

**CITY OF LOVINGTON**  
**REGULAR MEETING OF THE CITY COMMISSION**

Monday, February 12, 2024 5:30 PM  
TO BE HELD AT 214 SOUTH LOVE STREET

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**AGENDA**

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Notice of this meeting has been given to the public in compliance with Section 10-15-4 NMSA 1978

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**OPEN MEETING**

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**Call To Order**

**Roll Call**

**Invocation-Commissioner David Trujillo**

**Pledge of Allegiance and Zia- Commissioner David Trujillo**

**Approval of Agenda**

**Consideration of Minutes - January 22, 2024**

**COMMISSIONERS AND STAFF REPORT**

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**PUBLIC COMMENT**

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**NON-ACTION ITEMS**

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- ADA Transition plan, planning
- Discussion of Appointment of Municipal Judge
- Discussion of Proposed MOU & Lease Agreement between City and Chamber of Commerce-David Miranda
- Discussion of Paramedic Program Agreement Between Nor-Lea and LFD/EMS-David Shaw
- Discussion of North Love (Runnels) Ballpark-Scott Boldt

**ACTION ITEMS**

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- Resolution 2024-009 Adopting The Lea County Hazard Mitigation Plan
- Resolution 2024-010 - MOA Between City and Nor-Lea - Elimination of Water Charges for Wellness Center
- Finance Report and Accounts Payable

**ADJOURNMENT**

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If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the City Clerk at 575-396-2884 at least one week prior to the meeting or as soon as possible. Public documents, including the agenda and minutes, can be provided in various accessible formats. Please contact the City Clerk at 575-396-2884 if a summary or other type of accessible format is needed 72 HOURS PRIOR TO THE MEETING.

**CITY OF LOVINGTON**  
**COMMISSION STAFF SUMMARY FORM**

MEETING DATE: 2/12/2024



Item Type: Information

SUBJECT: ADA Transition plan, planning  
DEPARTMENT: Planning and Zoning  
SUBMITTED BY: Crystal R Ball, CFM, CZO  
DATE SUBMITTED: 1/25/2024

**COMPREHENSIVE PLAN IMPLEMENTATION:**

**STAFF SUMMARY:**

City Commission recommended ADA projects and there timeline to look at doing the work? If this is 10 years out we don't need to add it that will be in the next update.

**FISCAL IMPACT:**

**RECOMMENDATION:**

**ATTACHMENTS:**

Description

Working draft of the ADA plan  
updated ;project list

Type

Cover Memo  
Cover Memo



# **CITY OF LOVINGTON**

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## **Americans with Disabilities Act**

### **Transition Plan**

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**City of Lovington  
Lea County, New Mexico  
214 South Love Street  
Lovington, NM 88260**

**ADA Transition Plan  
Adopted: 8-10-2015  
Updated: 11-30-2023**

**Mayor:**

Howard Roberts

**Commissioners:**

David Trujillo, Mayor Pro-Tem  
Scott Boldt  
Scott Gandy  
Lizabeth White

**City Manager:**

David Miranda



**ADA Coordinator:**

Crystal Ball, CFM, CZO  
City Planning and Zoning Coordinator  
214 South Love Street  
Lovington, NM 88260  
575-396-2884

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**RESOLUTION OF THE CITY OF LOVINGTON  
LEA COUNTY, NEW MEXICO**

**RESOLUTION 2015-60**

**A RESOLUTION APPROVING THE PUBLISHING OF A CITYWIDE ADA TRANSITION PLAN AND OBTAIN PUBLIC  
INPUT**

**WHEREAS**, the Americans with Disabilities Act (ADA) of 1990 is a Federal Civil Rights Legislation which mandates non-discrimination to persons with disabilities; and

**WHEREAS**, the adoption and implementation of an ADA Transition Plan is required for the City to be eligible for reimbursement from and application to State and Federal transportation grants; and

**WHEREAS**, the City has developed a draft Transition Plan by conducting an evaluation of the accessibility by persons with disabilities on its roads and highways, identified issues of accessibility that need to be addressed, and creating program, policy, and ordinance changes to make ADA improvements on the City's roads and highways; and

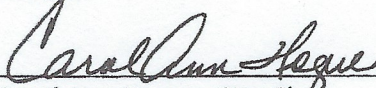
**WHEREAS**, a plan of this type requires public review and input for twenty-eight (28) days prior to adoption by the Lovington City Commission.

**NOW, THEREFORE, BE IT RESOLVED** that the City Commission directs the City Manager to:

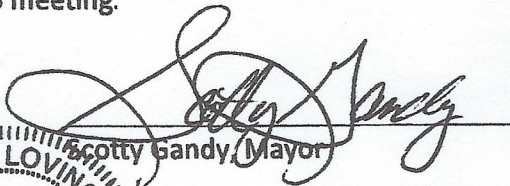
1. Publish a public notice in the Lovington Leader informing the public that a draft is available for review and comments will be accepted at City Hall.
2. Publish a notice on the City website that a draft is available for review and comments will be accepted at City Hall.
3. Provide a public notice and copy of the plan at the Lovington Public Library.
4. Schedule a public hearing time during the July 6<sup>th</sup> and 20<sup>th</sup> regular City Commission meetings so that comments may be heard by the City Commission prior to adoption at the July 20<sup>th</sup>, 2015 meeting.

DONE THIS 22<sup>ND</sup> DAY OF JUNE, 2015.

ATTEST:

  
Carol Ann Hogue, City Clerk



  
Scotty Gandy, Mayor

**RESOLUTION OF THE CITY OF LOVINGTON  
LEA COUNTY, NEW MEXICO**

**RESOLUTION 2015-64**

**A RESOLUTION ADOPTING A CITYWIDE ADA TRANSITION PLAN**

**WHEREAS**, the Americans with Disabilities Act (ADA) of 1990 is a Federal Civil Rights Legislation which mandates non-discrimination to persons with disabilities; and

**WHEREAS**, the adoption and implementation of an ADA Transition Plan is required for the City to be eligible for reimbursement from and application to State and Federal transportation grants; and

**WHEREAS**, the City believes that implementing an ADA Transition Plan will improve the quality of life and enjoyment of our community by our citizens and visitors; and

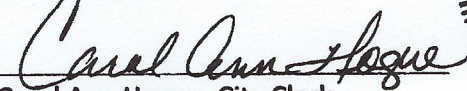
**WHEREAS**, the City has developed a Transition Plan by conducting an evaluation of the accessibility by persons with disabilities on its roads and highways, identified issues of accessibility that need to be addressed, and creating program, policy, and ordinance changes to make ADA improvements on the City's roads and highways; and

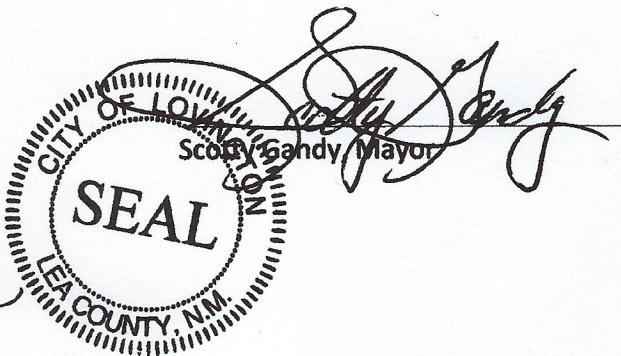
**WHEREAS**, public review and input regarding this plan has been received by the Lovington City Commission.

**NOW, THEREFORE, BE IT RESOLVED** that the City Commission adopts the 2015 ADA Transition Plan for the City of Lovington and directs City staff to begin utilizing the strategies identified within the document.

**DONE THIS 10<sup>TH</sup> DAY OF AUGUST, 2015.**

ATTEST:

  
Carol Ann Hogue, City Clerk



## **AMERICAN WITH DISABILITIES ACT**

### **TRANSITION PLAN**

#### **I. BACKGROUND**

The American with Disabilities Act (ADA) of 1990 is a Federal Civil Rights Legislation which mandates non-discrimination to persons with disabilities. The ADA, Title II prohibits discrimination by public entities on the basis of disability. Therefore, it is important that the City of Lovington complies with all applicable laws and regulations, including those protecting persons with disabilities.

In order to accomplish this, the City of Lovington developed a Transition Plan by conducting a self-evaluation of the accessibility by persons with disabilities on its Roads and Highways; identifying issues of accessibility that need to be addressed; upgrading its program for improvement of those facilities and comply with ADA mandated standards. The City of Lovington will progressively remove physical barriers to accessibility when facilities adjacent to its Roads and Highways cannot ensure access to persons with disabilities.

Realizing that geometric, infrastructure and structural changes will take time and money to upgrade the existing facilities, the City of Lovington Transition Plan includes provisions to include specifications on all upcoming design projects, to comply with ADA requirements.

The ADA regulations further require the Transition Plan to contain the following elements:

- A list of physical barriers in the public entity's facilities that limit accessibility of its programs, services, or activities to individuals with disabilities;
- A detail description of the methods to be utilized to remove these barriers and make the facilities accessible;
- The schedule for taking the necessary steps to achieve compliance with Title II;
- The name of the official responsible for the plan's implementation;
- A schedule for providing ADA compliance pedestrian facilities, where pedestrian walkways cross the streets.

The City of Lovington currently references the NMDOT standards that conform to ADA laws. These standards are published under the NMDOT's Standard Drawings for Pedestrian Access Details for Curb Ramps, Types A through D; Median Curb Details, Pedestrian Islands, Driveways and Driveway Aprons, Stairway and Handrail requirements, Accessible Parking, Passenger loading bus stop and ramp requirements; all aided by a Detectable Warning Surface where applicable.

The City of Lovington routinely sends plans and specifications to the NMDOT and the Governor's Commission on Disability Office for review and approval prior to letting projects. This allows comments and corrections to be made to ensure all ADA requirements are being met to the best of the City's ability.

## **II. ADA PROGRAM**

### **A. Responsible Official**

A Disability Program Coordinator has been designated by the City of Lovington as the person responsible for the development and implementation of the City of Lovington ADA Transition Plan.

### **B. Internal Review**

In June 2015, the City of Lovington conducted an inventory of the facilities along its Roads and Highways. The City of Lovington is committed to upgrade and implement ADA regulations. The City will annually review the City of Lovington fiscal allocation for ADA improvements to improve facilities that present physical barriers or to implement ADA regulations in new projects.

### **C. Self-Evaluation**

As required by ADA legislation, the City of Lovington has conducted a self-evaluation survey of all facilities within its jurisdiction in June 2015; identifying any physical barriers to ensure their accessibility to persons with disabilities. An Action Plan was subsequently completed by the City of Lovington, listing specific upcoming projects and/or facilities modifications needed. The target dates by which the City of Lovington will make the necessary changes will be consistent to those projects listed in the STIP.

### **D. Public Input**

The City of Lovington placed a copies of the Draft Transition Plan at City Hall, 214 S. Love Street, Lovington, NM 88260, the Public Library located at 119 S. Love Street, Lovington, NM 88260 and on the City website at [www.lovington.org](http://www.lovington.org) to be reviewed and receive comments from the public. The City conducted public hearings on July 6, 2015 and July 27, 2015 at the City Commission Chambers, 214 S. Love Street, Lovington, NM 88260 to solicit public input. Public notice of the Transition Plan being available for review and comments was posted in the Lovington Leader on June 18, 2015.

## **III. TRANSITION PLAN**

### **A. Prioritization**

The City of Lovington has the responsibility of identifying barriers and implementing a corrective program. The City of Lovington current inventory shows approximately 490 ramps that meet the current ADA requirements.

The City of Lovington has experienced limited funding and opted to prioritize upgrading of those existing Ramps according to a criterion set forth during the evaluation. This Criteria is as follows:

1. **“High”** priority
  - a. Funded Projects and projects to be funded within the next 5–10 years.
  - b. Intersections along Arterial roadways
  - c. Intersections near public facilities
    - i. Intersections within a 500’ radius of schools / colleges / City Facilities / Apartment Complexes
2. **“Medium”** priority
  - a. Collector Roadways / high density residential area (note: we will not do this currently)
3. **“Low”** priority
  - a. Low Priority Areas
    - i. No curb and gutter
    - ii. No sidewalk
    - iii. Low density residential areas

Additional criteria were utilized to identify the intersections and areas requiring improvement as specified in Appendix B – Project Tables. Projects were first classified as current principal arterial, minor arterial, and collectors, as well as additional future classifications as specified in the 2015 City of Lovington Comprehensive Plan. Projects were then given a high priority based on their access to public facilities. Medium designations were assigned to other collector roads and low designations were given to roadways that had no existing curb and gutter.

The median/low projects will be complete as money becomes available. The proposed funding and timeline for available funding is shown in the Construction Projects Schedule tables.

## **B. Facility Classification**

Access to and utilization of the City of Lovington facilities by individuals with disabilities is frequently compromised by barriers described below. Barrier descriptions are not necessarily complete, but they represent the type of barriers identified by the City of Lovington during our site survey. In general, the City of Lovington Road and Highway system provide traveling routes in which local and the traveling public visit public buildings and other services. Sidewalks are the pedestrian travel way, and are frequently obstructed by protruding barriers. Therefore, pedestrian destination from transportation facilities is interrupted, and sometimes it is not accessible. Accessible Ramps are absent or do not meet the current requirements. The following facility classification was notorious during the City’s field survey,

1. Parking Facilities and Street Parking lack accessible areas where a disabled person can merge into and out of the pedestrian facilities. Signage is missing or non-existing.
2. Stairs and Handrails do not meet the shape and height requirements. Visual warnings are not provided at tread nosing.

3. Fire Hydrants are often built within 36 inches from the back of the Curb and Gutter. If pedestrian facilities exist and comply with ADA regulations, often the presence of Fire Hydrants and other obstructions makes these facilities noncompliant.
4. Trees were found on the middle of the sidewalk. Prior to landscaping, pedestrian facilities were in compliance. Although landscaping projects provide beautification to the area, the tree planting location provided an obstruction to persons with disabilities.
5. Curb Drop Inlets were found at different intersection quadrants. Upgrading those facilities located where drop inlets were found; may require structural considerations and utility relocation that can only be determine in the future.
6. Street Median Refuge and/or Pedestrian Crossing Refuge Island have not been provided in the past and may be required; this may be determined as deemed necessary in the future.
7. Utility Poles are often placed near intersection or within sidewalks on roadways with restricted right of way. Often the clearance from back of curb to the utility poles is less than 36 inches.

### C. Inventory

Table 1, depicts the Total number of existing quadrants within each district and the priority count for --- Collector / Arterial / Public Facility Access.

**TABLE 1**

COL District #	Number of Intersection Quadrants	High	Medium	Low
1	456	73	27	25
2	425	30	52	9
3	287	16	32	7
4	173	2	12	1
5	286	49	31	28

### D. Targeted Barrier Removal Projects

The top priority of the City's Transition Plan is to make the City's existing facilities accessible. All projects will have to comply with all applicable laws and regulations, including those protecting persons with disabilities.

When appropriate, the City of Lovington will replace existing facilities by reconstructing new ones, bringing them into compliance.

The City of Lovington is responsible for the City's Transition Plan within the Public Right-of-Way. Most of the problems within the Right-of-Way concern physical barriers that cannot be addressed through other options such as Policy Changes or alternative methods. Therefore, the Public Right-of-Way can only be made accessible via a realistic and fundable strategy for Curb and Gutter Modifications, Wheelchair Ramp construction and some sidewalk modifications.

#### IV. STRATEGY

The following strategy is recommended to assist the City of Lovington in meeting ADA requirements,

##### A. Annual Concrete Contract

The City of Lovington contracts for installation of new ramps on an annual basis, via its Maintenance Program utilizing the lowest received bid on Price Agreement Projects.

##### B. Sidewalk Repair / Replacement Policy

The City of Lovington has a Sidewalk Repair Policy that shares the cost to replace sidewalk and/or install new sidewalk and ADA ramps in front of residential houses. New subdivisions are required to construct sidewalk and ADA ramps at the time of initial construction.

##### C. Utilities

Whenever a utility relocation, construction or alteration occurs and there is removal of sidewalk, the City ensures that ADA requirements are implemented at the time of replacement.

##### D. City Infrastructure Project (Roadway / Drainage)

The City creates individual projects based on funding availability. When a street reconstruction project is underway, the City ensures that ADA ramps are installed at street intersections within the project area.

##### E. New Development and Substantial Improvements

The City of Lovington will permit new residential and commercial improvements and review plans for ADA compliance along with ensuring appropriate curb cuts are built to comply with ADA standards.

#### V. FUNDING

The City will commit, upon fund availability, funding for City of Lovington maintenance projects of its annual allocation, towards ADA compliance projects. In addition, developer impacts on the Public's Right-of-Way will be required to further enhance pedestrian facilities.

The assessment of the projects identified in Appendix B determined an overall estimated cost of \$8.23 million for the installation of ramps, sidewalks, curb and gutter. Table 2 provides a summary of the estimated costs.

**TABLE 2**

<b>ESTIMATED TOTAL TRANSITION COST</b>	<b>\$ 8,232,026.81</b>
Local High Priority	\$ 2,506,628.17
State Roadway High Priority	\$ 843,474.85
Local Medium Priority	\$ 2,592,380.64
Local Low Priority	\$ 2,289,543.15

Table 3 provides a summary of projects identified by district by priority as well as estimated costs for State managed roadways.

**TABLE 3**

District	Local High Priority	State Managed High Priority	Local Medium Priority	Local Low Priority	Total by District
1	\$ 1,333,759.47	\$ 281,466.71	\$ 539,198.98	\$ 516,589.06	\$ 2,671,014.22
2	\$ 224,156.97	\$ 58,369.13	\$ 643,104.76	\$ -	\$ 925,630.86
3	\$ 162,053.79	\$ 104,306.26	\$ 418,096.17	\$ -	\$ 684,456.22
4	\$ -	\$ 60,794.26	\$ 188,167.22	\$ -	\$ 248,961.48
5	\$ 786,657.94	\$ 338,538.49	\$ 803,813.51	\$ 1,772,954.09	\$ 3,701,964.03
<b>Total by Priority</b>	\$ 2,506,628.17	\$ 843,474.85	\$ 2,592,380.64	\$ 2,289,543.15	

Current Fiscal Year 2015 – 2016 revenue projections for the street fund are estimated at \$315,000. A portion of these funds can be utilized for these improvements in addition to other street maintenance and repair. As previously specified, the costs for ADA improvements will be factored in to each major roadway construction project in the future. It is expected that roadways designated as “State Managed” will be brought in to full compliance with ADA requirements and NMDOT will be held to the same standard as the City of Lovington.

#### VI. CONSTRUCTION PROJECTS SCHEDULE

Table 4 lists those NMDOT funded projects that will be considered to increase the ADA compliance within the City.

**TABLE 4**

CN	Temini	Funding Source			
		FY	LGRF	GRIP II	STIP
NMDOT project 2101381R2 E Ave D (Commercial to Main) and Main St (Ave F to Jackson)					

NMDOT completed project CN2103100 W Ave D (Main to 9th St) ADA sidewalks and ramps

Table 5 lists those City of Lovington projects as listed on the ICIP Plan that will be considered to increase the ADA compliance within the City.

Table 5

PROJECT	Funding Source	Project year / Project Amount				
		Year / \$	Year / \$	Year / \$	Year / \$	Completed Y / N
North Commercial Street (Ave D to Hwy 18/82 )	CDBG/Local	2015-2018 \$2.1 M				Yes
N 17 <sup>th</sup> Street (Ave D to Jefferson Ave)	CDBG/Local	2019 \$2.25M				Yes
Chaparral Park Playground	Local	2017 \$200K				Yes
Chaparral Splash Pad	Local	2016 \$200K	Updated 2023 \$80K			Yes
Lovington Downtown Trail	RTP/Local				2030 \$1.5M	No
Central Plaza (Central Ave / Main to Love)	Local	2019 \$215K				Yes
Central Plaza (Washington / Main to Love)	LGRF/TAP/Local	2016 \$89K		2025 \$750K		Design only completed
Central Plaza (pocket Park)	Local/NMMS	2017 \$500K				Yes
Chaparral Park Amphitheater/Shelters	Local/RTP	2025 \$800K				No
Lovington Sports Complex	Local				2030 \$1.5M	No
Lea Theater Rehabilitation	Local/ NMED/NMMS	2017 \$1.5M	2023 \$450K	2024 \$400K		In progress
E Ave R (maintenance) (Commercial to Main)	Local / TPF	2023 \$200K	2025 800K			RR crossing and gutter at Commercial have been completed
Adams Ave (Main to Love)	Local/LGRF/TPF	2028 \$750K				No
Washinton Ave (Love to East) (north side and Love to Commercial south side East to Commercial)	Local	2018 \$400K	2025 Design \$90K	2027 Construction \$1M		South side ADA improvements County Judicial Building, completed
Central Ave (Main to 9 <sup>th</sup> St)	Local/ TPR/MAP/ CDBG	2023 \$				
W Jackson Ave ADA sidewalk, ramp and road improvments (9 <sup>th</sup> to 17 <sup>th</sup> )	Local/ MAP/TPF	2023 \$85K	2024/2025 \$1.5M			Design completed 2023
2 <sup>nd</sup> Street ADA sidewalk, ramp and road improvements (Ave D to Central)	Local/CDBG	2024 \$750K	2025 \$150K			
9 <sup>th</sup> Street ADA sidewalk, ramp & road improvements (Ave D to Ave K)	Local/MAP/ TPF	2023/2024 \$143K	2025/2026 \$2.5M			Desing is in progress

# Appendix A

## ADA Grievance Procedure

# **ADA Grievance Procedures**

## **Introduction**

The ADA states that a public entity is required to apprise the public of the protections against discrimination afforded to them by Title II of the ADA, including information about how Title II requirements apply to its particular programs, services and activities [28 C.F.R. § 35.106]. A public entity also is required to provide an opportunity for interested persons, including individuals with disabilities or organizations representing individuals with disabilities, to participate in the development of policies and procedures that affect the implementation of an ADA transition plan by submitting comments and making specific recommendations.

A public entity that employs 50 or more persons is required by the ADA to adopt and publish grievance procedures providing for prompt and equitable resolution of complaints or grievances alleging any action that would be prohibited by Title II of the ADA. The City's grievance procedure is described below. Any person with a disability or any parent or guardian who represents a minor person with a disability, who believes that they have been the subject of disability-related discrimination on the basis of the denial of access to facilities, programs or services, may file a grievance or complaint.

## **Grievance Procedures and Instructions**

### *Step 1: File a Grievance Form*

The complainant should fill out the ADA Complaint / Grievance Form shown below, giving all of the information requested. The ADA Complaint / Grievance Form should be filed in writing with the ADA Program Access Coordinator within 60 days of the alleged disability-related discrimination. Upon request, reasonable accommodations will be provided in completing the form, or alternative formats of the form will be provided. The ADA Complaint / Grievance Procedure and Form may be obtained from and sent to the City of Lovington, ADA Coordinator, 214 South Love Street, Lovington, NM 88260, Telephone: (575) 396-2884, Fax: (575) 396-6328, E-mail: [info@lovington.org](mailto:info@lovington.org), please have ADA Coordinator in subject line.

### *Step 2: An Investigation is Conducted*

A notice of receipt shall be mailed to the complainant by registered mail within five days of the receipt of the complaint or grievance, and the ADA Coordinator or another authorized representative shall begin an investigation into the merits of the complaint within 60 days. If necessary, the ADA Program or another authorized representative may contact the complainant directly to obtain additional facts or documentation relevant to the grievance. If the complainant alleges misconduct on the part of the ADA Coordinator, another authorized representative may be appointed by the City Manager to undertake the investigation if the allegations can be substantiated. If the complainant does not wish to be contacted personally, he/she should indicate it on the ADA Complaint / Grievance Form.

After the grievance is received, the complaint shall be brought before the ADA Oversight Committee, chaired by the ADA Coordinator.

### *Step 3: A Written Decision is Prepared and Forwarded to the Complainant*

The ADA Program Access Coordinator shall prepare a written decision, after full consideration of the grievance merits, no later than 75 days following the receipt of the grievance. If the complaint alleges

misconduct on the part of the ADA Program Access Coordinator, another authorized representative may be appointed by the City Manager to prepare the written decision if the allegations can be substantiated. A copy of the written decision shall be mailed to the complainant by registered mail no later than five days after preparation of the written decision.

*Step 4: A Complainant May Appeal the Decision*

If the complainant is dissatisfied with the written decision, the complainant may file a written appeal with the City Manager no later than 30 days from the date that the decision was mailed. The appeal must contain a statement of the reasons why the complainant is dissatisfied with the written decision, and must be signed by the complainant, or by someone authorized to sign on the complainant's behalf. A notice of receipt shall be mailed to the complainant by registered mail within five days of the receipt of the appeal. The appeal reviewers, consisting of the ADA Coordinator the Finance Director and other members of the ADA Oversight Committee, shall act upon the appeal no later than 60 days after receipt, and a copy of the appeal reviewers' written decision shall be mailed to the complainant by registered mail no later than five days after preparation of the decision. The decision of the appeal reviewer shall be final.

The ADA Coordinator, the Finance Director and other members of the ADA Oversight Committee shall maintain the confidentiality of all files and records relating to grievances filed, unless disclosure is authorized or required by law. Any retaliation, coercion, intimidation, threat, interference or harassment for the filing of a grievance, or used to restrain a complainant from filing, is prohibited and should be reported immediately to the ADA Coordinator or other members of the Oversight Committee depending on the case.

City of Lovington --- ADA Complaint / Grievance Form

Complainant: \_\_\_\_\_ Person Preparing Complaint (if  
different from Complainant): \_\_\_\_\_ Relationship to

Complainant (if different from Complainant): \_\_\_\_\_

Street Address & Apt. No.: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

\_\_\_\_\_ Phone: ( \_\_\_\_\_ ) \_\_\_\_\_ E-mail: \_\_\_\_\_

Please provide a complete description of the specific complaint or grievance:

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Please specify any location(s) related to the complaint or grievance (if applicable):

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Please state what you think should be done to resolve the complaint or grievance:

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☐ Please attach additional pages as needed.

☐ Please do not contact me personally.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Return to: City of Lovington, ADA Coordinator, 214 South Love Street, Lovington, NM 88260.

Upon request, reasonable accommodation will be provided in completing this form, or copies of the form will be provided in alternative formats. Contact the ADA Coordinator at the address listed above, or via telephone: (575) 396-2884, Fax: (575) 396-6328, E-mail: [info@lovington.org](mailto:info@lovington.org).

# Appendix B

## Project Tables

**ROADWAY: AVENUE D (STATE HIGHWAY)***CLASSIFICATION: PRINCIPAL ARTERIAL*

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST	DISTRICT	PRIORITY
9th	11th	North	R, S	\$ 8,641.13	\$ 43,512.00	\$ --	\$ 52,153.13	3	High
11th	17th	North	R, S	\$ 8,641.13	\$ 43,512.00	\$ --	\$ 52,153.13	4	High
9th	11th	South	R, S	\$ 8,641.13	\$ 43,512.00	\$ --	\$ 52,153.13	3	High
11th	17th	South	R, S	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	High

**SUBTOTAL FOR ROADWAY: \$ 165,100.52**

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

ROADWAY: CENTRAL AVENUE CLASSIFICATION: COLLECTOR									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Commercial	Chaves	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Chaves	Eddy	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Eddy	East	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
East	Love	North	N/A	\$ --	\$ --	\$ --	\$ 0.00	1	N/A
Love	Main	North	N/A	\$ --	\$ --	\$ --	\$ 0.00	1	N/A
Main	1st	North	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	2	High
1st	2nd	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
2nd	3rd	North	R, S	\$ 8,641.13	\$ 3,729.60	\$ --	\$ 12,370.73	2	Medium
3rd	4th	North	R, S	\$ 8,641.13	\$ 3,729.60	\$ --	\$ 12,370.73	2	Medium
4th	5th	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
5th	6th	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
6th	7th	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
7th	8th	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	3	Medium
8th	9th	North	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	Medium
Commercial	Chaves	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Chaves	Eddy	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Eddy	East	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
East	Love	South	S	\$ --	\$ 3,729.60	\$ --	\$ 3,729.60	1	Medium
Love	Main	South	N/A	\$ --	\$ --	\$ --	\$ 0.00	1	N/A
Main	1st	South	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	2	Medium
1st	2nd	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
2nd	3rd	South	R, S	\$ 8,641.13	\$ 3,729.60	\$ --	\$ 12,370.73	2	Medium
3rd	4th	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
4th	5th	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
5th	6th	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
6th	7th	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
7th	8th	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	3	Medium
8th	9th	South	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	Medium

**SUBTOTAL FOR ROADWAY: \$ 409,652.20**

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

ROADWAY: JACKSON AVENUE CLASSIFICATION: COLLECTOR									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Love	Main	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Main	1st	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	High
1st	2nd	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
2nd	3rd	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
3rd	4th	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	High
4th	5th	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	High
5th	6th	North	R, S	\$ 8,641.13	\$ 4,662.00	\$ --	\$ 13,303.13	2	High
6th	9th	North	S	\$ --	\$ 22,377.60	\$ --	\$ 22,377.60	3	High
Love	Main	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Main	1st	South	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	2	Medium
1st	2nd	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
2nd	3rd	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
3rd	5th	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	High
5th	7th	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	High
7th	9th	South	S	\$ --	\$ 13,986.00	\$ --	\$ 13,986.00	3	High
SUBTOTAL FOR ROADWAY:							\$ 271,525.56		

ROADWAY: JEFFERSON AVENUE CLASSIFICATION: COLLECTOR									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
9th	11th	North	S	\$ --	\$ 19,580.40	\$ --	\$ 19,580.40	3	High
11th	13th	North	R, S	\$ 8,641.13	\$ 19,580.40	\$ --	\$ 28,221.53	4	Medium
9th	17th	South	R, S	\$ 8,641.13	\$ 79,564.80	\$ --	\$ 88,205.93	4	Medium
SUBTOTAL FOR ROADWAY:							\$ 136,007.86		

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

**ROADWAY: POLK STREET**  
**CLASSIFICATION: COLLECTOR**

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Love	Main	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Main	1st	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
1st	2nd	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
9th	11th	North	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	Medium
11th	13th	North	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	Medium
13th	Aspen	North	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	Medium
Aspen	Birch	North	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	Medium
Birch	17th	North	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	Medium
Love	Main	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Main	1st	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	High
1st	2nd	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
2nd	4th	South	R, S	\$ 8,641.13	\$ 20,202.00	\$ --	\$ 28,843.13	2	Medium
4th	6th	South	R, S	\$ 8,641.13	\$ 20,202.00	\$ --	\$ 28,843.13	2	Medium
8th	9th	South	R, S	\$ 8,641.13	\$ 20,202.00	\$ --	\$ 28,843.13	3	Medium
9th	11th	South	R	\$ 8,641.13	\$ 9,790.20	\$ --	\$ 18,431.33	3	Medium
11th	14th	South	R	\$ 8,641.13	\$ 2,610.72	\$ --	\$ 11,251.85	4	Medium
14th	16th	South	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	Medium
16th	17th	South	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	4	Medium
Love	Main	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Main	1st	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
1st	2nd	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium

**SUBTOTAL FOR ROADWAY: \$ 291,950.46**

MODIFICATION LEGEND: R---Ramp, S---Sidewalk, C---Curb, G---Gutter

**ROADWAY: LOVE STREET**  
**CLASSIFICATION: COLLECTOR**

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Main	Polk	West	R, S	\$ 8,641.13	\$ 52,836.00	\$ --	\$ 61,477.13	1	High
Polk	Tyler	West	R, S	\$ 8,641.13	\$ 9,945.60	\$ --	\$ 18,586.73	1	High
Tyler	Harrison	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Harrison	Van Buren	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Van Buren	Jackson	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Jackson	Monroe	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Monroe	Madison	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Madison	Jefferson	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Jefferson	Adams	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Adams	Washington	West	R,S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Central	Avenue A	West	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	1	High
Avenue A	Avenue B	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue B	Avenue C	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue C	Avenue D	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue D	Avenue E	West	S	\$ ---	\$ 10,567.20	\$ --	\$ 10,567.20	1	High
Avenue E	Avenue F	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue F	Avenue G	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue G	Avenue H	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue H	Avenue I	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Avenue I	Avenue J	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Avenue J	Avenue K	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Avenue K	Avenue L	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue L	Avenue M	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue M	Avenue N	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue N	Avenue O	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue O	Avenue P	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue P	Avenue Q	West	R, S	\$ 8,641.13	\$ 16,317.00	\$ --	\$ 24,958.13	5	Medium
Main	Polk	West	R, S	\$ 8,641.13	\$ 52,836.00	\$ --	\$ 61,477.13	1	High

(Continued on next page)

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

ROADWAY: LOVE STREET (CONTINUED)									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Main	Birch	East	R, S	\$ 8,641.13	\$ 33,566.40	\$ --	\$ 42,207.53	1	High
Birch	Aspen	East	R, S	\$ 8,641.13	\$ 4,662.00	\$ --	\$ 13,303.13	1	High
Aspen	Polk	East	R, S	\$ 8,641.13	\$ 12,121.20	\$ --	\$ 20,762.33	1	Medium
Polk	Van Buren	East	R, S	\$ 8,641.13	\$ 33,255.60	\$ --	\$ 41,896.73	1	Medium
Van Buren	Jackson	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Jackson	Monroe	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Monroe	Madison	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Madison	Jefferson	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Jefferson	Adams	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Adams	Washington	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Central	Avenue A	East	R	\$ 8,641.13	\$ --	\$ --	\$ 8,641.13	1	High
Avenue A	Avenue B	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue B	Avenue C	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue C	Avenue D	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue D	Avenue E	East	S	\$ ---	\$ 10,567.20	\$ --	\$ 10,567.20	1	High
Avenue E	Avenue F	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue F	Avenue G	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue G	Avenue H	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue H	Avenue I	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Avenue I	Avenue J	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Avenue J	Avenue K	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Medium
Avenue K	Avenue L	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue L	Avenue M	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue M	Avenue N	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue N	Avenue O	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue O	Avenue P	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue P	Avenue Q	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue P	Avenue R	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Main	Birch	East	R, S	\$ 8,641.13	\$ 33,566.40	\$ --	\$ 42,207.53	1	High

**SUBTOTAL FOR ROADWAY: \$ 1,106,774.89**

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

**ROADWAY: 2ND STREET**  
**CLASSIFICATION: COLLECTOR**

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Gum	Pecan	West	R, S	\$ 8,641.13	\$ 41,025.60	\$ --	\$ 49,666.73	5	High
Pecan	Polk	West	R, S	\$ 8,641.13	\$ 50,971.20	\$ --	\$ 59,612.33	5	High
Polk	Tyler	West	R, S	\$ 8,641.13	\$ 9,945.60	\$ --	\$ 18,586.73	2	Medium
Tyler	Harrison	West	R, S	\$ 8,641.13	\$ 9,945.60	\$ --	\$ 18,586.73	2	Medium
Harrison	Van Buren	West	R, S	\$ 8,641.13	\$ 9,945.60	\$ --	\$ 18,586.73	2	Medium
Van Buren	Jackson	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Avenue D	Avenue E	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Avenue E	Avenue F	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Avenue F	Avenue G	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Avenue G	Avenue H	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue H	Avenue I	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue I	Avenue J	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue J	Avenue K	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue K	Avenue L	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue L	Avenue M	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Avenue M	Avenue N	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue N	Avenue O	West	R, S	\$ 8,641.13	\$ 11,965.80	\$ --	\$ 20,606.93	5	High
Avenue O	Avenue P	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue P	Avenue Q	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue Q	Brian Urlacher	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
Gum	Birch	East	R, S	\$ 8,641.13	\$ 69,774.60	\$ --	\$ 78,415.73	1	High
Birch	Polk	East	R, S	\$ 8,641.13	\$ 22,377.60	\$ --	\$ 31,018.73	1	Medium
Polk	Harrison	East	R, S	\$ 8,641.13	\$ 20,979.00	\$ --	\$ 29,620.13	2	Medium
Harrison	Van Buren	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Van Buren	Jackson	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Avenue D	Avenue E	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Avenue E	Avenue F	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium
Avenue F	Avenue G	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	Medium

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MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

ROADWAY: 2ND STREET (CONTINUED)									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Avenue G	Avenue H	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue H	Avenue J	East	R, S	\$ 8,641.13	\$ 21,756.00	\$ --	\$ 30,397.13	5	High
Avenue J	Avenue K	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue K	Avenue L	East	R, S	\$ 8,641.13	\$ 7,770.00	\$ --	\$ 16,411.13	5	Medium
Avenue L	Clayton	East	R, S	\$ 8,641.13	\$ 7,770.00	\$ --	\$ 16,411.13	5	Medium
Clayton	Avenue M	East	R, S	\$ 8,641.13	\$ 7,770.00	\$ --	\$ 16,411.13	5	Medium
Avenue M	Avenue N	East	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	5	High
Avenue N	Avenue O	East	R, S	\$ 8,641.13	\$ 8,702.40	\$ --	\$ 17,343.53	5	High
Avenue O	Avenue P	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue P	Avenue Q	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue Q	Brian Urlacher	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	Medium
<b>SUBTOTAL FOR ROADWAY:</b>							<b>\$ 899,396.67</b>		

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

**ROADWAY: 9TH STREET**  
**CLASSIFICATION: COLLECTOR**

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Dogwood	Birch	West	R, S	\$ 8,641.13	\$ 16,006.20	\$ --	\$ 24,647.33	5	High
Birch	Aspen	West	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	5	Medium
Aspen	Polk	West	R, S	\$ 8,641.13	\$ 4,040.40	\$ --	\$ 12,681.53	5	Medium
Polk	Tyler	West	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	3	Medium
Tyler	Gore	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Gore	Harrison	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Harrison	Van Buren	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Van Buren	Jackson	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	High
Jackson	Tyler	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	High
Taylor	Monroe	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Monroe	Madison	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Madison	Jefferson	West	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	High
Jefferson	Avenue D	West	N/A	\$ --	\$ --	\$ --	\$ 0.00	4	N/A
Avenue D	Avenue F	West	S	\$ --	\$ 24,553.20	\$ --	\$ 24,553.20	3	Medium
Avenue F	Avenue G	West	S	\$ --	\$ 8,702.40	\$ --	\$ 8,702.40	3	Medium
Avenue G	Avenue H	West	S	\$ --	\$ 9,945.60	\$ --	\$ 9,945.60	3	Medium
Avenue H	Avenue I	West	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	High
Avenue I	Avenue J	West	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	High
Avenue J	Avenue K	West	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	5	High
Avenue K	Avenue M/N	West	S	\$ --	\$ 27,101.76	\$ --	\$ 27,101.76	5	High
Avenue M/N	Avenue P	West	S	\$ --	\$ 22,999.20	\$ --	\$ 22,999.20	5	High
Avenue P	Carter	West	S	\$ --	\$ 18,648.00	\$ --	\$ 18,648.00	5	High
Carter	Brian Urlacher	West	S	\$ --	\$ 3,418.80	\$ --	\$ 3,418.80	5	High
Dogwood	Cottonwood	East	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	3	High
Cottonwood	Birch	East	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	3	High
Birch	Aspen	East	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	3	High
Aspen	Polk	East	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	3	Medium
Polk	Tyler	East	R, S	\$ 8,641.13	\$ 8,080.80	\$ --	\$ 16,721.93	3	Medium
Tyler	Gore	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium

(Continued on next page)

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

**ROADWAY: 9TH STREET (CONTINUED)**

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Gore	Harrison	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Harrison	Van Buren	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Van Buren	Jackson	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Jackson	Tyler	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Taylor	Monroe	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Monroe	Madison	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Madison	Jefferson	East	S	\$ --	\$ 8,080.80	\$ --	\$ 8,080.80	3	Medium
Jefferson	Adams	East	N/A	\$ --	\$ --	\$ --	\$ 0.00	3	N/A
Adams	Washington	East	N/A	\$ --	\$ --	\$ --	\$ 0.00	3	N/A
Washington	Central	East	N/A	\$ --	\$ --	\$ --	\$ 0.00	3	N/A
Central	Avenue A	East	N/A	\$ --	\$ --	\$ --	\$ 0.00	3	N/A
Avenue A	Avenue B	East	N/A	\$ --	\$ --	\$ --	\$ 0.00	3	N/A
Avenue B	Avenue C	East	N/A	\$ --	\$ --	\$ --	\$ 0.00	3	N/A
Avenue C	Avenue D	East	N/A	\$ --	\$ --	\$ --	\$ 0.00	3	N/A
Avenue D	Avenue E	East	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	Medium
Avenue E	Avenue F	East	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	Medium
Avenue F	Avenue G	East	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	Medium
Avenue G	Avenue H	East	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	Medium
Avenue H	Avenue I	East	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	Medium
Avenue I	Avenue J	East	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	3	High
Avenue J	Avenue K	East	S	\$ --	\$ 10,567.20	\$ --	\$ 10,567.20	5	High
Avenue K	Brian Urlacher	East	R,S	\$ 8,641.13	\$ 80,808.00	\$ --	\$ 89,449.13	5	High

**SUBTOTAL FOR ROADWAY: \$ 594,165.26**

MODIFICATION LEGEND: R--- Ramp, S--- Sidewalk, C--- Curb, G--- Gutter

**ROADWAY: MAIN STREET (STATE HIGHWAY)**

*CLASSIFICATION: PRINCIPLE ARTERIAL*

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Main	Birch	West	R, S	\$ 8,641.13	\$ 30,769.20	\$ --	\$ 39,410.33	1	High
Birch	Polk	West	S	\$ --	\$ 21,134.40	\$ --	\$ 21,134.40	1	High
Polk	Harrison	West	S	\$ --	\$ 20,512.80	\$ --	\$ 20,512.80	2	High
Harrison	Van Buren	West	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	2	High
Van Buren	Jackson	West	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	2	High
Avenue F	Avenue G	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	2	High
Avenue G	Avenue H	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue H	Avenue I	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue I	Avenue J	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue J	Avenue K	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue K	Avenue L	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue L	Avenue M	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue M	Avenue N	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue N	Avenue O	West	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue O	McCalister	West	R, S	\$ 8,641.13	\$ 20,823.60	\$ --	\$ 29,464.73	5	High
McCalister	Brian Urlacher	West	R, S	\$ 8,641.13	\$ 11,188.80	\$ --	\$ 19,829.93	5	High
Love	Polk	East	R, S	\$ 8,641.13	\$ 51,903.60	\$ --	\$ 60,544.73	1	High
Polk	Tyler	East	S	\$ --	\$ 8,391.60	\$ --	\$ 8,391.60	1	High
Tyler	Harrison	East	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	1	High
Harrison	Van Buren	East	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	1	High
Van Buren	Jackson	East	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	1	High
Jackson	Monroe	East	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	1	High
Monroe	Madison	East	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	1	High
Madison	Jackson	East	S	\$ --	\$ 9,324.00	\$ --	\$ 9,324.00	1	High
Avenue F	Avenue G	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue G	Avenue H	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue H	Avenue I	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue I	Avenue J	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High

*(Continued on next page)*

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

ROADWAY: MAIN STREET (CONTINUED)									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Avenue J	Avenue K	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	High
Avenue K	Avenue L	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue L	Avenue M	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue M	Avenue N	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue N	Avenue O	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue O	Avenue P	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue P	McCalister	East	R, S	\$ 8,641.13	\$ 17,280.48	\$ --	\$ 25,921.61	5	High
McCalister	Avenue R	East	R, S	\$ 8,641.13	\$ 4,972.80	\$ --	\$ 13,613.93	5	High

**SUBTOTAL FOR ROADWAY: \$ 678,374.33**

ROADWAY: AVENUE R CLASSIFICATION: COLLECTOR									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Main	Love	North	R, S	\$ 8,641.13	\$ 2,952.60	\$ --	\$ 11,593.73	5	Medium
Love	Commercial	North	R, S	\$ 8,641.13	\$ 45,376.80	\$ --	\$ 54,017.93	5	Medium
Main	Love	South	R, S	\$ 8,641.13	\$ 8,702.40	\$ --	\$ 17,343.53	5	Medium
Love	Commercial	South	R, S	\$ 8,641.13	\$ 35,617.68	\$ --	\$ 44,258.81	5	Medium

**SUBTOTAL FOR ROADWAY: \$ 127,214.00**

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

**ROADWAY: BRIAN URLACHER**  
*CLASSIFICATION: MINOR ARTERIAL*

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
			NEEDED						
Main	McCalister	North	R, S	\$ 8,641.13	\$ 16,317.00	\$ --	\$ 24,958.13	5	Medium
McCalister	2nd	North	R, S	\$ 8,641.13	\$ 10,722.60	\$ --	\$ 19,363.73	5	Low
2nd	4th	North	R, S	\$ 8,641.13	\$ 22,843.80	\$ --	\$ 31,484.93	5	Low
4th	6th	North	R, S	\$ 8,641.13	\$ 16,472.40	\$ --	\$ 25,113.53	5	Medium
6th	9th	North	R, S	\$ 8,641.13	\$ 39,378.36	\$ --	\$ 48,019.49	5	Medium
9th	17th	North	R, S, C, G	\$ 8,641.13	\$ 89,603.64	\$ 29,925.00	\$ 128,169.77	5	Medium
Main	2nd	South	R, S	\$ 8,641.13	\$ 30,769.20	\$ --	\$ 39,410.33	5	Medium
2nd	Avenue R	South	R, S, C, G	\$ 8,641.13	\$ 155,400.00	\$ 16,150.00	\$ 180,191.13	5	Low

**SUBTOTAL FOR ROADWAY: \$ 496,711.04**

**ROADWAY: 17TH STREET**  
*CLASSIFICATION: MINOR ARTERIAL*

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
			NEEDED						
Avenue R	Avenue J	West	R, S, C, G	\$ 8,641.13	\$ 73,659.60	\$ 45,030.00	\$ 127,330.73	5	Low
Avenue J	Avenue D	West	R, S, C, G	\$ 8,641.13	\$ 70,862.40	\$ 43,320.00	\$ 122,823.53	5	Low
Jefferson	Colonial	West	R, S, C, G	\$ 8,641.13	\$ 24,864.00	\$ 15,200.00	\$ 48,705.13	5	Low
Colonial	Jackson	West	R, S, C, G	\$ 8,641.13	\$ 9,883.44	\$ 6,042.00	\$ 24,566.57	5	Low
Jackson	Van Buren	West	R, S, C, G	\$ 8,641.13	\$ 9,448.32	\$ 5,776.00	\$ 23,865.45	5	Low
Van Buren	Dogwood	West	R, S, C, G	\$ 8,641.13	\$ 72,571.80	\$ 44,365.00	\$ 125,577.93	5	Low
Avenue R	Avenue J	East	R, S, C, G	\$ 8,641.13	\$ 73,659.60	\$ 45,030.00	\$ 127,330.73	5	Low
Avenue J	Avenue M	East	R, S, C, G	\$ 8,641.13	\$ 37,762.20	\$ 23,085.00	\$ 69,488.33	5	Low
Avenue M	Clayton	East	R, S, C, G	\$ 8,641.13	\$ 9,013.20	\$ 5,510.00	\$ 23,164.33	5	Low
Clayton	Avenue L	East	R, S, C, G	\$ 8,641.13	\$ 9,013.20	\$ 5,510.00	\$ 23,164.33	5	Low
Avenue L	Avenue I	East	R, S, C, G	\$ 8,641.13	\$ 29,370.60	\$ 17,955.00	\$ 55,966.73	5	Low
Avenue I	Parkview	East	R, S, C, G	\$ 8,641.13	\$ 28,438.20	\$ 17,385.00	\$ 54,464.33	5	Low
Parkview	Avenue F	East	R, S, C, G	\$ 8,641.13	\$ 5,439.00	\$ 3,325.00	\$ 17,405.13	5	Low
Avenue F	Avenue D	East	R, S, C, G	\$ 8,641.13	\$ 18,958.80	\$ 11,590.00	\$ 39,189.93	5	Low
Jefferson	Jackson	East	R, S, C, G	\$ 8,641.13	\$ 33,877.20	\$ 20,710.00	\$ 63,228.33	5	Low
Jackson	Polk	East	R, S, C, G	\$ 8,641.13	\$ 46,620.00	\$ 28,500.00	\$ 83,761.13	5	Low
Polk	Dogwood	East	R, S, C, G	\$ 8,641.13	\$ 33,100.20	\$ 20,235.00	\$ 61,976.33	5	Low

**SUBTOTAL FOR ROADWAY: \$ 1,092,008.97**

MODIFICATION LEGEND: R---Ramp, S---Sidewalk, C---Curb, G---Gutter

<b>ROADWAY: GUM STREET</b> <b>CLASSIFICATION: MINOR ARTERIAL</b>									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Dearduff	Main	North	R, S	\$ 8,641.13	\$ 7,303.80	\$ --	\$ 15,944.93	1	Low
Main	1st	North	R, S	\$ 8,641.13	\$ 11,499.60	\$ --	\$ 20,140.73	1	Low
1st	2nd	North	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	1	Low
2nd	3rd	North	R, S	\$ 8,641.13	\$ 7,770.00	\$ --	\$ 16,411.13	1	Low
3rd	Cemetery	North	R, S, C, G	\$ 8,641.13	\$ 42,579.60	\$ 26,030.00	\$ 77,250.73	1	Low
Main	2nd	South	R, S, C, G	\$ 8,641.13	\$ 20,823.60	\$ 12,730.00	\$ 42,194.73	1	Low
<b>SUBTOTAL FOR ROADWAY:</b>							<b>\$ 191,150.58</b>		

<b>ROADWAY: COMMERCIAL STREET</b> <b>CLASSIFICATION: MINOR ARTERIAL</b>									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Dogwood	Van Buren	West	R, S, C, G	\$ 8,641.13	\$ 74,902.80	\$ 45,790.00	\$ 129,333.93	1	Low
Van Buren	Madison	West	R, S, C, G	\$ 8,641.13	\$ 34,063.68	\$ 20,824.00	\$ 63,528.81	1	Low
Madison	Jefferson	West	R, S, C, G	\$ 8,641.13	\$ 10,567.20	\$ 6,460.00	\$ 25,668.33	1	Low
Jefferson	Adams	West	R, S, C, G	\$ 8,641.13	\$ 10,567.20	\$ 6,460.00	\$ 25,668.33	1	Low
Adams	Washington	West	R, S, C, G	\$ 8,641.13	\$ 10,567.20	\$ 6,460.00	\$ 25,668.33	1	High
Washington	Central	West	R, S, C, G	\$ 8,641.13	\$ 10,567.20	\$ 6,460.00	\$ 25,668.33	1	High
Central	Avenue D	West	R, S, C, G	\$ 8,641.13	\$ 44,755.20	\$ 27,360.00	\$ 80,756.33	1	High
Avenue D	Avenue K	West	S, C, G	\$ ---	\$ 79,285.08	\$ 48,469.00	\$ 127,754.08	1	High
Avenue K	Avenue R	West	R, S, C, G	\$ 8,641.13	\$ 80,497.20	\$ 49,210.00	\$ 138,348.33	5	Low
Avenue R	Main	West	R, S, C, G	\$ 8,641.13	\$ 46,309.20	\$ 28,310.00	\$ 83,260.33	5	Low
Madison	Jefferson	East	R, S, C, G	\$ 8,641.13	\$ 10,567.20	\$ 6,460.00	\$ 25,668.33	1	Low
Jefferson	Fairview	East	R, S, C, G	\$ 8,641.13	\$ 3,729.60	\$ 2,280.00	\$ 14,650.73	1	Low
Fairview	Air	East	R, S, C, G	\$ 8,641.13	\$ 7,459.20	\$ 4,560.00	\$ 20,660.33	1	Low
Air	Washington	East	R, S, C, G	\$ 8,641.13	\$ 7,210.56	\$ 4,408.00	\$ 20,259.69	1	Low
Washington	Avenue B	East	R, S, C, G	\$ 8,641.13	\$ 32,509.68	\$ 19,874.00	\$ 61,024.81	1	High

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MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

**ROADWAY: COMMERCIAL STREET (CONTINUED)**

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Avenue B	Avenue D	East	R, S, C, G	\$ 8,641.13	\$ 21,756.00	\$ 13,300.00	\$ 43,697.13	1	High
Avenue D	Chaparral Park	East	S, C, G	\$ ---	\$ 54,203.52	\$ 33,136.00	\$ 87,339.52	1	High
Chaparral Park	Avenue K	East	R, S, C, G	\$ 8,641.13	\$ 23,310.00	\$ 14,250.00	\$ 46,201.13	1	High
Avenue K	LCDC	East	R, S, C, G	\$ 8,641.13	\$ 28,376.04	\$ 17,347.00	\$ 54,364.17	5	Low
LCDC	Avenue R	East	R, S, C, G	\$ 8,641.13	\$ 50,909.04	\$ 31,122.00	\$ 90,672.17	5	Low
Avenue R	Main	East	R, S, C, G	\$ 8,641.13	\$ 46,309.20	\$ 28,310.00	\$ 83,260.33	5	Low

**SUBTOTAL FOR ROADWAY: \$ 1,273,453.47**

**ROADWAY: 6TH STREET**

*CLASSIFICATION: PUBLIC FACILITY ACCESS*

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Avenue N	Brian Urlacher	West	R, S	\$ 8,641.13	\$ 39,471.60	\$ --	\$ 48,112.73	5	High
Avenue K	Clayton	East	R, S	\$ 8,641.13	\$ 16,783.20	\$ --	\$ 25,424.33	5	High
Clayton	Avenue N	East	R, S	\$ 8,641.13	\$ 16,783.20	\$ --	\$ 25,424.33	5	High
Avenue N	Avenue O	East	R, S	\$ 8,641.13	\$ 8,391.60	\$ --	\$ 17,032.73	5	High
Avenue O	Avenue P	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue P	Avenue Q	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High
Avenue Q	Brian Urlacher	East	R, S	\$ 8,641.13	\$ 10,567.20	\$ --	\$ 19,208.33	5	High

**SUBTOTAL FOR ROADWAY: \$ 173,619.11**

**ROADWAY: AVENUE J**

*CLASSIFICATION: PUBLIC FACILITY ACCESS*

INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
1st	2nd	South	R, S	\$ 8,641.13	\$ 10,567.20	\$ ---	\$ 19,208.33	1	High

**SUBTOTAL FOR ROADWAY: \$ 19,208.33**

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

ROADWAY: 3RD STREET									
CLASSIFICATION: PUBLIC FACILITY ACCESS									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Jefferson	Jackson	West	R, S	\$ 8,641.13	\$ 33,877.20	\$ ---	\$ 42,518.33	2	High
Jefferson	Jackson	East	R, S	\$ 8,641.13	\$ 33,877.20	\$ ---	\$ 42,518.33	2	High
SUBTOTAL FOR ROADWAY:							\$ 85,036.66		

ROADWAY: E. Jefferson									
CLASSIFICATION: PUBLIC FACILITY ACCESS									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Commercial	Roosevelt	South	R, S	\$ 8,641.13	\$ 12,121.20	\$ ---	\$ 20,762.33	1	High
Commercial	Roosevelt	North	R, S	\$ 8,641.13	\$ 19,114.20	\$ ---	\$ 27,755.33	1	High
Roosevelt	Air	South	R, S	\$ 8,641.13	\$ 9,945.60	\$ ---	\$ 18,586.73	1	High
Roosevelt	Curry	North	R, S	\$ 8,641.13	\$ 19,269.60	\$ ---	\$ 27,910.73	1	High
SUBTOTAL FOR ROADWAY:							\$ 95,015.12		

ROADWAY: AIR									
CLASSIFICATION: PUBLIC FACILITY ACCESS									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Jefferson	Parkview	West	R, S	\$ 8,641.13	\$ 6,216.00	\$ ---	\$ 14,857.13	1	High
Jefferson	Parkview	East	R, S	\$ 8,641.13	\$ 6,216.00	\$ ---	\$ 14,857.13	1	High
SUBTOTAL FOR ROADWAY:							\$ 29,714.26		

