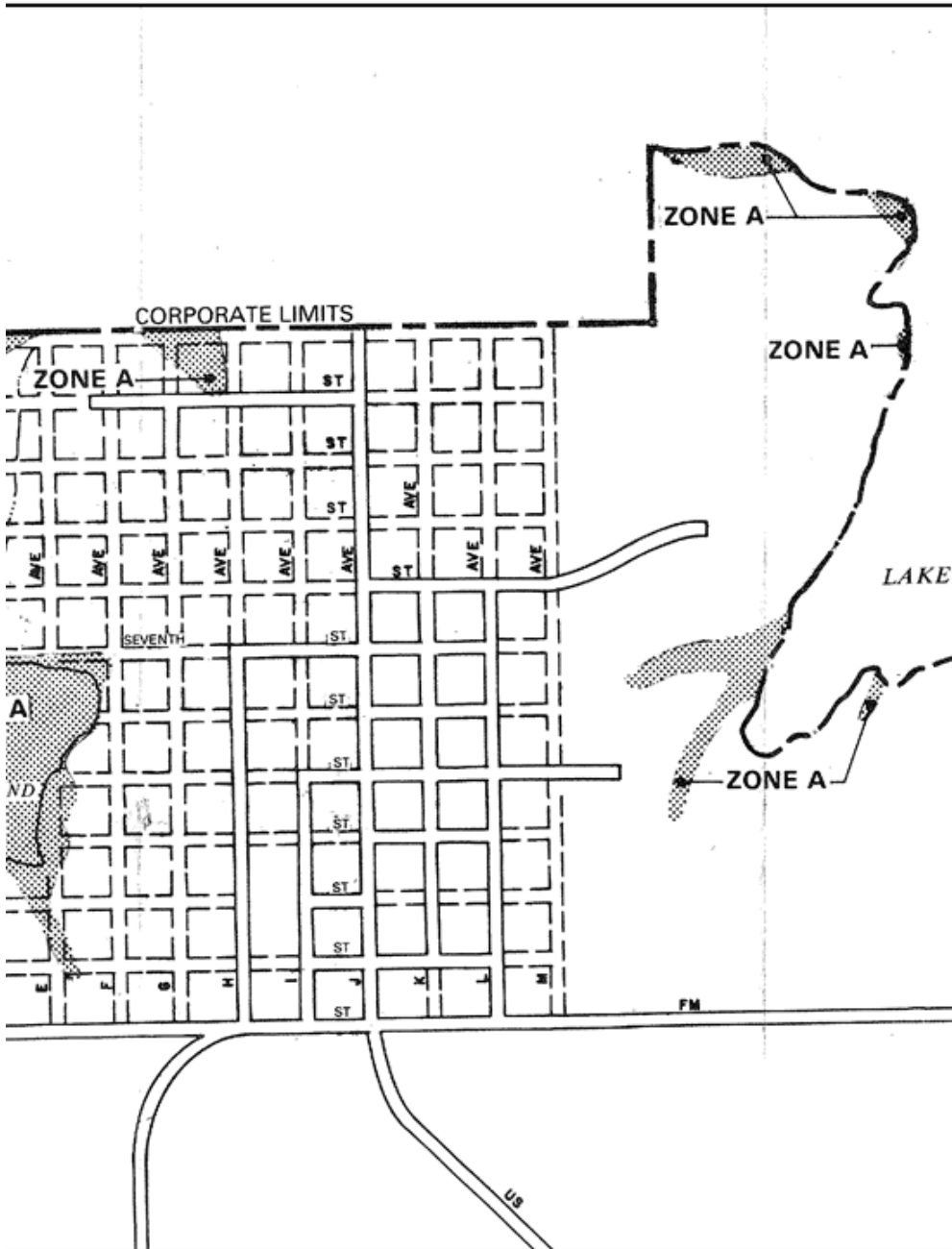
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**COMMUNITY-PANEL NO.**  
481280 0001 A