MODIFICATION LEGEND: R --- Ramp, S --- Sidewalk, C --- Curb, G --- Gutter

<b>ROADWAY: PARKVIEW</b> <i>CLASSIFICATION: PUBLIC FACILITY ACCESS</i>									
INTERSECTION 1	INTERSECTION 2	STREET SIDE	MODIFICATION NEEDED	RAMP COST	SIDEWALK COST	CURB/GUTTER COST	TOTAL COST		PRIORITY
Air	Roosevelt	North	R, S	\$ 8,641.13	\$ 9,324.00	\$ ---	\$ 17,965.13	1	High
Air	Roosevelt	South	R, S	\$ 8,641.13	\$ 9,324.00	\$ ---	\$ 17,965.13	1	High
<b>SUBTOTAL FOR ROADWAY:</b>							<b>\$ 35,930.26</b>		

**ESTIMATED TOTAL TRANSITION PLAN CONSTRUCTION COST: \$8,232,026.81**

Local High Priority Total: \$2,506,628.17

High Priority Total (State Managed Roadways): \$ 843,474.85

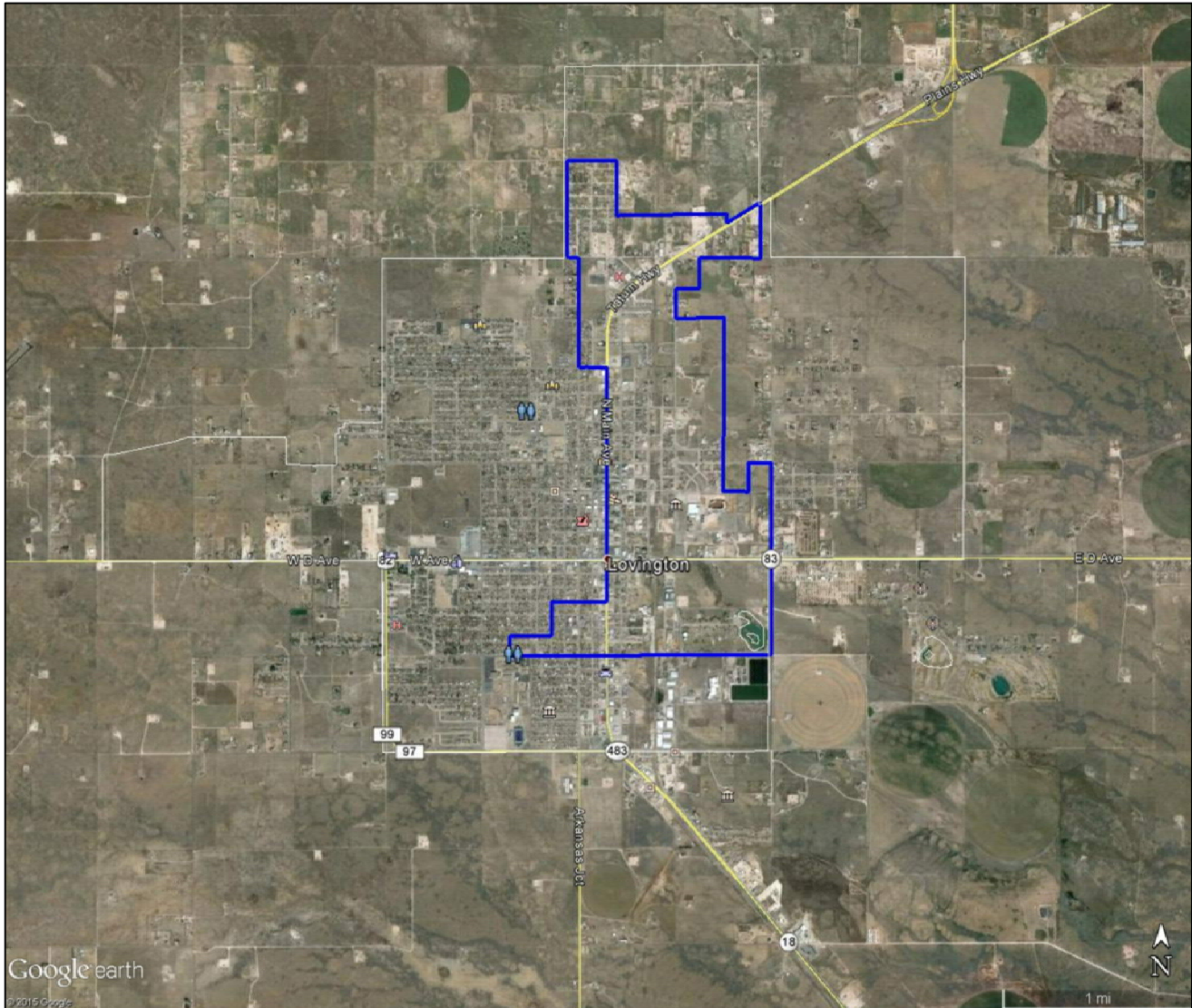
Medium Priority Total: \$2,592,380.64

Low Priority Total: \$2,289,543.15

MODIFICATION LEGEND: R--- Ramp, S--- Sidewalk, C--- Curb, G--- Gutter

# Appendix C

## City District Maps



## CITY OF LOVINGTON, NM DISTRICT 1

**PETTIGREW**  
& ASSOCIATES PA  
ENGINEERING | SURVEYING | TESTING  
DEFINING QUALITY SINCE 1965  
100 E. Navajo Drive Suite 100 Hobbs New Mexico 88240  
T 575 393 9827 F 575 393 1543  
Pettigrew.us

### REVISIONS

No.	DATE	DESCRIPTION

PROJECT ENGINEER:

PROJECT DESIGNER:

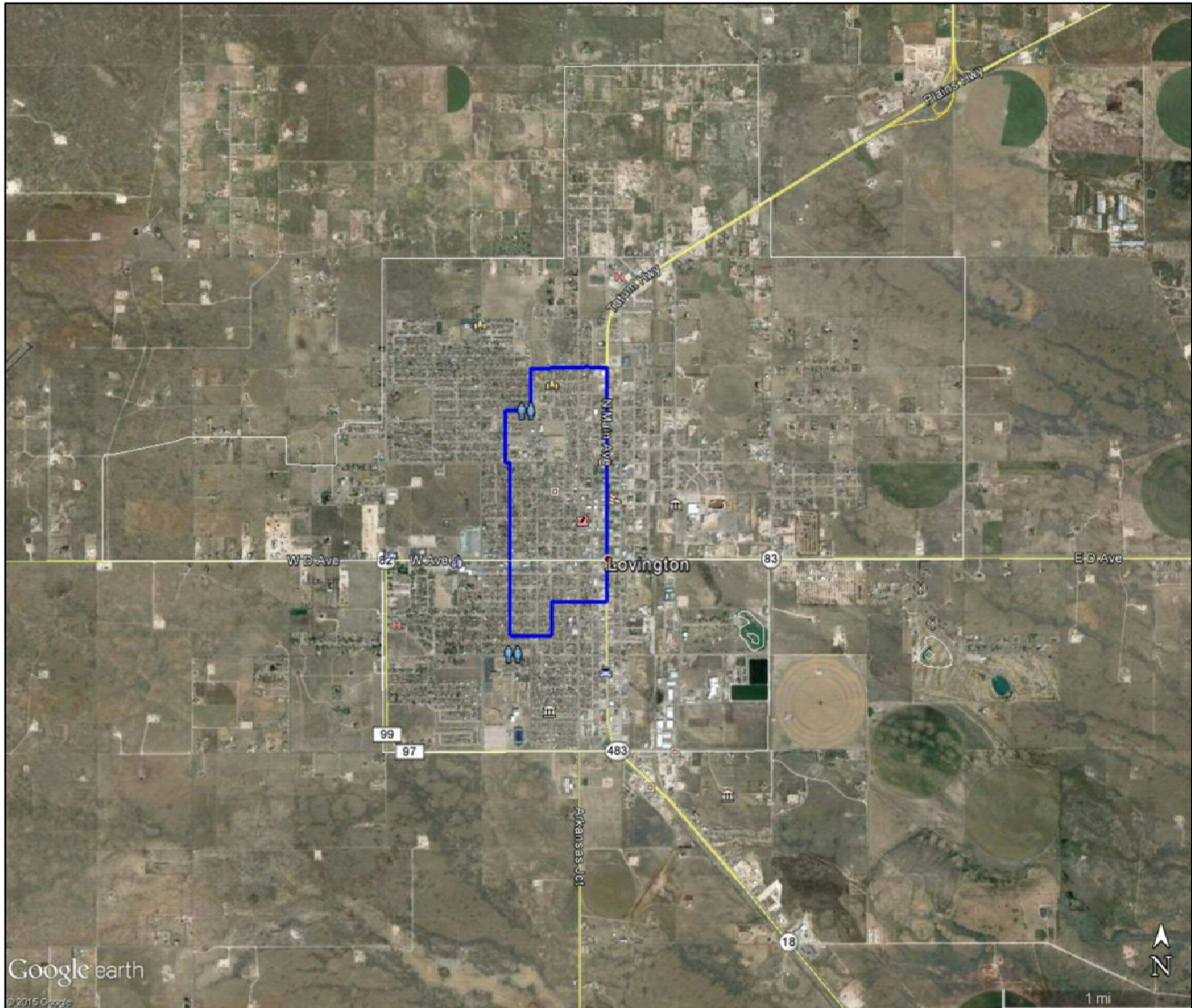
DRAWN BY:

35

JMC

PROJECT NUMBER:

SHEET  
C-001



## CITY OF LOVINGTON, NM DISTRICT 2

**PETTIGREW**  
& ASSOCIATES PA  
ENGINEERING | SURVEYING | TESTING  
DEFINING QUALITY SINCE 1965  
100 E. Navajo Drive Suite 100 Hobbs New Mexico 88240  
T 575 393 9827 F 575 393 1543  
Pettigrew.us

### REVISIONS

No.	DATE	DESCRIPTION

PROJECT ENGINEER:

PROJECT DESIGNER:

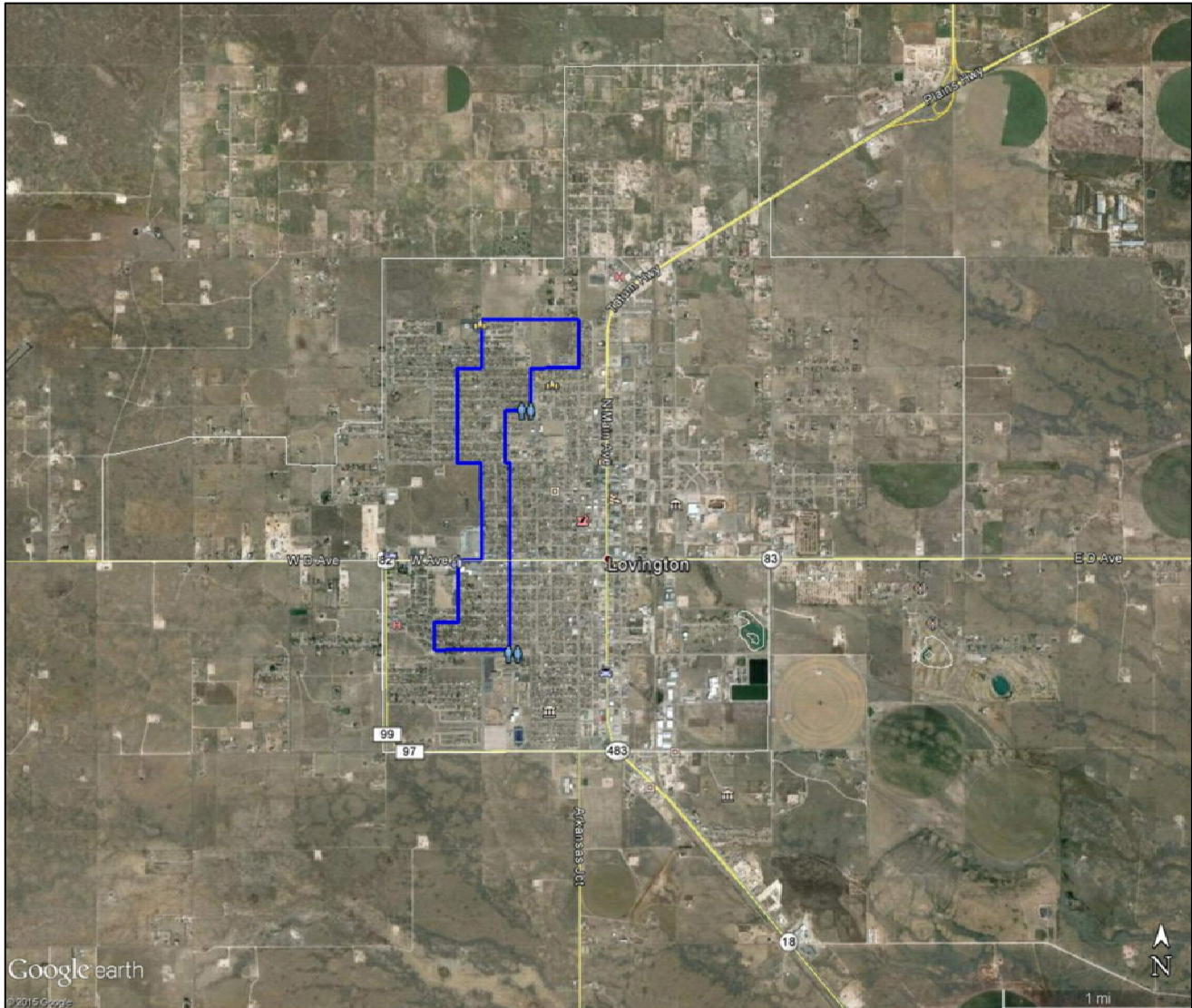
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36

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PROJECT NUMBER:

SHEET  
C-002



# CITY OF LOVINGTON, NM DISTRICT 3

**PETTIGREW**  
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100 E. Navajo Drive Suite 100 Hobbs New Mexico 88240  
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## REVISIONS

No.	DATE	DESCRIPTION

PROJECT ENGINEER:

PROJECT DESIGNER:

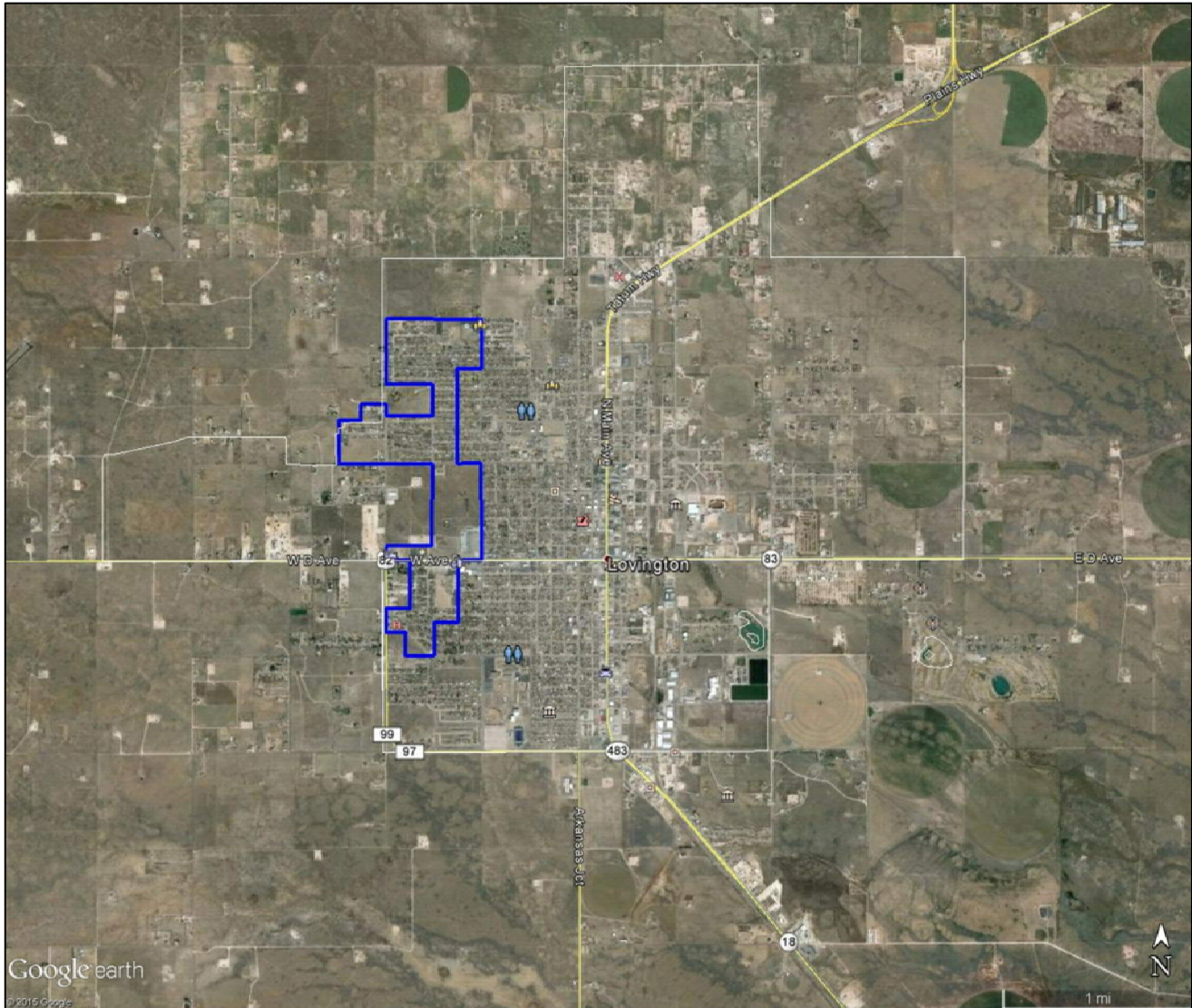
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37

JMC

PROJECT NUMBER:

SHEET  
C-003



# CITY OF LOVINGTON, NM DISTRICT 4

**PETTIGREW**  
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DEFINING QUALITY SINCE 1965  
100 E. Navajo Drive Suite 100 Hobbs New Mexico 88240  
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## REVISIONS

No.	DATE	DESCRIPTION

PROJECT ENGINEER:

PROJECT DESIGNER:

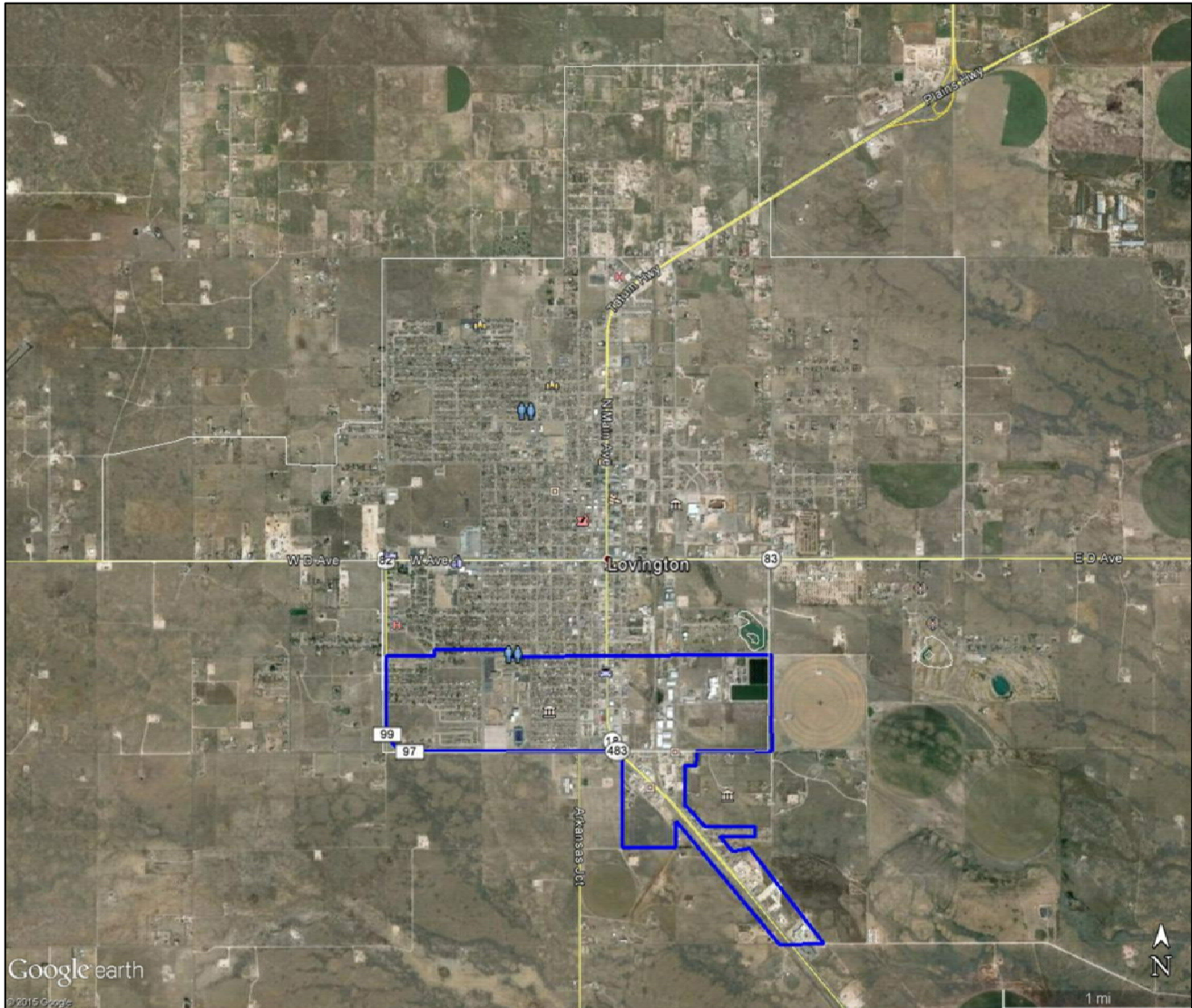
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38

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PROJECT NUMBER:

SHEET  
C-004



## CITY OF LOVINGTON, NM DISTRICT 5



ENGINEERING | SURVEYING | TESTING  
DEFINING QUALITY SINCE 1965

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### REVISIONS

No.	DATE	DESCRIPTION

PROJECT ENGINEER:

PROJECT DESIGNER:

DRAWN BY:

39

JMC

PROJECT NUMBER:

SHEET  
C-005

# Appendix D

## District Intersection Count

District 1						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	1/4	1/2	3/4	1	
7th	K	X				4---Leg
7th	J		X			4---Leg
5th	K		X			4---Leg
5th	J				X	4---Leg
4th	K		X			4---Leg
4th	J				X	4---Leg
4th	I		X			4---Leg
4th	H		X			4---Leg
4th	G	X				4---Leg
3rd	K		X			4---Leg
3rd	J				X	4---Leg
3rd	I				X	4---Leg
3rd	H				X	4---Leg
3rd	G		X			4---Leg
3rd	Gum	X				T
3rd	Juniper		X			T
3rd	Kingwood		X			T
3rd	Larch		X			T
2nd	K		X			4---Leg
2nd	J				X	4---Leg
2nd	I				X	T
2nd	H				X	4---Leg
2nd	G		X			4---Leg
2nd	Polk	X				T
2nd	Birch					T
2nd	Gum	X		X		4---Leg
1st	K		X			4---Leg
1st	J				X	4---Leg
1st	I				X	T
1st	H				X	4---Leg
1st	G		X			4---Leg
1st	Polk		X			4---Leg
1st	Birch				X	4---Leg
1st	Gum				X	T
1st	Ivy				X	4---Leg
1st	Juniper				X	4---Leg
1st	Kingwood				X	4---Leg
1st	Larch				X	4---Leg
1st	Mesquite				X	T
Main	K		X			4---Leg
Main	J				X	4---Leg
Main	I				X	4---Leg
Main	H				X	4---Leg
Main	G			X		4---Leg
Main	F		X			4---Leg

District 1						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	1/4	1/2	3/4	1	
Main	E		X			4---Leg
Main	D		X			4---Leg
Main	C		X			4---Leg
Main	B		X			4---Leg
Main	A		X			4---Leg
Main	Central		X			4---Leg
Main	Washington		X			4---Leg
Main	Adams		X			4---Leg
Main	Jefferson		X			4---Leg
Main	Madison		X			4---Leg
Main	Monroe		X			4---Leg
Main	Jackson		X			4---Leg
Main	Van Buren		X			4---Leg
Main	Harrison		X			4---Leg
Main	Tyler		X			4---Leg
Main	Polk			X		4---Leg
Main	Birch				X	4---Leg
Main	Love				X	4---Leg
Main	Deardruff				X	T
Main	Gum				X	4---Leg
Main	Juniper				X	T
Main	Juniper				X	T
Main	Kingwood				X	T
Main	Larch				X	T
Main	Mesquite				X	T
Love	K		X			4---Leg
Love	J				X	4---Leg
Love	I				X	4---Leg
Love	H				X	4---Leg
Love	G				X	4---Leg
Love	F				X	4---Leg
Love	E				X	4---Leg
Love	D				X	4---Leg
Love	C				X	4---Leg
Love	B				X	4---Leg
Love	A				X	4---Leg
Love	Central				X	4---Leg
Love	Washington				X	4---Leg
Love	Adams				X	4---Leg
Love	Jefferson				X	4---Leg
Love	Madison				X	4---Leg
Love	Monroe				X	4---Leg
Love	Jackson				X	4---Leg
Love	Van Buren				X	4---Leg
Love	Harrison				X	4---Leg

District 1						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	1/4	1/2	3/4	1	
Love	Tyler				X	4---Leg
Love	Polk				X	4---Leg
Love	Aspen				X	T
Love	Birch				X	T
Love	Elm				X	T
East	D				X	4---Leg
East	C				X	T
East	A				X	T
East	Central				X	4---Leg
East	Washington				X	4---Leg
East	Adams				X	4---Leg
East	Jefferson				X	4---Leg
East	Madison				X	4---Leg
East	Monroe				X	4---Leg
East	Jackson				X	4---Leg
East	Van Buren				X	4---Leg
East	Polk				X	T
Forrest	Forrest				X	T
Commercial	K		X			4---Leg
Commercial	D				X	4---Leg
Commercial	B				X	T
Commercial	Washington				X	4---Leg
Commercial	Fairview				X	T
Commercial	Jefferson				X	4---Leg
Commercial	Madison				X	4---Leg
Commercial	Van Buren				X	4---Leg
Commercial	Main				X	T
Fairview	Washington				X	T
Fairview	Park				X	4---Leg
Roosevelt	D				X	T
Roosevelt	B				X	T
Roosevelt	Washington				X	T
Roosevelt	Park				X	4---Leg
Roosevelt	Jefferson				X	T
Air	Washington				X	T
Curry	D				X	T
Curry	C				X	T
Curry	B				X	T
Curry	Washington				X	T
Curry	Jefferson				X	T
Curry	Madison				X	T
Curry	Monroe				X	T
Industrial	K	X				T
Industrial	D				X	4---Leg
Industrial	C				X	T

District 1						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	1/4	1/2	3/4	1	
Industrial	Washington				X	T
Industrial	Jefferson	X				T

District 2						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	1/4	1/2	3/4	1	
8th	Jefferson	X				T
8th	Madison		X			T
8th	Monroe		X			T
8th	Taylor		X			4---Leg
8th	Jackson		X			4---Leg
8th	Van Buren	X				4---Leg
7th	I		X			4---Leg
7th	H		X			4---Leg
7th	G		X			4---Leg
7th	F		X			4---Leg
7th	E		X			4---Leg
7th	D		X			4---Leg
7th	C		X			4---Leg
7th	B		X			4---Leg
7th	A		X			4---Leg
7th	Central		X			4---Leg
7th	Washington		X			4---Leg
7th	Adams		X			4---Leg
7th	Jefferson		X			T
7th	Jackson				X	T
6th	B				X	T
6th	A				X	4---Leg
6th	Central				X	4---Leg
6th	Washington				X	T
6th	Adams				X	T
6th	Jefferson				X	T
6th	Jackson				X	T
6th	Van Buren			X		T
6th	Harrison		X			T
6th	Tyler				X	T
6th	Polk	X				4---Leg
5th	I				X	4---Leg
5th	H				X	4---Leg
5th	G				X	4---Leg
5th	F				X	4---Leg
5th	E				X	4---Leg
5th	D				X	4---Leg
5th	C				X	4---Leg
5th	B				X	4---Leg
5th	A				X	4---Leg
5th	Central				X	4---Leg
5th	Washington				X	4---Leg
5th	Adams				X	4---Leg
5th	Jefferson				X	T
5th	Monroe				X	T

District 2						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	1/4	1/2	3/4	1	
5th	Jackson				X	4---Leg
5th	Van Buren				X	T
4th	I		X			4---Leg
4th	H		X			4---Leg
4th	G			X		4---Leg
4th	F				X	4---Leg
4th	E				X	4---Leg
4th	D				X	4---Leg
4th	C				X	4---Leg
4th	B				X	4---Leg
4th	A				X	4---Leg
4th	Central				X	4---Leg
4th	Washington				X	4---Leg
4th	Adams				X	4---Leg
4th	Jefferson				X	T
4th	Jackson				X	T
4th	Van Buren				X	4---Leg
4th	Harrison				X	4---Leg
4th	Tyler				X	4---Leg
4th	Polk		X			T
3rd	G		X			4---Leg
3rd	F				X	4---Leg
3rd	E				X	4---Leg
3rd	D				X	4---Leg
3rd	C				X	4---Leg
3rd	B				X	4---Leg
3rd	A				X	4---Leg
3rd	Central				X	4---Leg
3rd	Washington				X	4---Leg
3rd	Adams				X	4---Leg
3rd	Jefferson				X	4---Leg
3rd	Jackson				X	4---Leg
3rd	Van Buren		X			T
2nd	G		X			4---Leg
2nd	F				X	4---Leg
2nd	E				X	4---Leg
2nd	D				X	4---Leg
2nd	C				X	4---Leg
2nd	B				X	4---Leg
2nd	A				X	4---Leg
2nd	Central				X	4---Leg
2nd	Washington				X	4---Leg
2nd	Adams				X	4---Leg
2nd	Jefferson				X	4---Leg
2nd	Madison				X	T

District 2						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	1/4	1/2	3/4	1	
2nd	Monroe				X	T
2nd	Jackson				X	4---Leg
2nd	Van Buren				X	4---Leg
2nd	Harrison				X	4---Leg
2nd	Tyler				X	4---Leg
2nd	Polk		X			T
1st	G		X			4---Leg
1st	F				X	4---Leg
1st	E				X	4---Leg
1st	D				X	4---Leg
1st	C				X	4---Leg
1st	B				X	4---Leg
1st	A				X	4---Leg
1st	Central				X	4---Leg
1st	Washington				X	4---Leg
1st	Adams				X	4---Leg
1st	Jefferson				X	4---Leg
1st	Madison				X	4---Leg
1st	Monroe				X	4---Leg
1st	Jackson				X	4---Leg
1st	Van Buren				X	4---Leg
1st	Harrison				X	4---Leg
1st	Gore				X	4---Leg
1st	Polk		X			4---Leg
Main	G	X				4---Leg
Main	F		X			4---Leg
Main	E		X			4---Leg
Main	D		X			4---Leg
Main	C		X			4---Leg
Main	B		X			4---Leg
Main	A		X			4---Leg
Main	Central		X			4---Leg
Main	Washington		X			4---Leg
Main	Adams		X			4---Leg
Main	Jefferson		X			4---Leg
Main	Madison		X			4---Leg
Main	Monroe		X			4---Leg
Main	Jackson		X			4---Leg
Main	Van Buren		X			4---Leg
Main	Harrison		X			4---Leg
Main	Tyler		X			T
Main	Polk	X				4---Leg

District 3						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	25%	50%	75%	100%	
13th	J		X			4---Leg
13th	I		X			4---Leg
11th	J				X	4---Leg
11th	I				X	4---Leg
11th	H		X			4---Leg
11th	F				X	T
11th	June				X	T
11th	Jefferson	X				T
11th	Madison		X			4---Leg
11th	Monroe		X			4---Leg
11th	Taylor		X			4---Leg
11th	Jackson		X			4---Leg
11th	Van Buren		X			4---Leg
11th	Harrison		X			4---Leg
11th	Gore		X			4---Leg
11th	Tyler		X			4---Leg
11th	Polk	X				T
9th	J				X	4---Leg
9th	I				X	4---Leg
9th	H				X	4---Leg
9th	G				X	4---Leg
9th	K				X	4---Leg
9th	J				X	4---Leg
9th	I				X	4---Leg
9th	H				X	4---Leg
9th	G				X	4---Leg
9th	F				X	4---Leg
9th	E			X		T
9th	D			X		4---Leg
9th	C		X			T
9th	B		X			T
9th	A		X			T
9th	Central		X			T
9th	Washington		X			T
9th	Adams		X			T
9th	Jefferson			X		4---Leg
9th	Madison				X	4---Leg
9th	Monroe				X	4---Leg
9th	Taylor				X	4---Leg
9th	Jackson				X	4---Leg
9th	Van Buren				X	4---Leg
9th	Harrison				X	4---Leg
9th	Gore				X	4---Leg
9th	Tyler				X	4---Leg
9th	Polk			X		4---Leg

District 3						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	25%	50%	75%	100%	
9th	Aspen		X			4---Leg
9th	Birch		X			4---Leg
9th	Cottonwood		X			T
9th	Dogwood		X			T
8th	B		X			T
8th	A				X	4---Leg
8th	Central				X	4---Leg
8th	Washington				X	4---Leg
8th	Adams				X	4---Leg
8th	Jefferson		X			4---Leg
8th	Madison		X			T
8th	Monroe		X			T
8th	Taylor		X			4---Leg
8th	Jackson		X			4---Leg
8th	Van Buren		X			4---Leg
8th	Harrison				X	4---Leg
8th	Gore				X	4---Leg
8th	Tyler				X	4---Leg
8th	Polk				X	T
7th	J		X			4---Leg
7th	I		X			4---Leg
7th	H		X			4---Leg
7th	G		X			4---Leg
7th	K		X			4---Leg
7th	J		X			4---Leg
7th	I		X			4---Leg
7th	H		X			4---Leg
7th	G		X			4---Leg
7th	F		X			4---Leg
7th	E		X			4---Leg
7th	D		X			4---Leg
7th	C		X			4---Leg
7th	B		X			4---Leg
7th	A		X			4---Leg
7th	Central		X			4---Leg
7th	Washington		X			4---Leg
7th	Adams		X			4---Leg
7th	Jefferson		X			4---Leg
7th	Madison		X			4---Leg
7th	Monroe		X			4---Leg
7th	Taylor		X			4---Leg
7th	Jackson		X			4---Leg
7th	Van Buren			X		4---Leg
7th	Harrison				X	4---Leg
7th	Gore				X	4---Leg

District 3						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	25%	50%	75%	100%	
7th	Tyler				X	4---Leg
7th	Polk				X	T
7th	Aspen				X	T
7th	Birch				X	T
7th	Cottonwood				X	T
7th	Dogwood				X	T
6th	Harrison		X			T
6th	Gore		X			T
6th	Tyler		X			T
6th	Polk				X	T
4th	Polk		X			T
2nd	Polk		X			4---Leg
2nd	Birch		X			T

District 4						
Direction		% Intersection in District				
N/S	E/W	25%	50%	75%	100%	Type of Intersection
20th	Jefferson	X				T
20th	Monroe		X			T
20th	Colonial		X			T
20th	Jackson	X				T
18th	Jefferson		X			T
17th	I		X			T
17th	D	X				4---Leg
17th	Jefferson		X			4---Leg
17th	Jackson				X	4---Leg
17th	Vt		X			T
17th	Van Buren		X			T
17th	Harrison		X			T
17th	Polk		X			T
16th	Jefferson		X			T
16th	Madison				X	T
16th	Monroe				X	T
16th	Jackson				X	T
16th	Tyler				X	T
16th	Polk				X	4---Leg
16th	Birch				X	T
15th	I				X	T
Aspen	Polk				X	T
14th	Tyler				X	T
14th	Polk				X	4---Leg
13th	K		X			4---Leg
13th	J		X			4---Leg
13th	I		X			4---Leg
13th	H				X	4---Leg
13th	So. Yucca				X	T
13th	No. Yucca				X	T
13th	D					T
13th	Jefferson				X	T
13th	Madison				X	4---Leg
13th	Monroe				X	4---Leg
13th	Taylor				X	T
13th	Jackson				X	4---Leg
13th	Gore		X			T
13th	Polk				X	T
13th	Aspen				X	T
13th	Birch				X	T
13th	Cottonwood				X	T
13th	Dogwood				X	T
12th	Birch				X	T
11th	H	X				4---Leg

District 4						
Direction		% Intersection in District				
N/S	E/W	25%	50%	75%	100%	Type of Intersection
11th	F		X			T
11th	D			X		T
11th	Jefferson			X		4---Leg
11th	Madison		X			4---Leg
11th	Monroe		X			4---Leg
11th	Taylor		X			4---Leg
11th	Jackson		X			4---Leg
11th	Van Buren		X			4---Leg
11th	Harrison		X			4---Leg
11th	Gore		X			4---Leg
11th	Tyler		X			4---Leg
11th	Polk		X			4---Leg
11th	Aspen		X			4---Leg
9th	D	X				4---Leg
9th	C		X			T
9th	B		X			T
9th	Jefferson	X				4---Leg
9th	Polk	X	X			4---Leg
9th	Aspen		X			4---Leg
9th	Birch		X			4---Leg

District 5						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	25%	50%	75%	100%	
17th	Clayton		X			T
17th	L		X			T
16th	M				X	T
13th	N				X	4---Leg
13th	M				X	4---Leg
13th	Clayton				X	4---Leg
13th	L				X	4---Leg
13th	K				X	T
Carter	Q				X	T
Q	Carter				X	T
P	O				X	T
O	P				X	T
9th	Brian Urlacher		X			T
9th	Carter				X	T
9th	P				X	T
9th	M				X	T
9th	K				X	4---Leg
7th	K		X			T
6th	Brian Urlacher		X			T
6th	Q				X	T
6th	P				X	T
6th	O				X	T
6th	N				X	T
6th	Clayton				X	T
6th	K		X			4---Leg
5th	N				X	T
5th	M				X	T
5th	Clayton				X	4---Leg
5th	L				X	T
5th	K		X			T
4th	Brian Urlacher		X			T
4th	Q				X	4---Leg
4th	P				X	4---Leg
4th	O				X	4---Leg
4th	N				X	T
3rd	N				X	T
3rd	M				X	4---Leg
3rd	Clayton				X	4---Leg
3rd	L				X	4---Leg
3rd	K		X			4---Leg
2nd	Brian Urlacher		X			T
2nd	Q				X	4---Leg
2nd	P				X	T
2nd	O				X	4---Leg
2nd	N				X	4---Leg

District 5						
Direction		% of Intersection in District				Type of Intersection
N/S	E/W	25%	50%	75%	100%	
2nd	M				X	4---Leg
2nd	Clayton				X	T
2nd	L		X			4---Leg
2nd	K		X			4---Leg
1st	Q				X	T
1st	O				X	4---Leg
1st	N				X	4---Leg
1st	M				X	4---Leg
1st	L				X	4---Leg
1st	K				X	4---Leg
Mcalister	Brian Urlacher		X			T
Mcalister	Q				X	T
Mcalister	Main				X	T
Main	Gilmore		X			T
Main	Simpson				X	T
Main	Love				X	T
Main	R				X	4---Leg
Main	P				X	T
Main	O				X	4---Leg
Main	N				X	4---Leg
Main	M				X	4---Leg
Main	L				X	4---Leg
Main	K				X	4---Leg
Love	P				X	4---Leg
Love	O				X	4---Leg
Love	N				X	4---Leg
Love	M				X	4---Leg
Love	L				X	4---Leg
Love	K		X			4---Leg
Dencoe	Main				X	T
Dencoe	Love				X	4---Leg
Commercial	Main				X	T
Commercial	R				X	4---Leg
Commercial	K		X			4---Leg
Industrial	R	X				4---Leg
Industrial	K	X				4---Leg

## Appendix E

### Ramp Construction Estimates

The diagram consists of two main parts. The upper part shows a curved, bowl-like structure defined by two concentric arcs. Inside this structure, there is a rectangular region filled with a dense pattern of small dots. The lower part of the diagram is a vertical stack of 15 identical horizontal rectangular bars, aligned with the left side of the curved structure above.

A diagram of a staircase with a curved path. The path starts at the top left and curves downwards to the right. It is divided into several rectangular sections by horizontal and vertical lines. Two of these sections are shaded with a pattern of small dots. The first shaded section is a vertical rectangle in the upper left part of the staircase. The second shaded section is a horizontal rectangle in the lower right part of the staircase. Below the staircase, there is a horizontal line, and underneath that, a vertical column of 15 empty rectangular boxes, each with a thin purple border, arranged one above the other.

The diagram consists of two main parts. The upper part is a curved structure, possibly representing a segment of a helix or a curved beam, divided into several segments by radial lines. One segment is shaded with a dense pattern of small dots. The lower part is a vertical stack of 15 horizontal bars, each with a thin black outline and a light gray fill, arranged in a column.

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CITY OF LOVINGTON, NM  
ADA TRANSITION PLAN

PROJECT NUMBER:	SHEET C-001
-----------------	----------------

## Engineer's Estimate

Date: June 22, 2015

Prepared By: Jonathan Carey, EI

### Type "D" Ramp

ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	USE QUANTITY	AMOUNT TO DATE
1	TYPE "D" HANDICAP RAMP	EACH	\$3,150.00	1	\$3,150.00
2	DETECTABLE WARNING SURFACE COMPLETE IN PLACE	SQ. FT.	\$35.00	11	\$385.00
3	6" CONCRETE FILLET WITH REBAR COMPLETE IN PLACE	SQ. YD.	\$78.00	25	\$1,950.00
4	HOT THERMOPLASTIC PAVEMENT MARKINGS 12"	LIN. FT.	\$15.00	130	\$1,950.00
5	6" x 24" CURB AND GUTTER, COMPLETE IN PLACE	LIN. FT.	\$19.00	40	\$760.00
<b>Estimated Cost of Improvements- Sub-total Base Bid</b>					<b>\$8,195.00</b>
Subtotal					\$8,195.00
New Mexico Gross Receipts Tax (6.8125%)					\$558.28
Total Estimated Cost for Type "D" Ramp					\$8,753.28

### Type "E" Ramp

ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	USE QUANTITY	AMOUNT TO DATE
1	TYPE "E" HANDICAP RAMP	EACH	\$2,800.00	1	\$2,800.00
2	DETECTABLE WARNING SURFACE COMPLETE IN PLACE	SQ. FT.	\$35.00	18	\$630.00
3	6" CONCRETE FILLET WITH REBAR COMPLETE IN PLACE	SQ. YD.	\$78.00	25	\$1,950.00
4	HOT THERMOPLASTIC PAVEMENT MARKINGS 12"	LIN. FT.	\$15.00	130	\$1,950.00
5	6" x 24" CURB AND GUTTER, COMPLETE IN PLACE	LIN. FT.	\$19.00	40	\$760.00
<b>Estimated Cost of Improvements- Sub-total Base Bid</b>					<b>\$8,090.00</b>
Subtotal					\$8,090.00
New Mexico Gross Receipts Tax (6.8125%)					\$551.13
Total Estimated Cost for Type "E" Ramp					\$8,641.13

### Type "D" Ramp - Without Curb & Gutter

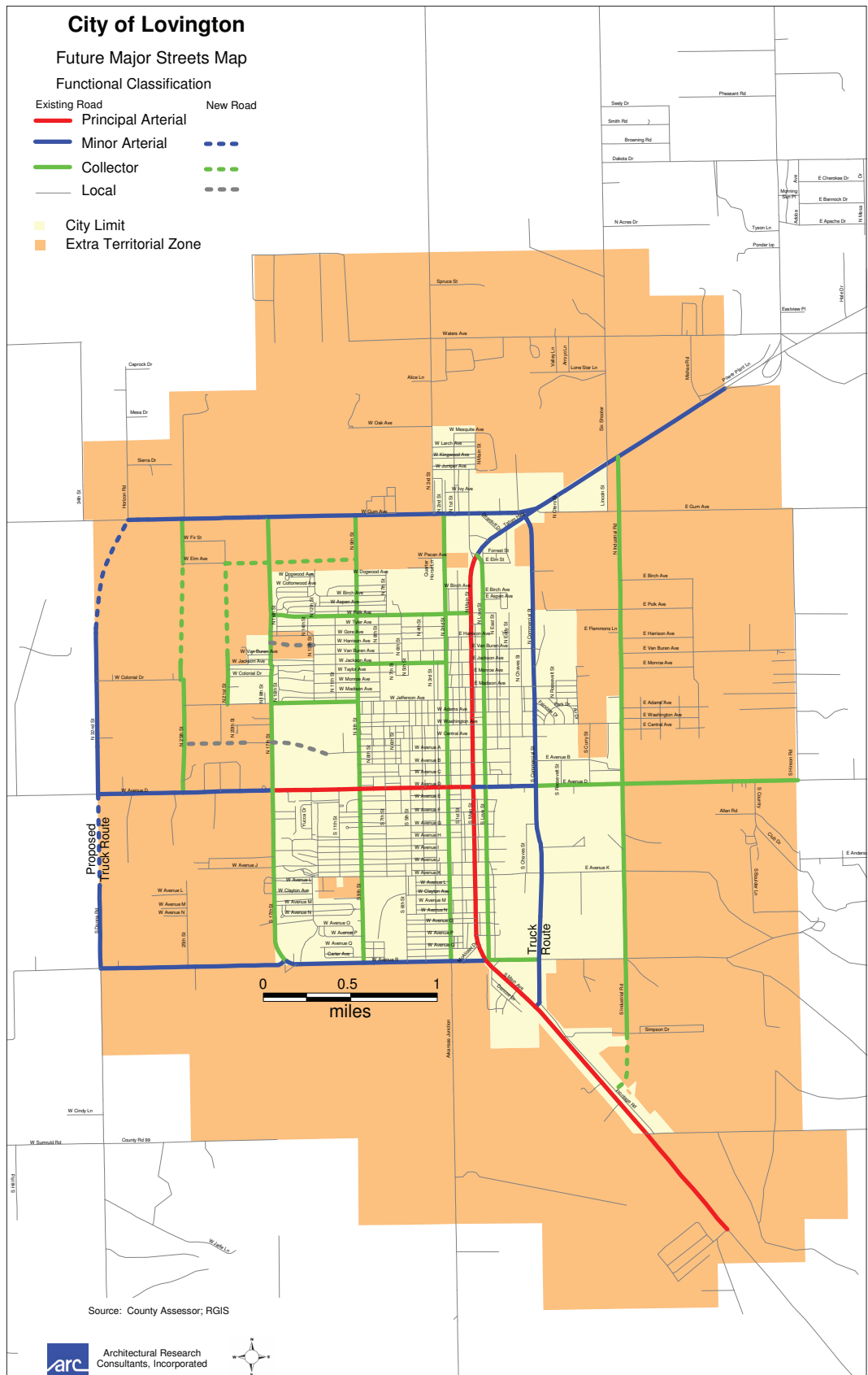
ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	USE QUANTITY	AMOUNT TO DATE
1	TYPE "D" HANDICAP RAMP	EACH	\$3,150.00	1	\$3,150.00
2	DETECTABLE WARNING SURFACE COMPLETE IN PLACE	SQ. FT.	\$35.00	11	\$385.00
3	6" CONCRETE FILLET WITH REBAR COMPLETE IN PLACE	SQ. YD.	\$78.00	15	\$1,170.00
4	HOT THERMOPLASTIC PAVEMENT MARKINGS 12"	LIN. FT.	\$15.00	150	\$2,250.00
5	4" SIDEWALK COMPLETE IN PLACE	SQ. YD.	\$70.00	13	\$910.00
<b>Estimated Cost of Improvements- Sub-total Base Bid</b>					<b>\$7,865.00</b>
Subtotal					\$7,865.00
New Mexico Gross Receipts Tax (6.8125%)					\$535.80
Total Estimated Cost for Type "D" Ramp Without Curb & Gutter					\$8,400.80

## Appendix F

# Roadway Classification and Project Map

streets and roadways designated as U.S. highway and state highways. The City of Lovington owns and maintains all other streets.

**Exhibit VI-5**  
Current Functional  
Classification of  
Streets



# Project Map by Priority

High - State Managed

Medium - Local Roadway

Low - State Managed

High - Local Roadway

Low - Local Roadway

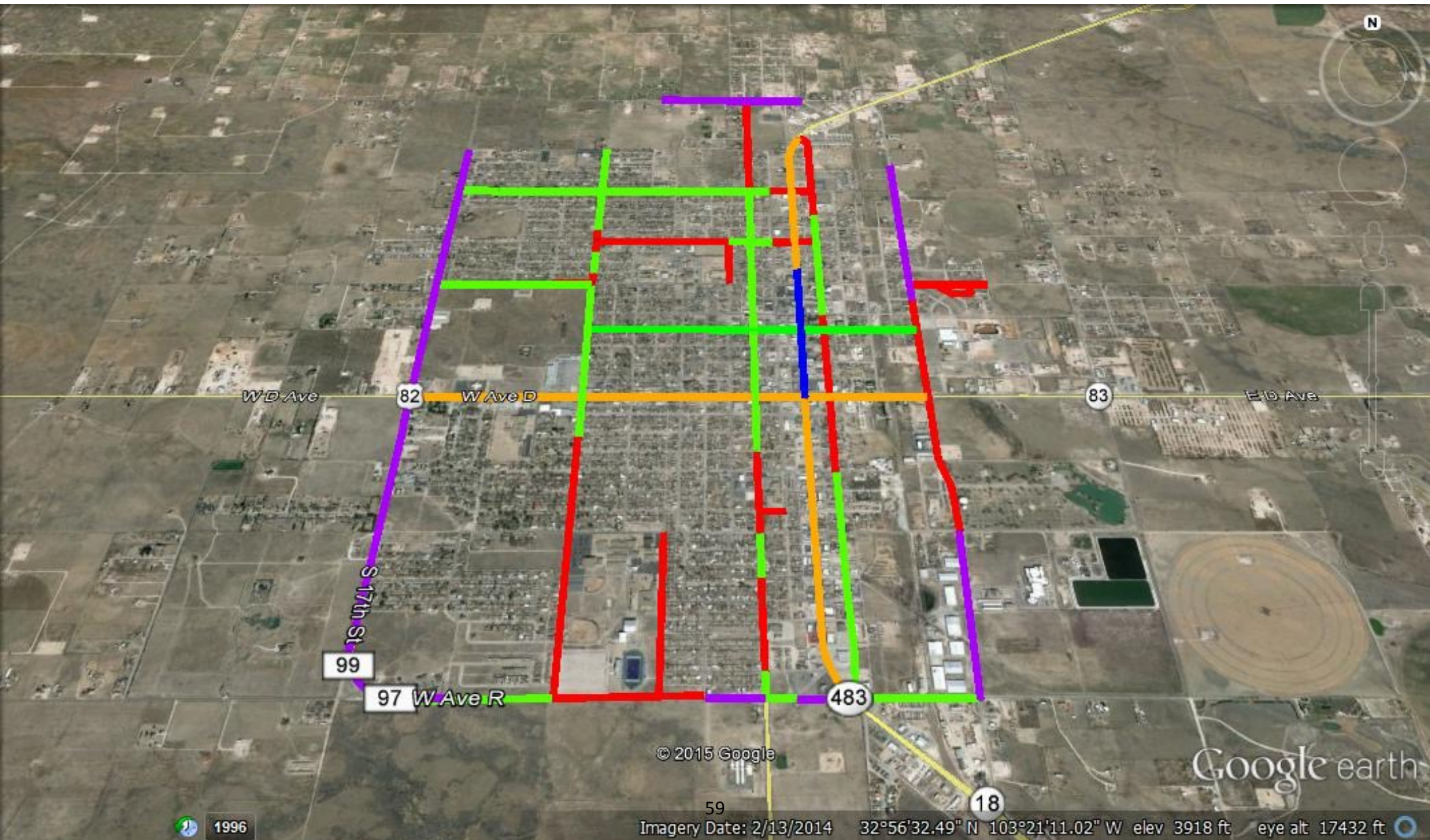


Table 5

PROJECT	Funding Source	Project year / Project Amount				
		Year / \$	Year / \$	Year / \$	Year / \$	Completed Y / N
North Commercial Street (Ave D to Hwy 18/82 )	CDBG/Local	2015-2018 \$2.1 M				Yes
N 17 <sup>th</sup> Street (Ave D to Jefferson Ave)	CDBG/Local	2019 \$2.25M				Yes
Chaparral Park Playground	Local	2017 \$200K				Yes
Chaparral Splash Pad	Local	2016 \$200K	Updated 2023 \$80K			Yes
Lovington Downtown Trail	RTP/Local				2030 \$1.5M	No
Central Plaza (Central Ave / Main to Love)	Local	2019 \$215K				Yes
Central Plaza (Washington / Main to Love)	LGRF/TAP/Local	2016 \$89K		2025 \$750K		Design only completed
Central Plaza (pocket Park)	Local/NMMS	2017 \$500K				Yes
Chaparral Park Amphitheater/Shelters	Local/RTP	2025 \$800K				No
Lovington Sports Complex	Local				2030 \$1.5M	No
Lea Theater Rehabilitation	Local/ NMED/NMMS	2017 \$1.5M	2023 \$450K	2024 \$400K		In progress
E Ave R (maintenance) (Commercial to Main)	Local / TPF	2023 \$200K	2025 800K			RR crossing and gutter at Commercial have been completed
Adams Ave (Main to Love)	Local/LGRF/TPF	2028 \$750K				No
Washinton Ave (Love to East) (north side and Love to Commercial south side East to Commercial)	Local	2018 \$400K	2025 Design \$90K	2027 Construction \$1M		South side ADA improvements County Judicial Building, completed
Central Ave (Main to 9 <sup>th</sup> St)	Local/ TPR/MAP/ CDBG	2023 \$				
W Jackson Ave ADA sidewalk, ramp and road improvments (9 <sup>th</sup> to 17 <sup>th</sup> )	Local/ MAP/TPF	2023 \$85K	2024/2025 \$1.5M			Design completed 2023
2 <sup>nd</sup> Street ADA sidewalk, ramp and road improvements (Ave D to Central)	Local/CDBG	2024 \$750K	2025 \$150K			
9 <sup>th</sup> Street ADA sidewalk, ramp & road improvements (Ave D to Ave K)	Local/MAP/ TPF	2023/2024 \$143K	2025/2026 \$2.5M			Desing is in progress

Table 5

**CITY OF LOVINGTON**  
**COMMISSION STAFF SUMMARY FORM**

MEETING DATE: 2/12/2024



Item Type: Information

SUBJECT: Discussion of Appointment of Municipal Judge  
DEPARTMENT: City Managers Office  
SUBMITTED BY: Shannon Lester  
DATE SUBMITTED: 1/26/2024

**COMPREHENSIVE PLAN IMPLEMENTATION:**

**STAFF SUMMARY:**

Judge Barbara Campbell will retire effective January 31, 2024. The Mayor can appoint the replacement with the consent of the City Commission. The term will expire December 31, 2027. The Municipal Judge candidates will run in the regular local election in November, 2027.

**FISCAL IMPACT:**

**RECOMMENDATION:**

**ATTACHMENTS:**

Description	Type
Mun Judge - Chapter 2.60	Cover Memo

## Chapter 2.60

### MUNICIPAL JUDGE

---

#### Sections:

- 2.60.010 Elected.
- 2.60.020 Qualifications.
- 2.60.030 Bond and oath.
- 2.60.040 Alternates to serve during temporary absence.
- 2.60.050 Benefits and salary.
- 2.60.060 Duties.
- 2.60.070 Recordkeeping.

#### **2.60.010 Elected.**

The municipal judge shall be elected as provided by law. Vacancy shall be filled by the mayor with the advice and consent of the city commission. (Prior code § 5-2-1)

#### **2.60.020 Qualifications.**

The municipal judge shall be a registered, qualified elector of the city. (Prior code § 5-2-2)

#### **2.60.030 Bond and oath.**

The municipal judge shall, before he enters the duties of office, if no corporate surety bond covering all municipal officials exists, execute a surety bond to the city in the amount of five thousand dollars conditioned upon the faithful performance of his duties and the paying over to the city of all fines, forfeited bonds and other money which comes into his hands by virtue of his office. The municipal judge shall take the oath of office as required in Section 3-10-2 NMSA, 1978. (Amended during 1992 codification: prior code § 5-2-3)

#### **2.60.040 Alternates to serve during temporary absence.**

The mayor with the advice and consent of the city commission shall designate two qualified electors of the city as alternate municipal judges, one of whom shall serve as acting municipal judge during the vacation, temporary absence, unavailability or incapacity of the municipal judge. The municipal judge, before absenting himself shall select, or upon his failure to select, the mayor shall select, one designee from those set forth above to serve as temporary municipal judge to exercise all powers of the municipal judge until the return of the municipal judge. Compensation of alternate municipal judges shall be fixed by the city commission. (Prior code § 5-2-4)

#### **2.60.050 Benefits and salary.**

The municipal judge elected after March 14, 2022, shall receive a salary of forty thousand dollars per year. (Ord. 560 (part), 2018: Ord. 413, 1998: Ord. 409, 1997: Ord. 356, 1988: Ord. 313 (part), 1982: Ord. 275, 1978; prior code § 5-2-5)

#### **2.60.060 Duties.**

In addition to those duties set forth in the laws of the state, the municipal judge shall hold court at least four hours each day. The municipal judge shall be available at all reasonable hours for the issuance of warrants and summons. The municipal judge shall also:

- A. Receive fines and issue receipts therefor;
- B. Receive and issue receipts for bail bonds;
- C. Enter on the court docket the time for appearance of all persons coming before the court and notify the arresting officer to be present;
- D. Notify the city attorney of such violations and complaints as may be designated by the city attorney;
- E. Keep a record of all alleged violations of traffic ordinances together with a notation of final disposition. Such record shall indicate all types of offenses and the total of each type, and shall be maintained for a period of three years from the date of case closure;
- F. Keep a record of all traffic accidents, warnings, arrests, convictions and complaints reported for each driver which shall be filed alphabetically under the name of the driver. Such record shall be available for use and information of the police department and city attorney's office;
- G. Submit reports to the city manager, in, the manner and form prescribed by him of all citations issued and arrests made

for violations of all ordinances, all fines collected and the final disposition of current status of every case. Such reports shall show all types of violations and the totals of each type. All receipts of fines shall be rendered promptly to the city clerk.

(Ord. 572, 2019: Ord. 313 (part), 1982; prior code § 5-2-7)

**2.60.070 Recordkeeping.**

The municipal judge shall keep or cause to be kept a record of every traffic complaint, uniform traffic citation and other form of traffic charge filed in his court and every official action and disposition of the charge by his court. Within ten days after disposition of every charge of violating the traffic code of the city, the municipal judge shall upon forms furnished by the commissioner of motor vehicles prepare, certify as correct, and forward to the State Department of Motor Vehicles an abstract of the record. A report need not be made of any conviction involving illegal parking or standing of a vehicle except when a uniform traffic citation is used. When the uniform traffic citation is issued, the form of the abstract on the back of the officers first copy containing the above information shall be used. The failure or refusal of the municipal judge to comply with the provisions of this section is misconduct in office and ground for removal. (Prior code § 5-2-6)

**CITY OF LOVINGTON**  
**COMMISSION STAFF SUMMARY FORM**

MEETING DATE: 2/12/2024



Item Type: Information

SUBJECT: Discussion of Proposed MOU & Lease Agreement between City and Chamber of Commerce-David Miranda  
DEPARTMENT: City Managers Office  
SUBMITTED BY:  
DATE SUBMITTED: 1/26/2024

**COMPREHENSIVE PLAN IMPLEMENTATION:**

**STAFF SUMMARY:**

The City and Chamber would enter into a 5-year lease of their current space at the Denton Building at 100 W. Central. The Chamber wishes to make some renovations to their space.

**FISCAL IMPACT:**

**RECOMMENDATION:**

**CITY OF LOVINGTON**  
COMMISSION STAFF SUMMARY FORM

MEETING DATE: 2/12/2024



Item Type: Other Action

SUBJECT: Discussion of Paramedic Program Agreement Between Nor-Lea and LFD/EMS-David Shaw  
DEPARTMENT: City Managers Office  
SUBMITTED BY: David Miranda  
DATE SUBMITTED: 2/5/2024

**COMPREHENSIVE PLAN IMPLEMENTATION:**

**STAFF SUMMARY:**

David Shaw will present the Agreement to provide funding for EMS Technicians.

**FISCAL IMPACT:**

**RECOMMENDATION:**

**CITY OF LOVINGTON**  
COMMISSION STAFF SUMMARY FORM

MEETING DATE: 2/12/2024



Item Type:

SUBJECT: Discussion of North Love (Runnels) Ballpark-Scott Boldt  
DEPARTMENT: City Managers Office  
SUBMITTED BY: David Miranda  
DATE SUBMITTED: 2/5/2024

***COMPREHENSIVE PLAN IMPLEMENTATION:***

***STAFF SUMMARY:***

Commissioner Boldt would like to discuss the agreement with the Lovington Schools for the City's use of the Runnels Complex that is owned by the Lovington Schools.

***FISCAL IMPACT:***

***RECOMMENDATION:***

**CITY OF LOVINGTON**  
**COMMISSION STAFF SUMMARY FORM**

MEETING DATE: 2/12/2024



Item Type: Resolution

SUBJECT: Resolution 2024-009 Adopting The Lea County Hazard Mitigation Plan  
DEPARTMENT: Planning and Zoning  
SUBMITTED BY: Crystal R Ball, CFM, CZO  
DATE SUBMITTED: 1/22/2024

**COMPREHENSIVE PLAN IMPLEMENTATION:**

**STAFF SUMMARY:**

Staff has been working with Lea County Environmental and all Lea County jurisdictions to complete the Lea County Hazard Mitigation Plan for over two years. This plan demonstrates progress and reflects current conditions, help increase public awareness and education, maintain grant eligibility for participating jurisdictions, Maintain compliance with State and Federal legislative requirements for local hazard mitigation plans.

**FISCAL IMPACT:**

**RECOMMENDATION:**

Approve the Lea County Hazard Mitigation Plan

**ATTACHMENTS:**

Description	Type
Resolution 2024-009	Cover Memo
Hazard Plan	Cover Memo

**RESOLUTION OF THE CITY OF LOVINGTON  
LEA COUNTY, NEW MEXICO**

**RESOLUTION NO. 2024-009**

**RESOLUTION APPROVING THE LEA COUNTY HAZARD MITIGATION PLAN**

**WHEREAS**, the Lea County All Hazards Mitigation Plan Community Planning Team, comprises of members representing Lea County, City of Lovington, the City of Hobbs, the City of Eunice, the City of Jal, the Town of Tatum and various other Federal, State and private agencies, have prepared an All-Hazards Mitigation Plan identifying the natural hazards faced by Lea County and participating communities; and FEMA has approved the submitted plan; and

**WHEREAS**, Pursuant to the Federal Emergency Management Agency (FEMA), effective November 1, 2004, a mitigation plan needs to be approved by FEMA and the State of New Mexico for any community that wishes to obtain funding from Robert T Stafford Disaster Relief and Emergency Assistance Act ( Hazards Mitigation Grant Program, Pre-Disaster Mitigation Program, and Flood Mitigation Assistance Program) to reduce potential damages; and

**WHEREAS**, the Hazards Mitigation Plan has identified a comprehensive range of mitigation action that address the following hazards; dam failure, drought, expansive soils, extreme floods, severe storms, tornados, wildfire, and winter storms; and

**NOW, THEREFORE, BE IT RESOLVED** by the Lovington City Commission that the Lea County Hazard Mitigation Plan is hereby approved and adopted.

PASSED, APPROVED, AND ADOPTED by the governing body at this meeting the 12<sup>th</sup> day of February 2024.

City of Lovington New Mexico

\_\_\_\_\_  
Howard Roberts, Mayor

ATTEST:

\_\_\_\_\_  
Shannon Lester, City Clerk



# Lea County Hazard Mitigation Plan

Prepared by:  
Lea County Hazard Mitigation Planning Committee  
*With Professional Planning Assistance from*  
**AECOM**





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## SECTION 1: INTRODUCTION

This section provides a general introduction to the Lea County Hazard Mitigation Plan. It consists of the following five subsections:

- ◆ 1.1 Background
- ◆ 1.2 Purpose
- ◆ 1.3 Scope
- ◆ 1.4 Authority
- ◆ 1.5 Summary of Plan Contents

### 1.1 Background

Natural hazards, such as winter storms, floods, and tornadoes, are a part of the world around us. Their occurrence is natural and inevitable, and there is little we can do to control their force and intensity. We must consider these hazards to be legitimate and significant threats to human life, safety, and property.

While the threat from hazardous events may never be fully eliminated, there is much we can do to lessen their potential impact upon our communities and our citizens. By minimizing the impact of hazards upon our built environment, we can prevent such events from resulting in disasters. The concept and practice of reducing risks to people and property from known hazards is referred to as *hazard mitigation*.



#### **FEMA Definition of Hazard Mitigation:**

“Any sustained action taken to reduce or eliminate the long-term risk to human life and property from hazards.”

Hazard mitigation techniques include both structural measures (such as strengthening or protecting buildings and infrastructure from the destructive forces of potential hazards) and non-structural measures (such as the adoption of sound land use policies and the creation of public awareness programs). It is widely accepted that the most effective mitigation measures are implemented at the local government level, where decisions on the regulation and control of development are ultimately made. A comprehensive mitigation approach addresses hazard vulnerabilities that exist today and soon. Therefore, it is essential that projected patterns of future development are evaluated and considered in terms of how that growth will increase or decrease a community’s overall hazard vulnerability.

A key component in the formulation of a comprehensive approach to hazard mitigation is to develop, adopt, and update a local hazard mitigation plan. A hazard mitigation plan establishes broad community vision and guiding principles for reducing hazard risk, and further proposes specific mitigation actions to eliminate or reduce identified vulnerabilities.

The Lea County Hazard Mitigation Plan plans to document the region’s sustained efforts to incorporate hazard mitigation principles and practices into routine government activities and functions, since the last plan approval in 2007. At its core, the Plan recommends specific actions to minimize hazard vulnerability and protect residents from losses to those hazards that pose the greatest risk. These mitigation actions go beyond simply recommending structural solutions to reduce existing vulnerability, such as elevation, retrofitting, and acquisition projects. Local policies on community growth and development, incentives for natural resource protection, and public awareness and outreach activities

are examples of other actions considered to reduce the region's vulnerability to identified hazards. The Plan remains a living document, with implementation and evaluation procedures established to help achieve meaningful objectives and successful outcomes over time.

### 1.1.1 The Disaster Mitigation Act and the Flood Insurance Reform Act

To reduce the Nation's mounting natural disaster losses, the U.S. Congress passed the Disaster Mitigation Act of 2000 (Disaster Mitigation Act 2000) to amend the Robert T. Stafford Disaster Relief and Emergency Assistance Act. Section 322 of DMA 2000 emphasizes the need for state, local and Tribal government entities to closely coordinate on mitigation planning activities and makes the development of a hazard mitigation plan a specific eligibility requirement for any local or Tribal government applying for federal mitigation grant funds. These funds include the Hazard Mitigation Grant Program (HMGP) and the Building Resilient Infrastructure and Communities (BRIC) program, both of which are administered by the Federal Emergency Management Agency (FEMA) under the Department of Homeland Security. Communities with an adopted and federally approved hazard mitigation plan thereby become pre-positioned and more apt to receive available mitigation funds before and after the next disaster strikes.

Additionally, the Flood Insurance Reform Act of 2004 (P.L. 108-264) created two new grant programs, Severe Repetitive Loss (SRL) and Repetitive Flood Claim (RFC), and modified the existing Flood Mitigation Assistance (FMA) program. One of the requirements of this Act is that a FEMA-approved Hazard Mitigation Plan is now required if communities wish to be eligible for these FEMA mitigation programs. However, as of early 2014, these programs have been folded into a single Flood Mitigation Assistance (FMA) program.

This change was brought on by new, major federal flood insurance legislation that was passed in 2012 under the Biggert-Waters Flood Insurance Reform Act (P.L. 112-141). This act made several changes to the way the National Flood Insurance Program is to be run, including raises in rates to reflect true flood risk and changes in how Flood Insurance Rate Map (FIRM) updates impact policyholders. The Biggert-Waters Act further emphasizes Congress' focus on mitigating vulnerable structures.

The Lea County Hazard Mitigation Plan has been prepared in coordination with FEMA Region VI and the New Mexico Department of Homeland Security and Emergency Management (NMDHSEM) to ensure that the Plan meets all applicable FEMA and state requirements for hazard mitigation plans. A *Local Mitigation Plan Review Tool*, found in Appendix B provides a summary of federal and state minimum standards and notes the location where each requirement is met within the Plan.

## 1.2 Purpose

The purpose of the Lea County Hazard Mitigation Plan is to:

- Complete update of existing Plan to demonstrate progress and reflect current conditions
- Increase public awareness and education
- Maintain grant eligibility for participating jurisdictions
- Maintain compliance with state and federal legislative requirements for local hazard mitigation plans

## 1.3 Scope

The focus of the Lea County Hazard Mitigation Plan is on those hazards determined to be "high" or "moderate" risks to the Lea County Region, as determined through a detailed hazard risk assessment. Other hazards that pose a "low" or "negligible" risk will continue to be evaluated during future updates to the Plan, but they may not be fully addressed until they are determined to be of high or moderate

risk. This enables the participating counties and municipalities to prioritize mitigation actions based on those hazards which are understood to present the greatest risk to lives and property.

The geographic scope (i.e., the planning area) for the Plan update includes Lea County as well as the incorporated jurisdictions. **Table 1-1** indicates the participating jurisdictions.

**Table 1-1: Participating Jurisdictions in the Lea County Hazard Mitigation Plan**

Lea County	
City of Eunice	City of Lovington
City of Hobbs	Town of Tatum
City of Jal	

### 1.4 Authority

The Lea County Hazard Mitigation Plan update has been developed in accordance with current state and federal rules and regulations governing local mitigation plans and has been adopted by the county and local jurisdiction in accordance with standard local procedures. Copies of the adoption resolutions for each participating jurisdiction are provided in Appendix A. The Plan shall be routinely monitored and revised to maintain compliance with the following provisions, rules, and legislation:

- 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 Final Rule published in the Federal Register, at 44 CFR (Code of Federal Regulations) Part 201 (201.6 for local mitigation planning requirements)
- Flood Insurance Reform Act of 2004 (P.L. 108-264) and Biggert-Waters Flood Insurance Reform Act of 2012 (P.L. 112-141)

### 1.5 Summary of Plan Contents

The contents of this Plan are designed and organized to be as reader-friendly and functional as possible. While significant background information is included on the processes used and studies completed (i.e., risk assessment, capability assessment), this information is separated from the more meaningful planning outcomes or actions (i.e., mitigation strategy, mitigation action plan).

Section 2, **Planning Process** provides a complete narrative description of the process used to prepare the Plan. This includes the identification of participants on the planning team and describes how the public and other stakeholders were involved. It also includes a detailed summary of each of the key meetings held, along with any associated outcomes.

The **Community Profile**, located in Section 3, provides a general overview of the Lea County region, including prevalent geographic, demographic, and economic characteristics. In addition, building characteristics and land use patterns are discussed. This baseline information provides a snapshot of the planning area and helps local officials recognize those social, environmental, and economic factors that play a role in determining the region's vulnerability to hazards.

The Risk Assessment is presented in two sections: Section 4, **Hazard Identification**; Section 5, **Hazard Profiles**. Together, these sections serve to identify, analyze, and assess hazards that pose a threat to the Lea County Region. The risk assessment also attempts to define any hazard risks that may uniquely or exclusively affect specific areas of the Lea County Region.

The Risk Assessment begins by identifying hazards that threaten the region. Next, detailed profiles are established for each hazard, building on available historical data from past hazard occurrences, spatial extent, and probability of future occurrence. This section culminates in a hazard risk ranking based on conclusions regarding the frequency of occurrence, spatial extent, and potential impact highlighted in each of the hazard profiles. In essence, the information generated through the risk assessment serves a critical function as the participating jurisdictions in the Lea County Region seek to determine the most appropriate mitigation actions to pursue and implement—enabling them to prioritize and focus their efforts on those hazards of greatest concern and those structures or planning areas facing the greatest risk(s).

The **Capability Assessment**, found in Section 6, provides a comprehensive examination of the Lea County Region’s capacity to implement meaningful mitigation strategies and identifies opportunities to increase and enhance that capacity. Specific capabilities addressed in this section include planning and regulatory capability, staff and organizational (administrative) capability, technical capability, fiscal capability, and political capability. Information was obtained using a detailed survey questionnaire and an inventory and analysis of existing plans, ordinances, and relevant documents. The purpose of this assessment is to identify any existing gaps, weaknesses, or conflicts in programs or activities that may hinder mitigation efforts and to identify those activities that should be built upon in establishing a successful and sustainable local hazard mitigation program.

The **Community Profile**, **Risk Assessment**, and **Capability Assessment** collectively serve as a basis for determining the goals for the Lea County Hazard Mitigation Plan, each contributing to the development, adoption, and implementation of a meaningful and manageable **Mitigation Strategy** that is based on accurate background information.

The **Mitigation Strategy**, found in Section 7, consists of broad goal statements as well as an analysis of hazard mitigation techniques for the jurisdictions participating in the Lea County Hazard Mitigation Plan to consider in reducing hazard vulnerabilities. The strategy provides the foundation for a detailed **Mitigation Action Plan**, found in Section 8, which links specific mitigation actions for each county and municipal department or agency to locally assigned implementation mechanisms and target completion dates. Together, these sections are designed to make the Plan both strategic, through the identification of long-term goals, and functional, through the identification of immediate and short-term actions that will guide day-to-day decision-making and project implementation.

In addition to the identification and prioritization of mitigation projects, emphasis is placed on the use of program and policy alternatives to help make the Lea County Region less vulnerable to the damaging forces of hazards while improving the economic, social, and environmental health of the community. The concept of multi-objective planning was emphasized throughout the planning process, particularly in identifying ways to link, where possible, hazard mitigation policies and programs with complimentary community goals related to disaster recovery, housing, economic development, recreational opportunities, transportation improvements, environmental quality, land development, and public health and safety.

**Plan Maintenance**, found in Section 9, includes the measures that the jurisdiction participating in the Lea County plan will take to ensure the Plan’s continuous long-term implementation. The procedures also include the way the Plan will be regularly evaluated and updated to remain a current and meaningful planning document.

## SECTION 2: PLANNING PROCESS

This section of the Plan describes the mitigation planning process undertaken by the County in preparing the Hazard Mitigation Plan. It consists of the following seven subsections:

- ◆ 2.1 Overview of Hazard Mitigation Planning
- ◆ 2.2 Preparing the Plan
- ◆ 2.3 The Lea County Hazard Mitigation Planning Team
- ◆ 2.4 Community Meetings and Workshops
- ◆ 2.5 Involving the Public
- ◆ 2.6 Involving the Stakeholders
- ◆ 2.7 Documentation of Plan Progress

### 44 CFR Requirement

**44 CFR Part 201.6(c)(1):** The plan shall include documentation of the planning process used to develop the plan, including how it was prepared, who was involved in the process and how the public was involved.

### 2.1 Overview of Hazard Mitigation Planning

Local hazard mitigation planning is the process of organizing community resources, identifying and assessing hazard risks, and determining how to best minimize or manage those risks. This process results in a hazard mitigation plan that identifies specific mitigation actions, each designed to achieve short-term planning objectives and a long-term community vision. To ensure the functionality of each mitigation action, responsibility is assigned to a specific individual, department, or agency along with a schedule for its implementation. Plan maintenance procedures are established for the routine monitoring of implementation progress, as well as the evaluation and enhancement of the mitigation plan itself. These plan maintenance procedures ensure that the Plan remains a current, dynamic, and effective planning document over time.

Mitigation planning offers many benefits, including:

- Saving lives and property.
- Saving money.
- Speeding recovery following disasters.
- Reducing future vulnerability through wise development and post-disaster recovery and reconstruction.
- Expediting the receipt of pre-disaster and post-disaster grant funding; and
- Demonstrating a firm commitment to improving community health and safety.

Typically, mitigation planning is described as having the potential to produce long-term and recurring benefits by breaking the repetitive cycle of disaster loss. A core assumption of hazard mitigation is that pre-disaster investments will significantly reduce the demand for post-disaster assistance by lessening the need for emergency response, repair, recovery, and reconstruction. Furthermore, mitigation practices will enable residents, businesses, and industries to re-establish themselves in the wake of a disaster, getting the community economy back on track more quickly and with less interruption.

The benefits of mitigation planning go beyond solely reducing hazard vulnerability. Measures such as the acquisition or regulation of land in known hazard areas can help achieve multiple community goals,

such as preserving open space, maintaining environmental health, and enhancing recreational opportunities. Thus, it is vitally important that any local mitigation planning process be integrated with other concurrent local planning efforts, and any proposed mitigation strategies must consider other existing community goals or initiatives that will help complement or hinder their future implementation.

### 2.2 Preparing the Plan

Hazard mitigation plans are required by FEMA (Federal Emergency Management Agency) to be updated every five years for the jurisdictions covered under them to remain eligible for federal mitigation and public assistance funding. To help prepare the Lea County Hazard Mitigation Plan, AECOM was hired as a consultant to provide professional mitigation planning services. Per the contractual scope of work, the consultant team followed the mitigation planning process recommended by FEMA. The Local Hazard Mitigation Plan Review Tool, found in Appendix B, provides a detailed summary of FEMA's current minimum standards of acceptability for compliance with DMA 2000 and notes the location where each requirement is met within this Plan. These standards are based upon FEMA's Interim Final Rule as published in the Federal Register on February 26, 2002, in Part 201 of the Code of Federal Regulations (CFR). The planning team used FEMA's Local Mitigation Planning Handbook (released 2016) for reference as they completed the Plan.

The process used to prepare this Plan included six major steps completed over eighteen months beginning in June 2021. These steps include public outreach, risk assessment, capability assessment, mitigation strategy, plan maintenance and plan adoption. The kick-off meeting was held in-person and virtually on 6/22/2021. The second planning meeting was held virtually on 9/1/2021. The third planning meeting was held in-person and virtually on 8/10/2022. The first public meeting and opportunity for public input was held in-person and virtually on 8/10/2022. The second opportunity for public input was from 1/3/2023 to 1/6/2023. The public was engaged again via various Lea County Face Book platforms to review the Plan, offer input, and participate in the public survey. The Plan has been available for public review online and in-person since August 2022. (ENVIRONMENTAL SERVICES (leacounty.net)) The third opportunity for public input will occur at the plan adoption// (to be entered after APA from FEMA) meeting along with a final planning meeting. Each of these planning steps -resulted in critical work products and outcomes that collectively make up the Plan.

### 2.3 The Lea County Hazard Mitigation Planning Team

To guide the development of this Plan update, Lea County created the Lea County Hazard Mitigation Planning Committee (HMPC). This committee represented a community-based planning team made up of representatives from various county departments and municipalities and other key stakeholders identified to serve as critical partners in the planning process.

Beginning in June 2021, the planning team members engaged in regular discussions and local meetings and planning workshops to discuss and complete tasks associated with preparing the Plan. This working group coordinated all aspects of plan preparation and provided valuable input to the process. In addition to regular meetings, team members routinely communicated and were kept informed through an email distribution list.

Specifically, the tasks assigned to the Lea County Hazard Mitigation Planning Committee included:

- Participate in hazard mitigation planning committee meetings and workshops.
- Provide the best available data as required for the Risk Assessment portion of the Plan.
- Complete the Local Capability Assessment Survey and provide copies of any mitigation or hazard-related documents for review and incorporation into the Plan.

## Planning Process

- Support the development of the Mitigation Strategy portion of the Plan, including the design and adoption of a regional vision statement, regional mitigation goal statements, and regional mitigation actions.
- Review the existing mitigation actions from the previous plan, provide an update on those previously adopted mitigation actions, and propose new mitigation actions for their department/agency for incorporation into the updated Plan.
- Review and provide timely comments on all study findings and draft plan deliverables; and
- Support the adoption of the Lea County Hazard Mitigation Plan.

**Table 2.1** Table 2.1 lists the HMPC members responsible for participating in the Plan's development.

Stakeholders representing local and regional agencies involved in hazard mitigation activities and agencies that have the authority to regulate development are identified with an asterisk (\*). Committee members are listed by jurisdiction in **Table 2.1** for ease of organizing and presenting the information, but it should be noted that the committee worked extremely well as one regional unit thinking beyond traditional jurisdictional boundaries to focus on the mitigation planning issues and tasks at hand.

**Table 2.1: Members of the Lea County Hazard Mitigation Planning Committee**

Jurisdiction or Agency	Representative	Department, Title, or Role
<b>Lea County</b>		
Lea County	Cassie Corley	Environmental Supervisor
	Lorenzo Velasquez*	Environmental Director
Eunice	Casey Arcidez	Police Chief
	Eddy Fabela	Fire Chief
Hobbs	Manny Gomez*	City Manager
	John Ortolano	Police Chief
	August Fons	Deputy Police Chief
	Barry Young	Deputy Fire Chief
Jal	Van Myrick	Public Works Director
	Pat Walter	Fire Chief
	Whitney Moody	EMS (Emergency Medical Services) Coordinator
Lovington	Crystal Ball	Planning & Zoning Coordinator
	Terrance Lizardo	Fire Chief
Tatum	Marilyn Burns*	Mayor
	Cheryl LeCrone	Assistant Clerk
<b>Other Stakeholders</b>		
State	Sarah Gerlitz	NMDHSEM Mitigation Specialist
FEMA	Lisa Hecker	Emergency Management Specialist
<b>Project Consultants</b>		

## Planning Process

Jurisdiction or Agency	Representative	Department, Title, or Role
AECOM	David Turk	Project Director
	Eric Nemeth	Project Manager
	Brent Edwards	Mitigation Planner

### Multi-jurisdictional Participation

The Lea County Hazard Mitigation Plan includes Lea County and 5 incorporated municipalities (Eunice, Hobbs, Jal, Lovington, Tatum). To satisfy multi-jurisdictional participation requirements, the county and its participating jurisdictions were required to perform the following tasks:

- Participate in mitigation planning meetings and workshops.
- Complete the Local Capability Assessment Survey.
- Provide an update on previously adopted mitigation actions.
- Review drafts of the Lea County Hazard Mitigation Plan.
- Adopt their updated local Mitigation Action Plan.

The jurisdictions of Tatum and Eunice were also involved in the planning process through verbal and electronic email communications when unable to participate in-person due to a world-wide pandemic. Each jurisdiction participated in the planning process and each jurisdiction has developed and adopted a local Mitigation Action Plan unique to that jurisdiction which will be updated over time per the Plan Maintenance Procedures described in Section 9.

### 2.4 Community Meetings and Workshops

The preparation of this Plan required a series of meetings and workshops for facilitating discussion, gaining consensus, and initiating data collection efforts with local government staff, community officials, and other identified stakeholders. More importantly, the meetings and workshops prompted continuous input and feedback from relevant participants throughout the drafting stages of the Plan.

In many cases, routine discussions and additional meetings were held by local staff to accomplish planning tasks specific to their department or agency. For example, completing the Local Capability Assessment Survey or seeking approval of specific mitigation actions for their department or agency to undertake and include in their Mitigation Action Plan. Public meetings are summarized in subsection 2.5.

All meeting notes, agendas, sign-in sheets, and presentation slides can be found in Appendix F.

### 2.5 Involving the Public

<b>44 CFR Requirement</b>
<b>44 CFR Part 201.6(b)(1):</b> The planning process shall include an opportunity for the public to comment on the plan during the drafting stage and prior to plan approval.

A key component of any mitigation planning process is public participation. Individual citizen and community-based input provides the entire planning team with a greater understanding of local concerns and increases the likelihood of successfully implementing mitigation actions by developing community “buy-in” from those directly affected by the decisions of public officials. As citizens become more involved in decisions that affect their safety, they are more likely to gain a greater appreciation of the hazards present in their community and take the steps necessary to reduce their impact. Public

## Planning Process

awareness is a key component of any community's overall mitigation strategy aimed at making a home, neighborhood, school, business, or entire planning area safer from the potential effects of hazards.

Public involvement in the update of the Lea County Hazard Mitigation Plan was/will be sought using various methods including open public meetings, a project information fact sheet with contact information, a public participation survey, and by making copies of draft Plan documents available for public review on county websites and at government offices. The public meeting will be held at a distinct period during the planning process: upon completion of a final draft Plan, but prior to official plan approval and adoption. This public meeting was held at a central location to the planning area to ensure that citizens from each participating jurisdiction had reasonable access to the opportunity to participate in-person in the planning process. The public participation survey was made available online, through web links forwarded via email and Facebook. No members of the public attended the August 2022 meeting; thus, no input was documented.

### Public Opportunities for Input

The first public opportunity for input was held in-person and virtually on August 10, 2022. The second public opportunity for public input was from 1/3/2023 to 1/6/2023. The public was engaged again via various Lea County Face Book platforms to review the Plan, offer input, and participate in the public survey. The Plan has been available for public review online and in-person since August 2022. (ENVIRONMENTAL SERVICES (leacounty.net) As of 01/13/2023 some public input has been received. Public comments received ranged from HAZMAT (Hazardous material) concerns, fire station staffing, cost of flood drainage systems, creation of CERT (Community Emergency Response Team) and gestures of gratitude to the county for their transparency and inclusion in the process. The planning team used these comments to guide prioritization of future mitigation projects and refining the public outreach strategy.

The third opportunity for public input will be held when the plan is approved by FEMA. The County will open the floor to any comments or concerns at the County Commission meeting for adoption. This allows the public to provide any input on the plan before the plan is formally adopted by the County. Along with the County, the public can comment on the participating jurisdictions city and town council meetings when they formally adopt the plan.

### 2.5.1 Public Participation Survey

The Lea County Hazard Mitigation Public Participation Survey was made available in March 2022 and will remain available until December 2022. During this time, 10 surveys were completed. The survey results are in a summary report with charts and figures in Appendix E.

The results of the survey were presented to members of the HMPC at HMPC Meeting #2 so that public opinion could be factored into final changes and additions to each jurisdiction's Mitigation Action Plan.

## 2.6 Involving the Stakeholders

### 44 CFR Requirement

**44 CFR Part 201.6(b)(2):** The planning process shall include an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia, and other non-profit interests to be involved in the planning process.

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## Planning Process

The Lea County Hazard Mitigation Planning Committee included various stakeholders beyond the representatives from each participating jurisdiction. All stakeholders were invited to participate via email. These included representatives from the Department of Health and New Mexico Department of Homeland Security and Emergency Management. Input from additional stakeholders, including neighboring communities who were invited via social media advertisements, word of mouth at LEPC (Local Emergency Planning Committee) meetings, and emails, was welcomed through the open public meeting and online survey. Local and regional agencies that were provided an opportunity to be involved included: New Mexico Department of Health- Emergency Preparedness Specialist, New Mexico Department of Homeland Security and Emergency Management- Local Preparedness Coordinator and Mitigation Officer, Chaves County- Emergency Manager, Eddy County- Emergency Manager, FEMA- Emergency Management Specialist, Extension Agricultural Agent, Lea County College of Agricultural, Consumer, and Environmental Sciences New Mexico State University. If any additional stakeholders representing other agencies and organizations participated in the Public Participation Survey, that information is unknown due to the anonymous nature of the survey.

Below is a listing of stakeholders additionally engaged at the end of the drafting of the plan:

Local and regional agencies involved in hazard mitigation activities such as Lea County Public Works- Corey Needham and Lea County GIS- Samantha Stroud. Agencies that have the authority to regulate development such as Planning & Zoning- Bruce Reid. Neighboring communities such as Chaves County OEM- Karen Sanders and Eddy County OEM- Jennifer Armendariz. Representatives of major employers that sustain community lifelines such as Covenant Hospital- Shannon Bush and Nor Lea Hospital- Melva Lujan. Representatives of nonprofit organizations, including community-based organizations, that work directly with and/or provide support to underserved communities and socially vulnerable populations, such as United Way- Becca Titus and New Mexico State University.

## 2.7 Documentation of Plan Progress

Progress in hazard mitigation planning for the participating jurisdictions in Lea County is documented in this plan update. In addition, community capability continues to improve with the implementation of new plans, policies, and programs that help to promote hazard mitigation at the local level. The current state of local capabilities for the participating jurisdictions is captured in Section 6: Capability Assessment. The participating jurisdictions continue to demonstrate their commitment to hazard mitigation and hazard mitigation planning and have proven this by reconvening the HMPC to update the plan and by continuing to involve the public in the hazard mitigation planning process.

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## SECTION 3: PLANNING AREA PROFILE

This section of the Plan provides a general overview of the County. It consists of the following three subsections:

- ◆ 3.1 Geography and the Environment
- ◆ 3.2 Population and Demographics
- ◆ 3.3 Housing, Infrastructure, and Land Use

### 3.1 Geography and the Environment

Lea County is in the southeastern corner of New Mexico along the Texas border. The County is bordered on the East and South by Texas, to the west by Eddy and Chaves Counties, and the North by Roosevelt County.

The geography of the area is classified as slopes that are mostly flat to flat. Hobbs is located near an area called caprock by residents. This caprock is one of the largest unfractured geologic plates in the continental United States. The area makes up part of a larger geological feature known as the Permian Basin. The land around Hobbs slopes to the southeast. Relief in the form of parallel ridges occurring at 1-mile intervals is characteristic of the area. These ridges form the basin divides that, in turn, define the streams or draws. There are no well-defined flow paths, but low-lying areas show soil and vegetation changes.

Lea County is home to several manufacturing sectors including food production, a National Enrichment Facility, and energy-related projects that take advantage of the county's business-friendly climate that offers incentives and solutions.

Manufacturing also includes much of the oil and gas industry such as refining practices, nonmetal mineral manufacturing, metal production, and machinery production.

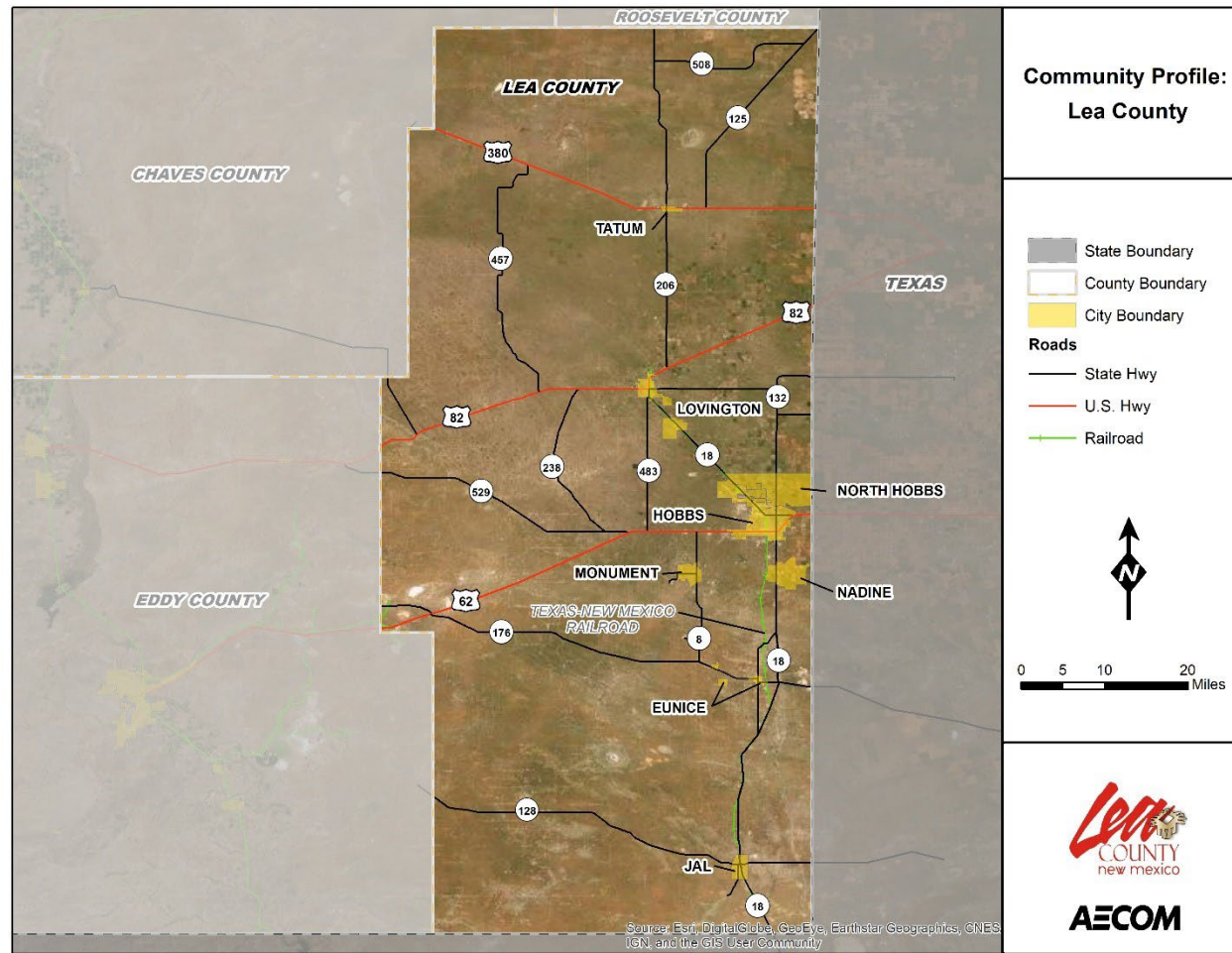
With the continued growth in Lea County, both in the oil and gas industry as well as the diversification of new and other industries, increased demand for transportation services have spurred the influx and expansion of transportation and warehousing companies within the region.

There are many opportunities for transportation companies, from water and sand hauling to local and national delivery to a myriad of oil and gas-related transportation needs.

Since the founding of the first few towns in Lea County, agriculture has been a focus and has endured through the many years. Lea County is home to several dairies, ranches, and farms dedicated to raising crops for both local and national distribution. As agriculture sees a renaissance in the US (United States), Lea County is dedicated to growing and expanding its offerings to new and existing businesses.

Some of the crops grown in Lea County include cotton, alfalfa, hay, peanuts, and corn, among others.

Figure 3-1: Lea County Community Profile





### 3.2 Population and Demographics

The U.S (United States). The Census Bureau estimates as of 2020, Lea County has a total of 74,455 people (about the seating capacity of the Los Angeles Memorial Coliseum) residing within its boundaries. The table below details the participating jurisdictions' demographic information. Population counts from the U.S. Census Bureau for 2020 for each of the participating jurisdiction are presented in **Table 3-2**.

**Table 3-1: Population Counts for Participating Jurisdictions**

Jurisdiction	2020 Census Population
Lea County	74,455
City of Eunice	3,082
City of Hobbs	41,786
City of Jal	2,234
City of Lovington	12,050
Town of Tatum	697

Based on the 2020 Census estimates, the median age of residents in the county is 33.6 years. The racial characteristics of the county are presented in **Table 3-3**. Whites make up much of the population in the region accounting for over two-thirds of the population.

**Table 3-2: Demographics of Participating Jurisdictions**

Jurisdiction	White, Percent (2020)	Black or African American, Percent (2020)	American Indian or Alaska Native, Percent (2020)	Asian, Percent (2020)	Native Hawaiian or Other Pacific Islander, Percent (2020)	Two or More Races, percent (2020)	Persons of Hispanic Origin, Percent (2020)*
Lea County	88.0%	4.1%	1.0%	0.0%	0.0%	2.2%	58.5%
City of Eunice	99.6%	0.0%	0.0%	0.0%	0.0%	0.0%	54.4%
City of Hobbs	84.9%	5.9%	1.2%	1.0%	0.1%	2.4%	60.1%
City of Jal	97.8%	1.5%	0.6%	0.0%	0.0%	0.0%	57.6%
City of Lovington	87.1%	2.8%	0.0%	0.0%	0.0%	1.2%	72.2%
Town of Tatum	93.7%	2.9%	0.3%	0.0%	0.0%	0.4%	41.3%

\*Hispanics may be of any race, so also are included in applicable race categories

Source: United States Census Bureau

**Eunice** is home to URENCO USA's National Enrichment Facility, Eunice's business friendly environment is creating a resurgence of new business development with the addition of Outlaw Grill, H&R Block, JP Stone

Bank, Palenteria Azteca, a pharmacy and Parker Energy to the Community. The largest employers in Eunice: URENCO USA (United States of America), B&H Construction, Chaparral Service Inc, Chevron USA INC, Eunice Well Servicing Company, Family Dollar Store, Transwestern Pipeline Company, and Eunice Municipal Schools. Recreation opportunities in Eunice: city parks, youth center, Senior Center, Golf Courses, City Pool and Waterslides, community events, and many more.

**Hobbs** is the largest city in southeastern NM and serves as the retail center for an area encompassing some 125,000 residents within a 55-mile radius. Companies located in Hobbs include International Isotopes Inc, Joule Unlimited, Bloom Retail Center, United Airlines, Lowes, Hibbet Sports, Intercontinental Potash Corporation, Nova Mud, and a host of retail and accommodation facilities. The largest employers in Hobbs are Hobbs Municipal Schools, Lea Regional Medical Center, Halliburton, Walmart, RWI Construction, Zia Racetrack and Blackgold Casino, Geo Group and New Mexico Junior College. Recreational opportunities in Hobbs: gaming, horse racing, drag racing, sky diving, parks, pools with waterslides, dog park, golf courses, walking trails, fishing, Western Heritage Museum, community theater, teen center, community events, concerts, rodeo, etc.

**Jal** sits in the southeast corner of Lea County. Jal continues to grow and has attracted several businesses to the area including SunEdison, Eldorado Biofuels, fuel station, Family Dollar Store, and a new restaurant. The largest employers in Jal are Jal Public Schools, Merryman Construction Co, Quatro Trucking, Panther Energy, Southern Union Gas Services, Lake Quality Trucking, Fulco Trucking, and Family Dollar. Recreational opportunities in Jal: Woolworth Library, Jal Lake, Cowboy Days Festival, Jalorama, golf courses, and other community celebrations.

**Lovington** is the county seat. The largest employers in Lovington are Lovington Public Schools, Nor Lea Hospital, Ferguson Construction Company, Lea County Electric Cooperative, Gandy Oilfield Services, Gilbert Lease Services, Caprock Pipe and Supply, LEACO, and Navajo Refinery. Recreational opportunities in Lovington: Chaparral Park, Lea County Fair, pool and waterslides, fishing, skate-park, Lea County Museum, historic Lea Theater, teen center, rodeo, "World's Greatest Lizard Race," electric light parade and other community events.

**Tatum** is conveniently located at the crossroads of New Mexico highways 380 and 206. The largest employers in Tatum are Tatum Public Schools, Gourmet Seed International, Cogburn Pipe and Supply Inc., Conoco Phillips Pipeline Company, and Gandy Corporation. Recreational opportunities in Tatum include community library, camping, hiking, parks, community events and it is near many national parks.

### 3.3 Housing, Infrastructure, and Land Use

#### 3.3.1 Housing

According to the 2020 U.S. Census, there are 27,950 housing units in the County, the majority of which are single family homes or mobile homes. Housing information for Lea County and the participating jurisdictions is presented in **Table 3-4**. As shown in the table, the City of Hobs has a slightly higher percentage of seasonal housing units compared to the other communities.

**Table 3-3: Housing Characteristics of Participating Jurisdictions**

Jurisdiction	Housing Units
Lea County	27,950

City of Eunice	1,268
City of Hobbs	23,405
City of Jal	1,009
City of Lovington	3,488
Town of Tatum	391

### 3.3.2 Infrastructure

#### Utilities

Electrical power in the County is provided by one public utility, several electricity cooperatives, and several municipalities. Central Valley Electric Cooperative serves major portions in the region. There are 10 power plants in Lea County, New Mexico, serving a population of 69,505 people in an area of 4,390 square miles (about the area of Connecticut). There is 1 power plant per 6,950 people, and 1 power plant per 438 square miles (about the area of San Antonio, Texas).

In New Mexico, Lea County is ranked 8th of 33 counties in Power Plants per capita, and 5th of 33 counties in power plants per square mile.

Water and sewer service is provided by many of the municipalities as well in the region. Although some areas do require the use of wells and septic systems, much of the region is covered by either municipal or county providers.

#### Community Facilities

There are several public buildings and community facilities located throughout the region. According to the data collected for the vulnerability assessment, there are 25 fire stations, 9 police stations, and 38 schools located within the study area. There are 3 medical care facilities located in the region. There are also numerous parks and recreational areas in the region.

#### Land Use

As shown in **Figure 3-1** Above, there are five incorporated municipalities located throughout the study area which make up most of the area's population. The incorporated areas are also where many businesses, commercial uses, and institutional uses are located. Land uses in the balance of the study area consist of residential and commercial development in the municipal areas with agricultural and recreational uses in the more rural unincorporated areas. Agriculture remains one of the largest land uses in the region and comprises a mix of cropland and pastureland dispersed across the region.

## SECTION 4: HAZARD IDENTIFICATION

This section describes how the planning team identified the hazards to be included in this plan. It consists of the following four subsections:

- ◆ 4.1 Overview
- ◆ 4.2 Description of Full Range of Hazards
- ◆ 4.3 Disaster Declarations
- ◆ 4.4 Hazard Evaluation

### 44 CFR Requirement

**44 CFR Part 201.6(c)(2)(i):** The risk assessment shall include a description of the type, location and extent of all-natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.

### 4.1 Overview

Lea County is vulnerable to a wide range of natural and human-caused hazards that threaten life and property. Current FEMA regulations and guidance under the Disaster Mitigation Act of 2000 (DMA 2000) require, at a minimum, an evaluation of a full range of natural hazards. An evaluation of human-caused hazards (i.e., technological hazards, terrorism, etc.) is encouraged, though not required, for plan approval. The County has included a comprehensive assessment of both types of hazards.

Upon a review of the full range of natural hazards suggested under FEMA planning guidance, the participating counties in the Lea County have identified several hazards that are to be addressed in its Hazard Mitigation Plan. These hazards were identified through an extensive process that utilized input from the Lea County Hazard Mitigation Planning Team members, research of past disaster declarations in the participating counties, and review of the New Mexico State Hazard Mitigation Plan. Readily available information from reputable sources (such as federal and state agencies) was also evaluated to supplement information from these key sources.

**Table 4-1** lists the full range of natural hazards initially identified for inclusion in the Plan and provides a brief description for each. This table includes 24 individual hazards. Some of these hazards are interrelated or cascading, but for preliminary hazard identification purposes these individual hazards are broken out separately.

Next, **Table 4-2** lists the presidential disaster declarations in Lea County.

Next, **Table 4-3** documents the evaluation process used for determining which of the initially identified hazards are considered significant enough to warrant further evaluation in the risk assessment. For each hazard considered, the table indicates whether the hazard was identified as a significant hazard to be further assessed, how this determination was made, and why this determination was made. The table works to summarize not only those hazards that *were* identified (and why) but also those that *were not* identified (and why not). Hazard events not identified for inclusion at this time may be addressed during future evaluations and updates of the risk assessment if deemed necessary by the Lea County Hazard Mitigation Planning Team during the plan update process.

Lastly, **Table 4-4** provides a summary of the hazard identification and evaluation process noting that 10 of the 24 initially identified hazards are considered significant enough for further evaluation through this Plan's risk assessment.

## 4.2 Description of Full Range of Hazards

**Table 4-1: Descriptions of the Full Range of Initially Identified Hazards**

Hazard	Description
<b>ATMOSPHERIC HAZARDS</b>	
<b>Avalanche</b>	A rapid fall or slide of a large mass of snow down a mountainside.
<b>Drought</b>	A prolonged period of less than normal precipitation such that the lack of water causes a serious hydrologic imbalance. Common effects of drought include crop failure, water supply shortages, and fish and wildlife mortality. Elevated temperatures, high winds, and low humidity can worsen drought conditions and make areas more susceptible to wildfire. Human demands and actions could hasten or mitigate drought-related impacts on local communities.
<b>Hailstorm</b>	Any storm that produces hailstones that fall to the ground; usually used when the amount or size of the hail is considered significant. Hail is formed when updrafts in thunderstorms carry raindrops into parts of the atmosphere where the temperatures are below freezing.
<b>Extreme Heat</b>	A heat wave may occur when temperatures hover 10 degrees or more above the average elevated temperature for the region and last for several weeks. Humid or muggy conditions, which add to the discomfort of elevated temperatures, occur when a “dome” of high atmospheric pressure traps hazy, damp air near the ground. Excessively dry and hot conditions can provoke dust storms and low visibility. A heat wave combined with a drought can be dangerous and have severe economic consequences for a community.
<b>Hurricane and Tropical Storm</b>	Hurricanes and tropical storms are classified as cyclones and defined as any closed circulation developing around a low-pressure center in which the winds rotate counterclockwise in the Northern Hemisphere (or clockwise in the Southern Hemisphere) and with a diameter averaging 10 to 30 miles across. When maximum sustained winds reach or exceed 39 miles per hour, the system is designated a tropical storm, given a name, and is closely monitored by the National Hurricane Center. When sustained winds reach or exceed 74 miles per hour the storm is deemed a hurricane. The primary damaging forces associated with these storms are high-level sustained winds, heavy precipitation, and tornadoes. Coastal areas are also vulnerable to the additional forces of storm surge, wind-driven waves and tidal flooding which can be more destructive than cyclone wind. Most hurricanes and tropical storms form in the Atlantic Ocean, Caribbean Sea and Gulf of Mexico during the official Atlantic hurricane season, which extends from June through November.
<b>Lightning</b>	Lightning is a discharge of electrical energy resulting from the buildup of positive and negative charges within a thunderstorm, creating a “bolt” when the buildup of charges becomes strong enough. This flash of light usually occurs within the clouds or between the clouds and the ground. A bolt of lightning can reach temperatures approaching 50,000 degrees Fahrenheit. Lightning rapidly heats the sky as it flashes, but the surrounding air cools following the bolt. This rapid heating and cooling of the surrounding air causes thunder. On average, 73 people are killed each year by lightning strikes in the United States.
<b>Nor’easter</b>	Like hurricanes, nor’easters are ocean storms capable of causing substantial damage to coastal areas in the Eastern United States due to their associated high winds and heavy surf. Nor’easters are named for the winds that blow in from the northeast and drive the storm up the East Coast along the Gulf Stream, a band of warm water that lies off the Atlantic coast. They are caused by the jet stream’s interaction with horizontal temperature gradients and occur during the fall and winter months when moisture and

Hazard	Description
	chilly air are plentiful. Nor'easters are known for dumping heavy amounts of rain and snow, producing hurricane-force winds, and creating high surf that causes severe beach erosion and coastal flooding.
<b>Tornado</b>	A tornado is a violently rotating column of air that has contact with the ground and is often visible as a funnel cloud. Its vortex rotates cyclonically with wind speeds ranging from as low as 40 mph to as high as 300 mph. 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. The destruction caused by tornadoes ranges from light to catastrophic depending on the storm's intensity, size, and duration.
<b>Severe Thunderstorm</b>	Thunderstorms are caused by air masses of varying temperatures meeting in the atmosphere. Rapidly rising warm moist air fuels the formation of thunderstorms. Thunderstorms may occur singularly, in lines, or in clusters. They can move through an area very quickly or linger for several hours. Thunderstorms may result in hail, tornadoes, or straight-line winds. Windstorms pose a threat to lives, property, and vital utilities primarily because of flying debris and can down trees and power lines.
<b>Winter Storm</b>	Winter storms may include snow, sleet, freezing rain, or a mix of these wintry forms of precipitation. Blizzards, the most dangerous of all winter storms, combine low temperatures, heavy snowfall, and winds of at least 35 miles per hour, reducing visibility to only a few yards. Ice storms occur when moisture falls and freezes immediately upon impact on trees, power lines, communication towers, structures, roads, and other hard surfaces. Winter storms and ice storms can down trees, cause widespread power outages, damage property, and cause fatalities and injuries to human life.
<b>GEOLOGIC HAZARDS</b>	
<b>Earthquake</b>	A sudden, rapid shaking of the Earth caused by the breaking and shifting of rock beneath the surface. This movement forces the gradual building and accumulation of energy. Eventually, strain becomes so great that the energy is abruptly released, causing the shaking at the earth's surface which we know as an earthquake. 90 percent of all earthquakes occur at the boundaries where plates meet, although it is possible for earthquakes to occur entirely within plates. Earthquakes can affect hundreds of thousands of square miles; cause damage to property measured in the tens of billions of dollars; result in loss of life and injury to hundreds of thousands of persons; and disrupt the social and economic functioning of the affected area.
<b>Expansive Soils</b>	Soils that will exhibit some degree of volume change with variations in moisture conditions. The most important properties affecting degree of volume change in a soil are clay mineralogy and the aqueous environment. Expansive soils will exhibit expansion caused by the intake of water and, conversely, will exhibit contraction when moisture is removed by drying. They often appear sticky when wet and are characterized by surface cracks when dry. Expansive soil becomes a problem when structures are built upon them without taking proper design precautions into account regarding soil type. Cracking in walls and floors can be minor or can be severe enough for the home to be structurally unsafe.
<b>Landslide</b>	The movements of a mass of rock, debris, or earth down a slope when the force of gravity pulling down the slope exceeds the strength of the earth materials that comprise to hold it in place. Slopes greater than 10 degrees are more likely to slide, as are slopes where the height from the top of the slope to its toe is greater than 40 feet. Slopes are also more likely to fail if vegetative cover is low and/or soil water content is high.

Hazard	Description
<b>Land Subsidence</b>	The gradual settling or sudden sinking of the Earth's surface due to the subsurface movement of earth materials. Causes of land subsidence include groundwater pump age, aquifer system compaction, drainage of organic soils, underground mining, hydro compaction, natural compaction, sinkholes, and thawing permafrost.
<b>Tsunami</b>	A series of waves generated by an undersea disturbance such as an earthquake. The speed of a tsunami traveling away from its source can range from up to 500 miles per hour in deep water to 20 to 30 miles per hour in shallower areas near coastlines. Tsunamis differ from regular ocean waves in that their currents travel from the water surface all the way down to the sea floor. Wave amplitudes in deep water are typically less than one meter; they are often barely detectable to the human eye. However, as they approach shore, they slow in shallower water, causing the waves from behind to effectively "pile up," and wave heights to increase dramatically. As opposed to typical waves which crash at the shoreline, tsunamis bring with them a continuously flowing 'wall of water' with the potential to cause devastating damage in coastal areas located immediately along the shore.
<b>Volcano</b>	A mountain that opens downward to a reservoir of molten rock below the surface of the earth. While most mountains are created by forces pushing up the earth from below, volcanoes are different in that they are built up over time by an accumulation of their own eruptive products: lava, ash flows, and airborne ash and dust. Volcanoes erupt when pressure from gases and the molten rock beneath becomes strong enough to cause an explosion.
<b>HYDROLOGIC HAZARDS</b>	
<b>Dam and Levee Failure</b>	Dam failure is the collapse, breach, or other failure of a dam structure resulting in downstream flooding. In the event of a dam failure, the energy of the water stored behind even a small dam can cause loss of life and severe property damage if development exists downstream of the dam. Dam failure can result from natural events, human-induced events, or a combination of the two. The most common cause of dam failure is prolonged rainfall that produces flooding. Failures due to other natural events such as hurricanes, earthquakes or landslides are significant because there is little or no advance warning.
<b>Erosion</b>	Erosion is the gradual breakdown and movement of land due to both physical and chemical processes of water, wind, and general meteorological conditions. Natural, or geologic, erosion has occurred since the Earth's formation and continues at a slow and uniform rate each year.
<b>Flood</b>	The accumulation of water within a water body results in the overflow of excess water onto adjacent lands, usually floodplains. A floodplain is land beside the channel of a river, stream ocean, lake or other watercourse or water body susceptible to flooding. Most floods fall into the following three categories: riverine flooding, coastal flooding, or shallow flooding (where shallow flooding refers to sheet flow, ponding, and urban drainage).