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FLOOD HAZARD BOUNDARY MAP

**CITY OF SCOTLAND,  
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ARCHER COUNTY  
AND  
CLAY COUNTY  
PAGE 1 OF 1  
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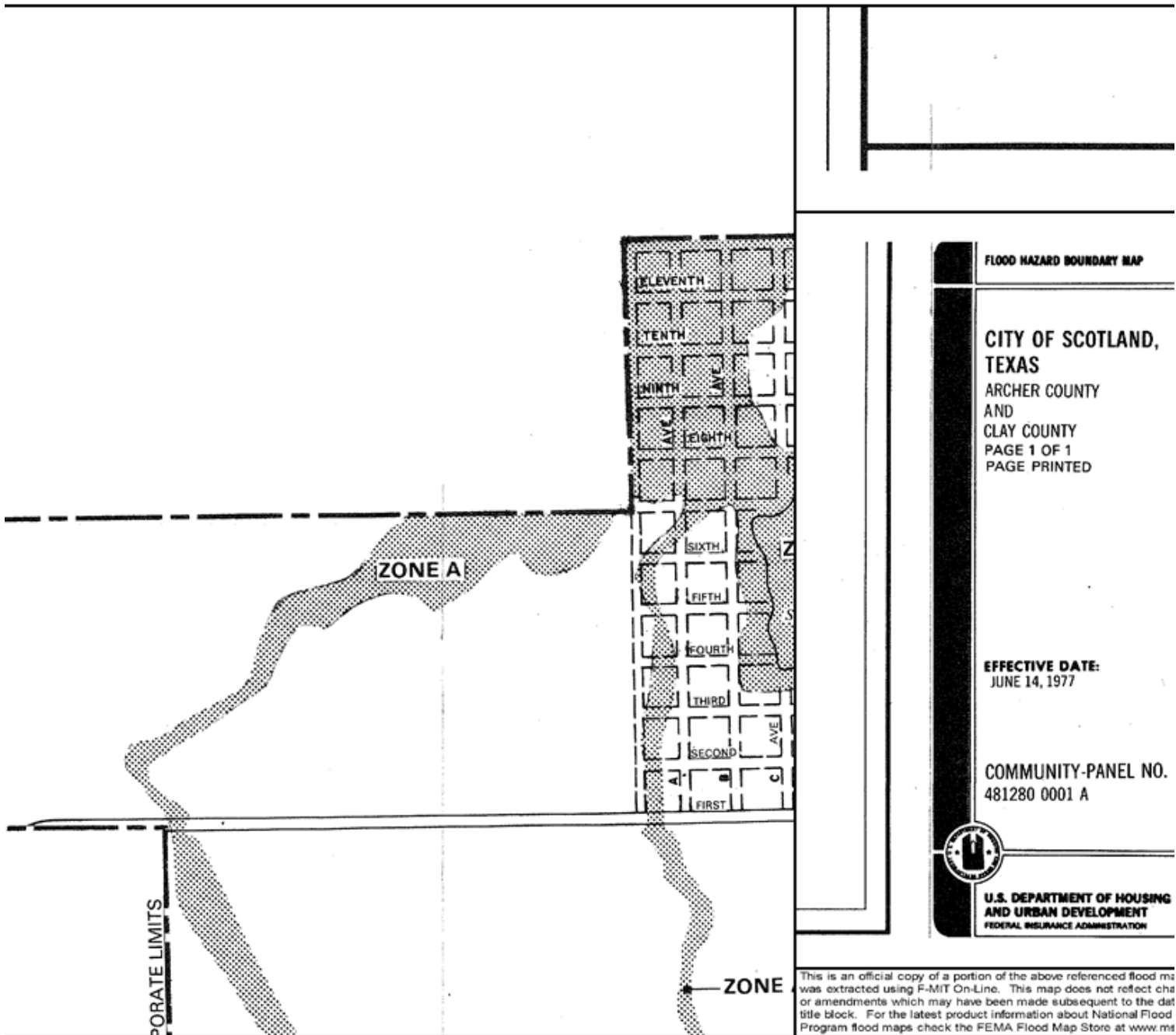
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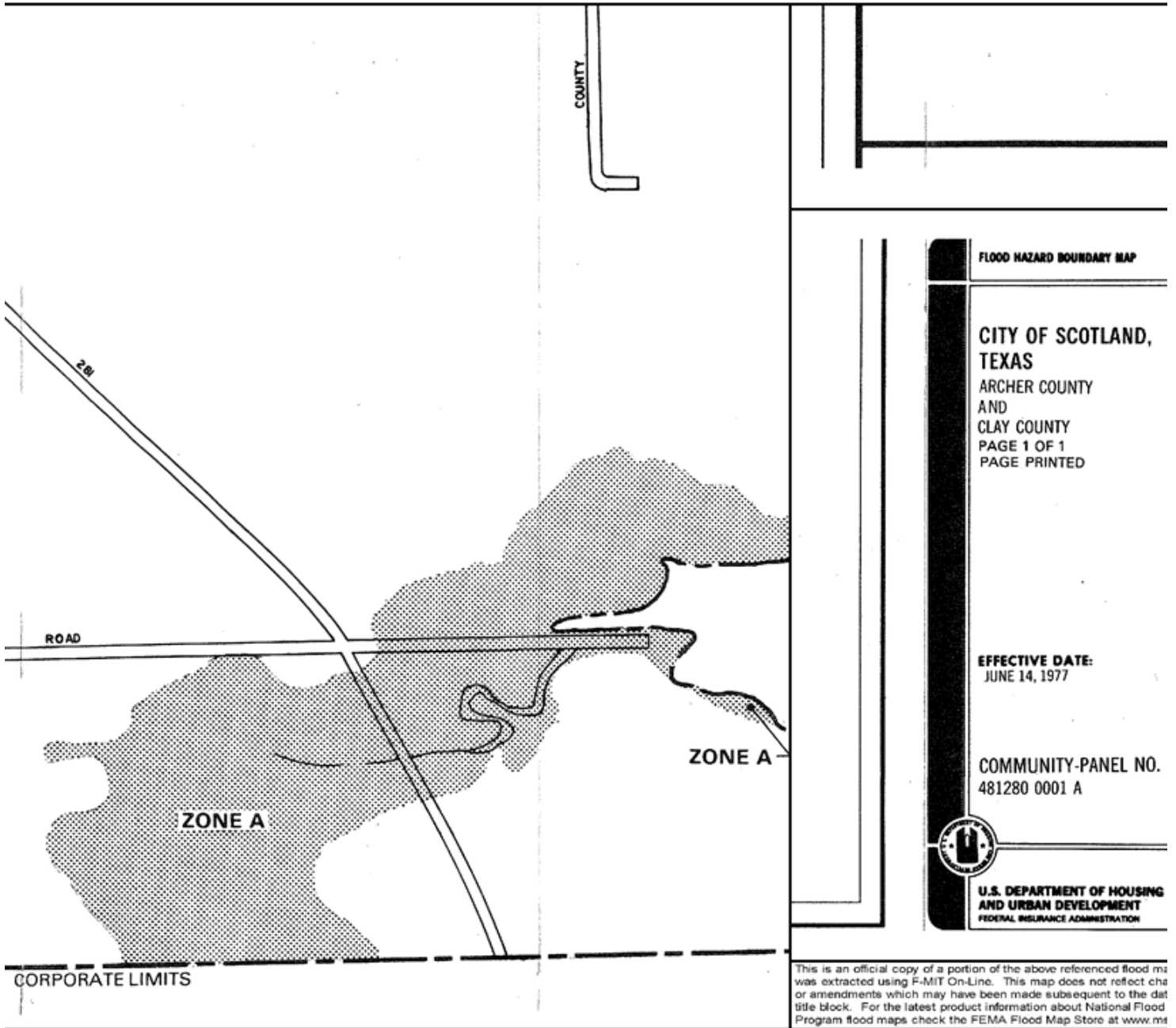
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FEDERAL INSURANCE ADMINISTRATION