Hazard	Description
<b>Storm Surge</b>	A storm surge is a large dome of water often 50 to 100 miles wide and rising anywhere from four to five feet in a Category 1 hurricane up to more than 30 feet in a Category 5 storm. Storm surge heights and associated waves are also dependent upon the shape of the offshore continental shelf (narrow or wide) and the depth of the ocean bottom (bathymetry). A narrow shelf, or one that drops steeply from the shoreline and subsequently produces deep water close to the shoreline, tends to produce a lower surge but higher and more powerful storm waves. Storm surge arrives ahead of a storm's actual landfall and the more intense the hurricane is, the sooner the surge arrives. Storm surge can be devastating to coastal regions, causing severe beach erosion and property damage along the immediate coast. Further, water rise caused by storm surge can be very rapid, posing a serious threat to those who have not yet evacuated flood-prone areas.
<b>OTHER HAZARDS</b>	
<b>Hazardous Materials Incident</b>	Hazardous material (HAZMAT) incidents can apply to fixed facilities as well as mobile, transportation-related accidents in the air, by rail, on the nation's highways and on the water. HAZMAT incidents consist of solid, liquid and/or gaseous contaminants that are released from fixed or mobile containers, whether by accident or by design as with an intentional terrorist attack. A HAZMAT incident can last hours to days, while some chemicals can be corrosive or otherwise damaging over longer periods of time. In addition to the primary release, explosions and/or fires can result from a release, and contaminants can be extended beyond the initial area by persons, vehicles, water, wind, and wildlife as well.
<b>Terror Threat</b>	Terrorism is defined by FEMA as, "the use of force or violence against persons or property in violation of the criminal laws of the United States for purposes of intimidation, coercion, or ransom." Terrorist acts may include assassinations, kidnappings, hijackings, bomb scares and bombings, cyberattacks (computer-based), and the use of chemical, biological, nuclear, and radiological weapons.
<b>Wildfire</b>	An uncontrolled fire burning in an area of vegetative fuels such as grasslands, brush, or woodlands. Heavier fuels with high continuity, steep slopes, elevated temperatures, low humidity, low rainfall, and high winds all work to increase risk for people and property located within wildfire hazard areas or along the urban/wildland interface. Wildfires are part of the natural management of forest ecosystems, but most are 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. The second most common cause for wildfire is lightning.
<b>Nuclear Accident</b>	The International Atomic Energy Agency (IAEA) classifies a nuclear incident or accident as an event that leads to significant consequences for people, the environment, or the facility. Typically, an incident's effects are the release of radioactive substances that can cause damaging impacts. The IAEA uses a scale known as the International Nuclear and Radiological Event Scale (INES) to classify the level of impact that an event has on people and the environment.

### 4.3 Disaster Declarations

Disaster declarations provide initial insight into the hazards that may impact the Lea County planning area. Since 1998, three presidential disaster declarations have been reported in the County.

**Table 4-2: Presidential Disaster Declarations for Lea County**

Year	Disaster Number	Description
1998	1202	Severe Winter Storm
2013	4152	Flooding, Severe Storms
2019	4529	COVID-19 Pandemic

#### 4.4 Hazard Evaluation

The table at the bottom of this page lists the hazards profiled in the State of New Mexico Hazard Mitigation Plan. Based on the research described above, 9 of these hazards pose a risk to at least one jurisdiction in Lea County. These are: dam failure, droughts, expansive soils, extreme heat, floods, severe storms, tornadoes, wildfires, and winter storms. Hail, high winds, and lightning are included under the severe storms profile.

Details for each hazard and their potential impact on Lea County are in Section 5. The following tables compare the identified and profiled hazards as they relate to their previous plan and to the state's plan. Any hazards which affect the State of New Mexico or were profiled in the previous plan, but do not affect any of Lea County's jurisdictions are listed as 'excluded.'

**Table 4-3: State of New Mexico Hazards**

State of New Mexico Hazards		
Hazard	Identification Process	Risk Identified
Dam Failure	Local input, dam location, and topography	Potential risk of dam failure in state, no predicted risk in Lea County.
Drought	Local input, past hazard events	Reoccurring droughts.
Earthquake	Excluded	Not at risk of seismic activity.
Expansive Soils	Soil Analysis	Limited risk in state, no predicted risk in Lea County.
Extreme Heat	Local input, past hazard events	History of fatalities.
Flood	Local input, past hazard events, FEMA NFHL	Extensive 100- and 500-year floodplains throughout the county.
Hail	Local input, past hazard events	History of county wide hail damage.
High Wind	Local input, past hazard events	History of region wide storm damage.
Lightning	Local input, past hazard events	Limited historical incidents.
Land Subsidence	Excluded	No risk to Lea County.
Landslides	Excluded	No risk to Lea County.
Severe Storms	Local input, past hazard events	History of region wide storm damage.
Tornado	Local input, past hazard events	Limited past tornado activity.

State of New Mexico Hazards		
Hazard	Identification Process	Risk Identified
Volcano	Excluded	No reasonable or predicted risk.
Wildfire	Local input, WUI analysis, New Mexico State Forestry Division	Extensive vegetation and historical wildfire activity.
Winter Storm	Local input, past hazard events	The region is not prepared for long term exposure. Causes service infrastructure damage.

**Table 4-4: Lea County Hazards**

Lea County Hazards		
Hazard	Identification Process	Risk Identified
Drought	Local input, past hazard events	Reoccurring droughts.
Extreme Heat	Local input, past hazard events	History of fatalities.
Flood	Local input, past hazard events, FEMA NFHL	Extensive 100- and 500-year floodplains throughout the county.
Severe Storms (including Hail, High Winds and Lightning)	Local input, past hazard events	History of region wide storm damage.
Tornado	Local input, past hazard events	Limited past tornado activity.
Wildfire	Local input, WUI analysis, New Mexico State Forestry Division	Extensive vegetation and historical wildfire activity.
Winter Storm	Local input, past hazard events	The region is not prepared for long term exposure. Causes service infrastructure damage.

# SECTION 5: HAZARD PROFILES

This section includes detailed hazard profiles for each hazard identified in the previous section (Hazard Identification) as significant enough for further evaluation in the Lea County Hazard Mitigation Plan. It contains the following subsections:

- ◆ 5.1 Overview
- ◆ 5.2 Study Area
- ◆ 5.3 Drought
- ◆ 5.4 Extreme Heat
- ◆ 5.5 Severe Storms
- ◆ 5.6 Tornado
- ◆ 5.7 Winter Storm
- ◆ 5.8 Flood
- ◆ 5.9 Wildfire
- ◆ 5.10 Conclusions on Hazard Risk
- ◆ 5.11 Final Determinations

**44 CFR Requirement**

**44 CFR Part 201.6(c)(2)(i):** The risk assessment shall include a description of the type, location and extent of all-natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events

## 5.1 Overview

This section includes detailed hazard profiles for each hazard identified in the previous section (Hazard Identification) as significant enough for further evaluation in Lea County hazard risk assessment by creating a hazard profile. Each hazard profile includes a general description of the hazard, its location and extent, notable historical occurrences, and the probability of future occurrences. Each profile also includes specific items noted by members of the Hazard Mitigation Planning Team (Planning Team) as it relates to unique historical or anecdotal hazard information for Lea County, or a participating municipality within them.

The following hazards were identified:

- **Atmospheric**
  - Drought
  - Extreme Heat
  - Severe Storms
  - Tornado
  - Winter Storm
- **Hydrologic**
  - Flood
- **Other**
  - Wildfire

## 5.2 Study Area

**Table 5-1** provides a summary table of the participating jurisdictions within the county. In addition, **Figure 5-1** provides a base map, for reference, of Lea County.

Table 5-1: Participating Jurisdictions in the Lea County Hazard Mitigation Plan

Lea County	
City of Eunice	Town of Lovington
Town of Hobbs	City of Tatum
Town of Jal	

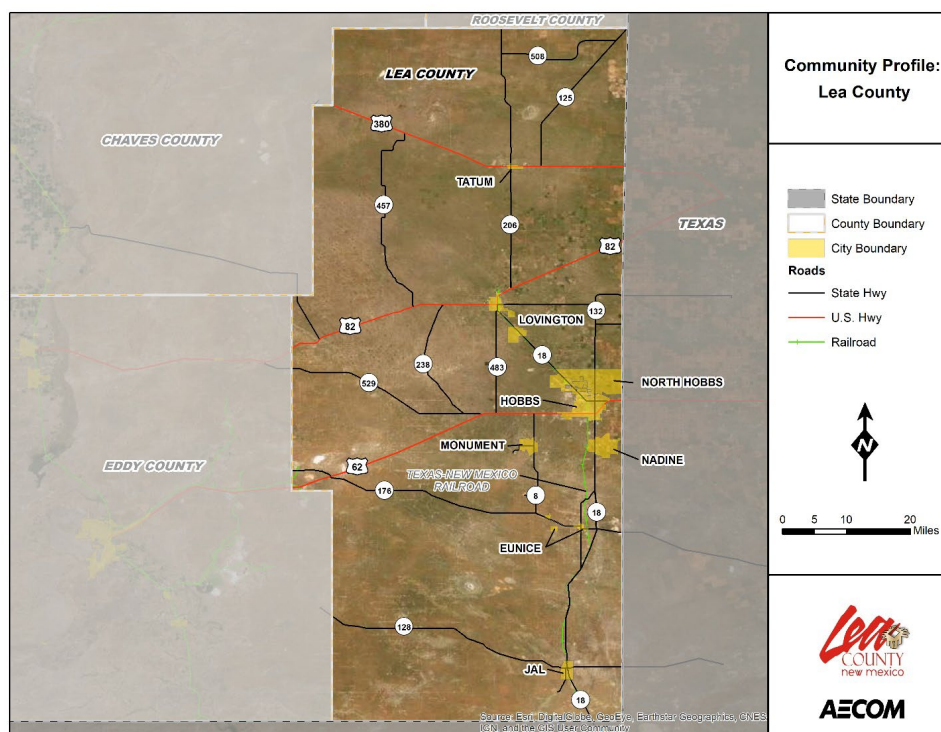


Figure 5-1: Lea County Base Map

## ATMOSPHERIC HAZARDS

### 5.3 Drought

#### 5.3.1 Background

Drought is a normal part of all climatic regions, including areas with high and low average rainfall. Drought is the consequence of a natural reduction in the amount of precipitation expected over an extended period, usually a season or more in length. Elevated temperatures, high winds, and low humidity can exacerbate drought conditions. In addition, human actions and demands for water resources can hasten drought-related impacts. Drought may also lead to more severe wildfires.

## Hazard Profiles

Droughts are typically classified into one of four types: 1) meteorological, 2) hydrologic, 3) agricultural, or 4) socioeconomic. **Table 5-2** presents definitions for these types of droughts.

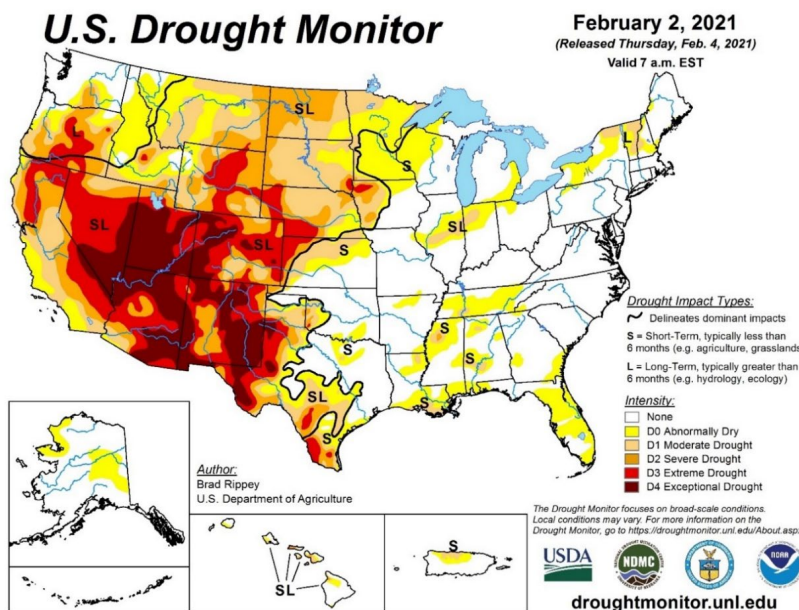
**Table 5-2: Drought Classification Definitions**

<b>Meteorological Drought</b>	The degree of dryness or departure of actual precipitation from an expected average or normal amount based on monthly, seasonal, or annual time scales.
<b>Hydrologic Drought</b>	The effects of precipitation shortfalls on stream flows and reservoir, lake, and groundwater levels.
<b>Agricultural Drought</b>	Soil moisture deficiencies relative to water demands of plant life, usually crops.
<b>Socioeconomic Drought</b>	The effect of demands for water exceeding the supply because of a weather-related supply shortfall.

Source: Multi-Hazard Identification and Risk Assessment: A Cornerstone of the National Mitigation Strategy, FEMA

Droughts are slow-onset hazards, but, over time, can have very damaging effects to crops, municipal water supplies, recreational uses, and wildlife. If drought conditions extend over several years, the direct and indirect economic impact can be significant.

The Palmer Drought Severity Index (PDSI) is based on observed drought conditions and ranges from -0.5 (incipient dry spell) to -4.0 (extreme drought). Evident in **Figure 5-2**, the Palmer Drought Severity Index Summary Map for the United States, drought affects most areas of the United States, but is more severe in the Western United States.



Source: National Drought Mitigation Center

**Figure 5-2: Palmer Drought Severity Index Summary Map for the United States**

### 5.3.2 Location and Spatial Extent

Drought typically covers a large area and cannot be confined to any geographic or political boundaries. According to the Palmer Drought Severity Index (**Figure 5-2**), Central to Southwestern New Mexico has an elevated risk drought hazard. However, local areas may experience much more severe and/or frequent drought events than what is represented on the Palmer Drought Severity Index map. Furthermore, it is assumed that Lea County would be uniformly exposed to drought of varying severities, making the spatial extent potentially widespread. It is also notable that drought conditions typically do not cause severe damage to the built environment.

The United States Drought Monitor reports data on drought conditions from 2000 to 2021. It classifies drought by County on a scale of D0 to D4 where:

D0: Abnormally Dry.	
D1: Moderate Drought.	
D2: Severe Drought.	
D3: Extreme Drought.	
D4: Exceptional Drought.	
Category	Impact
D0	Pastures are dry; mild crop stress is noted; irrigation increases
	Lawns are brown
D1	Crop stress increases
	Hay production is reduced, producers feed hay to cattle early
	Wildfire danger is higher than the seasonal normal
	Increased signs of wildlife; trees and landscape are drought stressed
	Streamflow is reduced; lake and reservoir levels decline
	Voluntary water conservation begins
D2	Dryland crop yields are low
	Wildfires are difficult to extinguish
	Swimming areas and boat ramps begin to close
	Voluntary and mandatory water use restrictions are implemented; people are asked to refrain from nonessential water use

## Hazard Profiles

Category	Impact
D3	Hay is scarce, producers are purchasing outside of state; nitrate levels in forage are high
	Outdoor burn bans are implemented; wildfires are widespread
	Landscaping and greenhouse businesses lose revenue
	Aquatic wildlife is dying; fewer trout are stored
	Hydropower generation decreases
	Voluntary conservation is requested even in sufficient water level areas; mandatory restrictions become more severe, and fines are given to violators; stream levels are extremely low
D4	Producers sell cattle; hay shortages and crop loss occur; farmers are stressed
	Daily life is affected for all citizens; people pray for rain; drought education seminars increase
	Epizootic hemorrhagic disease is widespread in deer
	Reservoirs are low; officials are counting the days of remaining water supply; well water is low; residents are hauling water

### 5.3.3 Extent

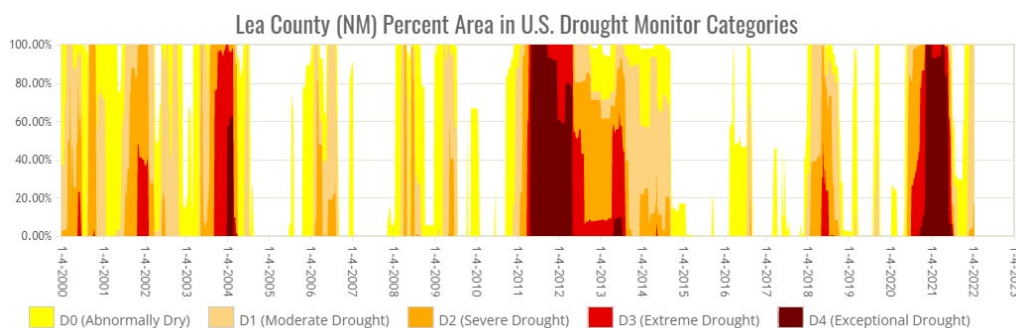
According to Drought Monitor, all of Lea County experienced 21 years' worth of drought occurrences (including exceptional drought) during the last 21 years (2000-2021). Since the last plan update, four exceptional droughts have been recorded (Table 5-3).

Table 5-3: Drought Extent

Location	Number of Years with Drought Occurrences	Number of Years with Exceptional Drought Occurrences
Lea County	21	4

Note that the Drought Monitor also estimates what percentage of the county is in each classification of drought severity. For example, the most severe classification reported may be exceptional, but most of the county may be in a less severe condition. The values in the following chart are for places represented as areas. Data breaking down drought at the jurisdictional level is not accessible. The participating jurisdictions do not anticipate future conditions in the near future (3 to 5 years) that would fall outside these presently established extents and anticipate seeing the entire range of the Palmer drought scale countywide. Though according to New Mexico's Summary of Climate Change Projections report (June 2023) "Researchers project that there is a 50% change of a 21-year drought like the current drought occurring again before the end of the 21st century."

## Hazard Profiles



### 5.3.4 Historical Occurrences

Data from Drought Management Advisory Council and National Climatic Data Center (NCDC) were used to ascertain historical drought events in the County. While the values in the Drought Monitor chart above are for places represented as areas based on percent, the NCDC data below is per occurrence.

According to NCDC (National Climatic Data Center) 14 drought events were reported between 10/01/1989 and 10/31/2021. Note that there may have been more events not represented through NCDC. **Table 5-4** gives a summary of drought experiences in the County as reported through NCDC.

**Table 5-4: Summary of Drought Occurrences**

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
NORTHERN LEA COUNTY	05/01/1996	Drought	0	0	0.00K	0.00K
Lea County	04/01/1998	Drought	0	0	0.00K	0.00K
Lea County	05/01/1998	Drought	0	0	0.00K	0.00K
Lea County	06/01/1998	Drought	0	0	0.00K	0.00K
Lea County	07/01/1998	Drought	0	0	0.00K	0.00K
Lea County	08/01/1998	Drought	0	0	0.00K	0.00K
Lea County	09/01/1998	Drought	0	0	0.00K	0.00K
Lea County	10/01/1998	Drought	0	0	0.00K	0.00K
Lea County	11/01/1998	Drought	0	0	0.00K	0.00K
Lea County	12/01/1998	Drought	0	0	0.00K	12.00M
Lea County	01/01/1999	Drought	0	0	0.00K	0.00K
Lea County	02/01/1999	Drought	0	0	0.00K	0.00K
Lea County	03/01/1999	Drought	0	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Death	Injuries	Property Damage	Crop Damage
Lea County	04/01/1999	Drought	0	0	0.00K	0.00K
Totals:			0	0	0.00K	12.00M

### 5.3.5 Probability of Future Occurrences

The probability of future Drought ([which takes into consideration overall climate change predictions for New Mexico](#)) is shown in the table below, by jurisdiction.

#### Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Unlikely: Less than 1% annual probability
- Possible: Between 1% and 10% annual probability
- Likely: Between 10% and 99% annual probability
- Highly Likely: 100% probability

Jurisdiction	Self-Assessment
Lea County (Unincorporated Area)	Highly Likely
Eunice	Highly Likely
Hobbs	Highly Likely
Jal	Highly Likely
Lovington	Highly Likely
Tatum	Highly Likely

### 5.3.6 Vulnerability and Impact ([Identifying Vulnerable Assets](#))

#### People

Drought can affect people's health and safety. Examples of drought impacts on society include anxiety or depression about economic losses, conflicts when there is not enough water, reduced incomes, fewer recreational activities, higher incidents of heat stroke, and even loss of human life. [All jurisdictions are vulnerable in this respect: overall 11% of the county population \(which based on land use and development trends is expected to remain static\) is considered elderly and could be disproportionately impacted than residents under the age of 65.--According to the National Risk Index Report for Lea County \(Appendix H \)-Social groups in Lea County have a "Very High" susceptibility to the adverse impacts of natural hazards when compared to the rest of the United States, though Lea County has not experienced any issues with recovery after a drought event.](#)

#### First Responders

The overall effect on first responders would be limited when compared to other hazards. Exceptional drought conditions may impact the amount of water immediately available to respond to wildfires.

#### Continuity of Operations

Drought would have minimal impacts on continuity of operations due to the long warning time that would allow for plans to be made to maintain continuity of operations.

## Hazard Profiles

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### Built Environment

Drought can affect water supply for residential, commercial, institutional, industrial, and government-owned areas. Drought can reduce water supply in wells and reservoirs. When drought conditions persist with no relief, local or State governments must often institute water restrictions.

### Economy

Examples of economic impacts include farmers who lose money because drought destroyed their crops or who may have to spend more money to feed and water their animals. Businesses that depend on farming, like companies that make tractors and food, may lose business when drought damages crops or livestock. Extreme drought also can impact local businesses such as landscaping, recreation and tourism, and public utilities. Businesses that sell boats and fishing equipment may not be able to sell some of their goods because drought has dried up lakes and other water sources. This could impact approximately 10% of each jurisdiction's economic stability.

### Natural Environment

Plants and animals depend on water, just as people do. Drought can shrink their food supplies and damage their habitats. Sometimes this damage is only temporary, and other times it is irreversible.

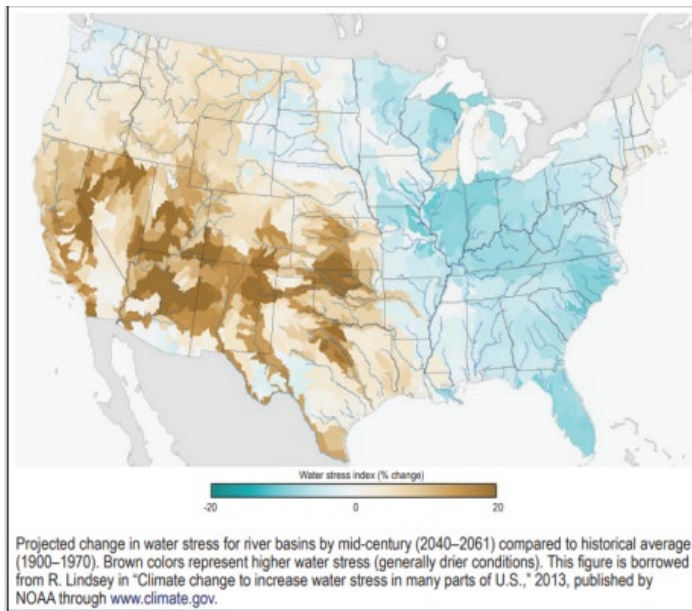
Drought conditions can also provide a substantial increase in wildfire risk. As plants and trees wither and die from a lack of precipitation, increased insect infestations, and diseases—all of which are associated with drought—they become fuel for wildfires. Prolonged periods of drought can equate to more wildfires and more intense wildfires, which affect the economy, the environment, and society in many ways such as by destroying neighborhoods, crops, and habitats.

### Infrastructure & Critical Facilities

Drought does not pose significant risk to Lea County or its participating jurisdictions' infrastructure and critical facilities. During times of drought, water and wastewater services could experience disruptions that would necessitate pump stations be operated by generator especially if some of the original power was supplied by hydropower that has been affected by the drought. A mitigation action has been developed to provide backup power for critical facilities.

### Land Use & Development Trends

Lea County and its participating jurisdictions' predominant growth area is residential housing. [According to New Mexico's Summary of Climate Change Projections report \(June 2023\) "Research suggests that the region \(New Mexico\) will continue to experience more intense and longer drought conditions, fueled by hotter temperatures and a reduction in snowpack due to climate change." Also, "Projected change in water stress throughout the country by the mid-century \(2040-2061\).](#)



Note that water stress is projected to increase across all or nearly all watersheds in New Mexico. Available from <https://www.ncdc.noaa.gov/cag>.

With that said, climate change effects do not currently affect this hazard in this county in the near 3–5-year future. While there is uncertainty in projecting future changes, there is high confidence in understanding the effect of human activities changing the climate in unprecedented ways. Lea County and its participating jurisdictions will make efforts to incorporate new and relevant climate change data as it becomes available in predicting long term future impacts at the local level.

## 5.4 Extreme Heat

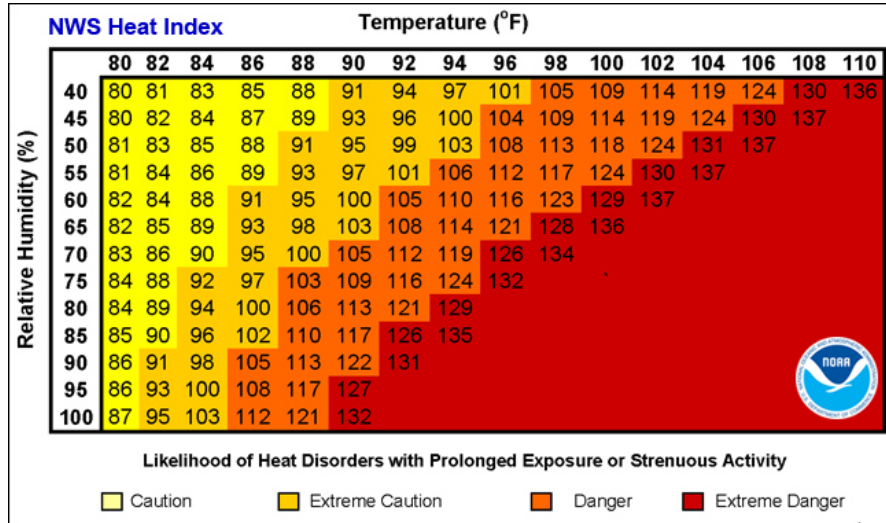
### 5.4.1 Background

Extreme heat, like drought, poses a minor risk to property. However, extreme heat can have devastating effects on health. Extreme heat is often referred to as a "heat wave." According to the National Weather Service, there is no universal definition for a heat wave, but the standard U.S. definition is any event lasting at least three days where temperatures reach ninety degrees Fahrenheit or higher. However, it may also be defined as an event at least three days long where temperatures are ten degrees greater than the normal temperature for the affected area. Heat waves are typically accompanied by humidity but may also be very dry. These conditions can pose serious health threats causing an average of over 600 deaths each summer in the United States.

According to the National Oceanic and Atmospheric Administration, heat is the number one weather-related killer among natural hazards, followed by frigid winter temperatures.<sup>1</sup> The National Weather Service devised the Heat Index as a mechanism to better inform the public of heat dangers. The Heat

## Hazard Profiles

Index Chart, shown in **Figure 5-3**, uses air temperature and humidity to determine the heat index or apparent temperature. **Table 5-5** shows the dangers associated with different heat index temperatures. Some populations, such as the elderly and young, are more susceptible to heat danger than other segments of the population.



Source: National Oceanic and Atmospheric Administration

**Figure 5-3: Heat Index Chart**

**Table 5-5: Heat Disorders Associated with Heat Index Temperature**

Heat Index Temperature (Fahrenheit)	Description of Risks
80°- 90°	Fatigue possible with prolonged exposure and/or physical activity
90°- 105°	Sunstroke, heat cramps, and heat exhaustion possible with prolonged exposure and/or physical activity
105°- 130°	Sunstroke, heat cramps, heat exhaustion and heatstroke possible with prolonged exposure and/or physical activity
130° or higher	Heatstroke or sunstroke is highly likely with continued exposure

Source: National Weather Service; National Oceanic and Atmospheric Administration

In addition, NOAA (National Oceanic and Atmospheric) has seventeen metropolitan areas participating in the Heat HealthWatch/Warning System to better inform and warn the public of heat dangers. A Heat HealthWatch is issued when conditions are favorable for an excessive heat event in the next 12 to 48 hours (about 2 days). A Heat Warning is issued when an excessive heat event is expected in the next 36

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hours (about 1 and a half days). Furthermore, a warning is issued when the conditions are occurring, imminent, or have a high likelihood of occurrence. Urban areas participate in the Heat Health Watch/Warning System because urban areas are at greater risk of heat effects. Stagnant atmospheric conditions trap pollutants, thus adding unhealthy air to excessively hot temperatures. In addition, the “urban heat island effect” can produce significantly higher nighttime temperatures because asphalt and concrete (which store heat longer) gradually release heat at night.

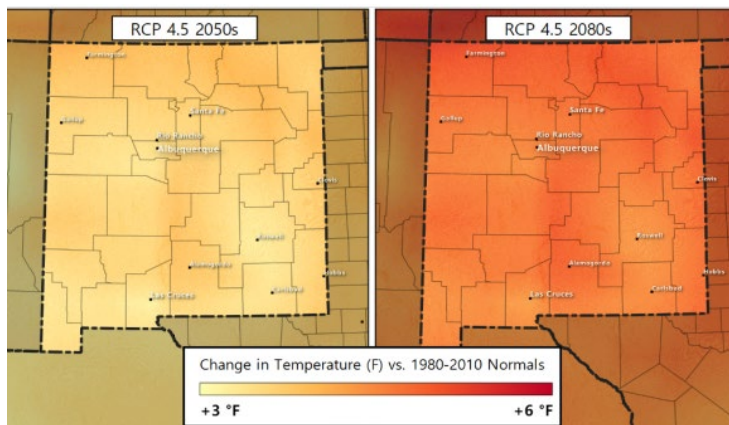
### 5.4.2 Location and Spatial Extent

Excessive heat typically impacts a large area and cannot be confined to any geographic or political boundaries. The entire County is susceptible to extreme heat conditions.

### 5.4.3 Extent

The extent of extreme heat can be defined by the maximum temperature reached. The highest temperature recorded in the County since 1950 is 110 degrees Fahrenheit. The only event narrative captured in the NCDC database is from August 26, 2019. A ridge of high pressure accompanied by very dry air moved into west Texas and southeast New Mexico resulting in record breaking triple digit temperatures. The elevated temperature for the day reached 110 degrees at the Paducah RAWS (Remote Automatic Weather Stations). Note that the National Weather Service did have elevated temperatures for the County listed between 111 and 113 degrees.

According to New Mexico’s Summary of Climate Change Projections report (June 2023), “Climate projections can be analyzed at a variety of scales, and the appropriate scale depends on the climate exposure and the topographical and geographical features of the area. For this project, the State of New Mexico is using two different time periods for future temperature and precipitation projections: mid-century (2041-2060) and late century (2061-2080). The mid-century time period is useful for planning and for most infrastructure design and construction (25 years from now). The late-century time period provides projections that can be used to better understand the magnitude of the challenges facing the State.”



Source: CMIP5 Ensemble Average Change in Temperature (F) for the 2050s and 2080s periods under the RCP 4.5 scenario. Source: Adaptwest CMIP5 Downscaled Bioclimatic Data, (Wang et al. 2016), retrieved at: <https://adaptwest.databasin.org/pages/adaptwest-climatena-cmip5>

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## Hazard Profiles

Data breaking down temperatures for extreme heat at the jurisdictional level is not accessible. The participating jurisdictions do not anticipate future conditions that would fall outside these presently established extents and temperature exceeding the maximum temperature recorded countywide in the near (3-to-5-year future). Zero-reported fatalities from extreme heat have been reported.

According to New Mexico's Summary of Climate Change Projections report (June 2023), "Extreme heat does not affect everyone equally. Historically overburdened populations, those with underlying chronic health conditions, older adults, kids, and outdoor workers are likely to be affected first and worst due to physiological differences and the potential inability to access places to cool off. In the last decade, heat-related deaths in the state have increased tenfold between 2013 and 2021. In 2020 (the last full year with complete data), the Department of Health received reports of 313 heat-related illness hospital visits." Though zero-reported fatalities from extreme heat have been reported in the county.

### 5.4.4 Historical Occurrences

Data from the National Weather Service was used to determine historical extreme heat and heat wave events in the County. Temperature information has been reported since 1950. The recorded maximum and average elevated temperatures for each month can be found below in **Table 5-6**. Table 57 shows the number of days each month where the maximum temperature was 100 degrees or higher.

**Table 5-6: Highest Recorded Temperature in the County**

Temperature	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Record High	83	92	96	104	108	111	111	113	104	101	90	84
Average High	59	63	72	81	88	95	95	95	88	79	67	60

**Table 5-7: Monthly Number of Days Max Temperature >= 100 for the County**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual # of Days
1950	0	0	0	0	0	1	0	3	0	0	0	0	4
1951	0	0	0	0	2	10	5	8	3	0	0	0	28
1952	0	0	0	0	1	6	1	10	1	0	0	0	19
1953	0	0	0	0	5	12	7	5	3	0	0	0	32
1954	0	0	0	0	0	0	4	2	1	0	0	0	7
1955	0	0	0	0	0	6	0	1	0	0	0	0	7
1956	0	0	0	0	0	4	1	0	0	0	0	0	5
1957	0	0	0	0	0	5	1	1	0	0	0	0	7
1958	0	0	0	0	3	6	8	1	0	0	0	0	18
1959	0	0	0	0	0	4	0	2	1	0	0	0	7
1960	0	0	0	0	2	9	3	1	0	0	0	0	15
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	1	0	2	9	0	0	0	0	12

## Hazard Profiles

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual # of Days
1963	0	0	0	0	0	0	11	2	0	0	0	0	13
1964	0	0	0	0	3	11	18	19	1	0	0	0	52
1965	0	0	0	0	0	0	2	0	1	0	0	0	3
1966	0	0	0	0	0	0	5	1	0	0	0	0	6
1967	0	0	0	0	1	2	1	1	0	0	0	0	5
1968	0	0	0	0	0	2	0	0	0	0	0	0	2
1969	0	0	0	0	1	8	7	10	0	0	0	0	26
1970	0	0	0	0	0	5	7	2	0	0	0	0	14
1971	0	0	0	0	0	0	2	0	0	0	0	0	2
1972	0	0	0	0	0	7	1	0	0	0	0	0	8
1973	0	0	0	0	0	4	0	2	0	0	0	0	6
1974	0	0	0	0	2	4	7	2	0	0	0	0	15
1975	0	0	0	0	0	5	0	0	0	0	0	0	5
1976	0	0	0	0	0	1	0	1	0	0	0	0	2
1977	0	0	0	0	2	9	8	15	9	0	0	0	43
1978	0	0	0	0	1	4	2	3	0	0	0	0	10
1979	0	0	0	0	0	2	3	0	0	1	0	0	6
1980	0	0	0	0	0	13	10	2	0	0	0	0	25
1981	0	0	0	0	1	5	14	5	0	0	0	0	25
1982	0	0	0	0	0	2	2	6	0	0	0	0	10
1983	0	0	0	0	0	6	9	7	3	0	0	0	25
1984	0	0	0	0	1	1	0	2	2	0	0	0	6
1985	0	0	0	0	4	0	3	12	1	0	0	0	20
1986	0	0	0	0	2	0	6	4	0	0	0	0	12
1987	0	0	0	0	0	1	3	10	0	0	0	0	14
1988	0	0	0	0	1	3	0	0	0	0	0	0	4
1989	0	0	0	2	8	5	7	3	2	0	0	0	27
1990	0	0	0	0	3	20	0	0	0	0	0	0	23
1991	0	0	0	0	1	2	0	0	0	0	0	0	3
1992	0	0	0	0	0	0	4	0	0	0	0	0	4
1993	0	0	0	0	0	1	3	2	0	0	0	0	6
1994	0	0	0	0	2	14	11	4	0	0	0	0	31

## Hazard Profiles

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual # of Days
1995	0	0	0	0	1	0	7	0	2	0	0	0	10
1996	0	0	0	1	9	6	7	2	0	0	0	0	25
1997	0	0	0	0	0	3	0	4	1	0	0	0	8
1998	0	0	0	0	7	21	18	4	1	0	0	0	51
1999	0	0	0	0	0	4	5	9	0	0	0	0	18
2000	0	0	0	0	9	1	7	0	7	1	0	0	25
2001	0	0	0	0	4	9	16	1	1	0	0	0	31
2002	0	0	0	0	0	3	3	8	0	0	0	0	14
2003	0	0	0	0	6	1	4	10	0	0	0	0	21
2004	0	0	0	0	1	5	3	2	0	0	0	0	11
2005	0	0	0	0	3	3	7	0	2	0	0	0	15
2006	0	0	0	0	5	13	8	1	0	0	0	0	27
2007	0	0	0	0	0	2	0	0	0	0	0	0	2
2008	0	0	0	0	5	13	3	1	0	0	0	0	22
2009	0	0	0	0	4	5	9	2	0	0	0	0	20
2010	0	0	0	0	1	11	0	9	0	0	0	0	21
2011	0	0	0	0	4	21	16	22	2	0	0	0	65
2012	0	0	0	1	4	10	3	12	4	0	0	0	34
2013	0	0	0	0	4	8	4	7	0	0	0	0	23
2014	0	0	0	0	0	7	7	3	3	0	0	0	20
2015	0	0	0	0	0	1	14	14	0	0	0	0	29
2016	0	0	0	0	2	5	19	9	0	0	0	0	35
2017	0	0	0	0	3	14	3	1	3	0	0	0	24
2018	0	0	0	0	12	13	9	2	0	0	0	0	36
2019	0	0	0	0	0	8	9	20	0	0	0	0	37
2020	0	0	0	1	8	7	16	14	1	0	0	0	47
2021	0	0	0	0	0	4	0	1	1	0	0	0	6
2022	M	M	M	M	M	M	M	M	M	M	M	M	M
Mean	0	0	0	0	2	6	5	4	1	0	0	0	18
Max	0	0	0	2	12	21	19	22	9	1	0	0	65
	2021	2021	2021	1989	2018	2011	2016	2011	1977	2000	2021	2021	2011
Min	0	0	0	0	0	0	0	0	0	0	0	0	0

## Hazard Profiles

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual # of Days
	2021	2021	2021	2021	2021	1995	2021	2007	2019	2021	2021	2021	1961

### 5.4.5 Probability of Future Occurrences

The probability of future Extreme Heat [\(which takes into consideration overall climate change predictions for New Mexico\)](#) is shown in the table below, by jurisdiction.

#### Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Unlikely: Less than 1% annual probability
- Possible: Between 1% and 10% annual probability
- Likely: Between 10% and 99% annual probability
- Highly Likely: 100% probability

Jurisdiction	Self-Assessment
Lea County (Unincorporated Area)	Possible
Eunice	Possible
Hobbs	Possible
Jal	Possible
Lovington	Possible
Tatum	Possible

### 5.4.6 Vulnerability and Impact

#### People

Extreme heat can affect people's health and leads to higher incidents of heat stroke, and even loss of human life. Staying hydrated and avoiding strenuous exercise outdoors during extreme heat patterns can prevent adverse health risks. Individuals with underlying health issues or those located in rural areas may be vulnerable due to medical access issues; [overall 11% of the county population is considered elderly and 12% have some sort of disability \(which based on land use and development trends is expected to remain static\) and could be disproportionately impacted than residents under the age of 65 and/or those without a disability. According to the National Risk Index \(NRI\) Report for Lea County. According to the National Risk Index Report for Lea County \(Appendix H\) Social groups in Lea County, NM have a Very High susceptibility to the adverse impacts of natural hazards when compared to the rest of the United States.](#)

#### Built Environment

Updating building codes and landscape best management practices can increase energy efficiency during extreme heat phases. Local governments could provide public drinking fountains, cooling shelters, and swimming pools to keep individuals cooled off.

## Hazard Profiles

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### Economy

All jurisdictions in the County are vulnerable to extreme heat whereas employees are less likely to be productive during extreme heat events. Lower productivity levels are associated with heat exhaustion.

### Agriculture

Livestock are susceptible to heat-related illnesses during bouts of extreme heat. In addition, crop yields may be negatively impacted if extreme heat occurs during key development stages. This could negatively impact approximately 10% of each jurisdiction's economic stability.

### Natural Environment

When trees are replaced with impervious surfaces and materials in urban areas it contributes to the heat island effect. Urban forests (street trees and wooded areas) can mitigate heat islands, reducing local air temperatures by up to 9°Fahrenheit.<sup>1</sup>

### Infrastructure & Critical Facilities

Extreme heat does not pose a significant risk to Lea County or its participating jurisdictions' facilities. Extreme heat hazard could be mitigated by providing generators to minimize disruption to critical facility cooling centers as well as providing back up power to various other critical facilities that may experience brown and black outs due to unprecedented energy consumption during extreme heat events

### Land Use & Development Trends

Lea County and its participating jurisdictions' predominant growth area is residential housing. The effects of climate change currently do not affect the impacts of this hazard. While there is uncertainty in projecting future changes, there is high confidence in understanding the effect of human activities changing the climate in unprecedented ways. Lea County and its participating jurisdictions will make efforts to incorporate new and relevant data as it becomes available in predicting long term future impacts at the local level.

## 5.5 Severe Storms

### 5.5.1 Background

Severe Storms can produce a variety of accompanying hazards including wind hail, and lightning. Although severe storms affect a small area, it is dangerous and may cause substantial property damage.

Three conditions need to occur for a thunderstorm to form. First, it needs moisture to form clouds and rain. Second, it needs unstable air, such as warm air that can rise rapidly (this often referred to as the "engine" of the storm). Third, thunderstorms need a lift, which comes in the form of cold or warm fronts, sea breezes, mountains, or the sun's heat. When these conditions occur simultaneously, air masses of varying temperatures meet, and a thunderstorm is formed. These storm events can occur singularly, in lines, or in clusters. Furthermore, they can move through an area very quickly or linger for several hours.

According to the National Weather Service, more than 100,000 thunderstorms occur each year, though only about 10 percent of these storms are classified as "severe." A severe thunderstorm occurs when

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<sup>1</sup> U.S. Department of Health and Human Services Centers for Disease Control and Prevention. Extreme Heat Can Impact Our Health in Many Ways. Retrieved from: [https://www.cdc.gov/climateandhealth/pubs/EXTREME-HEAT-Final\\_508.pdf](https://www.cdc.gov/climateandhealth/pubs/EXTREME-HEAT-Final_508.pdf)

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the storm produces at least one of these three elements: 1) hail at least one inch in diameter, 2) a tornado, or 3) winds of at least 58 miles per hour.

Thunderstorm events have the capability of producing straight-line winds that can cause severe destruction to communities and threaten the safety of a population. Such wind events, sometimes separate from a thunderstorm event, are common throughout the County. Therefore, high winds are also reported in this section.

Downbursts are also possible with thunderstorm events. Such events are an excessive burst of wind more than 125 miles per hour. They are often misidentified as tornadoes. Downbursts are caused by down drafts from the base of a convective thunderstorm cloud. It occurs when rain-cooled air within the cloud becomes heavier than its surroundings. Thus, air rushes towards the ground in a destructive yet isolated manner. There are two types of downbursts. Downbursts less than 2.5 miles wide, duration less than 5 minutes, and winds up to 168 miles per hour are called “microbursts.” Larger events greater than 2.5 miles at the surface and longer than 5 minutes with winds up to 130 miles per hour are referred to as “macrobursts.” Hailstorms are a potentially damaging outgrowth of severe storms. 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 they develop to a sufficient weight and fall as precipitation. Hail typically takes the form of spheres or irregularly shaped masses greater than 0.75 inches 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. **Table 5-8** shows the TORRO Hailstorm Intensity Scale which is a way of measuring hail severity.

**Table 5-8: TORRO Hailstorm Intensity Scale**

	Intensity Category	Typical Hail Diameter (mm)*	Probable Kinetic Energy, J- m <sup>2</sup>	mm to inch conversion (inches)	Typical Damage Impacts
<b>H0</b>	Hard Hail	5	0-20	0 - 0.2	No damage
<b>H1</b>	Potentially Damaging	5-15	>20	0.2 - 0.6	Slight general damage to plants, crops
<b>H2</b>	Significant	10-20	>100	0.4 - 0.8	Severe damage to fruit, crops, vegetation
<b>H3</b>	Severe	20-30	>300	0.8 - 1.2	Severe damage to fruit and crops, damage to glass and plastic structures, paint and wood scored
<b>H4</b>	Severe	25-40	>500	1.0 - 1.6	Widespread glass damage, vehicle bodywork damage
<b>H5</b>	Destructive	30-50	>800	1.2 - 2.0	Wholesale destruction of glass, damage to tiled roofs, significant risk of injuries
<b>H6</b>	Destructive	40-60		1.6 - 2.4	Bodywork of grounded aircraft dented; brick walls pitted
<b>H7</b>	Destructive	50-75		2.0 - 3.0	Severe roof damage, risk of serious injuries
<b>H8</b>	Destructive	60-90		1.6 - 3.5	(Severest recorded in the British Isles) Severe damage to aircraft bodywork

## Hazard Profiles

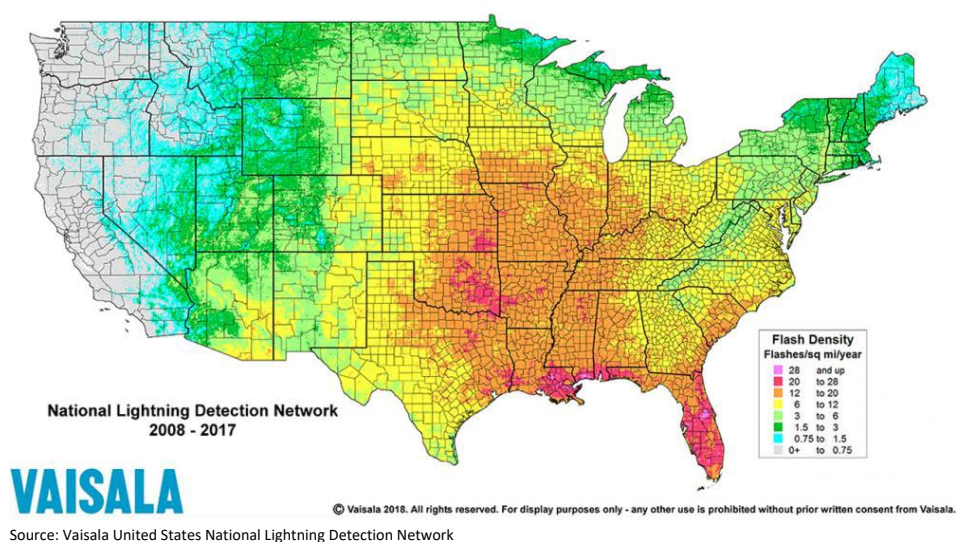
	Intensity Category	Typical Hail Diameter (mm)*	Probable Kinetic Energy, J- m <sup>2</sup>	mm to inch conversion (inches)	Typical Damage Impacts
<b>H9</b>	Super Hailstorms	75-100		3.0 - 3.9	Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open
<b>H10</b>	Super Hailstorms	>100			Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open

Source: <http://www.torro.org.uk/site/hscale.php>

Lightning is a discharge of electrical energy resulting from the buildup of positive and negative charges within a thunderstorm, creating a “bolt” when the buildup of charges becomes strong enough. This flash of light usually occurs within the clouds or between the clouds and the ground. A bolt of lightning can reach temperatures approaching 50,000 degrees Fahrenheit. Lightning rapidly heats the sky as it flashes but the surrounding air cools following the bolt. This rapid heating and cooling of the surrounding air causes thunder which often accompanies lightning strikes. While most often affiliated with severe thunderstorms, lightning may also strike outside of heavy rain and might occur as far as 10 miles away from any rainfall.

Lightning strikes occur in small, localized areas. For example, they may strike a building, electrical transformer, or even a person. According to the National Center for Biotechnology Information, lightning injures an average of 400 people and kills 40 people each year in the United States. Direct lightning strikes also can cause severe damage to buildings, critical facilities, and infrastructure by igniting a fire. Lightning is also responsible for igniting wildfires that can result in widespread damage to property.

**Figure 5-4** shows a lightning flash density map for the years 2008-2017 based upon data provided by Vaisala’s U.S. National Lightning Detection Network (NLDN®).



**Figure 5-4: Lightning Flash Density in the United States**

### 5.5.2 Location and Spatial Extent

Severe storms occur throughout the year in Lea County and its participating jurisdictions. Thunderstorms, high, and high winds can affect any size area from a county, region, or isolated pockets of city or neighborhood. In contrast, lightning will strike a single point. It is not often that multiple strikes will hit and damage people and property in one severe storm event. Hail will occur in small pockets of an accompanying storm. **Figure 5-5** shows locations of reported hail (measurements are 0.75" or greater) and high wind events (measurements of wind speed greater than 50 knots). Currently a map depicting lightning strike locations is not available.

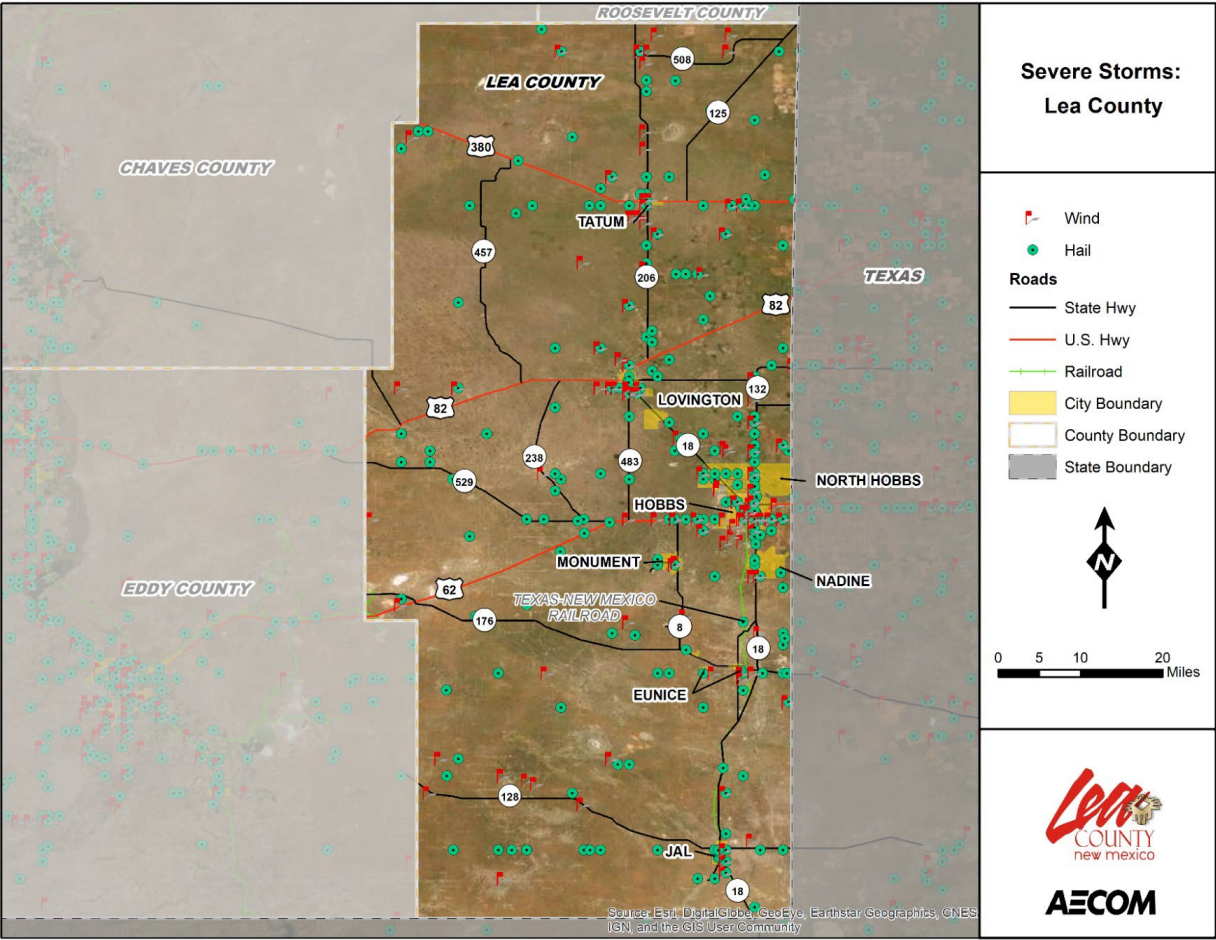


Figure 5-5: Severe Storms – Lea County

### 5.5.3 Extent

Thunderstorm extent is defined by the number of thunder events and wind speeds reported. Windstorms are defined as sustained wind speeds of 40 mph or greater, lasting for 1 hour or longer, or winds of 58 mph or greater for any duration. According to a 71-year history from the National Climatic Data Center, the strongest recorded wind event in the Region was reported on August 21, 2021, at 83 knots (approximately 95 mph), as shown in **Table 5-9**. It should be noted that future events may exceed these historical occurrences.

**Table 5-9: Maximum Recorded Thunderstorm Wind**

Location	Date	Type	Mag
Lea County	7/11/1992	Thunderstorm Wind	55 kts. EG
Eunice	6/3/2018	Thunderstorm Wind	62 kts. EG
Hobbs	8/21/2021	Thunderstorm Wind	83 kts. EG
Jal	6/14/2009	Thunderstorm Wind	78 kts. EG
Lovington	6/5/2003	Thunderstorm Wind	65 kts. EG
Tatum	3/23/2007	Thunderstorm Wind	71 kts. EG

Hail can vary in size from less than 1 inch to several inches in diameter and can cause severe damage to crop and property. Damage depends on the size, duration, and intensity of hail precipitation. Individuals who do not seek shelter could face severe injury. Automobiles and aircraft are particularly susceptible to damage. Effects of other hazards associated with thunderstorms (high winds, intense precipitation, and lightning) often occur concurrently because hail precipitation usually occurs during severe storms.

Lea County has experienced hail ranging from 0.75 to 4.50 inches in diameter. No deaths and no injuries have been recorded in the County. Lea County's worst hailstorm occurred on June 6, 2005. Severe thunderstorms brought a round of destructive hailstorms to parts of southeastern New Mexico during the late afternoon of the 6th. Giant baseball to softball size hailstones and winds that gusted up to 70 MPH caused about two million dollars' worth of property damage in central Lea County. The City of Lovington was hardest hit, with more than 600 vehicles severely damaged along with almost 2,000 structures. The Lovington Police Department reported giant hail just north of Lovington. Softball size hail combined with severe wind gusts to damage structures and vehicles. The largest hail and the most intense winds occurred over less populated areas just outside of the city's limits (the largest observed in the County).

This hail would cause widespread damage to property and crops. Hail can be produced during many distinct types of storms. Typically, hail occurs with severe storms. The size of hail is estimated by comparing it with a known object. During most hailstorms, hail is produced in a variety of sizes, and only the very largest hail stones pose serious risk to people who are exposed. The maximum recorded hail size in each jurisdiction is shown in **Table 5-10**.

**Table 5-10: Maximum Recorded Hail Size**

Location	Date	Type	Mag
Lea County	4/24/1992	Hail	1.75 in.
Eunice	4/11/2009	Hail	3.00 in.

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Location	Date	Type	Mag
Hobbs	5/29/1995	Hail	3.50 in.
Jal	6/14/2009	Hail	4.25 in.
Lovington	6/6/2005	Hail	4.50 in.
Tatum	3/23/2007	Hail	2.75 in.

Because lightning damage is often unreported, statistics vary considerably. The insurance industry estimates that 6.5 percent of all property and casualty claims are related to lightning strikes. While it is difficult to quantify lightning losses, it is estimated that \$4 to \$5 billion in damage occurs each year across the United States. Likewise, the cost of lightning protection to safeguard critical equipment and facilities from lightning strikes during severe weather is enormous. Each year, lightning strikes across the United States are responsible for an average of between 55 and 60 fatalities, several hundred injuries, and billions of dollars in property damage. Many case histories show observed heart damage, inflated lungs, and brain damage in lightning-related fatalities. Many individuals who have survived lightning strikes report a loss of consciousness, amnesia, paralysis, and burns. Death and injury to livestock and other animals; thousands of forest and brush fires; and damage to buildings, communications systems, power lines, and electrical systems are also the result of lightning.

Lea County's worst lightning event occurred on August 8, 1996, when two employees of Lea County Co-op Electric were killed by lightning while attempting to repair lines that had been disabled during a previous storm. Since there were no witnesses of the incident it was first thought the two men had been electrocuted by the lines on which they were working, however, a subsequent investigation ruled out this possibility. People in the area noted a couple of close lightning strikes, and with other evidence, it was surmised that the two were lightning strike victims. The worst-case scenario for lightning strikes would be a strike in a large group of people, such as at an outdoor sporting event or concert. Numerous injuries or deaths could occur. There have been three lightning events reported in Lea County since 1950.

The lightning event is noted in **Table 5-11**. No lightning events have been reported for: Eunice, Jal, Tatum, or other areas in Lea County.

**Table 5-11: Lightning Events in Lea County**

Location	Date	Type	Mag
Lea County	-	Lightning	-
Eunice	-	Lightning	-
Hobbs	8/12/1997	Lightning	\$3,00 Property Damage
Jal	-	Lightning	-
Lovington	8/8/1996	Lightning	2 deaths
Tatum	-	Lightning	-

### 5.5.4 Historical Occurrences

According to NCDC, there have been 467 reported thunderstorms, lightning, and hail events since 1996 in Lea County. These events caused over \$36 million in property damage and approximately \$20,000

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thousand in crop damage. There were no reports of injuries and 2 fatalities. The following historical occurrences have been identified based on the NCDC Storm Events database **Table 5-12** from 1996-2021. Due to a large reporting frequency the years 2005-2021 are continued in Appendix I. It should be noted that only those historical occurrences listed in the NCDC database are shown here and that other, unrecorded, or unreported events may have occurred within the planning area during this period.

**Table 5-12: Historical Occurrences of Thunderstorm, Lightning, Hail (1996-2021)**

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crop
Hobbs	5/24/1996	Hail	0.75	0	0	0.00K	0.00K
Maljamar	5/24/1996	Hail	1	0	0	0.00K	0.00K
Tatum	5/24/1996	Hail	1.75	0	0	0.00K	0.00K
Hobbs	5/25/1996	Hail	0.75	0	0	0.00K	0.00K
Lovington	5/25/1996	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/25/1996	Hail	1	0	0	0.00K	0.00K
Hobbs	5/25/1996	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/25/1996	Hail	1.75	0	0	0.00K	0.00K
Hobbs	5/25/1996	Hail	0.75	0	0	0.00K	0.00K
Lovington	5/25/1996	Hail	1.75	0	0	0.00K	0.00K
Lovington	5/25/1996	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/25/1996	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/25/1996	Hail	1	0	0	0.00K	0.00K
Hobbs	5/25/1996	Thunderstorm Wind		0	0	10000	0.00K
Lovington	5/29/1996	Hail	0.88	0	0	0.00K	0.00K
Hobbs	5/29/1996	Hail	1	0	0	0.00K	0.00K
Hobbs	5/29/1996	Hail	1.5	0	0	0.00K	0.00K
Tatum	5/29/1996	Hail	1.75	0	0	0.00K	0.00K
Tatum	5/29/1996	Hail	2	0	0	0.00K	0.00K
Tatum	5/30/1996	Hail	1.75	0	0	0.00K	0.00K
Eunice	6/2/1996	Thunderstorm Wind		0	0	5000	0.00K
Monument	6/2/1996	Thunderstorm Wind		0	0	2000	0.00K
Tatum	6/2/1996	Hail	0.75	0	0	0.00K	0.00K
Maljamar	6/10/1996	Hail	1	0	0	0.00K	0.00K
Hobbs	6/25/1996	Thunderstorm Wind		0	0	20000	0.00K
Tatum	7/31/1996	Hail	1	0	0	0.00K	0.00K
Lovington	8/8/1996	Lightning		2	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crop
Jal	8/19/1996	Hail	0.88	0	0	0.00K	0.00K
Lovington	9/17/1996	Hail	1	0	0	0.00K	0.00K
Crossroads	4/22/1997	Hail	0.75	0	0	0.00K	0.00K
Tatum	4/24/1997	Hail	1.75	0	0	0.00K	0.00K
Tatum	4/24/1997	Hail	0.88	0	0	0.00K	0.00K
Jal	4/24/1997	Hail	0.88	0	0	0.00K	0.00K
Hobbs	4/24/1997	Hail	0.88	0	0	0.00K	0.00K
Lovington	5/6/1997	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/6/1997	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/28/1997	Hail	2.5	0	0	27000000	0.00K
Eunice	5/28/1997	Thunderstorm Wind		0	0	15000	0.00K
Eunice	5/29/1997	Hail	1.75	0	0	0.00K	0.00K
Jal	5/29/1997	Hail	0.75	0	0	0.00K	0.00K
Eunice	6/11/1997	Hail	1.75	0	0	0.00K	0.00K
Crossroads	6/11/1997	Thunderstorm Wind	52	0	0	0.00K	0.00K
Lovington	6/11/1997	Thunderstorm Wind		0	0	200000	0.00K
Jal	6/11/1997	Hail	1	0	0	0.00K	0.00K
Jal	6/11/1997	Thunderstorm Wind		0	0	3000	0.00K
Hobbs	6/14/1997	Thunderstorm Wind		0	0	1000	0.00K
Tatum	7/5/1997	Hail	1	0	0	0.00K	0.00K
Tatum	7/5/1997	Thunderstorm Wind		0	0	30000	0.00K
McDonald	7/5/1997	Hail	1.75	0	0	0.00K	10000
Jal	7/31/1997	Thunderstorm Wind		0	0	5000	0.00K
Hobbs	8/12/1997	Lightning		0	0	3000	0.00K
Lovington	10/7/1997	Thunderstorm Wind		0	0	3000	0.00K
Lovington	10/7/1997	Thunderstorm Wind		0	0	10000	0.00K
Hobbs	3/17/1998	Hail	0.75	0	0	0.00K	0.00K
Eunice	5/19/1998	Thunderstorm Wind	61	0	0	0.00K	0.00K
Tatum	5/25/1998	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/26/1998	Hail	1.75	0	0	0.00K	0.00K
Tatum	5/26/1998	Hail	1.75	0	0	0.00K	0.00K
Monument	5/26/1998	Hail	0.75	0	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crop
Hobbs	9/9/1998	Thunderstorm Wind		0	0	1000	0.00K
Hobbs	9/9/1998	Hail	0.88	0	0	0.00K	0.00K
Eunice	10/27/1998	Hail	1	0	0	0.00K	0.00K
McDonald	10/27/1998	Thunderstorm Wind		0	0	5000	0.00K
Bennett	10/30/1998	Hail	1.75	0	0	0.00K	0.00K
Jal	10/30/1998	Thunderstorm Wind		0	0	2000	0.00K
Jal	10/30/1998	Hail	1.75	0	0	0.00K	0.00K
Jal	10/30/1998	Thunderstorm Wind	52	0	0	0.00K	0.00K
Hobbs	10/30/1998	Hail	0.75	0	0	0.00K	0.00K
Nadine	10/30/1998	Hail	0.75	0	0	0.00K	0.00K
Hobbs	3/17/1999	Hail	1	0	0	0.00K	0.00K
Hobbs	3/17/1999	Hail	1	0	0	0.00K	0.00K
Hobbs	3/17/1999	Hail	1	0	0	0.00K	0.00K
Lovington	3/17/1999	Hail	1	0	0	0.00K	0.00K
Eunice	4/30/1999	Hail	1	0	0	0.00K	0.00K
Eunice	4/30/1999	Hail	1.75	0	0	0.00K	0.00K
Nadine	4/30/1999	Hail	1	0	0	0.00K	0.00K
Tatum	5/24/1999	Thunderstorm Wind		0	0	2000	0.00K
Tatum	5/24/1999	Thunderstorm Wind		0	0	2000	0.00K
Eunice	5/24/1999	Hail	0.75	0	0	0.00K	0.00K
Maljamar	6/2/1999	Hail	0.88	0	0	0.00K	0.00K
Maljamar	6/2/1999	Hail	2	0	0	0.00K	0.00K
Maljamar	6/2/1999	Hail	1.75	0	0	0.00K	0.00K
Lovington	6/2/1999	Hail	1	0	0	0.00K	0.00K
Buckeye	6/2/1999	Hail	1.25	0	0	0.00K	0.00K
Maljamar	6/8/1999	Hail	0.75	0	0	0.00K	0.00K
Jal	6/11/1999	Hail	1.75	0	0	0.00K	0.00K
Hobbs	7/14/1999	Thunderstorm Wind		0	0	10000	0.00K
Hobbs	9/7/1999	Thunderstorm Wind		0	0	15000	0.00K
Lovington	4/30/2000	Hail	1	0	0	0.00K	0.00K
Hobbs	6/19/2000	Hail	0.75	0	0	0.00K	0.00K
Hobbs	10/17/2000	Hail	0.75	0	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crop
Jal	10/21/2000	Hail	0.88	0	0	0.00K	0.00K
Caprock	3/7/2001	Hail	0.75	0	0	0.00K	0.00K
Tatum	5/11/2001	Hail	1.75	0	0	0.00K	0.00K
Tatum	5/11/2001	Hail	1.75	0	0	0.00K	0.00K
Tatum	5/11/2001	Hail	1	0	0	0.00K	0.00K
Hobbs	6/23/2001	Thunderstorm Wind	52	0	0	0.00K	0.00K
Hobbs	6/23/2001	Hail	0.75	0	0	0.00K	0.00K
Hobbs	6/23/2001	Hail	1.75	0	0	0.00K	0.00K
Hobbs	6/23/2001	Thunderstorm Wind		0	0	7000	0.00K
Lovington	9/21/2001	Hail	1	0	0	0.00K	0.00K
Jal	4/26/2002	Hail	2.75	0	0	5000	0.00K
Jal	4/26/2002	Hail	2.75	0	0	10000	0.00K
Jal	4/26/2002	Hail	2	0	0	3000	0.00K
Nadine	5/5/2002	Hail	0.75	0	0	0.00K	0.00K
Hobbs	5/5/2002	Hail	1	0	0	0.00K	0.00K
Jal	5/10/2002	Hail	1.75	0	0	0.00K	0.00K
Jal	5/10/2002	Hail	1.75	0	0	0.00K	0.00K
Jal	5/10/2002	Hail	1.75	0	0	0.00K	0.00K
Jal	5/10/2002	Thunderstorm Wind	52	0	0	0.00K	0.00K
Eunice	6/9/2002	Thunderstorm Wind	52	0	0	0.00K	0.00K
Jal	6/13/2002	Hail	1	0	0	0.00K	0.00K
Jal	6/19/2002	Hail	0.75	0	0	0.00K	0.00K
Jal	6/19/2002	Thunderstorm Wind	52	0	0	0.00K	0.00K
Knowles	7/6/2002	Hail	0.75	0	0	0.00K	0.00K
Eunice	8/1/2002	Thunderstorm Wind	62	0	0	0.00K	0.00K
Tatum	8/29/2002	Hail	0.88	0	0	0.00K	0.00K
Jal	10/1/2002	Hail	1	0	0	0.00K	0.00K
Eunice	10/1/2002	Hail	1	0	0	0.00K	0.00K
Eunice	10/1/2002	Thunderstorm Wind	52	0	0	0.00K	0.00K
Hobbs	10/1/2002	Thunderstorm Wind	52	0	0	0.00K	0.00K
Jal	10/2/2002	Hail	1.75	0	0	0.00K	0.00K
Eunice	10/2/2002	Hail	0.75	0	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crop
Hobbs	10/2/2002	Hail	0.75	0	0	0.00K	0.00K
Hobbs	10/2/2002	Hail	1	0	0	0.00K	0.00K
Hobbs	10/8/2002	Hail	0.88	0	0	0.00K	0.00K
Eunice	10/28/2002	Hail	0.75	0	0	0.00K	0.00K
Tatum	6/3/2003	Thunderstorm Wind	52	0	0	0.00K	0.00K
Tatum	6/5/2003	Hail	0.75	0	0	0.00K	0.00K
Lovington	6/5/2003	Thunderstorm Wind	65	0	0	0.00K	0.00K
Hobbs	6/5/2003	Thunderstorm Wind	57	0	0	5000	0.00K
Hobbs	6/9/2003	Thunderstorm Wind	57	0	0	0.00K	0.00K
Monument	6/13/2003	Hail	1.75	0	0	0.00K	0.00K
Buckeye	6/20/2003	Hail	1	0	0	0.00K	0.00K
Hobbs	6/20/2003	Thunderstorm Wind	52	0	0	0.00K	0.00K
Hobbs	9/9/2003	Hail	0.75	0	0	0.00K	0.00K
Eunice	4/3/2004	Hail	0.88	0	0	0.00K	0.00K
Eunice	4/3/2004	Hail	0.88	0	0	0.00K	0.00K
Eunice	4/3/2004	Hail	0.75	0	0	0.00K	0.00K
Tatum	4/8/2004	Hail	1.75	0	0	25000	0.00K
Caprock	4/8/2004	Hail	0.75	0	0	0.00K	0.00K
Caprock	4/8/2004	Hail	0.75	0	0	0.00K	0.00K
Lovington	4/19/2004	Hail	0.88	0	0	0.00K	0.00K
Eunice	4/19/2004	Hail	1	0	0	0.00K	0.00K
Crossroads	4/30/2004	Hail	0.88	0	0	0.00K	0.00K
Crossroads	4/30/2004	Thunderstorm Wind	52	0	0	0.00K	0.00K
Lovington	5/9/2004	Hail	1.75	0	0	0.00K	0.00K
Lovington	5/9/2004	Hail	1.75	0	0	0.00K	0.00K
Caprock	5/20/2004	Thunderstorm Wind	52	0	0	0.00K	0.00K
Tatum	6/16/2004	Thunderstorm Wind	61	0	0	20000	0.00K
Tatum	6/16/2004	Hail	2.5	0	0	5000	0.00K
Hobbs	6/18/2004	Hail	1	0	0	0.00K	0.00K
Eunice	6/18/2004	Hail	0.88	0	0	0.00K	0.00K
Tatum	6/18/2004	Thunderstorm Wind	61	0	0	0.00K	0.00K
Lovington	6/24/2004	Hail	1	0	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crop
Hobbs	6/24/2004	Thunderstorm Wind	50	0	0	0.00K	0.00K
Eunice	6/24/2004	Hail	1	0	0	0.00K	0.00K
Tatum	7/6/2004	Hail	1.75	0	0	0.00K	0.00K
Jal	7/7/2004	Thunderstorm Wind	57	0	0	50000	0.00K
Tatum	7/18/2004	Hail	0.75	0	0	0.00K	0.00K
Tatum	7/18/2004	Thunderstorm Wind	52	0	0	15000	0.00K
Crossroads	8/4/2004	Thunderstorm Wind	61	0	0	200000	0.00K
Jal	8/12/2004	Thunderstorm Wind	50	0	0	0.00K	0.00K
Hobbs	8/21/2004	Hail	1.75	0	0	0.00K	0.00K
Eunice	9/21/2004	Thunderstorm Wind	61	0	0	15000	0.00K
Lovington	9/22/2004	Thunderstorm Wind	50	0	0	0.00K	0.00K
Lovington	10/4/2004	Hail	1	0	0	0.00K	0.00K
Tatum	10/5/2004	Thunderstorm Wind	61	0	0	50000	0.00K
Tatum	10/5/2004	Hail	1.75	0	0	0.00K	0.00K
Lovington	10/5/2004	Hail	0.88	0	0	0.00K	0.00K
Eunice	5/6/2005	Hail	1.25	0	0	0.00K	0.00K

\*Preliminary Data

### 5.5.5 Probability of Future Occurrences

The probability of future Severe Storms [\(which takes into consideration overall climate change predictions for New Mexico\)](#) is shown in the table below, by jurisdiction.

#### Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Unlikely: Less than 1% annual probability
- Possible: Between 1% and 10% annual probability
- Likely: Between 10% and 99% annual probability
- Highly Likely: 100% probability

Jurisdiction	Probability
Lea County (Unincorporated Area)	Likely
Eunice	Likely
Hobbs	Likely
Jal	Likely
Lovington	Likely
Tatum	Likely

### 5.5.6 Vulnerability and Impact

#### People

Severe storms are associated with hazards such as high wind, thunderstorms, lightning, and hail. High wind can cause trees to fall and potentially result in injuries or death and lightning can lead to house fires and severe injury. Hail can cause injury as well as severe property damage to homes and automobiles. All jurisdictions in the County are vulnerable to this impact; overall 15% of the county population is without access to a smartphone (which based on development trends is expected to remain static) and could be disproportionately impacted than residents without access to emergency alerts to severe storms. According to the National Risk Index (NRI) Report for Lea County. According to the National Risk Index Report for Lea County (Appendix H) Social groups in Lea County, NM have a Very High susceptibility to the adverse impacts of natural hazards when compared to the rest of the United States.

#### First Responders

First responders can be impacted in the same way as the public. Downed trees, power lines and flood waters may prevent access to areas in need which prolongs response time.

#### Continuity of Operations

Severe storm events can result in a loss of power which may impact operations. Downed trees, power lines and flash flooding may prevent access to critical facilities and/or emergency equipment.

#### Built Environment

Severe storm events can cause damage to commercial buildings and homes due to high winds, lightning strikes, and hail. Heavy rains associated with thunderstorm events may also lead to flash flooding which can damage roads and bridges.

#### Economy

Economic damage includes property damage from wind, thunderstorms, lightning, and hail, and includes intangibles such as business interruption and additional living expenses. This could negatively impact approximately 10% of each jurisdiction's economic stability.

#### Natural Environment

Severe storms have a significant impact on the environment. One of the most dangerous outcomes for the environment is when lightning causes sparks to flare up in surrounding forests or immense shrubs. This is often the cause of bush fires, which then spread quickly due to the fast winds that accompany the storms. High winds can also damage crops and trees. Flooding can kill animals and cause soil erosion.

#### Infrastructure & Critical Facilities

All infrastructure and critical facilities are equally at risk since severe storms indiscriminately affect the entire planning area.

#### Land Use & Development Trends

Increased residential growth will not increase Lea County or its participating jurisdictions' vulnerability and risk severe storms if the residential structures continue to be built under currently adopted international and state building codes. Any buildings or infrastructure built in the future will have the same risk as other buildings or infrastructure built within the planning area. The effects of climate

## Hazard Profiles

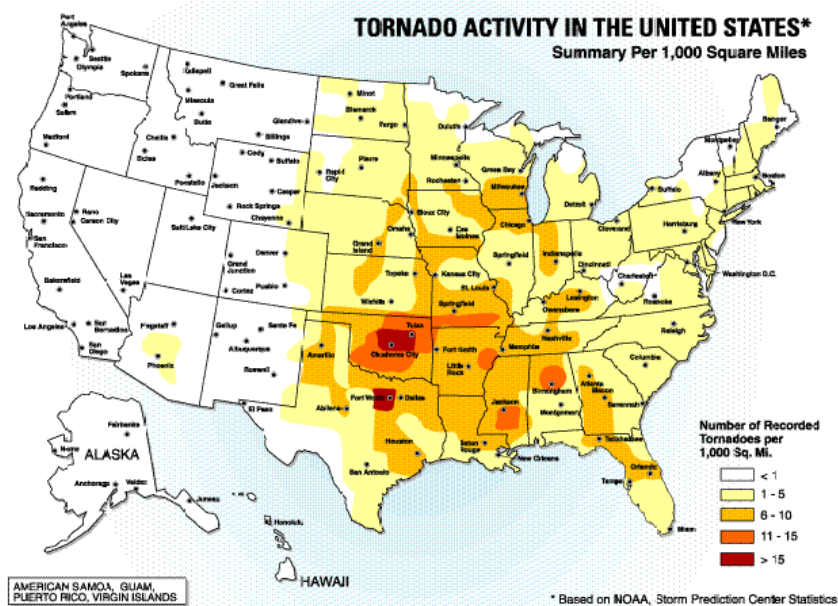
change currently do not affect the impacts of this hazard. While there is uncertainty in projecting future changes, there is high confidence in understanding the effect of human activities changing the climate in unprecedented ways. Lea County and its participating jurisdictions will make efforts to incorporate new and relevant data as it becomes available in predicting future impacts at the local level.

## 5.6 Tornado

### 5.6.1 Background

A tornado is a violent windstorm characterized by a twisting, funnel-shaped cloud extending to the ground. Tornadoes are most often generated by thunderstorm activity (but sometimes result from hurricanes and other tropical storms) when cool, dry air intersects and overrides a layer of warm, moist air forcing the warm air to rise rapidly. The damage caused by a tornado is a result of the high wind velocity and wind-blown debris, also accompanied by lightning or large hail. According to the National Weather Service, tornado wind speeds normally range from 40 miles per hour to more than 300 miles per hour. The most violent tornadoes have rotating winds of 250 miles per hour or more and can cause extreme destruction and turn normally harmless objects into deadly missiles.

Each year, an average of over 1200 tornadoes are reported nationwide, resulting in an average of 80 deaths and 1,500 injuries. **Figure 5-6** shows tornado activity in the United States based on the number of recorded tornadoes per 1,001,000 square miles (about the area of Yosemite National Park)



Source: Federal Emergency Management Agency

**Figure 5-6: Tornado Activity in the United States**

## Hazard Profiles

Tornadoes are more likely to occur during the months of March through May and are most 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.

The destruction caused by tornadoes ranges from light to inconceivable depending on the intensity, size, and duration of the storm. Typically, tornadoes cause the greatest damage to structures of light construction, including residential dwellings (particularly mobile homes). Tornadic magnitude is reported according to Fujita and Enhanced Fujita Scales. Tornado magnitudes prior to 2005 were determined using the traditional version of the Fujita Scale (**Table 5-13**). Tornado magnitudes were determined in 2005 and later were determined using the Enhanced Fujita Scale (**Table 5-14**).

**Table 5-13: The Fujita Scale (Effective Prior to 2005)**

F-Scale Number	Intensity	Wind Speed	Type of Damage Done
<b>F0</b>	GALE TORNADO	40–72 MPH	Some damage to chimneys; branches off trees; pushes over shallow-rooted trees; damages to sign boards.
<b>F1</b>	MODERATE TORNADO	73–112 MPH	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
<b>F2</b>	SIGNIFICANT TORNADO	113–157 MPH	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
<b>F3</b>	SEVERE TORNADO	158–206 MPH	Roof and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted.
<b>F4</b>	DEVASTATING TORNADO	207–260 MPH	Well-constructed houses levelled; structures with weak foundations blown off some distance; cars thrown, and large missiles generated.
<b>F5</b>	INCREDIBLE TORNADO	261–318 MPH	Sturdy frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly more than 100 meters (about the length of a football field); trees debarked; steel re-enforced concrete structures severely damaged.
<b>F6</b>	INCONCEIVABLE TORNADO	319–379 MPH	These winds are very unlikely. The small area of damage they might produce would not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds. Missiles, such as cars and refrigerators would do serious secondary damage that could not be directly identified as F6 damage. If this level is ever achieved, evidence for it might only be found in some manner of ground swirl pattern, for it may never be identifiable through engineering studies.

Source: National Weather Service

**Table 5-14: The Enhanced Fujita Scale (Effective 2005 and Later)**

EF-Scale Number	Intensity Phrase	3 Second Gust (mph)	Type of Damage Done
<b>EF0</b>	GALE	65–85	Some damage to chimneys; branches off trees; pushes over shallow-rooted trees; damages to sign boards.
<b>EF1</b>	MODERATE	86–110	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
<b>EF2</b>	SIGNIFICANT	111–135	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
<b>EF3</b>	SEVERE	136–165	Roof and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted.
<b>EF4</b>	DEVASTATING	166–200	Well-constructed houses levelled; structures with weak foundations blown off some distance; cars thrown, and large missiles generated.
<b>EF5</b>	INCREDIBLE	Over 200	Sturdy frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly more than 100 meters (about the length of a football field); trees debarked; steel re-enforced concrete structures severely damaged.

Source: National Weather Service



**Figure 5-7: Tornado Hazard Areas – Lea County**

### 5.6.2 Location and Spatial Extent

Tornadoes occur throughout the state of New Mexico, and thus in Lea County. Tornadoes typically impact a small area, but damage may be extensive. Event locations are completely random, and it is not possible to predict specific areas that are more susceptible to tornado strikes over time, though due to population density, (especially in Lea County) tornadoes may be reported more frequently in higher populated areas than more rural locations due to lack of observance of the event and/or reported damages. Therefore, it is assumed that the County is uniformly exposed to this hazard.

### 5.6.3 Extent

The extent of tornadoes can be defined by the maximum tornado magnitude. **Table 5-15** notes the maximum tornado magnitude recorded in each jurisdiction.

**Table 5-15: Maximum Recorded Tornado Magnitude**

Location	Date	Magnitude
Lea County (Unincorporated Area)	5/17/1954	F3
Eunice	5/5/2015	EF0
Hobb	4/8/2004	F0
Jal	12/2/1997	F0
Lovington	3/12/2019	EF2
Tatum	3/12/2019	EF2

Source: National Weather Service Storm Prediction Center

### 5.6.4 Historical Occurrences

The following historical occurrences ranging from 1950 to 2021 have been identified based on the NCDC Storm Events database **Table 5-16**. There were 93 events reported; no deaths and 8 injuries occurred. It should be noted that only those historical occurrences listed in the NCDC database are shown here and that other, unrecorded, or unreported events may have occurred within the planning area during this timeframe.

**Table 5-16: Historical Occurrences of Tornado (1950 to 2021)**

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crops
Lea County	5/16/1954	Tornado	F1	0	0	250	0.00K
Lea County	5/16/1954	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/17/1954	Tornado	F3	0	0	30	0.00K
Lea County	5/17/1954	Tornado	F1	0	0	0.00K	0.00K
Lea County	5/29/1956	Tornado	F0	0	0	250	0.00K
Lea County	5/30/1957	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/30/1957	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/30/1957	Tornado	F0	0	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crops
Lea County	4/7/1959	Tornado	F1	0	0	2500	0.00K
Lea County	4/26/1960	Tornado	F0	0	0	0.00K	0.00K
Lea County	7/24/1960	Tornado	F2	0	0	25000	0.00K
Lea County	5/30/1961	Tornado	F1	0	0	25000	0.00K
Lea County	6/7/1961	Tornado	F0	0	0	0.00K	0.00K
Lea County	7/27/1962	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/8/1963	Tornado	F0	0	0	0.00K	0.00K
Lea County	8/31/1963	Tornado	F1	0	0	2500	0.00K
Lea County	5/10/1966	Tornado	F0	0	0	250	0.00K
Lea County	5/26/1966	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/26/1966	Tornado	F0	0	0	0.00K	0.00K
Lea County	8/7/1966	Tornado	F1	0	0	2500	0.00K
Lea County	5/10/1968	Tornado	F0	0	0	0.00K	0.00K
Lea County	4/10/1969	Tornado	F1	0	2	25000	0.00K
Lea County	4/17/1970	Tornado	F1	0	0	2500	0.00K
Lea County	4/17/1970	Tornado	F1	0	0	2500	0.00K
Lea County	4/18/1970	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/25/1970	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/27/1970	Tornado	F1	0	0	0.00K	0.00K
Lea County	6/14/1971	Tornado	F1	0	0	250	0.00K
Lea County	6/14/1972	Tornado	F2	0	0	250	0.00K
Lea County	4/18/1973	Tornado	F1	0	0	250	0.00K
Lea County	7/23/1975	Tornado	F0	0	0	30	0.00K
Lea County	4/19/1977	Tornado	F1	0	0	25000	0.00K
Lea County	9/13/1977	Tornado	F0	0	0	250000	0.00K
Lea County	10/10/1978	Tornado	F1	0	0	25000	0.00K
Lea County	7/24/1979	Tornado	F0	0	0	2500	0.00K
Lea County	8/2/1979	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/27/1982	Tornado	F2	0	0	25000000	0.00K
Lea County	6/10/1982	Tornado	F0	0	0	30	0.00K
Lea County	5/30/1983	Tornado	F0	0	0	25000	0.00K
Lea County	5/19/1985	Tornado	F0	0	0	250000	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crops
Lea County	6/5/1985	Tornado	F0	0	0	25000	0.00K
Lea County	7/24/1985	Tornado	F0	0	0	25000	0.00K
Lea County	7/1/1986	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/23/1987	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/25/1987	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/25/1987	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/25/1987	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/26/1987	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/30/1987	Tornado	F0	0	0	0.00K	0.00K
Lea County	4/16/1988	Tornado	F1	0	0	0.00K	0.00K
Lea County	5/20/1988	Tornado	F0	0	1	250000	0.00K
Lea County	5/20/1988	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/11/1989	Tornado	F1	0	0	2500	0.00K
Lea County	6/10/1989	Tornado	F0	0	0	0.00K	0.00K
Lea County	8/2/1989	Tornado	F1	0	0	25000	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/5/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/6/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/6/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/6/1991	Tornado	F2	0	0	250000	0.00K
Lea County	6/6/1991	Tornado	F2	0	0	250000	0.00K
Lea County	6/6/1991	Tornado	F2	0	5	250000	0.00K
Lea County	6/6/1991	Tornado	F2	0	0	250000	0.00K
Lea County	6/6/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	8/10/1991	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/13/1992	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/22/1992	Tornado	F0	0	0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Damage Property	Damage Crops
Lea County	5/22/1992	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/22/1992	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/24/1992	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/1/1992	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/26/1994	Tornado	F0	0	0	0.00K	0.00K
Jal	9/7/1994	Tornado	F0	0	0	0.00K	0.00K
Lea County	5/26/1995	Tornado	F1	0	0	0.00K	0.00K
Lea County	5/26/1995	Tornado	F1	0	0	0.00K	0.00K
Lea County	6/25/1995	Tornado	F0	0	0	0.00K	0.00K
Lea County	6/29/1995	Tornado	F0	0	0	0.00K	0.00K
Crossroads	6/2/1996	Tornado	F0	0	0	0.00K	0.00K
Hobbs	5/6/1997	Tornado	F1	0	0	60000	0.00K
Tatum	5/8/1997	Tornado	F0	0	0	0.00K	0.00K
Hobbs	5/28/1997	Tornado	F0	0	0	20000	0.00K
Eunice	10/27/1998	Tornado	F0	0	0	0.00K	0.00K
Eunice	4/30/1999	Tornado	F0	0	0	0.00K	0.00K
Lovington	3/23/2007	Tornado	EF0	0	0	0.00K	0.00K
McDonald	3/23/2007	Tornado	EF2	0	0	28000	0.00K
Crossroads	3/23/2007	Tornado	EF0	0	0	0.00K	0.00K
Crossroads	3/23/2007	Tornado	EF0	0	0	2000	0.00K
Teague	5/23/2014	Tornado	EF0	0	0	0.00K	0.00K

### 5.6.5 Probability of Future Occurrences

The probability of future tornadoes [\(which takes into consideration overall climate change predictions for New Mexico\)](#) is shown in the table below, by jurisdiction.

#### Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Unlikely: Less than 1% annual probability of EF2 event
- Possible: Between 1% and 10% annual probability of EF2 event
- Likely: Between 10% and 99% annual probability of EF2 event
- Highly Likely: 100% probability of EF2 event

Jurisdiction	Probability
Lea County (Unincorporated Area)	Possible
City of Eunice	Possible

## Hazard Profiles

Jurisdiction	Probability
Town of Hobbs	Possible
Town of Jal	Possible
Town of Lovington	Possible
City of Tatum	Possible

### 5.6.6 Vulnerability and Impact

#### People

The rate of onset of tornado events is rapid, giving those in danger minimal time to seek shelter. The current average lead time according to NOAA is 13 minutes. Injury may result from the direct impact of a tornado, or it may occur afterward when people walk among debris and enter damaged buildings. Because tornadoes often damage power lines, gas lines, or electrical systems, there is a risk of fire, electrocution, or an explosion; 15% of the county population is without access to a smartphone and 17% of households live in pre-manufactured housing (which based on development trends is expected to remain static) and could disproportionately impact residents without access to emergency alerts to tornado, especially populations who live in mobile homes which are more susceptible to damage due to their lightweight construction and elevated profiles. According to the National Risk Index (NRI) Report for Lea County. According to the National Risk Index Report for Lea County (Appendix H). Social groups in Lea County, NM have a Very High susceptibility to the adverse impacts of natural hazards when compared to the rest of the United States.-

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#### First Responders

Due to the rapid onset of tornado events, first responders could be critically affected by tornado events through direct impact of the tornado itself or injury received during response efforts. Response may be hindered as responders may be unable to access those affected if storm conditions persist or if they cannot safely enter affected areas. As mentioned above, a sizable percentage of tornado-related injuries are suffered during rescue attempts, cleanup, and other post-tornado activities due to walking among debris and entering damaged buildings.

#### Continuity of Operations

Continuity of operations could be impacted by a tornado. Personnel or families of personnel may be harmed which would limit their response capability. Critical facilities and resources could also be damaged or destroyed during a tornado.

#### Built Environment

The weakest tornadoes, EF0, can cause minor roof damage and strong tornadoes can destroy frame buildings and even severely damage steel reinforced concrete structures. Most building codes in the United States do not include provisions that provide protection against tornadic winds. Given the strength of the wind impact and construction techniques, buildings are vulnerable to direct impact, including potential destruction, from tornadoes and from wind borne debris that tornadoes turn into missiles. All jurisdictions in the County are vulnerable to building damage. Mobile homes are particularly susceptible to damage and fatalities during tornadoes. The City of Hobbs has the highest population of residents living in pre-manufactured housing (approximately 20%) that would be susceptible to structure loss.

## Hazard Profiles

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### Economy

The largest impact of tornadoes is the economic damage caused by widespread destruction along their paths. More directly, there are many people killed by these storms, and to a lesser extent pets and farm animals. The major damage is the complete destruction of homes, buildings, and farms, the wrecking of cars and trucks, and the loss of power distribution systems. Winds as high as 300 mph blow down walls, tear up trees, and throw debris in every direction at high speeds. Indirect losses include workers who cannot report to jobs and commercial entities that are closest to repairing damage.

### Natural Environment

There is no defense for plants and animals from a direct impact from a tornado. Plants and animals in the path of the tornado will receive considerable damage or be killed. Strong tornados can shred trees and lift grass from the ground.

### Infrastructure & Critical Facilities

All infrastructure and critical facilities are equally at risk since tornadoes indiscriminately affect the entire planning area.

### Land Use & Development Trends

The County and its participating jurisdictions' predominant growth area is residential housing. Increased residential growth will increase the County and its participating jurisdictions' vulnerability and risk to tornadoes. Since tornadoes typically land, move on a path, and then dissipate, there is a high chance in a rural area that a tornado's path may not hit any structures or population. However, as the communities grow, the total area remains the same, and tornado activity remains constant, there is a greater chance structures and population will be exposed to a tornado. As the County and its participating jurisdictions grow, it will need to initiate more programs building tornado safe rooms and encouraging the construction of private safe rooms. Additionally, community and school safe rooms will need to be built based on projections of future population and not the current number. Any buildings or infrastructure built in the future will have the same risk as other buildings or infrastructure built within the planning area. The effects of climate change currently do not affect the impacts of this hazard. While there is uncertainty in projecting future changes, there is high confidence in understanding the effect of human activities changing the climate in unprecedented ways. Lea County and its participating jurisdictions will make efforts to incorporate new and relevant data as it becomes available in predicting future impacts at the local level.

## 5.7 Winter Storm

### 5.7.1 Background

A winter storm can range from moderate snow over a period of a few hours to blizzard conditions with blinding wind-driven snow that lasts for several days. Events may include snow, sleet, freezing rain, or a mix of these wintry forms of precipitation. Some winter storms might be large enough to affect several states, while others might affect only localized areas. Occasionally, heavy snow might also cause significant property damage, such as roof collapses on older buildings.

All winter storm events have the potential to present dangerous conditions to the affected area. Larger snowfalls pose a greater risk, reducing visibility due to blowing snow and making driving conditions treacherous. A heavy snow event is defined by the National Weather Service as an accumulation of 4 of

more inches in 12 hours or less. A blizzard is the most severe form of winter storm. It combines low temperatures, heavy snow, and winds of 35 miles per hour or more, which reduces visibility to a quarter mile or less for at least 3 hours. Winter storms are often accompanied by sleet, freezing rain, or an ice storm. Such freezing events are particularly hazardous as they create treacherous surfaces.

Ice storms are defined as storms with significant amounts of freezing rain and are a result of frigid air damming (CAD (Cold Air Damming)). CAD is a shallow, surface-based layer of cold, stably stratified air entrenched against the southern slopes of the Rocky Mountains. With warmer air above, falling precipitation in the form of snow melts, then becomes either super-cooled (liquid below the melting point of water) or re-freezes. In the former case, super-cooled droplets can freeze on impact (freezing rain), while in the latter case, the re-frozen water particles are ice pellets (or sleet). Sleet is defined as partially frozen raindrops or refrozen snowflakes that form into small ice pellets before reaching the ground. They typically bounce when they hit the ground and do not stick to the surface. However, it does accumulate like snow, posing similar problems and has the potential to accumulate into a layer of ice on surfaces. Conversely, freezing rain usually sticks to the ground, creating a sheet of ice on the roadways and other surfaces. All the winter storm elements – snow, low temperatures, sleet, ice, etcetera – have the potential to cause significant hazard to a community. Even small accumulations can down power lines and tree limbs and create hazardous driving conditions. Furthermore, communication and power may be disrupted for days.

#### 5.7.2 Location and Spatial Extent

The entire continental United States is susceptible to winter storm events. Some winter storms may be large enough to affect several states, while others might affect limited, localized areas. The degree of exposure typically depends on the normal expected severity of local winter weather. The County is accustomed to severe winter weather conditions and often receives winter weather during the winter months. Given the atmospheric nature of the hazard, the entire region has uniform exposure to a winter storm.

#### 5.7.3 Extent

Since 1950 there has been one extreme temperature event in the County. Arctic air overspread the region on 2/1/2011. Northeast winds of 30-45 mph with higher gusts combined with temperatures in the single digits to produce wind chill values of -15 to -35 degrees Fahrenheit. Average winter temperatures in the County are 56 degrees. Temperatures in the lower teens will trigger activation of warming centers in the county, which occurs a few times a year.

A deep upper-level trough dug into New Mexico and West Texas late on the 9th and into the 10th of January in 2021. This lifted moist air over frigid air at the surface causing heavy snow to develop in a band from far southeastern New Mexico, across the central and eastern Permian Basin. The maximum reported snowfall amounts are shown in **Table 5-17**. Verifiable data breaking down specific inches of snow at the jurisdictional level is not accessible. The participating jurisdictions do not anticipate future conditions that would fall outside these presently established extents. The maximum is 8 inches and the participating jurisdictions do not anticipate exceeding that amount.

**Table 5-17: Maximum Reported Snowfall Amounts**

Location	Date	Type	Mag
Lea County	01/09/2012	Winter Storm	4-5 in. of snow*
Eunice	01/09/2012	Winter Storm	4-5 in. of snow*

## Hazard Profiles

Hobbs	01/09/2021	Winter Storm	8 in. of snow*
Jal	01/09/2021	Winter Storm	7 in. of snow*
Lovington	01/09/2021	Winter Storm	7 in. of snow*
Tatum	12/23/2011	Winter Storm	8 in. of snow*

\*Anecdotal estimates

**Table 5-18: Reported Snowfall Amounts**

Northern Lea County (zone)	11/2/2004	Local officials reported four to six inches snow accumulations near Tatum. This resulted in hazardous driving conditions as roads became snow packed and slick. Low visibilities also accompanied the heavy snow. Snow drifts reached depths of one foot.
Southern Lea County (zone)	12/23/2004	Accumulating snowfall additionally occurred over southern Lea County. Storm total snow accumulations totaled three inches at Jal.
Central Lea County (zone)	2/1/2005	Accumulating snowfall affected the far southeastern plains of New Mexico on the 1st. This occurred as a significant winter storm racked the adjacent counties of west Texas. Reported snow accumulations from central and southern Lea County included: Hobbs.....1 inch and Jal.....3 inches
Northern Lea County (zone)	3/15/2005	More significant snowfall occurred over northern Lea County on the 15th as a winter storm affected portions of the New Mexico plains. Between four- and five-inch snow accumulations were reported across northern Lea County from Caprock to Crossroads.
Northern Lea County (zone)	1/18/2007	Four inches of snow fell in Tatum.
Central Lea County (zone)	1/18/2007	New Mexico Highway 18 was closed between Lovington and the Texas state line.
Central Lea County (zone)	1/23/2007	Seven inches of snow fell in Nadine.
Central Lea County (zone)	1/23/2007	Five inches of snow fell in Jal.
Northern Lea County (zone)	12/1/2009	Two to four inches of snow fell in and near Tatum from 11/30/09 to 12/01/09 in northern Lea County.
Southern Lea County (zone)	12/3/2009	One half to one inch of snow fell in Jal from 12/03/09 to 12/04/09.
Central Lea County (zone)	12/4/2009	One to one and a half inches fell in Hobbs from 12/03/09 to 12/04/09.
Northern Lea County (zone)	12/4/2009	Two inches of snow fell in and near Tatum from 12/03/09 to 12/04/09.
Northern Lea County (zone)	12/29/2009	Four inches of snow accumulated in Tatum. Roads were snow packed and icy.
Northern Lea County (zone)	2/22/2010	Three to five inches of snow was reported in and around Tatum.

## Hazard Profiles

Northern Lea County (zone)	2/22/2010	Four inches of snow was reported in Tatum.
Southern Lea County (zone)	12/23/2011	The total snowfall at Jal was 4 inches.
Northern Lea County (zone)	12/23/2011	Snowfall was only 1-2 inches by early evening on the 23rd, but roads were closed over Lea County due to snowfall and subfreezing temperatures. The storm total snowfall reported for Tatum was 8 inches.
Central Lea County (zone)	12/23/2011	Snowfall totals were great enough by 714 PM CST on the 23rd over east central New Mexico for Highway 18 to be closed between Hobbs and Lovington. US (United States) Highway 62/180 between Hobbs and Carlsbad was closed by 825 PM CST. Total snowfall at Hobbs was 7 inches.
southern lea county (zone)	1/9/2012	4-5 inches of snowfall was estimated in southern Lea County.
Central Lea County (zone)	1/9/2012	Estimated 4 inches of snow fell by 1200 CST in Nadine, which is 7.8 miles south of Hobbs. The total snowfall was 15 inches, which was reported at 1900 CST.
Southern Lea County (zone)	1/3/2013	Four inches of snow reported in Jal.
Northern Lea County (zone)	11/22/2013	The public reported 3.8 inches of snowfall and 1/2 inch of ice in Tatum.
Central Lea County (zone)	12/26/2014	Eight inches of snow measured by the public in Queen.
Northern Lea County (zone)	2/26/2015	Five inches of snowfall reported in Tatum.
Southern Lea County (zone)	1/9/2021	Seven inches of snow was estimated to have fallen 21 miles west northwest of Jal.
Central Lea County (zone)	1/9/2021	Seven inches of snow was estimated to have fallen 8 miles southeast of Lovington.
Central Lea County (zone)	1/9/2021	Eight inches of snow was estimated to have fallen in Hobbs.

### 5.7.4 Historical Occurrences

According to the National Climatic Data Center, there have been 39 recorded winter storm events in the County since 1950 (Table 519).- These events reported no documented monetary losses and no reported deaths or injuries. Note that there may have been more events to occur before 2009 not reported on NCDC.

**Table 5-19: Historical Occurrences of Winter Weather (1950 to 2021)**

Location	Date	Type	Mag	Deaths	Injuries	Property Damage	Crop Damage
Lea (zone)	1/6/1997	Heavy Snow		0	0	0	0
Lea (zone)	12/20/1997	Heavy Snow		0	0	0	0

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Property Damage	Crop Damage
Lea (zone)	12/22/1997	Heavy Snow		0	0	0	0
Lea (zone)	12/25/1997	Heavy Snow		0	0	0	0
Lea (zone)	12/11/1998	Heavy Snow		0	0	0	0
Central Lea County (zone)	11/2/2004	Winter Weather		0	0	0	0
Southern Lea County (zone)	11/2/2004	Winter Weather		0	0	0	0
Northern Lea County (zone)	11/2/2004	Winter Weather		0	0	0	0
Northern Lea County (zone)	11/2/2004	Heavy Snow		0	0	0	0
Northern Lea County (zone)	12/22/2004	Winter Storm		0	0	0	0
Central Lea County (zone)	12/22/2004	Winter Weather		0	0	0	0
Southern Lea County (zone)	12/23/2004	Winter Weather		0	0	0	0
Central Lea County (zone)	2/1/2005	Winter Weather		0	0	0	0
Northern Lea County (zone)	3/15/2005	Winter Storm		0	0	0	0
Southern Lea County (zone)	1/18/2007	Winter Storm		0	0	0	0
Northern Lea County (zone)	1/18/2007	Heavy Snow		0	0	0	0
Central Lea County (zone)	1/18/2007	Winter Storm		0	0	0	0
Central Lea County (zone)	1/23/2007	Heavy Snow		0	0	0	0
Central Lea County (zone)	1/23/2007	Heavy Snow		0	0	0	0
Northern Lea County (zone)	12/1/2009	Winter Storm		0	0	0	0
Southern Lea County (zone)	12/3/2009	Winter Weather		0	0	0	0
Central Lea County (zone)	12/4/2009	Winter Weather		0	0	0	0
Northern Lea County (zone)	12/4/2009	Winter Weather		0	0	0	0

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Property Damage	Crop Damage
Northern Lea County (zone)	12/29/2009	Heavy Snow		0	0	0	0
Northern Lea County (zone)	2/22/2010	Heavy Snow		0	0	0	0
Northern Lea County (zone)	2/22/2010	Heavy Snow		0	0	0	0
Southern Lea County (zone)	12/23/2011	Heavy Snow		0	0	0	0
Northern Lea County (zone)	12/23/2011	Heavy Snow		0	0	0	0
Central Lea County (zone)	12/23/2011	Heavy Snow		0	0	0	0
Southern Lea County (zone)	1/9/2012	Heavy Snow		0	0	0	0
Central Lea County (zone)	1/9/2012	Heavy Snow		0	0	0	0
Southern Lea County (zone)	1/3/2013	Heavy Snow		0	0	0	0
Northern Lea County (zone)	11/22/2013	Heavy Snow		0	0	0	0
Central Lea County (zone)	12/26/2014	Heavy Snow		0	0	0	0
Northern Lea County (zone)	2/26/2015	Heavy Snow		0	0	0	0
Central Lea County (zone)	2/4/2020	Heavy Snow		0	0	0	0
Southern Lea County (zone)	1/9/2021	Heavy Snow		0	0	0	0
Central Lea County (zone)	1/9/2021	Heavy Snow		0	0	0	0
Central Lea County (zone)	1/9/2021	Heavy Snow		0	0	0	0
<b>Total</b>							

### 5.7.5 Probability of Future Occurrences

The probability of future Winter Storms (which takes into consideration overall climate change predictions for New Mexico) is shown in the table below, by jurisdiction. Though the frequency of events says winter weather events are likely, the jurisdictions have indicated that the probability of significant snow fall events are possible which is in line with the findings of New Mexico's Summary of Climate

## Hazard Profiles

Change Projections report (June 2023), “While these cold snaps are unlikely to disappear, there is a decreasing trend in the number of very cold with the statewide average of only 1 to 2 nights a year below freezing.”

### Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Unlikely: Less than 1% annual probability
- Possible: Between 1% and 10% annual probability
- Likely: Between 10% and 99% annual probability
- Highly Likely: 100% probability

Jurisdiction	Probability
Lea County (Unincorporated Area)	Possible
City of Eunice	Possible
Town of Hobbs	Possible
Town of Jal	Possible
Town of Lovington	Possible
City of Tatum	Possible

### 5.7.6 Vulnerability and Impact

#### People

Winter storms are deceptive killers because most deaths are indirectly related to the storm event. The leading cause of death during winter storms is from automobile or other transportation accidents. Exhaustion and heart attacks caused by overexertion are the two causes of winter storm-related deaths.

Power outages during very frigid winter storm conditions can result in a potentially dangerous situation. Elderly people account for the largest percentage of hypothermia victims. In addition, if the power is out for an extended period, residents are forced to find alternative means to heat their homes. The danger arises from carbon monoxide released from improperly ventilated heating sources such as space or kerosene heaters, furnaces, and blocked chimneys. House fires also occur more frequently in the winter due to lack of proper safety precautions when using an alternative heating source. According to the FEMA Resilience Analysis and Planning Tool (RAPT), approximately 60% of the households in the county are owner occupied and the remaining 40% are renters based on development trends is expected to remain static); this carries through the jurisdictions. The City of Hobbs has a high density of renters, (approximately 35%) that These renters could be without access to alternative heating sources, leaving them vulnerable to hypothermia and/or seeking dangerous heating alternatives.

#### First Responders

Adverse impact expected to be severe for unprotected personnel and moderate to light for trained, equipped, and protected personnel.

Fire suppression during winter storms may present a great danger because water supplies may freeze, and it may be difficult for firefighting equipment to get to the fire.

## Hazard Profiles

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Clearing ice- or snow-covered roads is also a problem; with limited equipment priority is given to main thoroughfares and secondary roads are untouched during the initial hours after a storm has passed.

### Continuity of Operations

Winter storm events can result in a loss of power which may impact operations. All jurisdictions are equally vulnerable to loss of power in a winter event. Downed trees, power lines and icy road conditions may prevent access to critical facilities and/or emergency equipment.

### Built Environment

Localized impact to facilities and infrastructure in the incident areas. Power lines and roads are most adversely affected.

### Economy

Local economy and finances may be adversely affected, depending on damage. Utility companies will strive to restore power as quickly as possible; however, businesses without power may be forced to close for an extended period, resulting in financial losses for the local economy.

### Natural Environment

Winter storm events may include ice or snow accumulation on trees which can cause large limbs, or even whole trees, to snap and potentially fall on residential homes, cars, or power lines. This potential for winter debris creates a dangerous environment to be outside in; significant injury may occur if a large limb snaps while a local resident is out driving or walking underneath it.

### Infrastructure & Critical Facilities

All infrastructure and critical facilities such as above ground power lines and roads are equally at risk since winter storms indiscriminately affect the entire planning area.

### Land Use & Development Trends

The County and its participating jurisdictions' predominant growth area is residential housing. Increased residential growth will not increase Lea County or its participating jurisdictions' vulnerability and risk to winter storms if the residential structures continue to be built under currently adopted international and state building codes, contemporary heating standards, and an appropriately accommodating power grid. Any buildings or infrastructure built in the future will have the same risk as other buildings or infrastructure built within the planning area. The effects of climate change currently do not affect the impacts of this hazard. While there is uncertainty in projecting future changes, there is high confidence in understanding the effect of human activities changing the climate in unprecedented ways. Lea County and its participating jurisdictions will make efforts to incorporate new and relevant data as it becomes available in predicting future impacts at the local level.

## HYDROLOGIC HAZARDS

## 5.8 Flood

### 5.8.1 Background

According to the Natural Resources Defense Council (NRDC), floods are the most common (and often most deadly) natural disasters in the United States. Floods result from excessive precipitation and can be classified under two categories: general floods, precipitation over a given river basin for an extended period along with storm-induced wave action, and flash floods, the product of heavy localized precipitation in a brief time over a given location. The severity of a flooding event is typically determined by a combination of several major factors, including stream and river basin topography and physiography, precipitation and weather patterns, recent soil moisture conditions, and the degree of vegetative clearing and impervious surface.

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 a stream or river's watershed. Coastal flooding is typically a result of storm surge, wind-driven waves, and heavy rainfall produced by hurricanes, tropical storms, and other large coastal storms. Urban flooding occurs where manufactured development has obstructed the natural flow of water and decreased the ability of natural groundcover to absorb and retain surface water runoff.

Most flash flooding is caused by slow-moving thunderstorms in a local area or by heavy rains associated with hurricanes and tropical storms. However, flash flooding events may also occur from a dam or levee failure within minutes or hours of heavy amounts of rainfall or from a sudden release of water held by a retention basin or other stormwater control facility. Although flash flooding occurs most often along mountain streams, it is also common in urbanized areas where much of the ground is covered by impervious surfaces.

The periodic flooding of lands adjacent to rivers, streams, and shorelines (land known as a 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 an increasing recurrence interval.

## Hazard Profiles

Floodplains are designated by the frequency of floods that is large enough to cover them. For example, the 10-year floodplain will be covered by the 10-year flood and the 100-year floodplain by the 100-year flood. Flood frequencies, such as the 100-year flood, are determined by plotting a graph of the size of all known floods for an area and determining how often floods of a particular size occur. Another way of expressing the flood frequency is the chance of occurrence each year, which is the percentage of the probability of flooding each year. For example, the 100-year flood has a 1 percent chance of occurring in any given year and the 500-year flood has a 0.2 percent chance of occurring in any given year.

### 5.8.2 Location and Extent

Many factors affect the type and severity of flooding within Lea County and its participating jurisdictions including topography, urban development and infrastructure, and geology. Flooding in mountainous or elevated areas is unusual because streams tend to be faster flowing and flood waters drain quickly. Anecdotal information exchange of past experiences among the jurisdictions led to conclusions regarding risk that may differ than what is presented on most current maps provided.

Intense flooding will create havoc in any jurisdiction affected. The predicative magnitude of these floods is indeterminate and can vary. ~~However, based on the variation of impacts, floods can cause minimal damage in the form of just inches of water to houses and critical facilities being completely submerged in over 12 feet of water.~~ The magnitude of these floods is indeterminate and varies; however, some areas have established a base flood elevation (BFE) to use as a determinate for construction and mitigation activities. Intense and widespread flooding can trap people and entire communities without basic goods or services. Any amount of damage can render a structure unusable for as long as recovery operation would take depending on the level of damage. [For detailed flood info the existing FEMA study is available on FEMA Map Service Center \(MSC.\) and the communities Flood Insurance studies \(FIS\).](https://msc.fema.gov/portal/advanceSearch#searchresultsanchor)  
<https://msc.fema.gov/portal/advanceSearch#searchresultsanchor>  
<https://msc.fema.gov/portal/advanceSearch#searchresultsanchor>

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Table 5-20: Flood Zone Classifications

Zone Class	Description
Zone A	An area inundated by 1% annual chance of flooding, for which no BFEs (Base Flood Elevations) have been determined. (100-Year Floodplain)
Zone AE	An area inundated by 1% annual chance of flooding, for which BFEs have been determined. (100-Year Floodplain)
Zone X (shaded)	Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood. An area inundated by 0.2% annual chance of flooding.