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FLOOD HAZARD BOUNDARY MAP

CITY OF SCOTLAND,  
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PAGE 1 OF 1  
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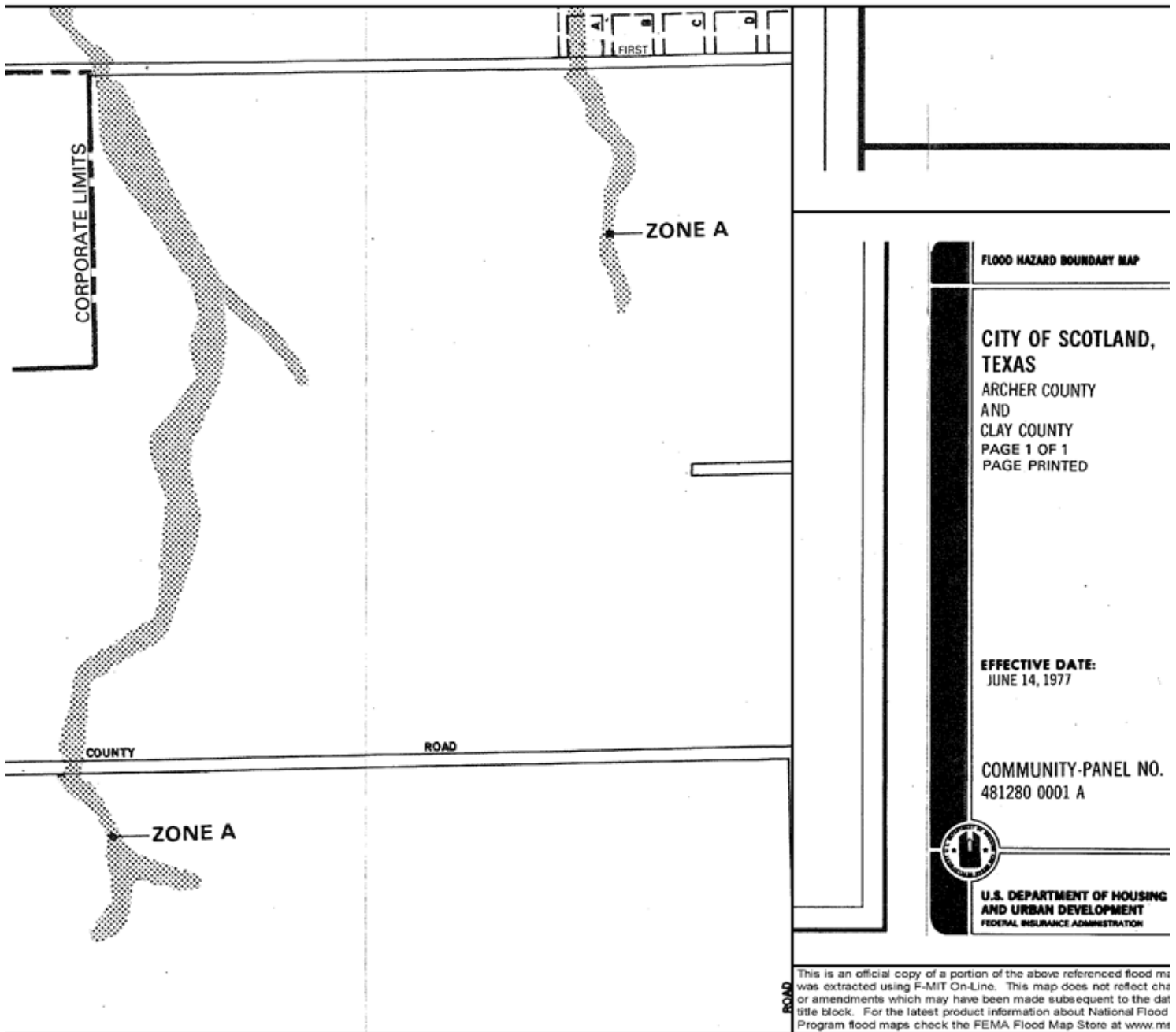
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COMMUNITY-PANEL NO.  
481280 0001 A