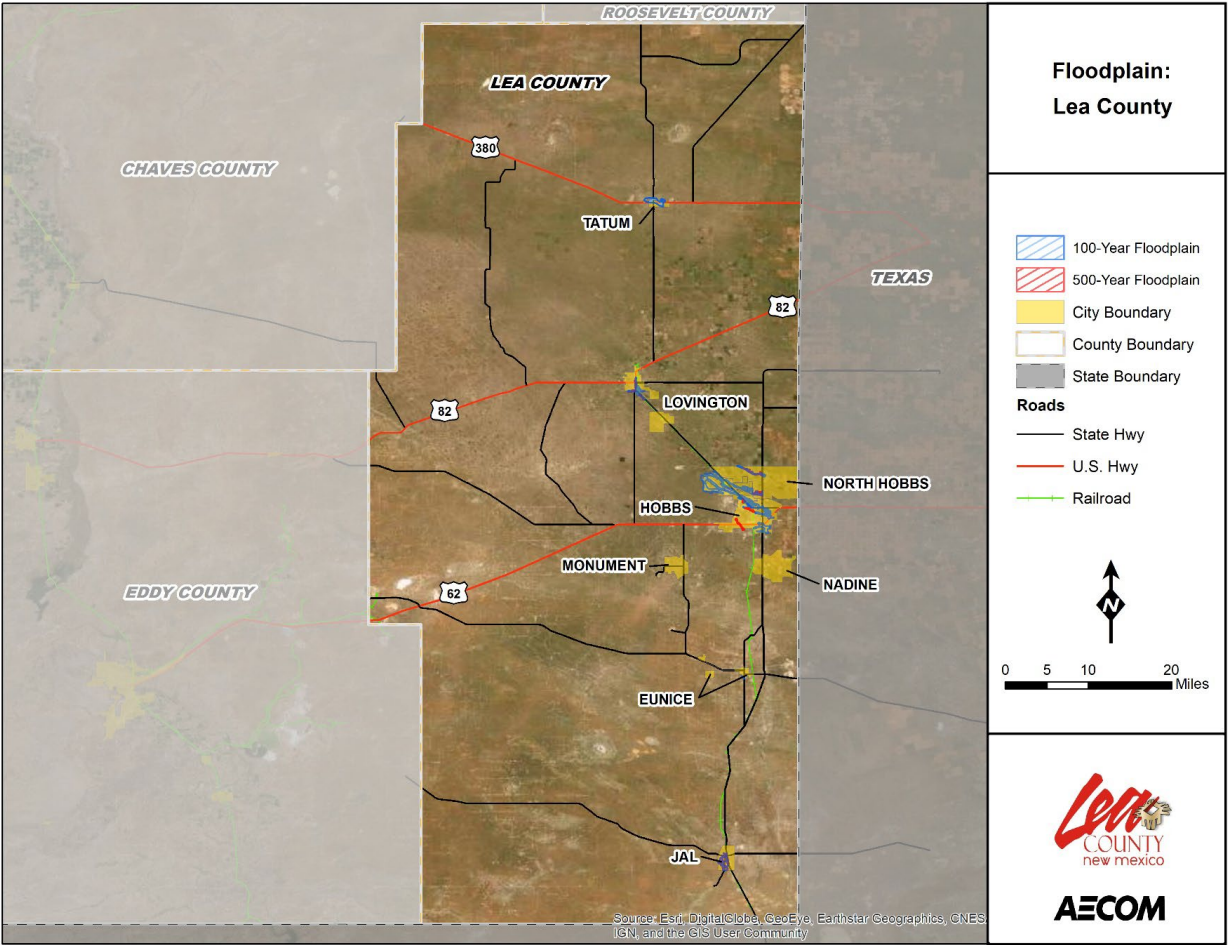


Figure 5-8: Flood Hazard Areas – Lea County

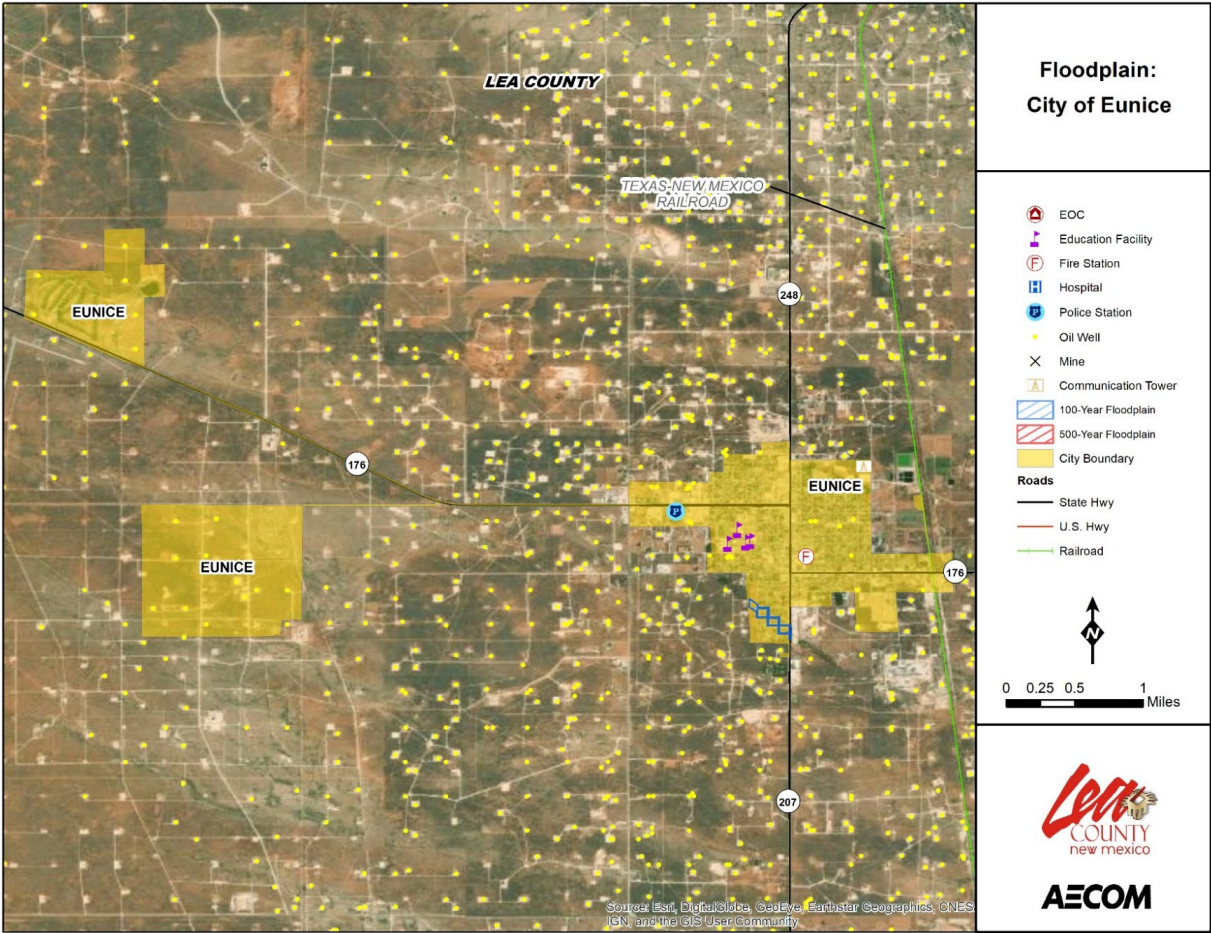


Figure 5-9: Flood Hazard Areas – Eunice

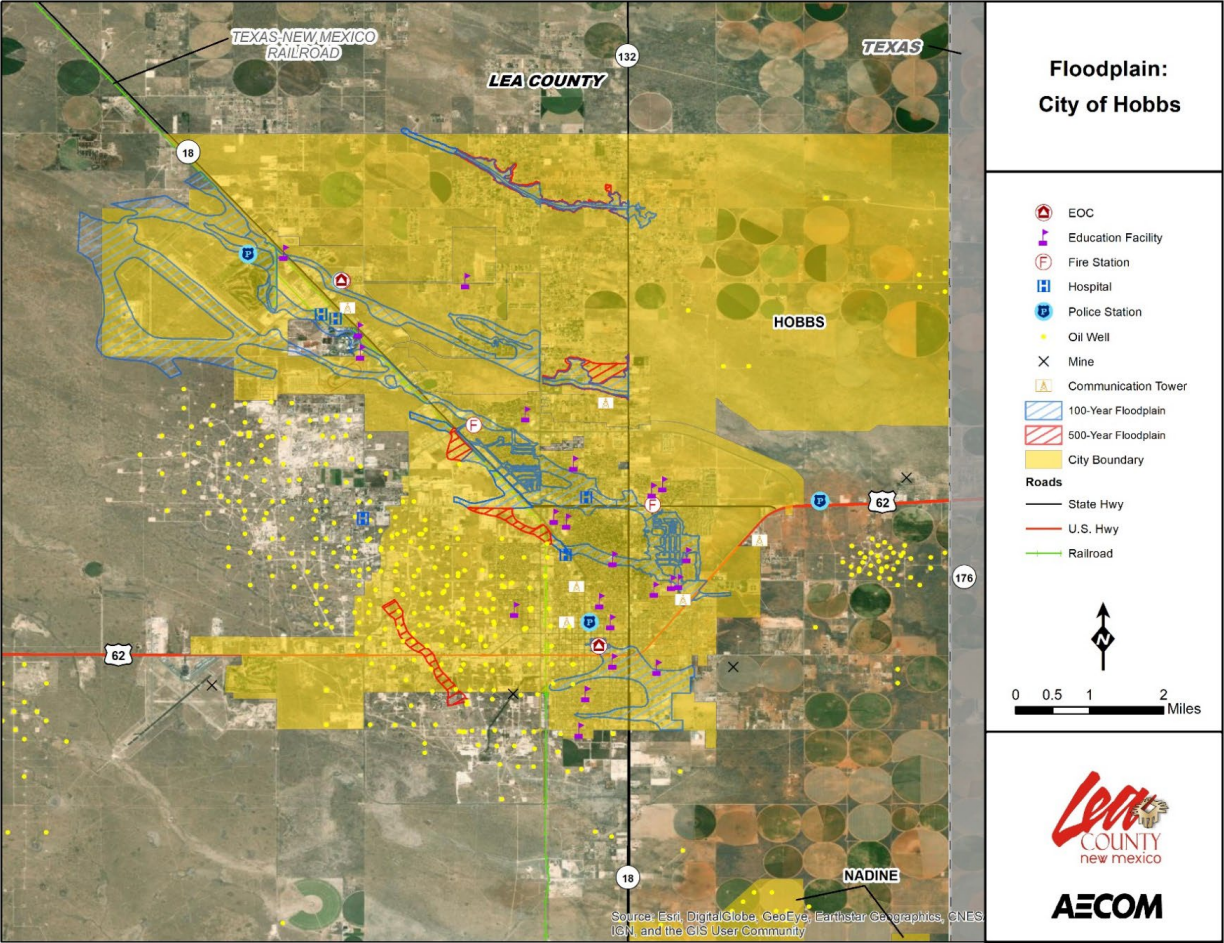


Figure 5-10: Flood Hazard Areas - Hobbs

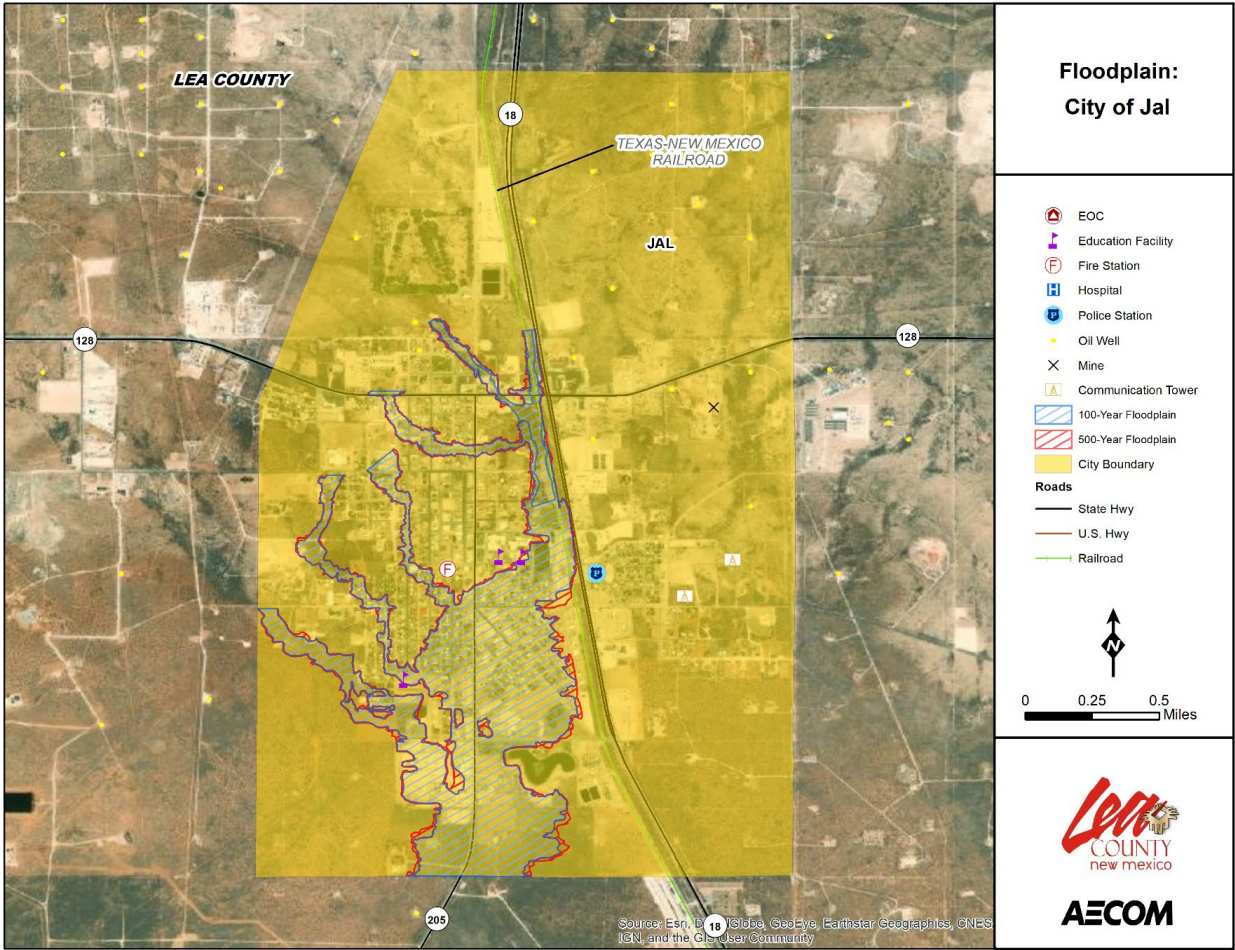


Figure 5-11: Flood Hazard Areas – Jal

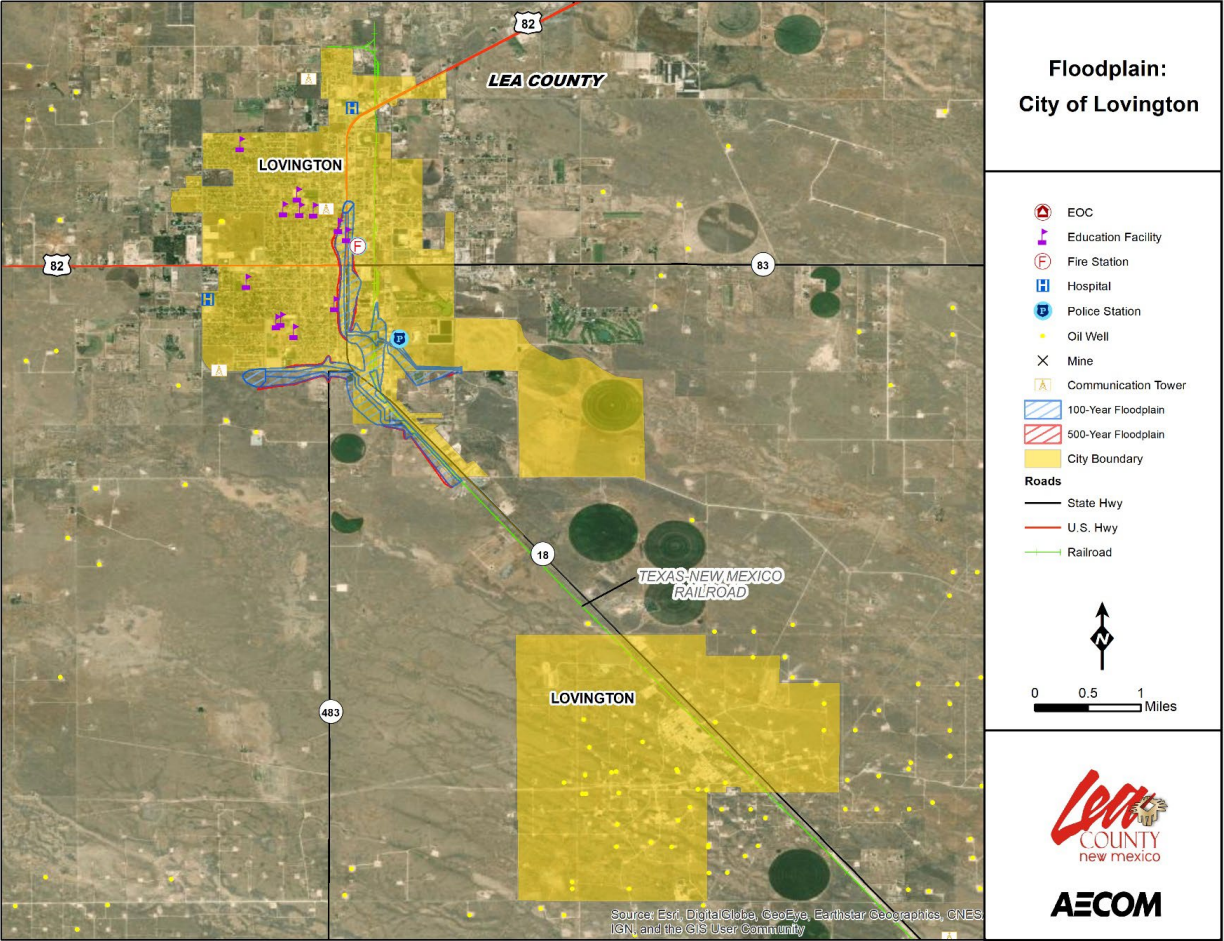


Figure 5-12: Flood Hazard Areas – Lovington

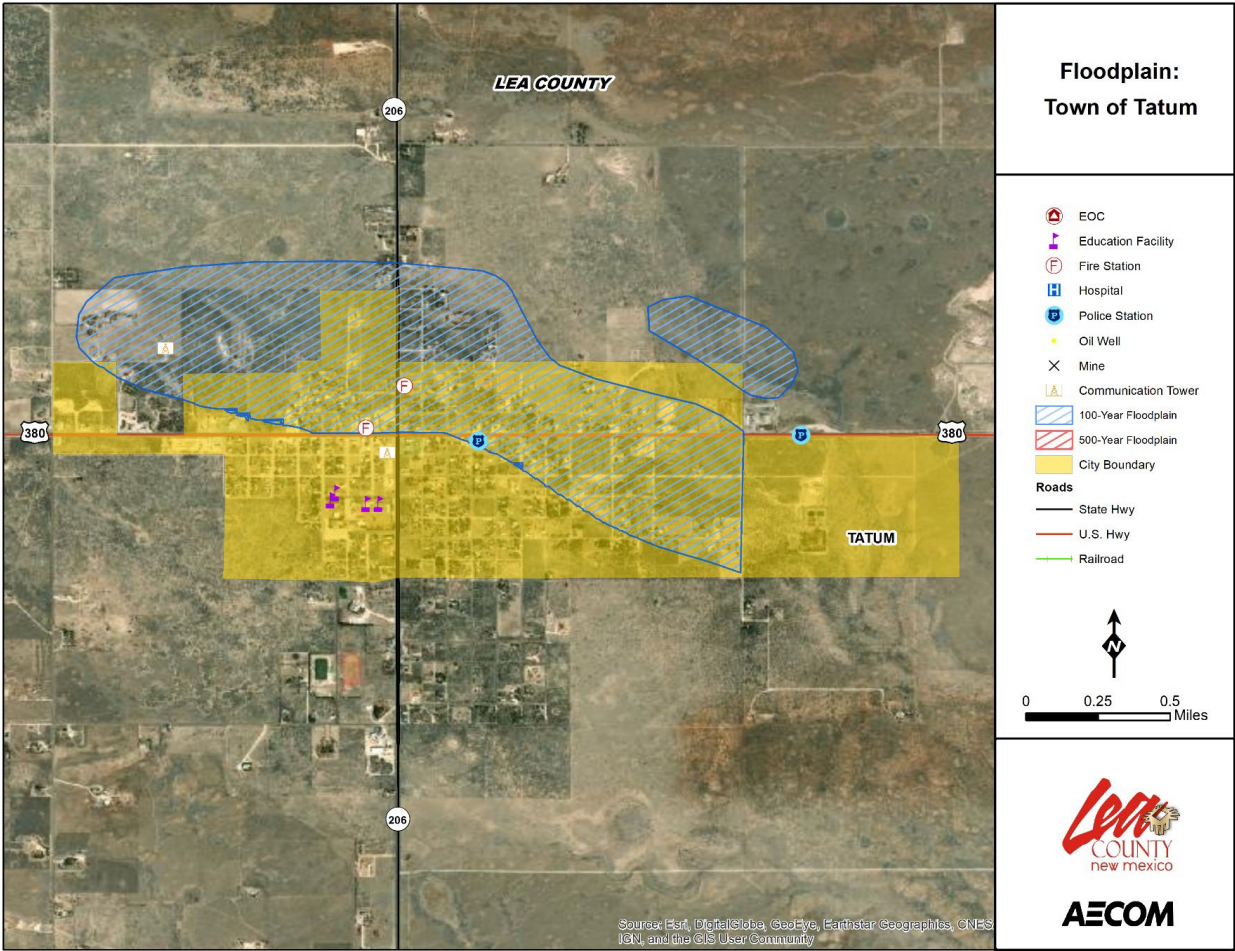


Figure 5-13: Flood Hazard Areas – Tatum

### 5.8.3 Historical Occurrences

The following historical occurrences ranging from 1996 to 2021 have been identified based on the National Climatic Data Center (NCDC) Storm Events database as shown in **Table 5-21**. It should be noted that only those historical occurrences listed in the NCDC database are shown here and that other, unrecorded, or unreported events may have occurred within the planning area during this period. **Table 5-21: Historical Occurrences of Flooding Events (1996 to 2021)**

Location	Date	Type	Mag	Deaths	Injuries	Property Damage
Jal	7/8/1997	Flash Flood		0	0.00K	0.00K
Lovington	8/12/1997	Flash Flood		0	0.00K	0.00K
Jal	8/12/1997	Flash Flood		0	0.00K	0.00K
South Portion	4/30/1999	Flash Flood		0	0.00K	0.00K
Northeast Portion	5/24/1999	Flash Flood		0	0.00K	0.00K
Jal	5/24/1999	Flash Flood		0	0.00K	0.00K
Hobbs	5/24/1999	Flash Flood		0	0.00K	0.00K
South portion	5/28/1999	Flash Flood		0	0.00K	0.00K
Monument	6/19/1999	Flash Flood		0	0.00K	0.00K
East portion	6/1/2000	Flash Flood		0	0.00K	0.00K
Hobbs	6/28/2000	Flash Flood		0	0.00K	0.00K
Hobbs	6/23/2001	Flash Flood		0	0.00K	0.00K
Tatum	8/25/2001	Flash Flood		0	0.00K	0.00K
Eunice	8/1/2002	Flash Flood		0	0.00K	125000
Eunice	8/2/2002	Flood		0	0.00K	0.00K
Lovington	8/2/2002	Flash Flood		0	0.00K	0.00K
Tatum	8/21/2002	Flood		0	0.00K	0.00K
Hobbs	10/8/2002	Flash Flood		0	0.00K	20000
Hobbs	10/18/2002	Flash Flood		0	0.00K	0.00K
Hobbs	8/29/2003	Flash Flood		0	0.00K	30000
Eunice	4/3/2004	Flash Flood		0	0.00K	0.00K
Lovington	5/9/2004	Flash Flood		0	0.00K	10000
Hobbs	6/24/2004	Flash Flood		0	0.00K	20000
Jal	6/29/2004	Flash Flood		0	0.00K	0.00K
Jal	7/24/2004	Flash Flood		0	0.00K	0.00K
Crossroads	8/4/2004	Flash Flood		0	0.00K	0.00K
Jal	8/31/2004	Flash Flood		0	0.00K	0.00K
Hobbs	9/4/2004	Flash Flood		0	0.00K	0.00K
Eunice	9/21/2004	Flash Flood		0	0.00K	25000

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Property Damage
Monument	9/26/2004	Flash Flood		0	0.00K	0.00K
Eunice	9/26/2004	Flash Flood		0	0.00K	75000
Jal	9/27/2004	Flash Flood		0	0.00K	0.00K
Hobbs	9/29/2004	Flash Flood		0	0.00K	0.00K
Tatum	10/5/2004	Flash Flood		0	0.00K	30000
Hobbs	10/5/2004	Flash Flood		0	0.00K	0.00K
Jal	10/5/2004	Flash Flood		0	0.00K	0.00K
Lovington	5/28/2005	Flash Flood		0	0.00K	0.00K
Eunice	7/26/2005	Flash Flood		0	0.00K	0.00K
Lovington	8/13/2005	Flash Flood		0	0.00K	60000
Hobbs	8/13/2005	Flash Flood		0	0.00K	5000
Jal	8/14/2005	Flash Flood		0	0.00K	20000
Hobbs	8/14/2005	Flash Flood		0	0.00K	0.00K
Hobbs	8/20/2005	Flash Flood		0	0.00K	0.00K
Hobbs	8/23/2005	Flash Flood		0	0.00K	0.00K
Hobbs	9/17/2005	Flash Flood		0	0.00K	0.00K
Hobbs	10/5/2005	Flash Flood		0	0.00K	0.00K
Lovington	8/31/2006	Flash Flood		0	0.00K	0.00K
Lovington	3/23/2007	Flash Flood		0	0.00K	0.00K
Lovington	5/2/2007	Flash Flood		0	0.00K	0.00K
Hobbs	5/8/2007	Flash Flood		0	0.00K	0.00K
Hobbs	8/24/2007	Flash Flood		0	0.00K	20000
Jal	8/24/2007	Flash Flood		0	0.00K	0.00K
Hobbs	9/6/2007	Flash Flood		0	0.00K	0.00K
Hobbs	9/7/2007	Flash Flood		0	0.00K	0.00K
Hobbs	9/9/2007	Flash Flood		0	0.00K	0.00K
Hobbs	9/10/2007	Flash Flood		0	0.00K	0.00K
Hobbs	9/2/2008	Flash Flood		0	0.00K	0.00K
Hobbs	9/11/2008	Flash Flood		0	0.00K	0.00K
Jal	7/31/2009	Flash Flood		0	0.00K	0.00K
Hobbs	8/9/2009	Flood		0	0.00K	4000
Hobbs	6/17/2013	Flash Flood		0	0.00K	1000
Hobbs	6/17/2013	Flash Flood		0	0.00K	2000
Hobbs	6/17/2013	Flash Flood		0	0.00K	5000
South Lea Co Arpt	6/17/2013	Flash Flood		0	0.00K	0.00K

## Hazard Profiles

Location	Date	Type	Mag	Deaths	Injuries	Property Damage
Hobbs	6/17/2013	Flash Flood		0	0.00K	500
Hobbs Ind Arpt	7/17/2013	Flash Flood		0	0.00K	200
Hobbs	10/13/2013	Flash Flood		0	0.00K	1000
Lea co Hobbs Arpt	6/19/2014	Flash Flood		0	0.00K	0.00K
Eunice	9/11/2014	Flash Flood		0	0.00K	1000
Hobbs	9/18/2014	Flash Flood		0	0.00K	300
Buckeye	9/19/2014	Flash Flood		0	0.00K	120000
Hobbs	9/19/2014	Flash Flood		0	0.00K	1000
Oil center	9/19/2014	Flash Flood		0	0.00K	500
Monument	9/21/2014	Flash Flood		0	0.00K	400
Monument	9/21/2014	Flood		0	0.00K	1000
Hobbs	8/1/2015	Flash Flood		0	0.00K	3000
Jal	10/8/2015	Flash Flood		0	0.00K	1000
Hobbs	10/21/2015	Flash Flood		0	0.00K	3500
Monument	8/28/2016	Flash Flood		0	0.00K	1000
Hobbs Ind Arpt	8/28/2016	Flash Flood		0	0.00K	1000
Hobbs	8/28/2016	Flash Flood		0	0.00K	500
Jal	8/28/2016	Flash Flood		0	0.00K	1000
Maljamar	8/30/2016	Flash Flood		0	0.00K	500
Hobbs Ind Arpt	6/23/2017	Flash Flood		0	0.00K	10000
Hobbs	8/25/2018	Flash Flood		0	0.00K	8000

\*Preliminary Data

### 5.8.4 Repetitive Loss Properties

The State of New Mexico’s Floodplain Coordinator has confirmed that there is not any repetitive loss or severe repetitive loss structures in Lea County, Eunice, Hobbs, Jal, Lovington, or Tatum.

### 5.8.5 Probability of Future Occurrences

The probability of future (which takes into consideration overall climate change predictions for New Mexico), flooding is shown in the table below, by jurisdiction; though maps may show less of a risk of flooding currently.-

According to New Mexico’s Summary of Climate Change Projections report (June 2023), “Scientists know that a warmer climate holds more moisture, and it is likely that while total annual precipitation within New Mexico is not projected to change drastically, several important changes are likely to occur. First, extreme precipitation events will increase both in magnitude and frequency as the climate warms, both during and outside of monsoon season. These events can occur over a period of hours or days. These more intense periods of localized rainfall have the potential to create flash flood conditions.”

#### Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Unlikely: Less than 1% annual probability
- Possible: Between 1% and 10% annual probability
- Likely: Between 10% and 99% annual probability
- Highly Likely: 100% probability

Jurisdiction	Probability
Lea County (Unincorporated Area)	Possible
City of Eunice	Possible
Town of Hobbs	Possible
Town of Jal	Possible
Town of Lovington	Possible
City of Tatum	Possible

### 5.8.6 Vulnerability and Impact

#### People

Certain health hazards are common to flood events. While such problems are often not reported, three general types of health hazards accompany floods. The first comes from the water itself. Floodwaters carry anything that was on the ground that the upstream runoff picked up, including dirt, oil, animal waste, lawn, farm, and industrial chemicals. Pastures and areas where farm animals are kept, or their wastes are stored, can contribute polluted water to the receiving streams.

Floodwater also saturates the ground, which leads to infiltration into sanitary sewer lines. When wastewater treatment plants are flooded, there is nowhere for the sewage to flow. Infiltration and lack of treatment can lead to overloaded sewer lines that can back up into low-lying areas and homes. Even when it is diluted by flood waters, raw sewage can be a breeding ground for bacteria such as E. coli and other disease-causing agents. All jurisdictions in the County are susceptible to this type of impact. 15% of the county population is without access to a smartphone (which based on development trends is

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## Hazard Profiles

expected to remain static) and could be more adversely impacted than residents with access to emergency alerts regarding contaminated drinking water.

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The second type of health problem arises after most of the water has gone. Stagnant pools can become breeding grounds for mosquitoes, and wet areas of a building that have not been thoroughly cleaned breed mold and mildew. A building that is not thoroughly cleaned becomes a health hazard, especially for the elderly, who account for approximately 11% of the county population (which based on development trends is expected to remain static)-

Another health hazard occurs when heating ducts in a forced air system are not thoroughly cleaned after inundation. When the furnace or air conditioner is turned on, the sediments left in the ducts are circulated throughout the building and breathed in by the occupants. If the City water system loses pressure, a boil order may be issued to protect people and animals from contaminated water.

The third problem is the long-term psychological impact of having been through a flood and seeing one's home damaged and personal belongings destroyed. The cost and labor needed to repair a flood-damaged home puts a severe strain on people, especially the unprepared and uninsured. There is also a long-term problem for those who know that their homes could be flooded again. The resulting stress on floodplain residents takes its toll from aggravated physical and mental health problems; -approximately 12% of the county population has a disability (which based on development trends is expected to remain static) that could be exacerbated by such conditions.

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### First Responders

First responders are at risk when attempting to rescue people from their homes. They are subject to the same health hazards as the public mentioned above. Flood waters may prevent access to areas in need of response or the flood may prevent access to the critical facilities themselves which may prolong response time.

### Continuity of Operations

Floods can severely disrupt normal operations, especially when there is a loss of power.

### Built Environment

Residential, commercial, and public buildings, as well as critical infrastructure such as transportation, water, energy, and communication systems may be damaged or destroyed by flood waters.

### Economy

During floods (especially flash floods), roads, bridges, farms, houses, and automobiles are destroyed. Additionally, the local government must deploy firefighters, police and other emergency response personnel and equipment to help the affected area. It may take years for the affected communities to be rebuilt and business to return to normal.

### Natural Environment

During a flood event, chemicals and other hazardous substances may end up contaminating local water bodies. Flooding kills animals and in general disrupts the ecosystem. Snakes and insects may also make their way to the flooded areas.

### Infrastructure & Critical Facilities

Infrastructure and critical facilities potentially impacted by flood are noted in **Table 5-22**.

**Table 5-22: Infrastructure and Critical Facilities with Potential Impact from Flood**

Jurisdiction	100-year flood	500-year flood
Lea County (Unincorporated Area)	Oil Well (3), Mine (1), Communication Tower (1)	-
City of Eunice	Hospital (1)	EOC (1), Fire Station (1), Police Station (2), Communication Tower (1)
Town of Hobbs	Communication Tower (1)	-
Town of Jal	-	-
Town of Lovington	-	Fire Station (2), Police Station (1), Hospital (1)
City of Tatum	-	-

### Land Use & Development Trends

Lea County and its participating jurisdictions' predominant growth area is residential housing. Increased residential growth can increase or not increase a jurisdiction's risk of flooding. With the proper flood control policies, codes, zoning, and laws in place there is no reason new residential construction should occur within designated floodplains. If a community undergoes growth in a floodplain, the local government must ensure the structures are properly protected through insurance or other structural mitigation measures. Any buildings or infrastructure built in the future will have the same risk as other buildings or infrastructure built within or outside of the designated floodplains. [The effects of climate change currently do not affect the impacts of this hazard. While there is uncertainty in projecting future changes, there is high confidence in understanding the effect of human activities changing the climate in unprecedented ways. Lea County and its participating jurisdictions will make efforts to incorporate new and relevant data as it becomes available in predicting future impacts at the local level.](#)

## OTHER HAZARDS

### 5.9 Wildfire

#### 5.9.1 Background

A wildfire is any outdoor fire (i.e., grassland, forest, brush land) that is not under control, supervised, or prescribed.<sup>2</sup> Wildfires are part of the natural management of forest ecosystems but may also be caused by human factors.

Nationally, most forest fires are started by negligent human behavior such as smoking in wooded areas or improperly extinguishing campfires. The second most common cause of wildfire is lightning.

There are three classes of wildland fires: surface fire, ground fire, and crown fire. A surface fire is the most common of these three classes and burns along the floor of a forest, moving slowly and killing or damaging trees. A ground fire (muck fire) is usually started by lightning or human carelessness and burns

<sup>2</sup> Prescription burning, or "controlled burn," undertaken by land management agencies is the process of igniting fires under selected conditions, in accordance with strict parameters.

on or below the forest floor. Crown fires spread rapidly by wind and move quickly by jumping along the tops of trees. Wildfires are usually signaled by dense smoke that fills the area for miles around.

Wildfire 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 hazards (such as tornadoes, hurricanes, etc.) increase the probability of wildfires by producing fuel in both urban and rural settings.

Many individual homes and cabins, subdivisions, resorts, recreational areas, organizational camps, businesses, and industries are located within high wildfire hazard areas. Furthermore, the increasing demand for outdoor recreation places more people in the wildlands during holidays, weekends, and vacation periods. Unfortunately, wildland residents and visitors are rarely educated or prepared for wildfire events that can sweep through the brush and timber and destroy property within minutes.

Wildfires can result in severe economic losses as well. Businesses that depend on timber, such as paper mills and lumber companies, experience losses that are often passed along to consumers through higher prices and sometimes jobs are lost. The excessive cost of responding to and recovering from wildfires can deplete state resources and increase insurance rates. The economic impact of wildfires can also be felt in the tourism industry if roads and tourist attractions are closed due to health and safety concerns.

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.

### 5.9.2 Location and Spatial Extent

The expansion of the WUI (Wildland Urban Interface) in recent decades has significant implications for wildfire management and its impact. The Wildland Urban Interface (WUI) creates an environment in which fire can move readily between structural and vegetation fuels. Two types of WUI are mapped: intermixed and interface. Intermix WUI are areas where housing and vegetation intermingle; interface WUI are areas with housing near dense, contiguous wildland vegetation.

The duration of a wildfire depends on the weather conditions, how dry it is, the availability of fuel to spread, and the ability of responders to contain and extinguish the fire. Historically, some wildfires have lasted only hours, while other fires have continued to spread and grow for an entire season. They spread quickly and often go unnoticed until they have grown large enough to signal by dense smoke. If fuel is available, and high wind speeds hit, a wildfire can spread over a large area in a short amount of time. These factors make the difference between small upstart fires easily controlled by local fire services to fires destroying thousands of acres requiring multiple state and federal assets for containment and suppression.

Given the WUI and Intermix depictions on the figures below, every jurisdiction is exposed to wildfire.

**Table 5-23** Below are details of the range of wildfire damages. The severity of the wildfire depends on a few quickly changing environmental factors. It is impossible to strategically estimate the severity of wildfire as the quickly changing factors, drought conditions and wind speed, have such a major influence on the wildfire conditions. If exposed to the WUI or Intermix, Lea County or its participating jurisdictions could experience a wildfire ranging from 0 to 4 on the Burn Severity Index.

Table 5-23: Burn Severity Index

Ranking	Burn Severity	Description	Characteristics
0	Unburned	The fire extinguished before reaching the microsite.	<ul style="list-style-type: none"> <li>• Leaf litter from previous years intact and uncharred.</li> <li>• No evidence of char around the base of trees and shrubs.</li> <li>• Pre-burn seedlings and herbaceous vegetation are present.</li> </ul>
1	Low Severity Burn	Surface fire which consumes litter yet has negligible effect on trees and understory vegetation.	<ul style="list-style-type: none"> <li>• Burned with partially consumed litter present.</li> <li>• Evidence of low flame heights around base of trees and shrubs (&lt;0.5 m).</li> <li>• No significant decreases in overstory &amp; understory basal area, diversity, or species richness from pre-burn assessments.</li> <li>• Usually burning below 80°C.</li> </ul>
2	Medium-Low Severity Burn	No significant differences in overstory density and basal area, and no significant differences in species richness. However, understory density, basal area, and species richness declined.	<ul style="list-style-type: none"> <li>• No litter present and 100% of the area covered by duff.</li> <li>• Flame lengths &lt;2m.</li> <li>• Understory mortality present, little or no overstory mortality.</li> </ul>
3	Medium-High Severity Burn	Flames that were slightly taller than those of medium-low intensity fires, but these fires had occasional hot spots that killed large trees, With significant reduction in the understory.	<ul style="list-style-type: none"> <li>• Soil exposure on 0-50% of the area.</li> <li>• Flame lengths &lt;6m.</li> <li>• High understory mortality with some overstory trees affected.</li> </ul>
4	High Severity Burn	Crown fires, usually a stand replacing burn with high overstory mortality.	<ul style="list-style-type: none"> <li>• Soil exposure &gt;50%.</li> <li>• Flame lengths &gt;6m.</li> <li>• Higher overstory mortality &gt;20%.</li> <li>• Usually burning above 800°C.</li> </ul>

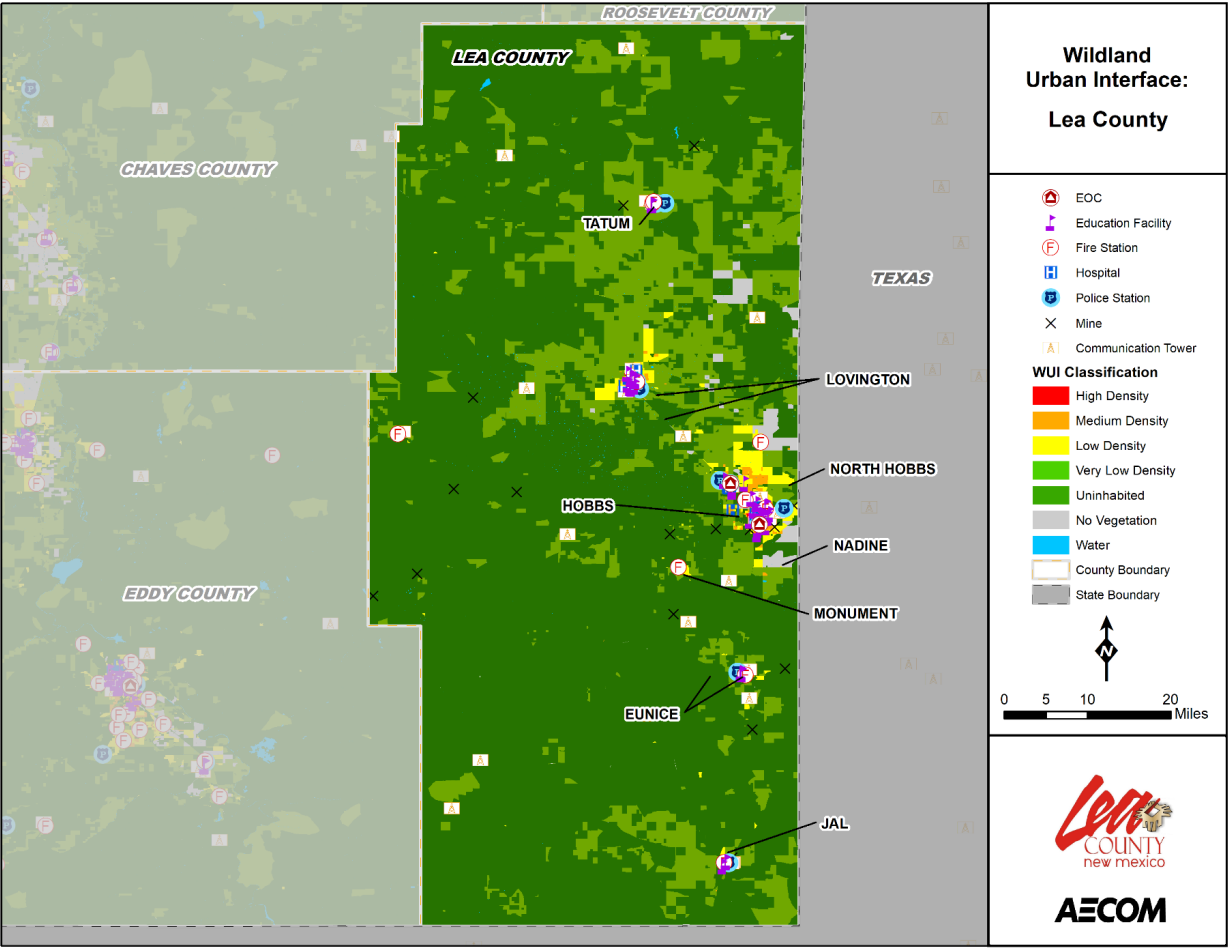


Figure 5-14: Wildland Urban Interface – Lea County

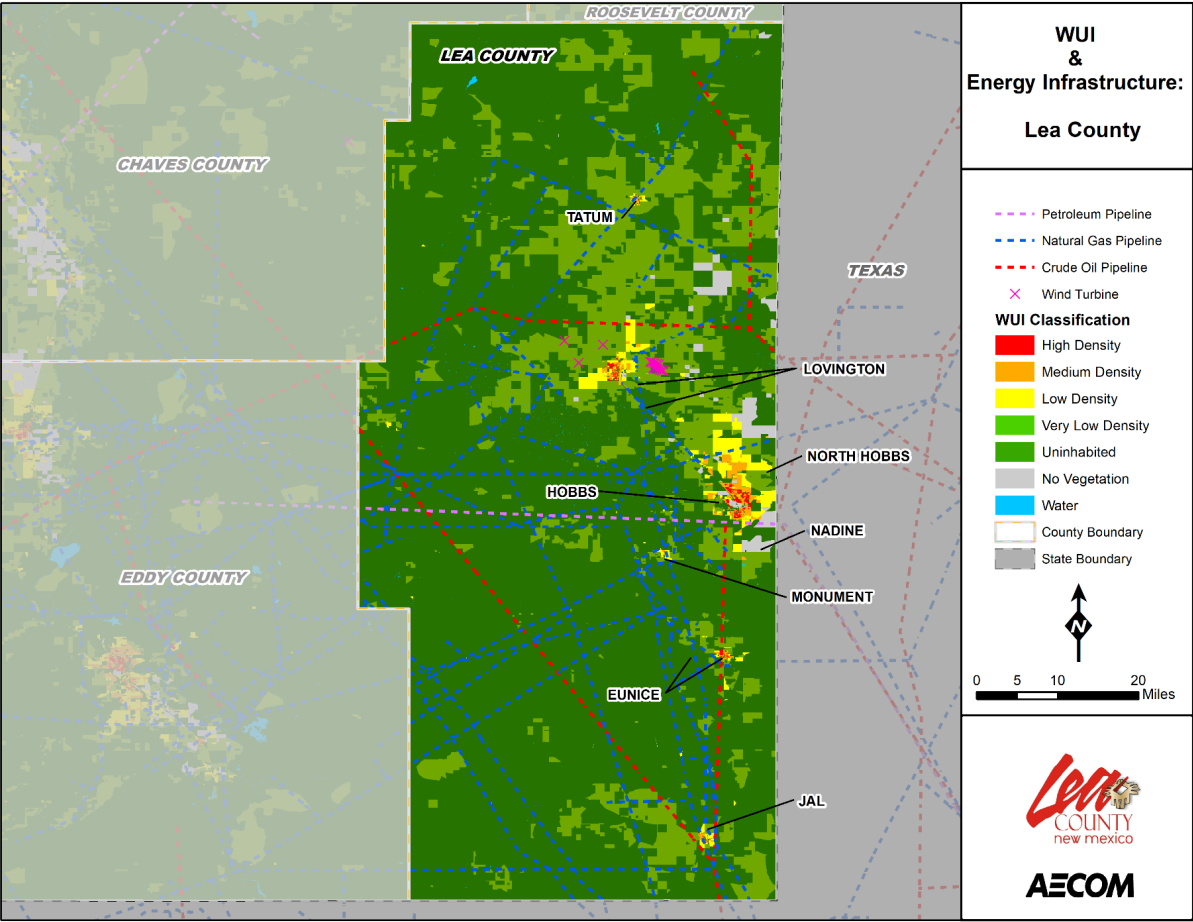


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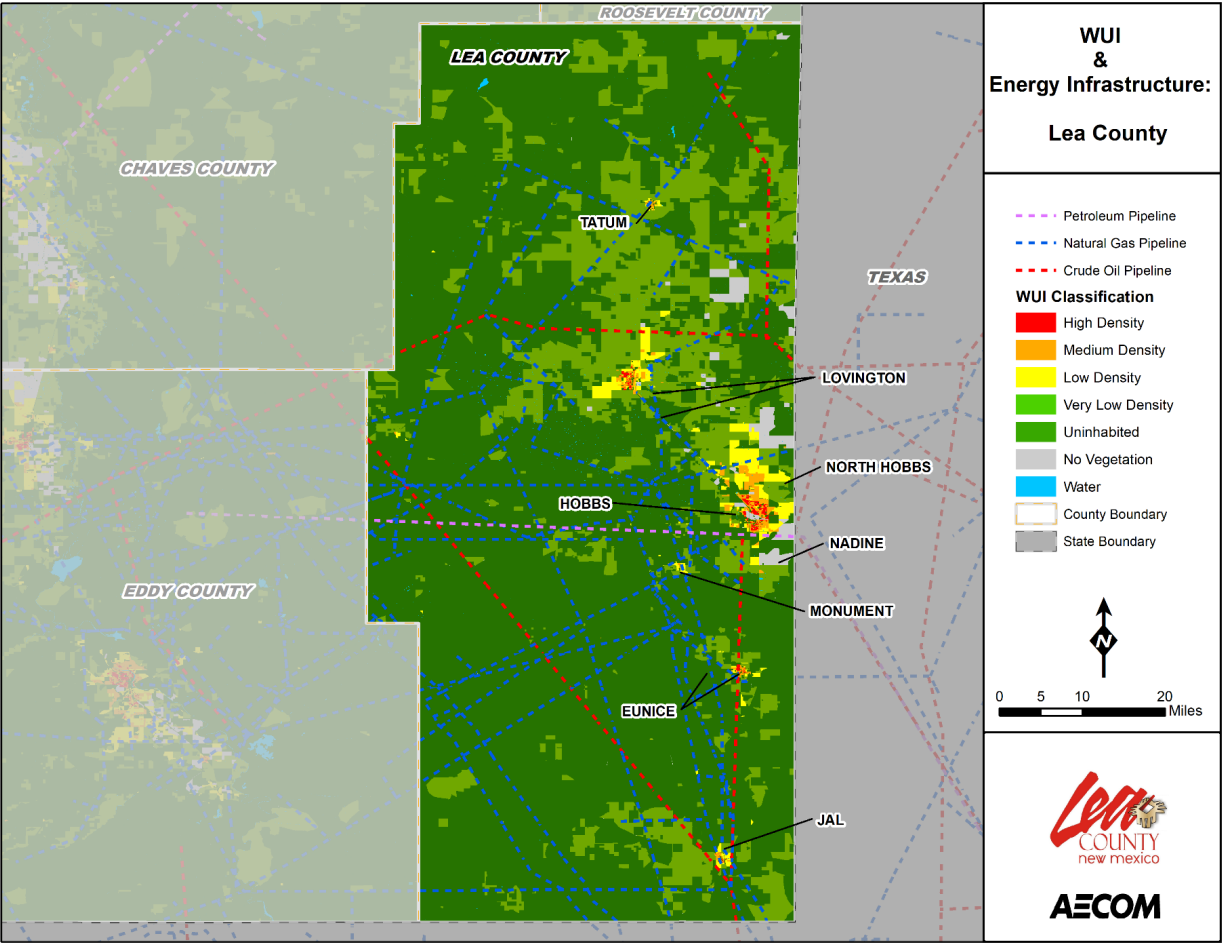


Figure 5-16: WUI & Energy Infrastructure – Lea County

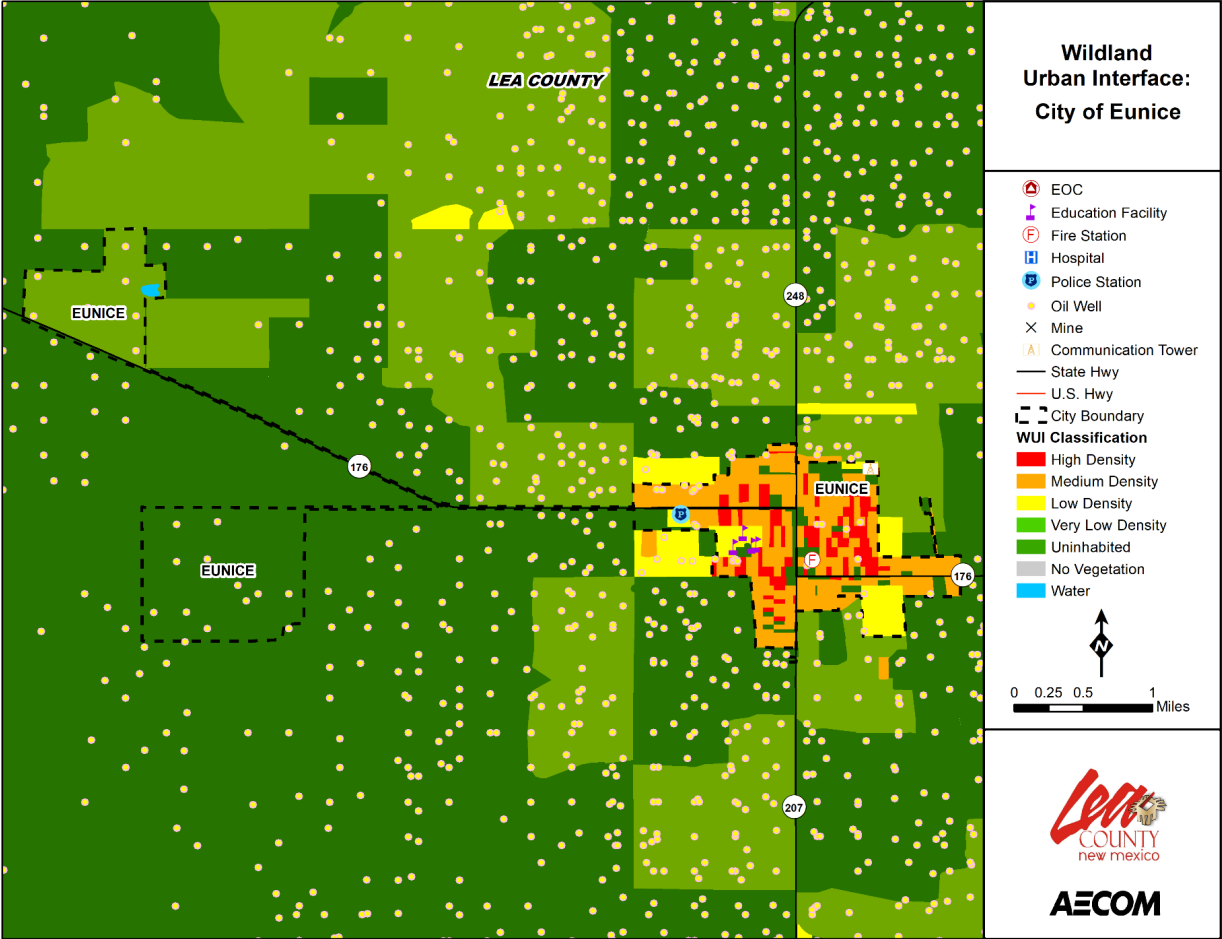


Figure 5-17: Wildland Urban Interface – Eunice

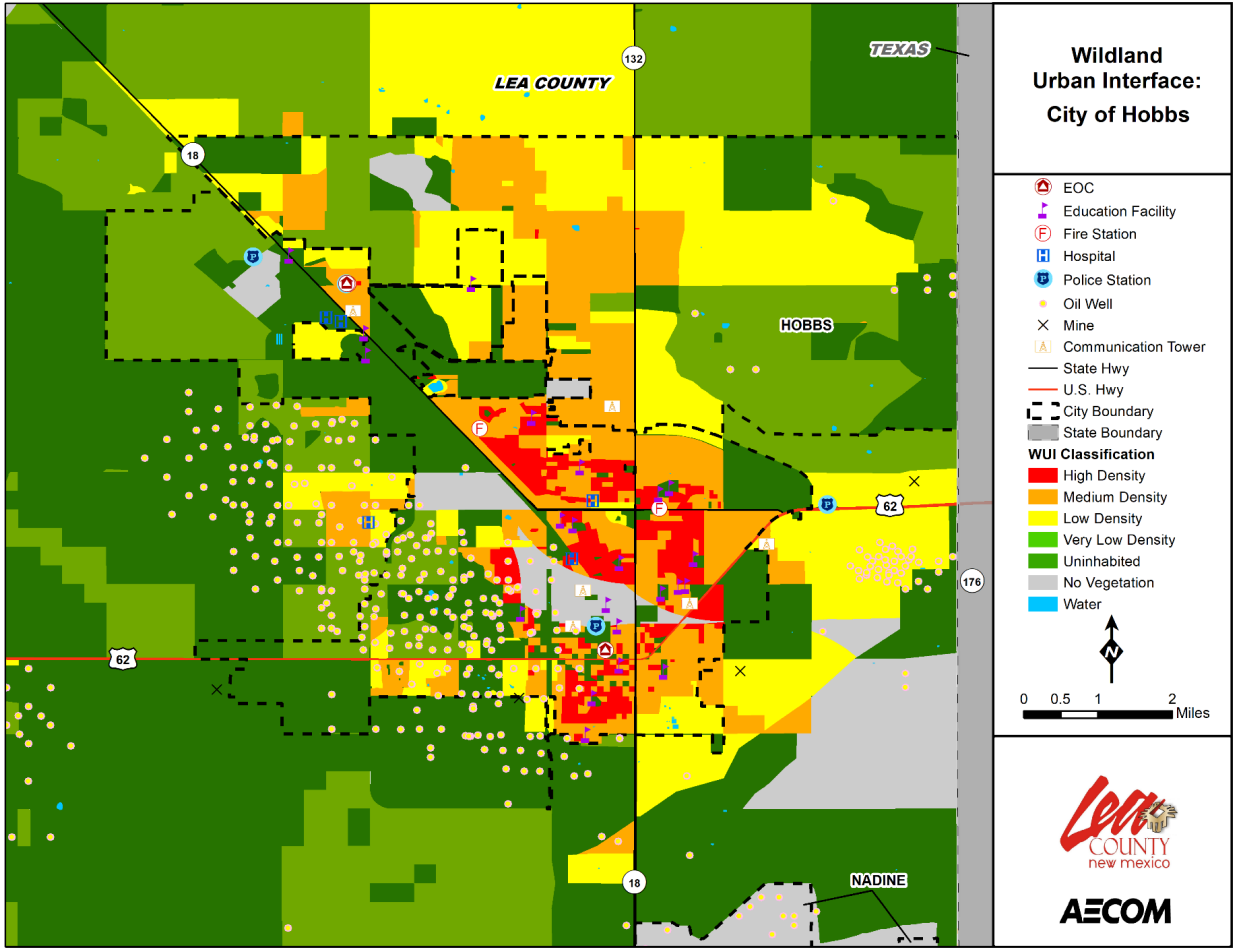


Figure 5-18: Wildland Urban Interface – Hobbs

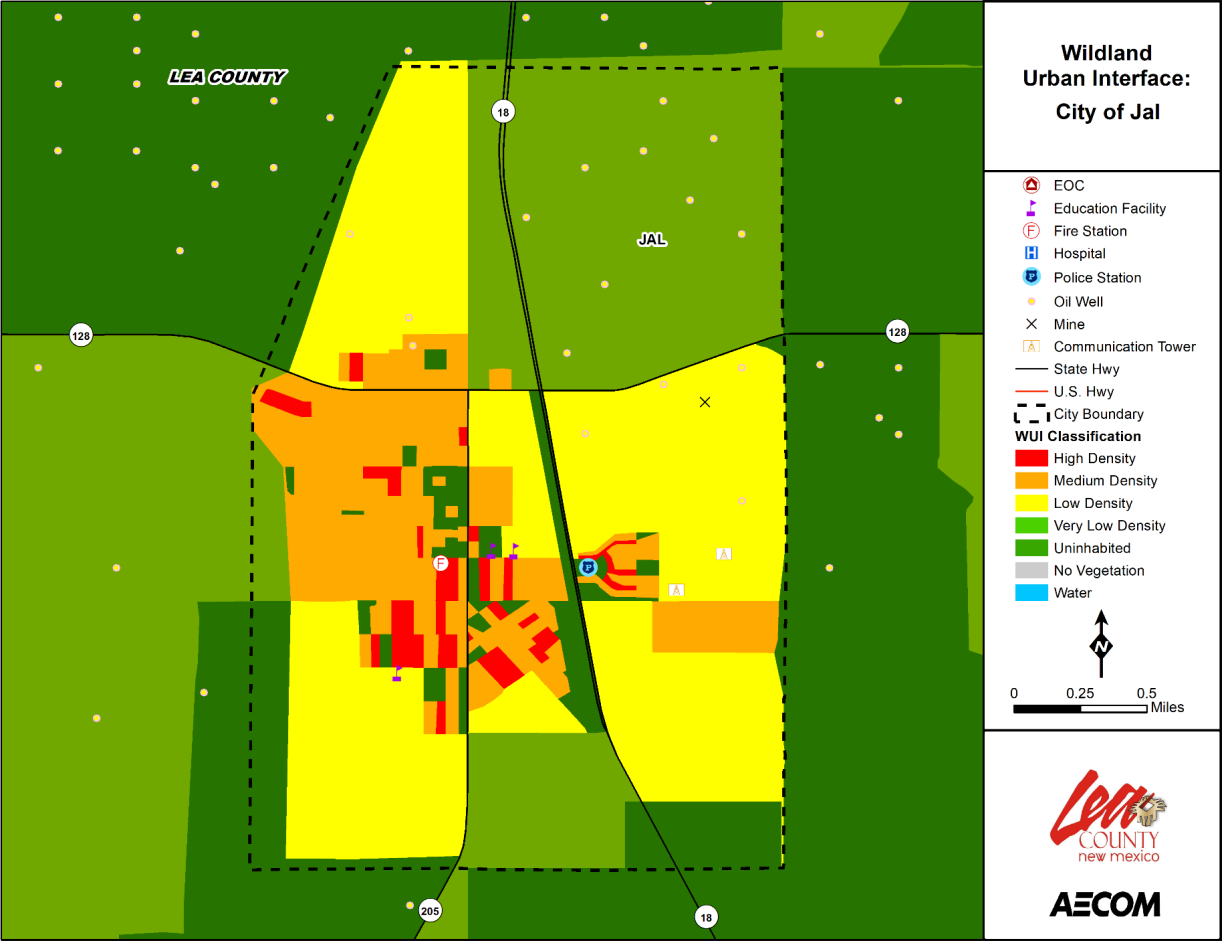


Figure 5-19: Wildland Urban Interface – Jal Arthur

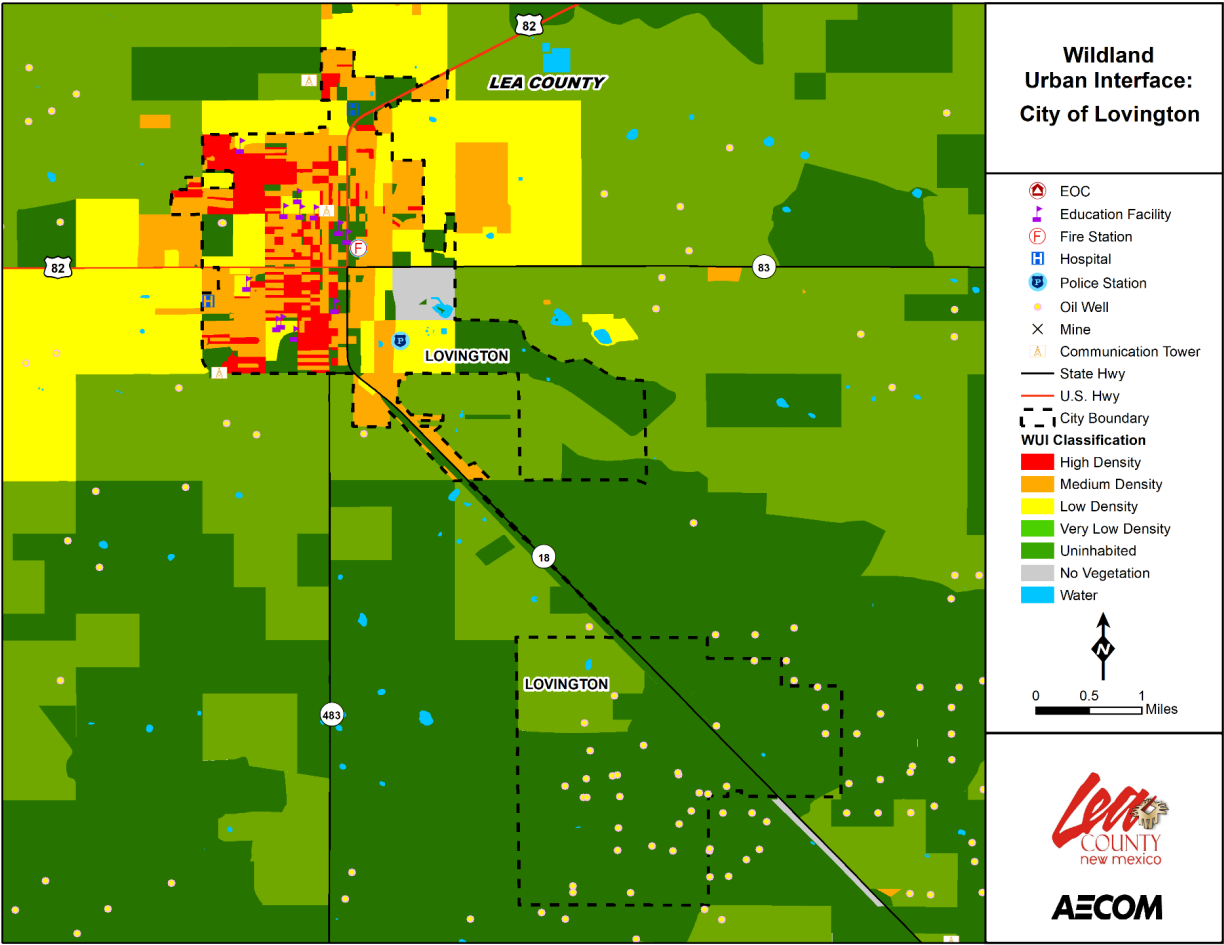


Figure 5-20: Wildland Urban Interface – Lovington

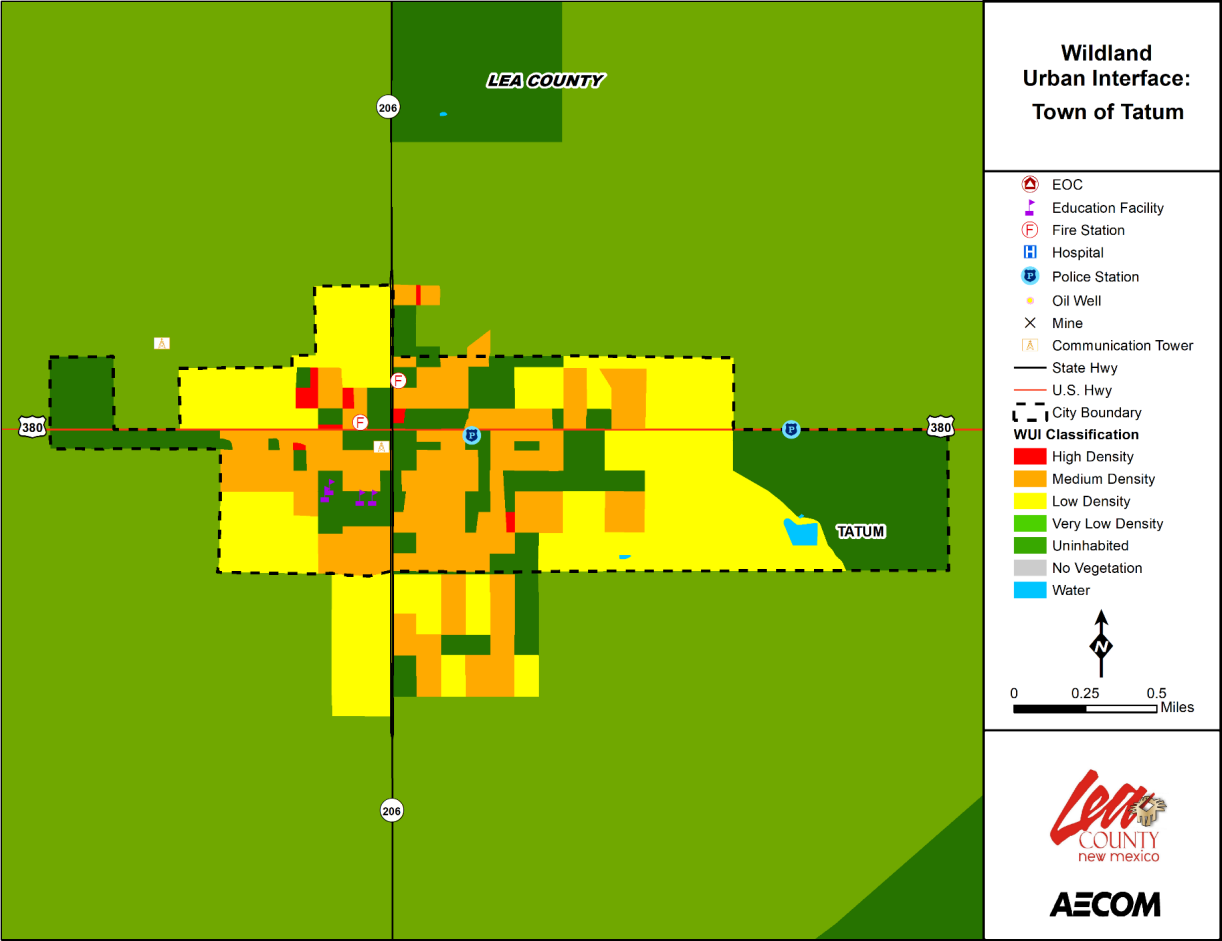


Figure 5-21: Wildland Urban Interface – Tatum

### 5.9.3 Extent

The 2022 New Mexico wildfire season is an ongoing series of wildfires burning throughout the U.S. state of New Mexico. As of June 21, 2022, 899,453 acres (363,996 ha) had burned across the state, including 31 fires greater than 100 acres (about half the total floor space of the Pentagon). The acres-burned figure for 2022 is far above the 1995-2015 average of approximately 270,000 acres (about half the area of Yosemite National Park) burned annually, with the fire season in the state expected to continue until the advent of the regular North American Monsoon weather pattern throughout the Southwestern United States in the summer. Several factors have contributed to the severe wildfire season. Most of the state is experiencing extreme to exceptional drought conditions as part of a broader severe drought in the North American west, fueled by climate change. A reduced 2021-2022 winter snowpack, extended periods of higher-than-normal temperatures, and sustained intense winds have resulted in extreme fire conditions and several significant incidents

The average size of wildfires in the region is typically small. Wildfire data was provided by the New Mexico Forestry Division through Community Wildfire Protection Plans and is reported annually by county. **Table 5-24** Below shows the number of acres burned for each community in the last five years. There may have been multiple acres burned not depicted by this table due to the small size of the fire and/or the unavailability of data at the local level.

**Table 5-24: Acres Burned in Each Jurisdiction (2016-2021)**

Jurisdiction	Total Acres Burned
<b>Lea County</b>	
City of Eunice	No Data Available
Town of Hobbs	No Data Available
Town of Jal	No Data Available
Town of Lovington	No Data Available
City of Tatum	No Data Available
Unincorporated Area	~5,000

### 5.9.4 Historical Occurrences

New Mexico had 672 fires and 123,792 acres (about half the area of San Antonio, Texas) burned in 2021. Lea County and its participating jurisdictions regularly experience wildfire events. According to Lea County, it had recorded fires burning more than 8,000 acres (about the area of Chicago O'Hare airport) in 2022 as of June 2022, though some state records show less acres burned. The New Mexico Forestry Division does not have any recorded deaths or injuries from wildfire in the County or its participating jurisdictions. The average wildfire in Lea County burns approximately 400 acres (about half the area of Central Park in New York City).

**Table 5-25: Summary Table of Annual Wildfire Occurrences (2016-2022)**

Event Year	Acres Burned	Event Count
2016	210	2

## Hazard Profiles

Event Year	Acres Burned	Event Count
2017	934	4
2018	1,056	7
2019	873	2
2020	1,689	1
2021	412.8	3
2022	8,333	2
<b>Total</b>	<b>13,507</b>	<b>21</b>

### 5.9.5 Probability of Future Occurrences

The probability of future Wildfire (which takes into consideration overall climate change predictions for New Mexico) is shown in the table below, by jurisdiction. According to New Mexico's *Summary of Climate Change Projections* report (June 2023), New Mexico has a higher wildfire risk than 78% of U.S. and already has 50 more days a year of extreme wildfire risk than it did in the 1970s."

#### Definitions for Descriptors Used for Probability of Future Hazard Occurrences

- Unlikely: Less than 1% annual probability
- Possible: Between 1% and 10% annual probability
- Likely: Between 10% and 99% annual probability
- Highly Likely: 100% probability

Jurisdiction	Probability
Lea County (Unincorporated Area)	Likely
City of Eunice	Possible
Town of Hobbs	Possible
Town of Jal	Possible
Town of Lovington	Likely
City of Tatum	Likely

### 5.9.6 Vulnerability and Impact

#### People

The potential health risk from wildfire events and the resulting diminished air quality is a concern. Exposure to wildfire smoke can cause serious health problems within a community, including asthma attacks and pneumonia, and can worsen chronic heart and lung diseases. Vulnerable populations include people with respiratory problems or with heart disease. Even healthy citizens may experience minor symptoms, such as sore throats and itchy eyes; approximately 12% of the county population has a disability (which based on development trends is expected to remain static) that could be acerbated by such conditions.

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### First Responders

Public and firefighter safety is the priority in all wildland fire management activities. Wildfires are a real threat to the health and safety of the emergency services. Most fire-fighters in rural areas are 'retained'. This means that they are part-time and can be called away from their normal work to attend to fires.

### Continuity of Operations

Wildfire events can result in a loss of power which may impact operations. Downed trees, power lines and damaged road conditions may prevent access to critical facilities and/or emergency equipment.

### Built Environment

Wildfires frequently damage community infrastructure, including roadways, communication networks and facilities, power lines, and water distribution systems. Restoring basic services is critical and a top priority. Efforts to restore roadways include the costs of maintenance and damage assessment teams, field data collection, and replacement or repair costs. Direct impacts to municipal water supply may occur through contamination of ash and debris during the fire, destruction of aboveground distribution lines, and soil erosion or debris deposits into waterways after the fire. Utilities and communications repairs are also necessary for equipment damaged by a fire. This includes power lines, transformers, cell phone towers, and phone lines.

Lovington has good road access, a fire station within the community and draft sites for hydrants. The hazard is found in the large tracts of grazed pastureland around Ranch homes on the outer edges of the community. Hobbs has good road access with three fire stations amid the community, and draft sites. The topography is flat, and the fuels are medium to heavy with some defensible space around the structures. Eunice has more than one primary road into and out of the community that is wide and smooth with street signs. The fuels in the community are light to medium and the topography mild. There are little defensible space treatments around homes, one fire station in the community. Jal has draft sites within the community. The topography is moderate. There are two primary roads into and out of the community. The fuels are medium with no defensible space treatments around residences. All communities are creating fuel breaks around the outer edges of their vulnerable areas.

### Economy

Wildfires can have significant short-term and long-term effects on the local economy. Wildfires, and extreme fire danger, may reduce recreation and tourism in and near the fires. If aesthetics are impaired, local property values can decline. Extensive fire damage to trees can significantly alter the timber supply, both through a short-term surplus from timber salvage and a longer-term decline while the trees regrow. Water supplies can be degraded by post-fire erosion and stream sedimentation.

Wildfires can also have positive effects on local economies. Positive effects come from economic activity generated in the community during fire suppression and post-fire rebuilding. These may include forestry support work, such as building fire lines and performing other defenses, or providing firefighting teams with food, ice, and amenities such as temporary shelters and washing machines.

### Natural Environment

Wildfires cause damage to the natural environment, killing vegetation and occasionally animals. The risk of floods and debris flows increases due to the exposure of bare ground and the loss of vegetation. In addition, the secondary effects of wildfires, including erosion, landslides, introduction of invasive species, and changes in water quality, are often more disastrous than the fire itself.

## Hazard Profiles

Tatum has one volunteer fire department within the community and readily available draft sites and hydrants. There are scattered Ranch homes along the district where grazed pasture grass, mesquite and open ranges are found. The Core Team recommended the reduction of fuels along the city boundaries within the community.

### Infrastructure & Critical Facilities

Infrastructure and critical facilities that could be impacted by wildfire are listed below.

**Table 5-26: Infrastructure and Critical Facilities with Potential Impact from Wildfire**

Jurisdiction	Low Density WUI	Medium Density WUI	High Density WUI
Lea County (Unincorporated Area)	Every facility in Lea County is in the WUI or a vegetated area.	Every facility in Lea County is in the WUI or a vegetated area.	Every facility in Lea County is in the WUI or a vegetated area.
City of Eunice	Education Facility (2), Fire Station (1), Police Station (1)	Communication Tower (1), Education Facility (2), Fire Station (1), Hospital (2), Police Station (2)	Education Facility (1)
Town of Hobbs	Fire Station (1)	Education Facility (1), Fire Station (2)	
Town of Jal	Fire Station (1)	Fire Station (1), Police Station (1)	
Town of Lovington	Fire Station (1), Police Station (1)	Education Facility (7), Fire Station (1)	Fire Station (1), Educational Facility (1)
City of Tatum	Fire Station (1)		

### Land Use & Development Trends

Lea County and its participating jurisdictions' predominant growth area is residential housing. Increased residential growth can significantly increase a jurisdiction's risk of wildfires. If the growth occurs in the WUI or Intermix the total risk increases. Lea County and its participating jurisdictions can mitigate the risk of this growth by introducing structural standards which help prevent the spread of wildfire, creating defensible spaces and buffer zones, or not allowing growth in WUI and Intermix areas. Any buildings or infrastructure built in the future will have the same risk as other buildings or infrastructure built within the identified hazard areas. [According to New Mexico's Summary of Climate Change Projections report \(June 2023\), "Wildfire risk is increasing \[in New Mexico\] because of climate change and is expected to continue to increase over time due to increasing development that pushes people closer to and into the wildland urban interface. Furthermore, factors that help wildfires ignite and spread are exacerbated by changes to wind, temperature, and precipitation because of climate change." With that said, climate change effects do not currently affect this hazard in this county in the near \(3 to 5 year\) future. While there is uncertainty in projecting future changes, there is high confidence in understanding the effect of human activities changing the climate in unprecedented ways. Lea County and its participating jurisdictions will make efforts to incorporate new and relevant climate change data as it becomes available in predicting future impacts at the local level.](#)

### 5.10 Conclusions on Hazard Risk

The hazard profiles presented in this section were developed using best available data and result in what may be considered principally a qualitative assessment as recommended by FEMA in its “How-to” guidance document titled *Understanding Your Risks: Identifying Hazards and Estimating Losses* (FEMA Publication 386-2). It relies heavily on historical and anecdotal data, stakeholder input, and professional and experienced judgment regarding observed and/or anticipated hazard impacts. It also carefully considers the findings in other relevant plans, studies, and technical reports.

#### 5.10.1 Priority Risk Index

To draw some meaningful planning conclusions on hazard risk for Lea County, the results of the hazard profiling process were used to generate countywide hazard classifications according to a “Priority Risk Index” (PRI). The purpose of the PRI is to categorize and prioritize all potential hazards for the County as high, moderate, or minimal risk. Combined with the asset inventory and quantitative vulnerability assessment provided in the next section, the summary hazard classifications generated with the PRI allows for the prioritization of those high hazard risks for mitigation planning purposes, and more specifically, the identification of hazard mitigation opportunities for the jurisdictions to consider as part of their proposed mitigation strategy.

The prioritization and categorization of identified hazards for the County is based principally on the PRI, a tool used to measure the degree of risk for identified hazards in a particular planning area. The PRI is used to assist the Lea County Hazard Mitigation Planning Team in gaining consensus on the determination of those hazards that pose the most significant threat to the County based on a variety of factors. The PRI is not scientifically based but is meant to be utilized as an objective planning tool for classifying and prioritizing hazard risks in the County based on standardized criteria.

The application of the PRI results in numerical values that allow identified hazards to be ranked against one another (the higher the PRI value, the greater the hazard risk). PRI values are obtained by assigning varying degrees of risk to five categories for each hazard (probability, impact, spatial extent, warning time, and duration). Each degree of risk has been assigned a value (1 to 4) and an agreed upon weighting factor<sup>3</sup>, as summarized in **Table 5-27**. To calculate the PRI value for a given hazard, the assigned risk value for each category is multiplied by the weighting factor. The sum of all five categories equals the final PRI value, as demonstrated in the example equation below:

$$\text{PRI VALUE} = [(\text{PROBABILITY} \times .30) + (\text{IMPACT} \times .30) + (\text{SPATIAL EXTENT} \times .20) + (\text{WARNING TIME} \times .10) + (\text{DURATION} \times .10)]$$

**Table 5-27: Priority Risk Index for Lea County**

PRI Category	Degree of Risk			Assigned Weighting Factor
	Level	Criteria	Index Value	
Probability	Unlikely	Less than 1% annual probability	1	30%
	Possible	Between 1 and 10% annual probability	2	
	Likely	Between 10 and 100% annual probability	3	
	Highly Likely	100% annual probability	4	

<sup>3</sup> The Planning Team, based upon any unique concerns or factors for the planning area, may adjust the PRI weighting scheme during future plan updates.

## Hazard Profiles

PRI Category	Degree of Risk			Assigned Weighting Factor
	Level	Criteria	Index Value	
Impact	Minor	Very few injuries, if any. Only minor property damage and minimal disruption to quality of life. Temporary shutdown of critical facilities.	1	30%
	Limited	Minor injuries only. More than 10% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one day.	2	
	Critical	Multiple deaths/injuries possible. More than 25% of property in affected areas was damaged or destroyed. Complete shutdown of critical facilities for more than one week.	3	
	Catastrophic	High number of deaths/injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for 30 days or more.	4	
Spatial Extent	Negligible	Less than 1% of areas affected	1	20%
	Small	Between 1 and 10% of areas affected	2	
	Moderate	Between 10 and 50% of areas affected	3	
	Large	Between 50 and 100% of areas affected	4	
Warning Time	More than 24 hours	Self-explanatory	1	10%
	12 to 24 hours	Self-explanatory	2	
	6 to 12 hours	Self-explanatory	3	
	Less than 6 hours	Self-explanatory	4	
Duration	Less than 6 hours	Self-explanatory	1	10%
	Less than 24 hours	Self-explanatory	2	
	Less than one week	Self-explanatory	3	
	More than one week	Self-explanatory	4	

### 5.10.2 Priority Risk Index Results

**Table 5-28 – Table 5-33** summarizes, for each jurisdiction, the degree of risk assigned to each category for all initially identified hazards based on the application of the PRI. Assigned risk levels were based on the detailed hazard profiles developed for this section and input from the Planning Team. The results were then used in calculating PRI values and making final determinations for the risk assessment.

## Hazard Profiles

**Table 5-28: Summary of PRI Results for Lea County**

Hazard	Category/Degree of Risk					
	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
Atmospheric Hazards						
Drought	Highly Likely	Minor	Large	More than 24 hours	More than 1 week	2.8
Extreme Heat	Possible	Minor	Large	More than 24 hours	Less than 1 week	2.4
Severe Storms	Likely	Critical	Large	6 to 12 hours	Less than 6 hours	3.3
Tornado	Possible	Critical	Small	Less than 6 hours	Less than 6 hours	2.7
Winter Storm	Possible	Limited	Moderate	More than 24 hours	Less than 1 week	2.5
Hydrologic Hazards						
Flood	Possible	Critical	Moderate	6 to 12 hours	Less than 1 week	3.0
Other Hazards						
Wildfire	Likely	Minor	Small	Less than 6 hours	Less than 1 week	2.3

\* Though flood maps may have demonstrated less risk of flooding to communities; the jurisdictions deemed moderate was the appropriate classification

**Table 5-29: PRI Results for Eunice**

Hazard	Category/Degree of Risk					
	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
Atmospheric Hazards						
Drought	Likely	Minor	Large	More than 24 hours	More than 1 week	2.5
Extreme Heat	Possible	Minor	Large	More than 24 hours	Less than 1 week	2.4
Severe Storms	Likely	Critical	Large	6 to 12 hours	Less than 6 hours	3.3
Tornado	Possible	Critical	Small	Less than 6 hours	Less than 6 hours	2.7
Winter Storm	Possible	Limited	Moderate	More than 24 hours	Less than 1 week	2.5
Hydrologic Hazards						
Flood	Possible	Critical	Moderate	6 to 12 hours	Less than 1 week	2.4
Other Hazards						
Wildfire	Possible	Minor	Small	Less than 6 hours	Less than 1 week	2.0

\* Though flood maps may have demonstrated less risk of flooding to communities; the jurisdictions deemed moderate was the appropriate classification

## Hazard Profiles

**Table 5-30: PRI Results for Hobbs**

Hazard	Category/Degree of Risk					
	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
Atmospheric Hazards						
Drought	Highly Likely	Minor	Large	More than 24 hours	More than 1 week	2.5
Extreme Heat	Possible	Minor	Large	More than 24 hours	Less than 1 week	2.4
Severe Storms	Likely	Critical	Large	6 to 12 hours	Less than 6 hours	3.3
Tornado	Possible	Critical	Small	Less than 6 hours	Less than 6 hours	2.7
Winter Storm	Possible	Limited	Moderate	More than 24 hours	Less than 1 week	2.5
Hydrologic Hazards						
Flood	Possible	Critical	Moderate	6 to 12 hours	Less than 1 week	3.0
Other Hazards						
Wildfire	Possible	Minor	Small	Less than 6 hours	Less than 1 week	2.0

\* Though flood maps may have demonstrated less risk of flooding to communities; the jurisdictions deemed moderate was the appropriate classification

**Table 5-31: PRI Results for Jal**

Hazard	Category/Degree of Risk					
	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
Atmospheric Hazards						
Drought	Highly Likely	Minor	Large	More than 24 hours	More than 1 week	2.5
Extreme Heat	Possible	Minor	Large	More than 24 hours	Less than 1 week	2.4
Severe Storms	Likely	Critical	Large	6 to 12 hours	Less than 6 hours	3.3
Tornado	Possible	Critical	Small	Less than 6 hours	Less than 6 hours	2.7
Winter Storm	Possible	Limited	Moderate	More than 24 hours	Less than 1 week	2.5
Hydrologic Hazards						
Flood	Possible	Critical	Moderate	6 to 12 hours	Less than 1 week	2.4
Other Hazards						
Wildfire	Possible	Minor	Small	Less than 6 hours	Less than 1 week	2.0

\* Though flood maps may have demonstrated less risk of flooding to communities; the jurisdictions deemed moderate was the appropriate classification

## Hazard Profiles

**Table 5-32: PRI Results for Lovington**

Hazard	Category/Degree of Risk					
	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
<b>Atmospheric Hazards</b>						
Drought	Highly Likely	Minor	Large	More than 24 hours	More than 1 week	2.5
Extreme Heat	Possible	Minor	Large	More than 24 hours	Less than 1 week	2.4
Severe Storms	Likely	Critical	Large	6 to 12 hours	Less than 6 hours	3.3
Tornado	Possible	Critical	Small	Less than 6 hours	Less than 6 hours	2.7
Winter Storm	Possible	Limited	Moderate	More than 24 hours	Less than 1 week	2.5
<b>Hydrologic Hazards</b>						
Flood	Possible	Critical	Moderate	6 to 12 hours	Less than 1 week	3.0
<b>Other Hazards</b>						
Wildfire	Likely	Minor	Small	Less than 6 hours	Less than 1 week	2.3

\* Though flood maps may have demonstrated less risk of flooding to communities; the jurisdictions deemed moderate was the appropriate classification

**Table 5-33: PRI Results for Tatum**

Hazard	Category/Degree of Risk					
	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
<b>Atmospheric Hazards</b>						
Drought	Highly Likely	Minor	Large	More than 24 hours	More than 1 week	2.5
Extreme Heat	Possible	Minor	Large	More than 24 hours	Less than 1 week	2.4
Severe Storms	Likely	Critical	Large	6 to 12 hours	Less than 6 hours	3.3
Tornado	Possible	Critical	Small	Less than 6 hours	Less than 6 hours	2.7
Winter Storm	Possible	Limited	Moderate	More than 24 hours	Less than 1 week	2.5
<b>Hydrologic Hazards</b>						
Flood	Possible	Critical	Moderate	6 to 12 hours	Less than 1 week	3.0
<b>Other Hazards</b>						
Wildfire	Likely	Minor	Small	Less than 6 hours	Less than 1 week	2.3

## Hazard Profiles

\* Though flood maps may have demonstrated less risk of flooding to communities; the jurisdictions deemed moderate was the appropriate classification

### 5.11 Final Determinations

The conclusions drawn from the hazard profiling process for the County, including the PRI results and input from the Hazard Mitigation Planning Team, resulted in the classification of risk for each identified hazard according to three categories: High Risk, Moderate Risk, and Low Risk (**Table 5-34**). For the purposes of these classifications, risk is expressed in relative terms according to the estimated impact that a hazard will have on human life and property throughout all the County. It should be noted that although some hazards are classified below as posing minimal risk, their occurrence of varying or unprecedented magnitudes is still possible in some cases and their assigned classification will continue to be evaluated during future updates.

No changes in development impacting the jurisdiction's overall vulnerability have occurred since the last plan was approved for all hazards addressed.

**Table 5-34: Conclusions on Hazard Risk for Lea County**

<b>HIGH RISK</b>	Severe Storms, Drought, Wildfire
<b>MODERATE RISK</b>	Tornado, Flood, Extreme Heat, Winter Storm
<b>LOW RISK</b>	

## SECTION 6: CAPABILITY ASSESSMENT

This section of the Plan discusses the capability of the communities in the County to implement hazard mitigation activities. It consists of the following four subsections:

- ◆ 6.1 What is a Capability Assessment?
- ◆ 6.2 Conducting the Capability Assessment
- ◆ 6.3 Capability Assessment Findings
- ◆ 6.4 Conclusions on Local Capability

### 6.1 What is a Capability Assessment?

The purpose of conducting a capability assessment is to determine the ability of a local jurisdiction to implement a comprehensive mitigation strategy and to identify potential opportunities for establishing or enhancing specific mitigation policies, programs, or projects<sup>1</sup>. As in any planning process, it is important to try to establish which goals, objectives, and/or actions are feasible based on an understanding of the organizational capacity of those agencies or departments tasked with their implementation. A capability assessment helps to determine which mitigation actions are practical, and likely to be implemented over time, given a local government's planning and regulatory framework, level of administrative and technical support, number of fiscal resources, and current political climate.

A capability assessment has two primary components: 1) an inventory of a local jurisdiction's relevant plans, ordinances, or programs already in place and 2) an analysis of its capacity to carry them out. Careful examination of local capabilities will detect any existing gaps, shortfalls, or weaknesses with ongoing government activities that could hinder proposed mitigation activities and exacerbate community hazard vulnerability. A capability assessment also highlights the positive mitigation measures already in place or being implemented at the local government level, which should continue to be supported and enhanced through future mitigation efforts.

The capability assessment completed for the County serves as a critical planning step and an integral part of the foundation for designing an effective hazard mitigation strategy. Coupled with the Risk Assessment, the Capability Assessment helps identify and target meaningful mitigation actions for incorporation in the Mitigation Strategy portion of the Plan. It not only helps establish the goals and objectives for the region to pursue under this Plan, but it also ensures that those goals and objectives are realistically achievable under given local conditions such as land use and development trends. Changes in development did not affect any of the participating jurisdiction's overall vulnerability to any hazards identified.

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### 6.2 Conducting the Capability Assessment

To facilitate the inventory and analysis of local government capabilities within the county, a detailed Capability Assessment Survey was completed for each of the participating jurisdictions based on the information found in existing hazard mitigation plans and local government websites. The survey questionnaire compiled information on a variety of "capability indicators" such as existing local plans, policies, programs, or ordinances that contribute to and/or hinder the region's ability to implement

<sup>1</sup> While the Final Rule for implementing the Disaster Mitigation Act of 2000 does not require a local capability assessment to be completed for local hazard mitigation plans, it is a critical step in developing a mitigation strategy that meets the needs of the region while considering their own unique abilities. The Rule does state that a community's mitigation strategy should be "based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools" (44 CFR, Part 201.6(c)(3)).

hazard mitigation actions. Other indicators included information related to the communities' fiscal, administrative, and technical capabilities, such as access to local budgetary and personnel resources for mitigation purposes. The current political climate, an important consideration for any local planning or decision-making process, was also evaluated with respect to hazard mitigation.

At a minimum, survey results provide an extensive inventory of existing local plans, ordinances, programs, and resources that are in place or under development in addition to their overall effect on hazard loss reduction. However, the survey instrument can also serve to identify gaps, weaknesses, or conflicts those counties and local jurisdictions can recast as opportunities for specific actions to be proposed as part of the hazard mitigation strategy.

The information collected in the survey questionnaire was incorporated into a database for further analysis. A general scoring methodology was then applied to quantify each jurisdiction's overall capability.<sup>2</sup> According to the scoring system, each capability indicator was assigned a point value based on its relevance to hazard mitigation.

Using this scoring methodology, a total score, and an overall capability rating of "high," "moderate," or "limited" could be determined according to the total number of points received. These classifications are designed to provide nothing more than a general assessment of local government capability. The results of this capability assessment provide critical information for developing an effective and meaningful mitigation strategy.

### 6.3 Capability Assessment Findings

The findings of the capability assessment are summarized in this Plan to provide insight into the relevant capacity of the jurisdictions in the County to implement hazard mitigation activities. All information is based upon the review of existing hazard mitigation plans and local government websites through the Capability Assessment Survey and input provided by local government officials during meetings of the Lea County Hazard Mitigation Planning Team.

#### 6.3.1 Planning and Regulatory Capability

Planning and regulatory capability is based on the implementation of plans, ordinances, and programs that demonstrate a local jurisdiction's commitment to guiding and managing growth, development, and redevelopment in a responsible manner while maintaining the general welfare of the community. It includes emergency response and mitigation planning, comprehensive land use planning, and transportation planning; the enforcement of zoning or subdivision ordinances and building codes that regulate how land is developed and structures are built; as well as protecting environmental, historic, and cultural resources in the community. Although some conflicts can arise, these planning initiatives present significant opportunities to integrate hazard mitigation principles and practices into the local decision-making process. Some jurisdictions currently demonstrate few established documents to incorporate into the mitigation strategy.

This assessment is designed to provide a general overview of the key planning and regulatory tools and programs that are in place or under development for the jurisdictions in the County along with their potential effect on loss reduction. This information will help identify opportunities to address existing gaps, weaknesses, or conflicts with other initiatives and integrate the implementation of this Plan with existing planning mechanisms where appropriate.

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<sup>2</sup> The scoring methodology used to quantify and rank the region's capability can be found at the end of this section.

**Table 61 summarizes the relevant local plans, ordinances, and programs already in place or under development for the County's jurisdictions.** - A checkmark (✓) indicates that the given item is currently in place and being implemented. An asterisk (\*) indicates that the given item is currently being developed for future implementation a plus sign (+) indicated that it was reviewed, and relevant information was incorporated into the plan. Each of these local plans, ordinances, and programs should be considered available mechanisms for review and incorporating the existing plans, studies, reports, technical information into the Hazard Mitigation Plan to identify existing data and capabilities that will help implement the mitigation strategy.

Table 6-1: Relevant Plans, Ordinances, and Programs

Planning / Regulatory Tool	Lea County	Eunice	Hobbs	Jal	Lovington	Tatum
Hazard Mitigation Plan +	✓	✓	✓	✓	✓	✓
Comprehensive Land Use Plan +	✓	✓	✓	✓	✓	✓
Floodplain Management Plan						
Open Space Management Plan (Parks & Rec/Greenway Plan)						
Stormwater Management Plan/Ordinance	✓	✓			✓	
Emergency Operations Plan	✓	✓	✓	✓	✓	✓
SARA (Superfund Amendments and Reauthorization Act) Title III Plan	✓					
Radiological Emergency Plan						
Continuity of Operations Plan	✓					
Evacuation Plan	✓	✓	✓	✓	✓	✓
Disaster Recovery Plan					✓	
Capital Improvements Plan	✓		✓			
Economic Development Plan	✓				✓	
Historic Preservation Plan						
Transportation Plan			✓			
Flood Damage Prevention Ordinance	✓	✓	✓	✓	✓	✓
Zoning Ordinance	✓				✓	
Subdivision Ordinance	✓				✓	
Site Plan Review Requirements					✓	
Unified Development Ordinance						
Post-Disaster Redevelopment						
Building Code	✓		✓		✓	
Fire Code	✓		✓		✓	
Community Wildfire Protection Plan +	✓				✓	
National Flood Insurance Program (NFIP) +	✓	✓	✓	✓	✓	✓
NFIP Community Rating System			✓			
<u>Flood Insurance Rate Maps +</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>Flood Insurance Study Report+</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>NOAA National Centers for Environmental Information State</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

## Capability Assessment

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Planning / Regulatory Tool	Lea County	Eunice	Hobbs	Jal	Lovington	Tatum
<a href="#">Climate Summaries 2022 +</a>						
<a href="#">New Mexico Climate Projections Summary 2022 +</a>	✓	✓	✓	✓	✓	✓

A more detailed discussion on the region's planning and regulatory capability follows.

### 6.3.2 Emergency Management

Hazard mitigation is widely recognized as one of the four primary phases of emergency management. The three other phases include preparedness, response, and recovery. Each phase is interconnected with hazard mitigation, as **Figure 6-1** suggests. Opportunities to reduce potential losses through mitigation practices are most often implemented before disaster strikes, such as the elevation of flood prone structures or the continuous enforcement of policies that prevent and regulate development that is vulnerable to hazards due to its location, design, or other characteristics. Mitigation opportunities will also be presented during immediate preparedness or response activities, such as installing storm shutters in advance of a hurricane, and certainly during the long-term recovery and redevelopment process following a hazard event.



**Figure 6-1: The Four Phases of Emergency Management**

Planning for each phase is a critical part of a comprehensive emergency management program and a key to the successful implementation of hazard mitigation actions. As a result, the Capability Assessment Survey asked several questions across a range of emergency management plans to assess the County's willingness to plan and their level of technical planning proficiency.

#### Comprehensive Plan

A Comprehensive Plan, in broad terms, is a policy statement to guide the future placement and development of community facilities. It is the basis for a community's zoning, subdivision and design regulations and a community's official maps and amendments to the zoning, subdivision, and design ordinances. The Comprehensive Plan identifies a future vision, values, principals, and goals for the community, determines the projected growth for the community and identifies policies to plan, direct and accommodate anticipated growth. Anticipated growth was used to determine potential vulnerability for the county and the jurisdictions.

#### Zoning Ordinance

Zoning typically consists of both a zoning map and a written ordinance that divides the jurisdiction into zoning districts, including various residential, commercial, mixed-use, and industrial districts. The zoning regulations describe what type of land use and specific activities are permitted in each district, and regulate how buildings, signs, parking, and other construction may be placed on a lot. The zoning regulations also provide procedures for rezoning and other planning applications.

### **Subdivision Ordinance**

A subdivision ordinance is intended to regulate the development of residential, commercial, industrial, or other uses, including associated public infrastructure, as land is subdivided into lots for future development. Subdivision design that accounts for natural hazards can reduce the exposure of future development to hazards.

### **Flood Insurance Study/Floodplain Ordinance**

A Flood Insurance Study (FIS) provides information on the existence and severity of flood hazards within a community based on the 100-year flood event. The FIS also includes revised digital Flood Insurance Rate Maps (FIRMs) which reflect updated Special Flood Hazard Areas (SFHAs) and flood zones for the community.

A floodplain ordinance is a community's most important flood mitigation tool. For a county or municipality to participate in the NFIP, they must adopt a local flood damage prevention ordinance that requires jurisdictions to follow established minimum building standards in the floodplain. These standards require that all new buildings and substantial improvements to existing buildings will be protected from damage by a 100-year flood event and that new development in the floodplain will not exacerbate existing flood problems or increase damage to other properties.

### **Stormwater Management Program/Stormwater Ordinance**

Stormwater runoff is increased when natural ground cover is replaced by urban development. Development in the watershed that drains to a river can aggravate downstream flooding, overload the community's drainage system, cause erosion, and impair water quality. A Stormwater Management Program can prevent flooding problems caused by stormwater runoff by 1) Regulating development in the floodplain to ensure that it will be protected from flooding and that it will not divert floodwaters onto other properties; 2) Regulating all development to ensure that the post-development peak runoff will not be greater than it was under pre-development conditions; and 3) Setting construction standards so buildings are protected from shallow water. A stormwater ordinance provides the community with the regulatory authority to implement its stormwater management standards.

### **Erosion, Sedimentation, and Pollution Control Ordinance**

Surface water runoff can erode soil from development sites, sending sediment into downstream waterways. This can clog storm drains, drain tiles, culverts, and ditches, and reduce the water transport and storage capacity of river and stream channels, lakes, and wetlands. An erosion, sedimentation and pollution control ordinance is to minimize soil erosion and prevent off-site sedimentation by using soil erosion and sediment control practices designed in accordance with certain standards and specifications.

### **Site Plan Review**

The Site Plan Review Process reviews site plans for specific development types to ensure compliance with appropriate land development regulations and consistency with the Comprehensive Plan.

### **Building Code/Elevation Certificates**

Building codes provide one of the best methods for addressing natural hazards. When meticulously designed and constructed according to code, the average building can withstand many of the impacts of natural hazards. Hazard protection standards for all new and improved or repaired buildings can be incorporated into the local building code. Building codes can ensure that the first floors of new buildings are constructed to be higher than the elevation of the 100-year flood (the flood that is expected to have a one percent chance of occurring in any given year).

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Just as important as having code standards is the enforcement of the code. Adequate inspections are needed during construction to ensure that the builder understands the requirements and is following them. Making sure a structure is properly elevated and anchored requires site inspections at each step.

The City of Hobbs follows the State of NM as far as codes go. (When the state adopts code, the city automatically adopts code)

The current codes are as follows:

Hobbs Municipal Code

NMAC (New Mexico Administrative Code) - Which includes:

2015 IBC

2015 IRC

2015 IEBC

2015 IFC

2018 IECC

2017 NEC

2021 UPC

2021 UMC

2021 USPC

ICC A117.1-2009

An Elevation Certificate serves as the official record that shows new buildings and substantial improvements in all identified SFHAs are properly elevated. This elevation information is needed to show compliance with the floodplain ordinance.

### Capital Improvement Program

A Capital Improvement Plan (CIP) is a planning document that typically provides a five-year outlook for anticipated capital projects designed to facilitate decision makers in the replacement of capital assets. The projects are primarily related to improvement in public service, parks and recreation, public utilities, and facilities. A community's mitigation strategy may include structural projects that could potentially be included in a CIP and funded through a Capital Improvement Program.

### Emergency Operations Plan

An emergency operations plan outlines responsibility and how resources are deployed during and following an emergency or disaster.

### Repetitive Loss Plan

Repetitive loss property is defined as any insurable building for which two or more claims of more than \$1,000 were paid by the NFIP within any rolling 10-year period, since 1978. Two of the claims paid must be more than 10 days apart but within 10 years of each other. A Repetitive Loss Plan examines the cause of repetitive flooding and identifies mitigation measures to reduce or eliminate the flooding to repetitive loss properties.

### Community Wildfire Protection Plan

The CWPP (Community Wildfire Prevention Plan) emphasizes the importance of collaboration among multi-jurisdictional agencies to develop fuels mitigation treatment programs to address wildfire hazards. In 2003 the U.S (United States) Congress recognized widespread declining forest health by passing the Healthy Forests Restoration Act (HFRA), and President Bush signed the act into law (Public Law 108-148, 2003). The Act was revised in 2009 to address changes to funding and provide a renewed focus on wildfire mitigation (H.R.4233- Healthy Forest Restoration Amendments Act of 2009). The HFRA

expedites the development and implementation of hazardous fuels reduction projects on federal land and emphasizes the need for federal agencies to work collaboratively with communities. A key component of the HFRA is the development of CWPPs (Community Wildfire Prevention Plan), which facilitates the collaboration between federal agencies and communities to develop hazardous fuels reduction projects and place priority on treatment areas identified by communities in a CWPP. A CWPP also allows communities to establish their own definition of the Wildfire Urban Interface (WUI) and helped establish a baseline for the hazard profile in this plan. In addition, communities with an established CWPP are given priority for funding hazardous fuels reduction projects carried out in accordance with the HFRA.

### 6.3.3 Floodplain Management

Flooding represents the greatest natural hazard facing the United States. At the same time, the tools available to reduce the impacts associated with flooding are among the most developed when compared to other hazard-specific mitigation techniques. In addition to approaches that cut across hazards such as education, outreach, and the training of local officials, the *National Flood Insurance Program* (NFIP) contains specific regulatory measures that enable government officials to determine where and how growth occurs relative to flood hazards. Participation in the NFIP is voluntary for local governments; however, program participation is strongly encouraged by FEMA as a first step for implementing and sustaining an effective hazard mitigation program. It is therefore used as part of this assessment as a key indicator for measuring local capability.

The National Flood Insurance Program (NFIP) was established by the National Flood Insurance Act of 1968 (NFIA; 42 U.S.C. §4001 et seq.) and was most recently reauthorized to September 30, 2021, through a series of short-term reauthorizations. The general purpose of the NFIP is both to offer primary flood insurance to properties with significant flood risk, and to reduce flood risk through the adoption of floodplain management standards. Communities volunteer to participate in the NFIP to access federal flood insurance and must adopt minimum standards.

For a county or municipality to participate in the NFIP, they must adopt a local flood damage prevention ordinance that requires jurisdictions to follow established minimum building standards in the floodplain. These standards require that all new buildings and substantial improvements to existing buildings will be protected from damage by a 100-year flood event and that new development in the floodplain will not exacerbate existing flood problems or increase damage to other properties.

Jurisdictions in Lea County plan to work towards a community rating in the future and are continuing NFIP participation annually through regular training, mitigation actions and information and mapping updates to continue compliance with NFIP requirements. [Appendix K: National Flood Insurance Program Worksheet provides additional details describing the participation on the NFIP for each participant, as applicable, in accordance with NFIP regulatory requirements.](#)

Participating communities must adopt a flood map and enact minimum floodplain standards to regulate development in the SFHA (Special Flood Hazard Area). FEMA encourages communities to enhance their floodplain standards by offering reduced premium rates through the Community Rating System (CRS). FEMA also manages a Flood Mitigation Assistance (FMA) grant program using NFIP revenues to further reduce comprehensive flood risk. Participating communities that fail to adopt FIRMs or maintain minimum floodplain standards can be put on probation or suspended from the NFIP. In communities that do not participate in the NFIP, or have been suspended, individuals cannot purchase NFIP insurance. Individuals in these communities also face challenges receiving federal disaster assistance in flood hazard areas and have difficulties receiving federally backed mortgages.

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A key service provided by the NFIP is the mapping of identified flood hazard areas. A Flood Hazard Boundary Map (FHBM) is an initial map issued by FEMA to identify approximate Special Flood Hazard Areas (SFHA's) within a community.

**Table 6-2** provides NFIP information for each participating jurisdiction in Lea County.

**Table 6-2: NFIP Policy and Claim Information**

Jurisdiction	Initial FHBM Identified	Current Effective Map Date	CID #
Lea County	-	12/16/08	#350130
City of Eunice	08/30/74	12/16/08	#350028
City of Hobbs	04/02/76	12/16/08	#350029
City of Jal	07/09/76	12/16/08	#350030
City of Lovington	06/21/74	12/16/08	#350031
Town of Tatum	06/21/74	12/16/08	#350032

Source: FEMA Community Status Book.

- FHBM for Lea County not provided by Community Status Book

**Community Rating System:** An additional indicator of floodplain management capability is the active participation of local jurisdictions in the Community Rating System (CRS). The CRS is an incentive-based program that encourages counties and municipalities to undertake defined flood mitigation activities that go beyond the minimum requirements of the NFIP by adding extra local measures to provide protection from flooding. All the 18 creditable CRS mitigation activities are assigned a range of point values. As points are accumulated and reach identified thresholds, communities can apply for an improved CRS class rating. Class ratings, which range from 10 to 1, are tied to flood insurance premium reductions as shown in **Table 6-3**. As class rating improves (the lower the number the better), the percent reduction in flood insurance premiums for NFIP policyholders in that community increases. Currently Hobbs is the only CRS community in the county.

**Table 6-3: CRS Premium Discounts, By Class**

CRS Class	Premium Reduction
1	45%
2	40%
3	35%
4	30%
5	25%
6	20%
7	15%
8	10%
9	5%

CRS Class	Premium Reduction
10	0

Source: FEMA (Federal Emergency Management Agency)

Community participation in the CRS is voluntary. Any community in full compliance with the rules and regulations of the NFIP may apply to FEMA for a CRS classification better than class 10. The CRS application process has been simplified over the past several years based on community comments. Changes were made with the intent to make the CRS more user-friendly and make extensive technical assistance available for communities who request it.

**Flood Damage Prevention Ordinance:** A flood damage prevention ordinance establishes minimum building standards in the floodplain to minimize public and private losses due to flood conditions.

**Floodplain Management Plan:** A floodplain management plan (or a flood mitigation plan) provides a framework for action regarding corrective and preventative measures to reduce flood-related impacts.

**Open Space Management Plan:** An open space management plan is designed to preserve, protect, and restore undeveloped lands in their natural state and to expand or connect areas in the public domain such as parks, greenways, and other outdoor recreation areas. In many instances, open space management practices are consistent with the goals of reducing hazard losses, such as the preservation of wetlands or other flood-prone areas in their natural state in perpetuity.

**Stormwater Management Plan:** A stormwater management plan is designed to address flooding associated with stormwater runoff. The stormwater management plan is typically focused on design and construction measures that are intended to reduce the impact of more frequently occurring minor urban flooding.

#### 6.3.4 Administrative and Technical Capability

The ability of a local government to develop and implement mitigation projects, policies, and programs is directly tied to its ability to direct staff time and resources for that purpose. Administrative capability can be evaluated by determining how mitigation-related activities are assigned to local departments and if there are adequate personnel resources to complete these activities. The degree of intergovernmental coordination among departments will also affect administrative capability for the implementation and success of proposed mitigation activities.

Technical capability can be evaluated by assessing the level of knowledge and technical expertise of local government employees, such as personnel skilled in using Geographic Information Systems (GIS) to analyze and assess community hazard vulnerability. The Capability Assessment Survey was used to capture information on administrative and technical capability through the identification of available staff and personnel resources.

**Table 64 summarizes the capability assessment results for the County regarding relevant staff and personnel resources.** - A checkmark (✓) indicates the presence of a staff member(s) in that jurisdiction with the specified knowledge or skill.

Credit for having a floodplain manager was given to those jurisdictions that have a flood damage prevention ordinance, and therefore an appointed floodplain administrator, regardless of whether the appointee was dedicated solely to floodplain management. Credit was given for having a scientist familiar with the hazards of the community if a jurisdiction has a Cooperative Extension Service or Soil

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and Water Conservation Department. Credit was also given for having staff with education or expertise to assess the community's vulnerability to hazards if a staff member from the jurisdiction was a participant on the existing hazard mitigation plan's planning committee. The following are a summary of key issues affecting administrative capability:

- Limited integration of mitigation into county/local government functions;
- Limited interdepartmental coordination.

Recommendations: The enhancement of administrative capability may be achieved through county-municipal training, outreach and mentoring of smaller jurisdictions and the sharing of resources, when appropriate.

[Lea County Supervisor of Environmental and Floodplain currently acts as Floodplain Administrator for Eunice, Jal and Tatum.](#)

Table 6-4: Relevant Staff / Personnel Resources

Staff / Personnel Resource	Lea County	Eunice	Hobbs	Jal	Lovington	Tatum
Planners with knowledge of land development / land management practices	✓				✓	
Engineers or professionals trained in construction practices related to buildings and/or infrastructure	✓					
Planners or engineers with an understanding of natural and/or human- caused hazards	✓					
Building Official						
Emergency Manager	✓				✓	
Floodplain Manager	✓	<u>✓</u>	<u>✓</u>	<u>✓</u>	✓	<u>✓</u>
Land Surveyors			✓			
Scientists familiar with the hazards of the community						
Staff with education or expertise to assess the community's vulnerability to hazards						
Personnel skilled in GIS and/or HAZUS	✓					
Resource development staff or grant writers	✓					
Maintenance Programs to Reduce Risk	✓					
Warning Systems/Services	✓				✓	
Mutual Aid Agreements	✓				✓	

**6.3.5 Fiscal Capability**

The ability of a local government to act is often strongly associated with the amount of money available to implement policies and projects. This may take the form of outside grant funding awards or locally based revenue and financing. The costs associated with mitigation policy and project implementation vary widely. In some cases, policies are tied primarily to staff time or administrative costs associated with the creation and monitoring of a given program. In other cases, direct expenses are linked to an actual project, such as the acquisition of flood-prone homes, which can require a substantial commitment from local, state, and federal funding sources.

The Capability Assessment Survey was used to capture information on the region’s fiscal capability through the identification of locally available financial resources. Many jurisdictions defer to the county for financial investment in mitigation policies and projects.

**Table 6-5** provides a summary of the results for the County regarding relevant fiscal resources. A checkmark (✓) indicates that the given fiscal resource is locally available for hazard mitigation purposes (including match funds for state and federal mitigation grant funds).