U.S. DEPARTMENT OF HOUSING  
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FEDERAL INSURANCE ADMINISTRATION

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FLOOD HAZARD BOUNDARY MAP

**CITY OF SCOTLAND,  
TEXAS**

ARCHER COUNTY  
AND  
CLAY COUNTY  
PAGE 1 OF 1  
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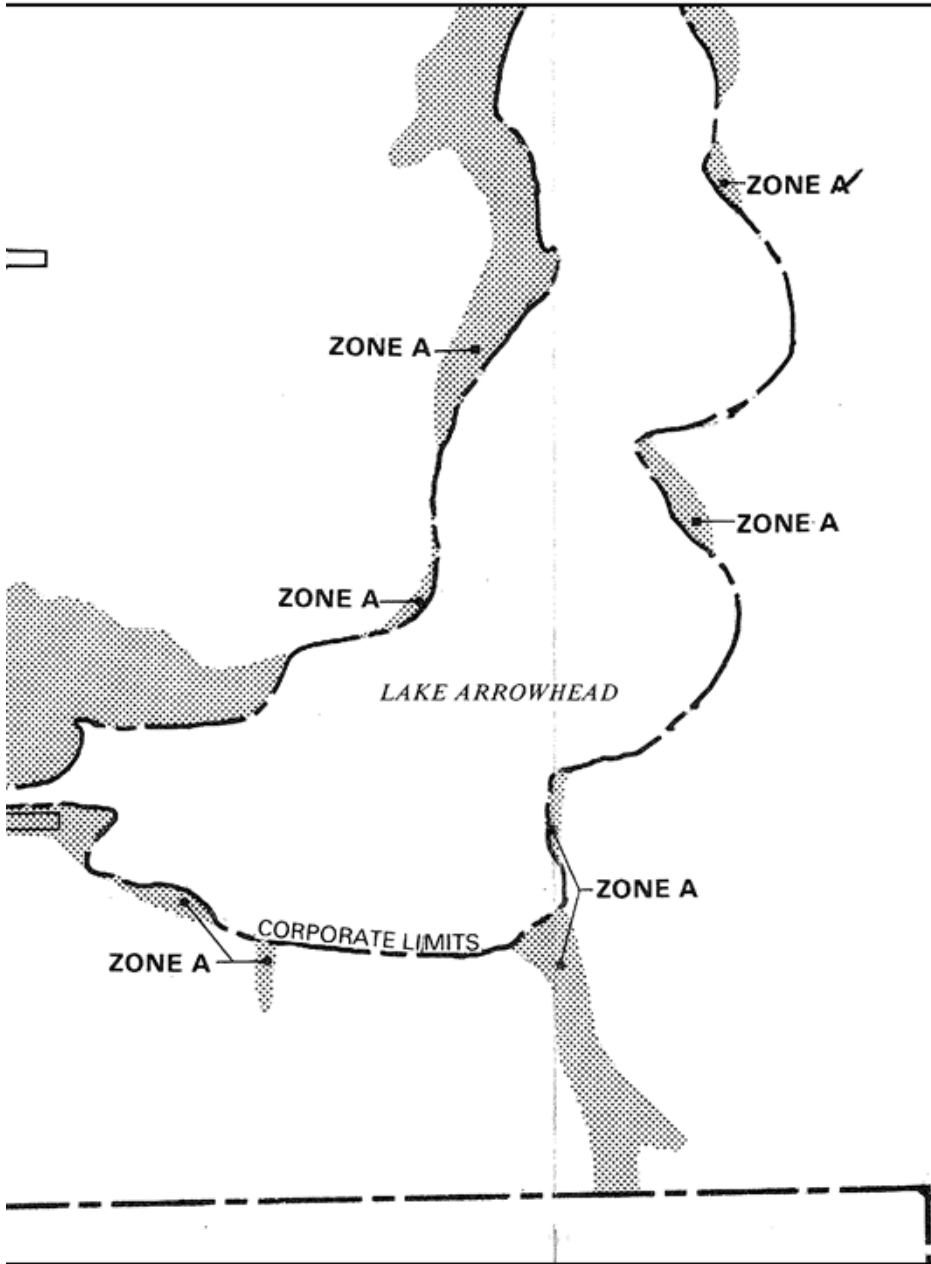
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481280 0001 A



**U.S. DEPARTMENT OF HOUSING  
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FLOOD HAZARD BOUNDARY MAP

CITY OF SCOTLAND,  
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