Table 6-5: Relevant Fiscal Resources

Fiscal Tool / Resource	Lea County	Eunice	Hobbs	Jal	Lovington	Tatum
Capital Improvement Programming	✓				✓	
Community Development Block Grants (CDBG)			✓		✓	
Special Purpose Taxes (or taxing districts)	✓					
Gas / Electric Utility Fees		✓	✓	✓	✓	
Water / Sewer Fees		✓	✓	✓	✓	
Stormwater Utility Fees						
Development Impact Fees						
General Obligation Bonds						
Revenue Bonds						
Special Tax Bonds						

### 6.3.6 Political Capability

One of the most difficult capabilities to evaluate involves the political will of a jurisdiction to enact meaningful policies and projects designed to reduce the impact of future hazard events. Hazard mitigation may not be a local priority or may conflict with or be an impediment to other goals of the community, such as growth and economic development. Therefore, the local political climate must be considered in designing mitigation strategies as it could be the most difficult hurdle to overcome in accomplishing their adoption and implementation.

The Capability Assessment Survey was used to capture information on the jurisdictions' political capability. Previous hazard mitigation plans were reviewed for general examples of local political capability, such as guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum state or federal requirements (i.e., building codes, floodplain management, etc.).

- Lea County Commissioners are community minded and have historically answered any community needs with Ordinances, Resolutions, Code Development, and other necessary means to protect the public and make Lea County safe.
- The City of Lovington can enact ordinances and resolutions to address issues within its town limits. The city is always looking at more economic development, CDBG projects to improve the city assets. The city is also looking at new water projects and streets and drainage projects.
- The City of Eunice, Hobbs, Jal and Tatum governments have historically answered any community needs with Ordinances, Resolutions, Code Development, and other necessary means to protect the public and their city. Additional factors to consider include the physical location and wealth of these municipalities and political changes during election periods.

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### 6.4 Conclusions on Local Capability

To form meaningful conclusions on the assessment of local capability, a quantitative scoring methodology was designed and applied to the results of the Capability Assessment Survey. This methodology tries to assess the jurisdictions' overall level of capability to implement hazard mitigation actions.

The overall capability to implement hazard mitigation actions varies among the participating jurisdictions. For planning and regulatory capability, many of the jurisdictions are in the moderate range. There is also variation in the administrative and technical capability among the jurisdictions with larger jurisdictions having greater staff and technical resources. Most jurisdictions are in the moderate range of fiscal capability.

**Table 6-6** shows the results of the capability assessment using the designed scoring methodology. The scoring methods ranking is presented as follows:

- Limited: 0-29
- Moderate: 30-59
- High: 60-100

According to the assessment, the average local capability score for all jurisdictions is 50.8, which falls into the moderate capability ranking. Though Lovington has certain resources and capabilities, they subjectively ranked themselves limited to project their further goals for resilience. Additional factors to consider include the physical location and wealth of participating municipalities.

Commented [KK4]: Kelly will adjust score if we receive anymore input from jurisdictions

**Table 6-6: Capability Assessment Results**

Jurisdiction	Overall Capability Score	Overall Capability Rating
Lea County	30-59	Moderate
City of Eunice	30-59	Moderate
City of Hobbs	30-59	Moderate
City of Jal	30-59	Moderate
City of Lovington	0-29	Limited
Town of Tatum	30-59	Moderate

As previously discussed, one of the reasons for conducting a Capability Assessment is to examine local capabilities to detect any existing gaps or weaknesses within ongoing government activities that could hinder proposed mitigation activities and exacerbate community hazard vulnerability. These gaps or weaknesses have been identified for each jurisdiction in the tables found throughout this section. The participating jurisdictions used the Capability Assessment as part of the basis for the Mitigation Actions that are identified in Section 8; therefore, each jurisdiction addresses their ability to expand on and improve their existing capabilities through the identification of their Mitigation Actions. Linking the Capability Assessment with the Risk Assessment and the Mitigation Strategy

The conclusions of the Risk Assessment and Capability Assessment serve as the foundation for the development of a meaningful hazard mitigation strategy. While identifying specific mitigation actions to pursue, the Planning Team considered each jurisdiction's hazard risk level and their existing capability to minimize or eliminate that risk. The county and all jurisdictions specifically identified types of personnel and staff that may be needed to expand on implementing mitigation activities more fully in their communities.; these include engineers, planners, GIS analysts, building officials, land surveyors, and scientists. They will consider employing more staff and/or providing additional training opportunities with these specific skillsets to further improve and expand capabilities throughout the County and participating jurisdictions.

**Commented [KK5]:** verify these gaps once capability assessment is finalized

## SECTION 7: MITIGATION STRATEGY

This section of the Plan provides the blueprint for the participating jurisdictions in the County to follow to become less vulnerable to its identified hazards. It is based on the consensus of the Lea County Hazard Mitigation Planning Team and the findings and conclusions of the *Capability Assessment* and *Risk Assessment*. It consists of the following five subsections:

- ◆ 7.1 Introduction
- ◆ 7.2 Mitigation Goals
- ◆ 7.3 Identification and Analysis of Mitigation Techniques
- ◆ 7.4 Selection of Mitigation Techniques for Lea County
- ◆ 7.5 Plan Update Requirement

### 7.1 Introduction

The intent of the Mitigation Strategy is to provide the communities with the goals that will serve as guiding principles for future mitigation policy and project administration, along with an analysis of mitigation techniques available to meet those goals and reduce the impact of identified hazards. It is designed to be comprehensive, strategic, and functional in nature:

- In being *comprehensive*, the development of the strategy includes a thorough review of all hazards and identifies extensive mitigation measures intended to not only reduce the future impacts of high-risk hazards, but also to help the region achieve compatible economic, environmental, and social goals.
- In being *strategic*, the development of the strategy ensures that all policies and projects proposed for implementation are consistent with pre-identified, long-term planning goals.
- In being *functional*, each proposed mitigation action is linked to established priorities and assigned to specific departments or individuals responsible for their implementation with target completion deadlines. When necessary, funding sources are identified that can be used to assist in project implementation.

The first step in designing the Mitigation Strategy includes the identification of mitigation goals. Mitigation goals represent broad statements that are achieved through the implementation of more specific mitigation actions. These actions include both hazard mitigation policies (such as the regulation of land in known hazard areas through a local ordinance) and hazard mitigation projects that seek to address specifically targeted hazard risks (such as the acquisition and relocation of a repetitive loss structure).

The second step involves the identification, consideration, and analysis of available mitigation measures to help achieve the identified mitigation goals. This is a long-term, continuous process sustained through the development and maintenance of this Plan. Alternative mitigation measures will continue to be considered as future mitigation opportunities are identified, as data and technology improve, as mitigation funding becomes available, and as this Plan is maintained over time.

The third and last step in designing the Mitigation Strategy is the selection and prioritization of specific mitigation actions for the County (provided separately in Section 8: *Mitigation Action Plan*). The county and participating jurisdiction has its own Mitigation Action Plan (MAP) that reflects the needs and concerns of that jurisdiction. The MAP represents an unambiguous and functional plan for action and is the most essential outcome of the mitigation planning process.

The MAP includes a prioritized listing of proposed hazard mitigation actions (policies and projects) for the County to complete. Each action has accompanying information, such as those departments or individuals assigned responsibility for implementation, potential funding sources, and an estimated target date for completion. The MAP provides those departments or individuals responsible for implementing mitigation actions with a clear roadmap that also serves as a useful tool for monitoring success or progress over time. The cohesive collection of actions listed in the MAP can also serve as an easily understood menu of mitigation policies and projects for those local decision makers who want to quickly review the recommendations and proposed actions of the Hazard Mitigation Plan.

In preparing each Mitigation Action Plan for the County, officials considered the overall hazard risk and capability to mitigate the effects of hazards as recorded through the risk and capability assessment process, in addition to meeting the adopted mitigation goals and unique needs of the community.

### 7.1.1 Mitigation Action Prioritization

The Hazard Mitigation Planning Team members were tasked with establishing a priority, implementation status, and completion timeline for each action. Prioritization of the proposed mitigation actions was based on the following six factors:

- Effect on overall risk to life and property
- Ease of implementation
- Political and community support
- A general economic cost/benefit review<sup>1</sup>
- Funding availability
- Continued compliance with the NFIP (National Flood Insurance Program)

The point of contact for the county helped coordinate the prioritization process by reviewing each action and working with the lead agency/department responsible to determine a priority for each action using the six factors listed above. Priorities have not changed since the plan was previously approved.

Using these criteria, actions were classified as high, medium, or low priority by the participating jurisdiction officials. The actions were and will be identified, prioritized, implemented, and administered by each local jurisdiction. Prioritization includes emphasis on the extent to which benefits are maximized according to the cost benefit review of the proposed projects and their associated costs. The mitigation actions in Section 8 have been ranked based on a cost-benefit review conducted by the planning team through the planning process. Each action has been provided a priority of low, medium, or high based on this review. The following provides a breakdown of the factors utilized to conduct this general cost benefit review:

- High Priority: Highly cost-effective, administratively feasible and politically feasible strategies that could be implemented in 2 fiscal years and be continued.
- Medium Priority: Strategies that have at least two of the following characteristics (but not all three) and could be implemented in 3 fiscal years: Highly cost-effective; or administratively

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<sup>1</sup> Only a general economic cost/benefit review was considered by the Lea County Hazard Mitigation Planning Committee through the process of selecting and prioritizing mitigation actions. Mitigation actions with “high” priority were determined to be the most cost effective and most compatible with the participating jurisdictions’ unique needs. Actions with a “moderate” priority were determined to be cost-effective and compatible with jurisdictional needs but may be more challenging to complete administratively or fiscally than “high” priority actions. Actions with a “low” priority were determined to be important community needs, but the community likely identified several potential challenges in terms of implementation (e.g. lack of funding, technical obstacles). A more detailed cost/benefit analysis will be applied to projects prior to the application for or obligation of funding, as appropriate.

feasible, given current levels of staffing and resources; or are politically popular and supportable given the current environment.

- Low Priority: Strategies that have one of the following characteristics and could be implemented in the next five years): Highly cost-effective; or administratively feasible, given current levels of staffing and resources; or are politically popular and supportable given the current environment.

**44 CFR (Code of Federal Regulations) Requirement**

**44 CFR Part 201.6(c)(3)(i):** The mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

## 7.2 Mitigation Goals

The primary goal of all local governments is to promote the public health, safety, and welfare of its citizens. In keeping with this standard, Lea County and the participating municipalities have developed goal statements for local hazard mitigation planning in the region. In developing these goals, the previous Plan's goals were reviewed to determine if they were still valid. The goals were presented, reviewed, voted on, and accepted by the Planning Team at their kickoff meeting. Each goal, purposefully broad in nature, serves to establish parameters that were used in developing more mitigation actions. The Lea County Mitigation Goals are presented in **Table 7-1**. Consistent implementation of actions over time will ensure that community goals are achieved.

The Lea County Hazard Mitigation Team reviewed the 2007 Goals and Objectives in 2014 and again in 2021 and 2022, each of the goals was discussed. The HMPT did not make any changes to the 2007 goals. To create a disaster-resistant community and improve the safety and well-being of Lea County residents by reducing deaths, injuries, property damage, and environmental and other losses from natural and technological hazards in a manner that advances community goals, quality of life, and results in a more livable, viable, and sustainable community the HMPT revalidated these goals:

**Table 7-1: Lea County Mitigation Goals**

	Goal
Goal #1	Minimize loss of life and property from natural hazard events, protect public health and safety, Reduce risk and effects of natural hazards. Improve disaster prevention.
Goal #2	Increase public preparedness awareness of risk from natural hazards through countywide information programs.
Goal #3	Identify hazards and assess risks for the local area. Ascertain historical incidence and frequency of occurrence. Determine increased risk from specific hazards due to location and other factors.
Goal #4	Improve forecasting of natural hazard events.
Goal #5	Provide guidance for buildings in high-risk areas including building resilient construction to reduce the dangers of natural hazards.
Goal #6	Support government and public response to natural hazard disasters.

### 7.3 Identification and Analysis of Mitigation Techniques

<b>44 CFR Requirement</b>
<b>44 CFR Part 201.6(c)(3)(ii):</b> The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effect of each hazard, with particular emphasis on new and existing buildings and infrastructure.

In formulating the Mitigation Strategy for the County, a wide range of activities were considered to help achieve the established mitigation goals, in addition to addressing any specific hazard concerns. These activities were discussed during the Planning Team meetings. In general, all activities considered by the Planning Team can be classified under one of the following six broad categories of mitigation techniques: Prevention, Property Protection, Natural Resource Protection, Structural Projects, Emergency Services, and Public Awareness and Education. These are discussed in detail below.

#### 7.3.1 Prevention

Preventative activities are intended to keep hazard problems from getting worse and are typically administered through government programs or regulatory actions that influence the way land is developed and buildings are built. They are particularly effective in reducing a community's future vulnerability, especially in areas where development has not occurred, or capital improvements have not been substantial. Examples of preventative activities include:

- Planning and zoning
- Building codes
- Open space preservation
- Floodplain regulations
- Stormwater management regulations
- Drainage system maintenance
- Capital improvements programming
- Riverine / fault zone setbacks

#### 7.3.2 Property Protection

Property protection measures involve the modification of existing buildings and structures to help them better withstand the forces of a hazard, or removal of the structures from hazardous locations.

Examples include:

- Acquisition
- Relocation
- Building elevation
- Critical facilities protection/generators
- Retrofitting (e.g., wind proofing, floodproofing, seismic design techniques, etc.)
- Safe rooms, shutters, shatter-resistant glass
- Insurance

#### 7.3.3 Natural Resource Protection

Natural resource protection activities reduce the impact of natural hazards by preserving or restoring natural areas and their protective functions. Such areas include floodplains, wetlands, steep slopes, and sand dunes. Parks, recreation, or conservation agencies and organizations often implement these protective measures. Examples include:

- Floodplain protection
- Watershed management
- Riparian buffers
- Forest and vegetation management (e.g., fire resistant landscaping, fuel breaks, etc.)
- Erosion and sediment control
- Wetland preservation and restoration
- Habitat preservation
- Slope stabilization

### 7.3.4 Structural Projects

Structural mitigation projects are intended to lessen the impact of a hazard by modifying the environmental natural progression of the hazard event through construction. They are usually designed by engineers and managed or maintained by public works staff. Examples include:

- Reservoirs
- Dams / levees / dikes / floodwalls
- Diversions / detention / retention
- Channel modification
- Storm sewers

### 7.3.5 Emergency Services

Although not typically considered a “mitigation” technique, emergency service measures do minimize the impact of a hazard event on people and property. These commonly are actions taken immediately prior to, during, or in response to a hazard event. Examples include:

- Warning systems
- Generators
- Evacuation planning and management
- Emergency response training and exercises
- Sandbagging for flood protection
- Installing temporary shutters for wind protection

### 7.3.6 Public Education and Awareness

Public education and awareness activities are used to advise residents, elected officials, business owners, potential property buyers, and visitors about hazards, hazardous areas, and mitigation techniques they can use to protect themselves and their property. Examples of measures to educate and inform the public include:

- Outreach projects
- Speaker series / demonstration events
- Hazard map information
- Real estate disclosure
- Library materials
- School educational programs
- Hazard expositions

## 7.4 Selection of Mitigation Techniques for Lea County

To determine the most appropriate mitigation techniques for the communities in the County, the Planning Team members thoroughly reviewed and considered the findings of the *Capability Assessment*

and *Risk Assessment* to determine the best activities for their respective communities. Other considerations included the effect of each mitigation action on overall risk to life and property, its ease of implementation, its degree of political and community support, its general cost-effectiveness, and funding availability (if necessary).

### **7.5 Plan Update Requirement**

In keeping with FEMA (Federal Emergency Management Agency) requirements for plan updates, the Mitigation Actions identified in the previous plan were evaluated to determine their current implementation status. Updates on the implementation status of each action are provided. The mitigation actions provided in Section 8: *Mitigation Action Plan* include the mitigation actions from the previous plan as well as any new mitigation actions proposed through the current planning process.

## SECTION 8: MITIGATION ACTION PLANS

This section includes the listing of the mitigation actions proposed by the participating jurisdictions in Lea County. It consists of the following two subsections:

- ◆ 8.1 Overview
- ◆ 8.2 Mitigation Action Plans

### 44 CFR Requirement

**44 CFR Part 201.6(c)(3)(iii):** The mitigation strategy shall include an action plan describing how the actions identified in paragraph (c)(2)(ii) of this section will be prioritized, implemented, and administered by the local jurisdiction.

### 8.1 Overview

As described in the previous section, the Mitigation Action Plan, or MAP, provides a functional plan of action for each jurisdiction. It is designed to achieve the mitigation goals established in Section 7: Mitigation Strategy and will be maintained regularly according to the plan maintenance procedures established in Section 9: Plan Maintenance.

Each proposed mitigation action has been identified as an effective measure (policy or project) to reduce hazard risk for Lea County. Each action is listed in the MAP with background information such as hazard(s) addressed, relative priority, and estimated cost. Other information provided in the MAP includes potential funding sources to implement the action should funding be required (not all proposed actions are contingent upon funding). Integrating the mitigation plan into the capital improvements plan through identification of mitigation actions that may require local funding were considered too. Most importantly, implementation mechanisms are provided for each action, including the designation of a lead agency or department responsible for carrying the action out and a time for its completion. These implementation mechanisms ensure that the Lea County Hazard Mitigation Plan remains a functional document that can be monitored for progress over time. The proposed actions are not listed in priority order, though each has been assigned a priority level of “High,” “Medium,” or “Low” as described below.

The actions were and will be identified, prioritized, implemented, and administered by each local jurisdiction. Prioritization includes emphasis on how much benefits are maximized according to the cost-benefit review of the proposed projects and their associated costs. The actions in the following table have been ranked based on a cost-benefit review conducted by the planning team through the planning process. Each action has been provided a priority of low, medium, or high based on this review. The following provides a breakdown of the factors utilized to conduct this general cost benefit review:

- High Priority: Highly cost-effective, administratively feasible and politically feasible strategies that could be implemented in 2 fiscal years and be continued.
- Medium Priority: Strategies that have at least two of the following characteristics (but not all three) and could be implemented in 3 fiscal years: Highly cost-effective; or administratively feasible, given current levels of staffing and resources; or are politically popular and supportable given the current environment.
- Low Priority: Strategies that have one of the following characteristics and could be implemented in the next five years): Highly cost-effective; or administratively feasible, given current levels of staffing and resources; or are politically popular and supportable given the current environment.

The following are the key elements described in the Mitigation Action Plan:

## Mitigation Action Plans

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- Project Description: Description of the mitigation action.
- Jurisdiction: Jurisdictions participating in the mitigation action.
- Hazard(s) Addressed: Hazard which the action addresses.
- Responsible Agency: Department responsible for undertaking the action.
- Funding Sources: potential Local, State, or Federal sources of funds are noted here, where applicable.
- Estimated Costs: High (greater than \$50,000), Medium (between \$20,000 to \$50,000), or Low (less than \$20,00).
- Funding Sources: Potential contribution sources.
- Timeline for Implementation: Date by which the action should be completed. More information is provided when possible.
- Priority: High, Medium, or Low priority as assigned by the jurisdiction.
- Implementation Status (2022)—Indication of completion, progress, deferment. If the action is new, that will be noted here.
  - In Progress- actions are in progress and have some percentage of completion.
  - To Be Continued- actions occur on a regular basis and will continue to do so on an annual frequency.
  - Deferred- actions were unable to be addressed to current capabilities.
  - Deleted- actions were considered not to be feasible or mitigation related.
  - New- actions that are new.
- Some jurisdictions have started some of the actions, however multiple (for example: items, buildings, projects) need to be implemented, therefore all the actions listed in Table 8-1 still have actions that are to be implemented.

## 8.2 Mitigation Action Plans

### 8.2.1 Lea County

Action #1 Mass Alert	
<b>Project Description:</b>	Mass public notification and warning system
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: In 2012, the County purchased the CodeRed Warning System and is providing weather and hazard warnings throughout the County. This system is phone, text and email based and can provide up-to-the-minute information to the public. It operates on both landline and cell phone systems and requires annual updating, maintenance, outreach, and training

Action #2 Lightning Rod Installation	
<b>Project Description:</b>	Installing Lightning Rods
<b>Jurisdiction:</b>	Lea County
<b>Hazard(s) Addressed:</b>	Severe Storms
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets,
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Delete: No longer feasible for the County to complete

## Mitigation Action Plans

Action #3 Hazard Education	
<b>Project Description:</b>	Comprehensive Hazard Education Program for Community Fairs and Special Events
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: The Lea County OEM (Office of Emergency Management) has been active in participating in numerous local events including, fire safety with schools, vector control, defensible space and provides educational materials for distribution at these events along with posting on County website and social media. The County plans to continue this outreach in the future and at least annually All participating jurisdictions have identified educational action items as need for hazard mitigation. The County would take a leading role in coordinating and collaborating with all the participating jurisdictions to develop a Comprehensive Education Program. Each jurisdiction will participate in developing a comprehensive program.

Action #4 Provide Back-Up Power for Critical Facilities	
<b>Project Description:</b>	This project would allow for back-up power to be installed at critical facilities to ensure continuity of emergency services to the public during hazard events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	New Action

## Mitigation Action Plans

### Action #5 Disaster Resistant Community Marketing

<b>Project Description:</b>	Work with local retailers to promote Disaster Resistant Community framework. FEMA (Federal Emergency Management Agency) disaster readiness would be the emphasis at some of the stores within the community, i.e., lumber, hardware stores, to promote the city for disaster resistance by showing individuals how to use construction materials that are less susceptible to hazard damage and/or items that can help regulate water usage.
<b>Jurisdiction:</b>	Lea County
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: This action is in progress with the effort being lead through the Lea County OEM; project 5% complete.

### Action # 6 CRS & NFIP Participation

<b>Project Description:</b>	County to work on rating and are continuing to encourage NFIP participation annually through regular training and information updates to continue compliance with NFIP requirements.
<b>Jurisdiction:</b>	Lea County
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

### Action # 7 Xeriscape Initiative

<b>Project Description:</b>	Create a xeriscape landscape garden and implement in future builds throughout the County
<b>Jurisdiction:</b>	Lea County
<b>Hazard(s) Addressed:</b>	Drought, Flood
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

## Mitigation Action Plans

Action # 8 Planning Incorporation	
<b>Project Description:</b>	Incorporate HMP into the County Comprehensive Plan
<b>Jurisdiction:</b>	Lea County
<b>Hazard(s) Addressed:</b>	All Hazards
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

### 8.2.2 City of Eunice

Action #1 Hire Emergency Management Professional	
<b>Project Description:</b>	Hire an Emergency Management Consultant to Prepare an Emergency Operations Plan (EOP).
<b>Jurisdiction:</b>	City of Eunice
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	City of Eunice <a href="#">Administration</a> , Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: Lea County is in the process of completing an EOP that will include the City of Eunice and provide comprehensive emergency planning for the entire County; project is 25% complete.

Action #2 Requisition of Whelen Public Address Siren Warning System	
<b>Project Description:</b>	Requisition of Whelen Public Address Siren Warning System
<b>Jurisdiction:</b>	City of Eunice
<b>Hazard(s) Addressed:</b>	Severe Storms, Tornado
<b>Responsible Agency:</b>	City of Eunice <a href="#">Fire &amp; Rescue</a> , Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	Complete: The County has purchased the CodeRed Warning System and is currently providing current weather conditions and hazard warnings throughout the County including the City of Eunice for all hazards now

## Mitigation Action Plans

Action #3 Mass Alert	
<b>Project Description:</b>	Mass public notification and warning system.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: In 2012, the County purchased the CodeRed Warning System and is providing weather and hazard warnings throughout the County. This system is phone, text and email based and can provide up-to-the-minute information to the public. It operates on both landline and cell phone systems and requires annual updating, maintenance, outreach, and training.

## Mitigation Action Plans

Action #4 Back-Up Power	
<b>Project Description:</b>	Purchase of Trailer Mounted Generator and Lighting System
<b>Jurisdiction:</b>	City of Eunice
<b>Hazard(s) Addressed:</b>	Severe Storms, Tornado, Wildfire, Winter Weather, Extreme Heat
<b>Responsible Agency:</b>	City of Eunice <a href="#">Fire &amp; Rescue</a> , Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	Delete: No generator has been purchased for the City of Eunice; however, the Lea County OEM (Office of Emergency Management) has a generator available for each jurisdiction's use. This project is no longer a priority for Eunice.

Action #5 Hazard Education	
<b>Project Description:</b>	Comprehensive Hazard Education Program for Community Fairs and Special Events
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: The Lea County OEM (Office of Emergency Management) has been active in participating in numerous local events including, fire safety with all schools, vector control, defensible space and provides educational materials for distribution at these events along with posting on County website and social media. The County plans to continue this outreach in the future and at least annually.

Action #6 Provide Back-Up Power for Critical Facilities	
<b>Project Description:</b>	This project would allow for back-up power to be installed at critical facilities to ensure continuity of emergency services to the public during hazard events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants

## Mitigation Action Plans

<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	New Action

### Action #7 Disaster Resistant Community Marketing

<b>Project Description:</b>	Work with local retailers to promote Disaster Resistant Community framework. FEMA (Federal Emergency Management Agency) disaster readiness would be the emphasis at some of the stores within the community, i.e., lumber, hardware stores, to promote the city for disaster resistance by showing individuals how to use construction materials that are less susceptible to hazard damage and/or items that can help regulate water usage.
<b>Jurisdiction:</b>	City of Eunice
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	City of Eunice <a href="#">Fire &amp; Rescue</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: This action is in progress with the effort being lead through the Lea County OEM. No measurable progress due to lack of funding and staff resources.

### Action # 8 CRS & NFIP Participation

<b>Project Description:</b>	Jurisdiction to work on rating and are continuing to encourage NFIP participation annually through regular training and information updates to continue compliance with NFIP requirements.
<b>Jurisdiction:</b>	Eunice
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Eunice <a href="#">Administration</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

### Action # 9 Xeriscape Initiative

<b>Project Description:</b>	Create a xeriscape landscape garden and implement in future builds throughout the jurisdiction.
<b>Jurisdiction:</b>	Eunice
<b>Hazard(s) Addressed:</b>	Drought, Flood
<b>Responsible Agency:</b>	City of Eunice <a href="#">Administration</a>

## Mitigation Action Plans

<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

### 8.2.3 City of Hobbs

Action #1 Hobbs Drainage Basin/Diversion Channel Improvements	
<b>Project Description:</b>	This project consists of purchasing the right-of-way, performing the earthwork to construct an earthen channel and earthen detention basins, and installing various roadway crossings. This project was included in the Storm Drainage Management Plan in 1994 and was also incorporated into the City of Hobbs Flood Mitigation Plan, 1999. The channels will intercept floodwaters flowing towards the southeast before they enter the developed areas within the city limits and neighboring areas in Lea County. Eliminating these waters from entering the flow paths through the City will provide relief for existing storm drainage systems and roadways that carry run-off, allowing the existing facilities to protect properties from floodwaters. The city hopes that much of the 100-year flood zone for the City of Hobbs will be eliminated after the construction of this project.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering Department</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: Project is in progress and is still a priority for the City of Hobbs and is 20% complete.

Action #2 Update City of Hobbs Emergency Response Plan	
<b>Project Description:</b>	The project would review and evaluate the City of Hobbs existing emergency response plan and make updates to cover all hazards. Coordination between emergency response personnel and other departments will be to adapt to the potential hazards that impact our community
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Fire</a> , Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets

## Mitigation Action Plans

<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: Lea County is in the process of updating an EOP that will include the City of Hobbs and provide comprehensive emergency planning for the entire County; approximately 25% complete.

Action #3 CRS Application	
<b>Project Description:</b>	CRS (Community Rating System) Program Application Class 7
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: The City of Hobbs has implemented tasks and has Class 8 certification.

Action #4 Weather-Proofing Infrastructure	
<b>Project Description:</b>	Utility/Critical Facilities Manhole Infiltration Rings. Infiltration rings would be placed on all utility access hole covers that service all the flood zones that pertain to the sanitary sewer system. The excessive amounts of storm water input into the sanitary sewer system will lessen the overload effects to the treatment plant.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: Project has not been completed and will be included as a project within this HMP (Hazard Mitigation Plan) and has no measurable progress due to lack of funding and staff resources.

Action #5 Weather-Proofing Infrastructure	
<b>Project Description:</b>	Utility/Critical Facilities Fireproof Water Wells. The 28 water well sites within the City of Hobbs would be fire-proofed inside and out on the actual building site locations to prevent fire damage and loss of critical water to the city.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Wildfire
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Fire</a>

#### Mitigation Action Plans

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<b><i>Estimated Costs:</i></b>	Medium
<b><i>Funding Sources:</i></b>	Local budgets
<b><i>Timeline for Implementation:</i></b>	5 years
<b><i>Priority:</i></b>	Medium
<b><i>2022 Status:</i></b>	Deferred: Project has not been completed and will be included as a project within this HMP (Hazard Mitigation Plan) and has no measurable progress due to lack of funding and staff resources.

## Mitigation Action Plans

Action #6 Weather-Proofing Infrastructure	
<b>Project Description:</b>	Utility/Critical Facilities Fire Breaks at Critical Sites. This project would entail firebreaks around critical sites, water well locations, the Wastewater Treatment Plant, and other locations to prevent wildfire interface damage. We have experienced loss from wildfires burning up into the City of Hobbs city limits and causing damage. This would create firebreaks to prevent future occurrences.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Wildfire
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Fire</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: Project has not been completed and will be included as a project within this HMP (Hazard Mitigation Plan) and has no measurable progress due to lack of funding and staff resources.

Action #7 Disaster Resistant Community Marketing	
<b>Project Description:</b>	Work with local retailers to promote Disaster Resistant Community framework. FEMA (Federal Emergency Management Agency) disaster readiness would be the emphasis at some of the stores within the community, i.e., lumber, hardware stores, to promote the city for disaster resistance by showing individuals how to use construction materials that are less susceptible to hazard damage and/or items that can help regulate water usage.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: This action is in progress with the effort being lead through the Lea County OEM. No measurable progress due to lack of funding and staff resources.

Action #8 Adopt Policy on the Construction of Public Facilities/Critical Structures	
<b>Project Description:</b>	Develop a policy that will restrict the future construction of Public Facilities/Critical Structures without proper hazard resistant materials.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)

#### Mitigation Action Plans

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<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets,
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Project not completed and is addressed as review of County Wide Building Codes.

## Mitigation Action Plans

### Action #9 Property Acquisition

<b>Project Description:</b>	Acquiring properties prone to flood.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: Project not completed and considered not to have political or public support.

### Action #10 Mobile Home Anchoring

<b>Project Description:</b>	Adopt city ordinances to require anchoring of mobile homes. Require mobile homes within the city to be properly anchored and conduct technical assistance to assist mobile homeowners in properly anchoring their homes.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Severe Storms, Tornado
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Building Codes</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deleted

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## Mitigation Action Plans

Action #11 Bury Powerlines	
<b>Project Description:</b>	Bury powerlines to avoid power disruption during hazard events. Burying overhead facilities will decrease their vulnerability to outages due to hazard events. City staff to prepare documentation for city advisory boards' consideration of all newly constructed subdivisions to be installed with all underground utility services, as well as the City of Hobbs to consider underground improvement project for existing overhead utilities along primary trunk lines, strategic corridors, and arterial/collector roadways.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Severe Storms, Tornado, Winter Weather, Wildfire
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: No measurable progress has been made in the last 5 years due to lack of funding and staff resources.

## Mitigation Action Plans

### Action #12 Debris Management

<b>Project Description:</b>	Tree Trimming and Replacement Program. The City of Hobbs Parks and Recreation Department will establish a Tree Replacement Program to mitigate damage to critical City facilities near older trees, such as the Public Library. In addition, coordination with the existing utility companies will be established to monitor and implement a tree trimming program to protect aerial facilities.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Severe Storms, Tornado
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Parks</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: This project is in progress though the local utility providers and occurs on a regular basis

### Action #13 Water Irrigation

<b>Project Description:</b>	Effluent water irrigation systems. Establish effluent water irrigation systems to be utilized in watering golf courses and landscaped areas.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Drought
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: The City of Hobbs has completed projects that use effluent at landscaped areas around the City of Hobbs and continues to look for opportunities for additional projects and maintenance of areas.

### Action #14 Mass Alert

<b>Project Description:</b>	Mass public notification and warning system.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium

## Mitigation Action Plans

<b>2022 Status:</b>	To Be Continued: In 2012, the County purchased the CodeRed Warning System and is providing weather and hazard warnings throughout the County. This system is phone, text and email based and can provide up-to-the-minute information to the public. It operates on both landline and cell phone systems and requires annual updating, maintenance, outreach, and training.
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### Action #15 Hazard Education

<b>Project Description:</b>	Comprehensive Hazard Education Program for Community Fairs and Special Events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: The Lea County OEM (Office of Emergency Management) has been active in participating in numerous local events including, fire safety with all schools, vector control, defensible space and provides educational materials for distribution at these events along with posting on County website and social media. The County plans to continue this outreach in the future and at least annually.

### Action #16 Provide Back-Up Power for Critical Facilities

<b>Project Description:</b>	This project would allow for back-up power to be installed at critical facilities to ensure continuity of emergency services to the public during hazard events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	New Action

### Action # 17 Xeriscape Initiative

<b>Project Description:</b>	Create a xeriscape landscape garden and implement in future builds throughout the jurisdiction.
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## Mitigation Action Plans

<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Drought, Flood
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Parks &amp; Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

Action #18 GIS Database of Critical Facilities, Vulnerable Structures and Hazards	
<b>Project Description:</b>	Update and improve the GIS database with critical facilities, vulnerable populations database, update structures for existing uses, and locations of hazardous material storage
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Severe Storms, Tornado, Flood, Wildfire
<b>Responsible Agency:</b>	City of Hobbs <a href="#">GIS</a> / Mapping
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Project not completed and requires continuous update as structures change, added or deleted.

Action #19 Update Flood Mapping	
<b>Project Description:</b>	Update FEMA FIRMs with Base Flood Elevation and reduce the number of Zone A & AO to accurately reflect special flood hazard areas.
<b>Jurisdiction:</b>	City of Hobbs
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Hobbs <a href="#">Engineering</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: The City has acquired aerial and mobile LiDAR for the City of Hobbs and surrounding area

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## Mitigation Action Plans

### 8.2.4 City of Jal

#### Action #1 Extreme Heat Evacuation

<b>Project Description:</b>	Intensify the list of homebound citizens for proper evacuation in case of extreme heat. Information included on everyone will include street address, phone number, disability, and any special needs.
<b>Jurisdiction:</b>	City of Jal
<b>Hazard(s) Addressed:</b>	Extreme Heat
<b>Responsible Agency:</b>	City of Jal <a href="#">EMS</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Completed: The County has an evacuation plan in place in the Lea County EOP.

#### Action #2 Hazard Education

<b>Project Description:</b>	Comprehensive Hazard Education Program for Community Fairs and Special Events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: The Lea County OEM (Office of Emergency Management) has been active in participating in numerous local events including, fire safety with all schools, vector control, defensible space and provides educational materials for distribution at these events along with posting on County website and social media. The County plans to continue this outreach in the future and at least annually.

#### Action #3 Mass Alert

<b>Project Description:</b>	The addition of two sirens to the warning system
<b>Jurisdiction:</b>	City of Jal
<b>Hazard(s) Addressed:</b>	Severe Storms, Tornado, Wildfire
<b>Responsible Agency:</b>	City of Jal <a href="#">Police</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budget
<b>Timeline for Implementation:</b>	5 years

## Mitigation Action Plans

<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: CodeRed Warning System is providing weather and hazard warnings throughout the County, including the City of Jal. The complimentary warning sirens are approximately 75% complete.

Action #4 Mass Alert	
<b>Project Description:</b>	Mass public notification and warning system.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: In 2012, the County purchased the CodeRed Warning System and is providing weather and hazard warnings throughout the County. This system is phone, text and email based and can provide up-to-the-minute information to the public. It operates on both landline and cell phone systems and requires annual updating, maintenance, outreach, and training.

Action #5 Provide Back-Up Power for Critical Facilities	
<b>Project Description:</b>	This project would allow for back-up power to be installed at critical facilities to ensure continuity of emergency services to the public during hazard events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	New Action

Action # 6 CRS & NFIP Participation	
<b>Project Description:</b>	Jurisdiction to work on rating and are continuing to encourage NFIP participation annually through regular training and information updates to continue compliance with NFIP requirements.
<b>Jurisdiction:</b>	Jal
<b>Hazard(s) Addressed:</b>	Flood

#### Mitigation Action Plans

<b>Responsible Agency:</b>	City of Jal <u>Administration</u>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

Action # 7 Xeriscape Initiative	
<b>Project Description:</b>	Create a xeriscape landscape garden and implement in future builds throughout the jurisdiction.
<b>Jurisdiction:</b>	City of Jal
<b>Hazard(s) Addressed:</b>	Drought, Flood
<b>Responsible Agency:</b>	City of Jal <u>Planning</u>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

## 8.2.5 City of Lovington

Action #1 Hazard Education	
<b>Project Description:</b>	Comprehensive Hazard Education Program for Community Fairs and Special Events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: The Lea County OEM (Office of Emergency Management) has been active in participating in numerous local events including, fire safety with all schools, vector control, defensible space and provides educational materials for distribution at these events along with posting on County website and social media. The County plans to continue this outreach in the future and at least annually.

Action #2 CRS Application	
<b>Project Description:</b>	Join the Community Rating System. The City of Lovington is not involved in the Community Rating System program now. Points may be given for participation in the Lea County All Hazard Mitigation Plan.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning &amp; Zoning</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: The City of Lovington is currently working with the Lea County Floodplain Manager to complete this effort; approximately 25% complete.

Action #3 Mass Alert	
<b>Project Description:</b>	Mass public notification and warning system.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium

## Mitigation Action Plans

<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: In 2012, the County purchased the CodeRed Warning System and is providing weather and hazard warnings throughout the County. This system is phone, text and email based and can provide up-to-the-minute information to the public. It operates on both landline and cell phone systems and requires annual updating, maintenance, outreach, and training.

Action #4 Water Conservation Project	
<b>Project Description:</b>	Conserve outside water by planting landscape plants that require less water. Require watering outdoors after 5:30 PM and before 10 PM.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Drought
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: Project in progress; 10 percent complete.

Action #5 Hazard Education for Drought	
<b>Project Description:</b>	Comprehensive Education Program for drought awareness.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Drought
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning &amp; Lea County EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	In Progress: Project in progress in conjunction with the Lea County OEM; 10 percent complete.

Action #6 Provide Back-Up Power for Critical Facilities	
<b>Project Description:</b>	This project would allow for back-up power to be installed at critical facilities to ensure continuity of emergency services to the public during hazard events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>

## Mitigation Action Plans

<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	New Action

### Action #7 Update and/or correct Flood Maps

<b>Project Description:</b>	This project would allow LOMR for area incorrectly mapped on FIRM panel 965 D, map number 35025C0965D, South end of the Main Street Ditch.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	New Action

### Action #8 Flood Drainage

<b>Project Description:</b>	This project would allow drainage design and construction for E Washington Ave, E Central Ave, and S Eddy St.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning</a>
<b>Estimated Costs:</b>	High
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Low
<b>2022 Status:</b>	New Action

### Action #9 Flood Drainage

<b>Project Description:</b>	This project would allow Drainage design and construction for the FIRM panel 965 D, map number 35025C0965D, Railroad Ditch.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning</a>
<b>Estimated Costs:</b>	High
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Low
<b>2022 Status:</b>	New Action

## Mitigation Action Plans

Action #10 Disaster Resistant Community Marketing	
<b>Project Description:</b>	Work with local retailers to promote Disaster Resistant Community framework. FEMA (Federal Emergency Management Agency) disaster readiness would be the emphasis at some of the stores within the community, i.e., lumber, hardware stores, to promote the city for disaster resistance by showing individuals how to use construction materials that are less susceptible to hazard damage and/or items that can help regulate water usage.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	City of Lovington <a href="#">Administration</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: This action is in progress with the effort being lead through the Lea County OEM. No measurable progress due to lack of funding and staff resources.

Action # 11 Xeriscape Initiative	
<b>Project Description:</b>	Create a xeriscape landscape garden and implement in future builds throughout the jurisdiction.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Drought, Flood
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

Action #12 Property Acquisition	
<b>Project Description:</b>	Acquiring properties prone to flood or in SFHA or floodways.
<b>Jurisdiction:</b>	City of Lovington
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Lovington <a href="#">Planning</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium

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## Mitigation Action Plans

<b>2022 Status:</b>	New Action
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### 8.2.6 Town of Tatum

Action #1 Hazard Education	
<b>Project Description:</b>	Comprehensive Hazard Education Program for Community Fairs and Special Events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: The Lea County OEM (Office of Emergency Management) has been active in participating in numerous local events including, fire safety with all schools, vector control, defensible space and provides educational materials for distribution at these events along with posting on County website and social media. The County plans to continue this outreach in the future and at least annually.

Action #2 Implement Audible Alert System	
<b>Project Description:</b>	Maintain an audible alert system and ensure all residents are informed of signal meanings.
<b>Jurisdiction:</b>	City of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	City of Tatum <a href="#">Fire</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: On-going drills and public information are occurring annually.

## Mitigation Action Plans

Action #3 Mass Alert	
<b>Project Description:</b>	Mass public notification and warning system.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	To Be Continued: In 2012, the County purchased the CodeRed Warning System and is providing weather and hazard warnings throughout the County. This system is phone, text and email based and can provide up-to-the-minute information to the public. It operates on both landline and cell phone systems and requires annual updating, maintenance, outreach, and training

Action #4 Provide Indoor Climate Control	
<b>Project Description:</b>	Provide indoor climate control for the vulnerable populations during hazard events. The city will join churches and community groups to help provide inexpensive air conditioning/box fans/heaters to the vulnerable populations to decrease the danger of extreme weather on these populations during hazard events.
<b>Jurisdiction:</b>	City of Tatum
<b>Hazard(s) Addressed:</b>	Floods, Tornado, Severe Weather, Extreme Heat, Winter Storm
<b>Responsible Agency:</b>	City of Tatum <a href="#">Administration</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budget
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: No measurable progress has been made in the last 5 years due to lack of funding and staff resources.

Action #5 Back-Up Power for Critical Facilities	
<b>Project Description:</b>	Installing power surge protectors and battery backup in critical facilities.
<b>Jurisdiction:</b>	City of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	City of Tatum <a href="#">Administration</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budget
<b>Timeline for Implementation:</b>	5 years

## Mitigation Action Plans

<b>Priority:</b>	Medium
<b>2022 Status:</b>	Deferred: No measurable progress has been made in the last 5 years due to lack of funding and staff resources.

### Action #6 Provide Back-Up Power for Critical Facilities

<b>Project Description:</b>	This project would allow for back-up power to be installed at critical facilities to ensure continuity of emergency services to the public during hazard events.
<b>Jurisdiction:</b>	Lea County, City of Eunice, City of Hobbs, City of Jal, City of Lovington, Town of Tatum
<b>Hazard(s) Addressed:</b>	All Hazards (Flood, Tornado, Severe Weather, Extreme Heat, Drought, Winter Storm, Wildfire)
<b>Responsible Agency:</b>	Lea County <a href="#">EM</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets, Grants
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	High
<b>2022 Status:</b>	New Action

### Action # 7 CRS & NFIP Participation

<b>Project Description:</b>	Jurisdiction to work on rating and are continuing to encourage NFIP participation annually through regular training and information updates to continue compliance with NFIP requirements.
<b>Jurisdiction:</b>	City of Tatum
<b>Hazard(s) Addressed:</b>	Flood
<b>Responsible Agency:</b>	City of Tatum <a href="#">Administration</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium
<b>2022 Status:</b>	New Action

### Action # 8 Xeriscape Initiative

<b>Project Description:</b>	Create a xeriscape landscape garden and implement in future builds throughout the jurisdiction.
<b>Jurisdiction:</b>	City of Tatum
<b>Hazard(s) Addressed:</b>	Drought, Flood
<b>Responsible Agency:</b>	City of Tatum <a href="#">Administration</a>
<b>Estimated Costs:</b>	Medium
<b>Funding Sources:</b>	Local budgets
<b>Timeline for Implementation:</b>	5 years
<b>Priority:</b>	Medium

**Mitigation Action Plans**

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## SECTION 9: PLAN MAINTENANCE AND PROCEDURES

This section discusses how the Lea County Mitigation Strategy and Mitigation Action Plan will be implemented and how the Plan will be evaluated and enhanced over time. This section also discusses how the public will continue to be involved in a sustained hazard mitigation planning process. It consists of the following three subsections:

- ◆ 9.1 Implementation and Integration
- ◆ 9.2 Monitoring, Evaluation, Update and Enhancement
- ◆ 9.3 Continued Public Involvement

### 44 CFR Requirement

#### **44 CFR Part 201.6(c)(4)(i):**

The plan shall include a plan maintenance process that includes a section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

#### **44 CFR Part 201.6(c)(4)(ii):**

The plan maintenance process shall include a process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

### 9.1 Implementation and Integration

Each agency, department, or other partner participating under the Lea County Hazard Mitigation Plan is responsible for implementing specific mitigation actions as prescribed in the Mitigation Action Plan. Every proposed action listed in the Mitigation Action Plan is assigned to a specific “lead” agency or department to assign responsibility and accountability and increase the likelihood of subsequent implementation.

In addition to the assignment of a local lead department or agency, an implementation period or a specific implementation date has been assigned to assess whether actions are being implemented in a timely fashion. The County will seek outside funding sources to implement mitigation projects in both the pre-disaster and post-disaster environments. When applicable, potential funding sources have been identified for proposed actions listed in the Mitigation Action Plan.

The participating jurisdictions will integrate this Plan into relevant city and county government decision-making processes or mechanisms, where feasible. This includes integrating the requirements of the Plan into other local planning documents, processes, or mechanisms, such as comprehensive or capital improvement plans, when appropriate. The members of the Lea County Hazard Mitigation Planning Team will remain charged with ensuring that the goals and mitigation actions of new and updated local planning documents for their agencies or departments are consistent, or do not conflict with, the goals and actions of the Plan, and will not contribute to increased hazard vulnerability in the County.

Since the previous Plan was adopted the county and participating jurisdiction has worked to integrate the Plan into other planning mechanisms where applicable/feasible. Examples of how this integration has occurred have been documented in the Implementation Status discussion provided for each of the mitigation actions found in Section 8. Specific examples of how integration has occurred include:

- Integrating the mitigation plan (level of flooding risk) into reviews and updates of floodplain management ordinances. (Lea County and Lovington)
- Integrating the mitigation plan (critical facilities) into reviews and updates of County emergency operations plans. (Lea County)
- Integrating the mitigation plan (cross reference data) into review and updates of building codes. (Lea County and Lovington)
- Integrating the mitigation plan into the capital improvements plan through identification of mitigation actions that may require local funding. (Lea County, Eunice, Hobbs, Jal, Lovington, Tatum)

Opportunities to further integrate the requirements of this Plan into other local planning mechanisms shall continue to be identified through future meetings of the Hazard Mitigation Planning Team, individual county meetings, and the annual review process described herein. Although it is recognized that there are many benefits to integrating components of this Plan into other local planning mechanisms, the development and maintenance of this stand-alone Hazard Mitigation Plan is deemed by the Planning Team to be the most effective and appropriate method to implement local hazard mitigation actions at this time.

### **9.2 Monitoring, Evaluation, Update and Enhancement**

Periodic revisions and updates of the Plan are required to ensure that the goals of the Plan update are kept current, considering potential changes in hazard vulnerability and mitigation priorities. In addition, updates may be necessary to ensure that the Plan is in full compliance with applicable federal and state regulations. Periodic evaluation of the Plan will also ensure specific mitigation actions are being reviewed and done according to the Mitigation Action Plan.

The Lea County Emergency Management Coordinator will be responsible for reconvening the Hazard Mitigation Planning Team for these reviews.

Plan monitoring can be defined as the ongoing process by which stakeholders obtain regular feedback on the progress being made towards achieving their goals and objectives. In the more limited approach, monitoring may focus on tracking projects and the use of the agency's resources. In the broader approach, monitoring also involves tracking strategies and actions being taken by partners and non-partners, and figuring out what new strategies and actions need to be taken to ensure progress towards the most important results. A monitoring report will be written and submitted to the LEPC (Local Emergency Planning Committee) annually and/or when triggered by a situation change. The Mitigation Action Progress Report Form (Worksheet 7.1 from FEMA) will form the basis of questions to be asked and progress/obstacles to report. The plan maintenance process is cyclical and maintenance items can operate simultaneously within the process.

A plan evaluation is a rigorous and independent assessment of either completed or ongoing activities to determine the extent to which they are achieving stated objectives and contributing to decision making. An evaluation report will be written and submitted to the LEPC when the situation dictates. The following situations are typical examples of when an evaluation will be necessary: Post hazard event; Post tabletop or drill exercise; Meaningful change or completion of a mitigation project and/or action. The Plan Update Evaluation Worksheet (Worksheet 7.2 from FEMA) will provide the evaluation report's basis.

See Appendix G for FEMA guidance worksheets to facilitate plan maintenance.

### **9.2.1 Five Year Plan Review and Update**

The Plan will be thoroughly reviewed by the Hazard Mitigation Planning Team every five years to determine whether there have been any significant changes in the County that may, in turn, necessitate updates in the types of mitigation actions proposed. New development in identified hazard areas, an increased exposure to hazards, an increase or decrease in capability to address hazards, and changes to federal or state legislation are examples of factors that may affect the necessary content of the Plan.

The Plan review provides county officials with an opportunity to evaluate those actions that have been successful and to explore the possibility of documenting potential losses avoided due to the implementation of specific mitigation measures. The Plan review also provides the opportunity to address mitigation actions that may not have been successfully implemented as assigned. The Lea County Emergency Management Coordinator will be responsible for reconvening the Hazard Mitigation Planning Team and conducting the five-year review and update.

During the five-year plan review and update process, the following questions will be considered as criteria for assessing the effectiveness and appropriateness of the Plan:

- Do the goals address current and expected conditions?
- Has the nature or magnitude of risks changed?
- Are the current resources appropriate for implementing the Plan?
- Are there implementation problems, such as technical, political, legal or coordination issues with other agencies?
- Have the outcomes occurred as expected?
- Did County departments participate in the plan implementation process as assigned?

Following the five-year review and update, any updates deemed necessary will be summarized and implemented according to the reporting procedures and plan amendment process outlined herein. Upon completion of the review and update/amendment process, the Hazard Mitigation Plan will be submitted to the State Hazard Mitigation Officer at the New Mexico Department of Homeland Security and Emergency Management (NMDHSEM) for final review and approval in coordination with the Federal Emergency Management Agency (FEMA).

Because the plan update process can take several months to complete, and because Federal funding may be needed to update the plan, it is recommended that the five-year review process begin at the beginning of the third year after the plan was last approved. This will allow the participants in the Hazard Mitigation Plan to organize to seek Federal funding if necessary and complete required plan update documentation before the plan expires at the end of the fifth year.

### **9.2.2 Disaster Declaration**

Following a disaster declaration, the Hazard Mitigation Plan will be revised as necessary to reflect lessons learned, or to address specific issues and circumstances arising from the event. It will be the responsibility of the Lea County Emergency Management Coordinator to reconvene the Hazard Mitigation Planning Team and ensure the appropriate stakeholders are invited to participate in the plan revision and update process following declared disaster events.

### **9.2.3 Reporting Procedures**

The results of the five-year review and update will be summarized by the Hazard Mitigation Planning Team in a report that will include an evaluation of the effectiveness of the Plan and any required or recommended changes or amendments. The report will also include an evaluation of implementation

progress for each of the proposed mitigation actions, identifying reasons for delays or obstacles to their completion along with recommended strategies to overcome them.

#### 9.2.4 Plan Amendment Process

Upon the amendment process's initiation, County representatives will forward information on the proposed change(s) to all interested parties including all directly affected County departments, residents, and businesses. Information will also be forwarded to the New Mexico Department of Homeland Security and Emergency Management. This information will be disseminated to seek input on the proposed amendment(s) for no less than a 45-day review and comment period.

At the end of the 45-day review and comment period, the proposed amendment(s) and all comments will be forwarded to the Hazard Mitigation Planning Team for final consideration. The Planning Team will review the proposed amendment along with the comments received from other parties, and if acceptable, the committee will submit a recommendation for the approval and adoption of changes to the Plan.

In determining whether to recommend approval or denial of a Plan amendment request, the following factors will be considered by the Hazard Mitigation Planning Team:

- There are errors, inaccuracies, or omissions made in the identification of issues or needs in the Plan.
- Current issues or needs have been identified which are not addressed in the Plan.
- There has been a change in information, data, or assumptions from those on which the Plan is based.

Upon receiving the recommendation from the Hazard Mitigation Planning Team, and prior to adoption of the Plan, the participating jurisdictions will hold a public hearing, if deemed necessary. The governing bodies of each participating jurisdiction will review the recommendation from the Hazard Mitigation Planning Team (including the factors listed above) and any oral or written comments received at the public hearing. Following that review, the governing bodies will take one of the following actions:

- Adopt the proposed amendments as presented.
- Adopt the proposed amendments with modifications.
- Refer the amendments request back to the Planning Team for further revision.
- Defer the amendment request back to the Planning Team for further consideration and/or additional hearings.

### 9.3 Continued Public Involvement

<b>44 CFR Requirement</b>
<b>44 CFR Part201.6(c)(4)(iii):</b> The plan maintenance process shall include a discussion on how the community will continue public participation in the plan maintenance process.

Public participation is an integral component to the mitigation planning process and will continue to be essential as this Plan evolves over time. As described above, significant changes or amendments to the Plan shall require a public hearing prior to any adoption procedures.

Other efforts to involve the public in the maintenance, evaluation, monitoring and update process will be made annually. These efforts may include:

- Advertising meetings of the Hazard Mitigation Planning Team in local newspapers, public bulletin boards and/or County office buildings, websites, and social media platforms.
- Designating willing and voluntary citizens and private sector representatives as official members of the Hazard Mitigation Planning Team.
- Utilizing local media to update the public on any maintenance and/or periodic review activities taking place.
- Using social media to advertise comment opportunities and participate in surveys.
- Utilizing the websites of participating jurisdictions to advertise any maintenance and/or periodic review activities taking place.
- Keeping copies of the Plan update in public libraries.

**CITY OF LOVINGTON**  
**COMMISSION STAFF SUMMARY FORM**

MEETING DATE: 2/12/2024



Item Type: Resolution

**SUBJECT:** Resolution 2024-010 - MOA Between City and Nor-Lea - Elimination of Water Charges for Wellness Center  
**DEPARTMENT:** City Managers Office  
**SUBMITTED BY:** David Miranda  
**DATE SUBMITTED:** 1/26/2024

**COMPREHENSIVE PLAN IMPLEMENTATION:**

**STAFF SUMMARY:**

The Agreement will eliminate water usage charges to the Lovington Wellness Center and allow citizens to utilize Wellness Center's soccer fields and walking track at no charge.

**FISCAL IMPACT:**

**RECOMMENDATION:**

**ATTACHMENTS:**

Description
Res 2024-010 - MOA City and Lovington Wellness Center
Wellness Center Agreement - 2016

Type
Cover Memo
Cover Memo

**RESOLUTION 2024-010**  
**MEMORANDUM OF AGREEMENT FOR THE NOR-LEA HOSPITAL DISTRICT’S**  
**LOVINGTON WELLNESS CENTER**

**Between**  
**CITY OF LOVINGTON & NOR-LEA HOSPITAL DISTRICT**

This agreement (“Agreement”) is made this 12<sup>th</sup> day of February, 2024 between the City of Lovington, New Mexico, a political subdivision organized and existing under the laws of the State of New Mexico acting by and through its duly constituted City Commission, hereinafter referred to as “City”, and the Nor-Lea Hospital District, a political subdivision organized and existing under the laws of the State of New Mexico, acting by and through its duly constituted Board, hereinafter referred to as “Hospital District”.

**RECITALS**

**WHEREAS** the City of Lovington provides its residents with the opportunity to access parks for recreation.

**WHEREAS** Nor-Lea Hospital District built the Lovington Wellness Center which has an outside walking track and soccer field.

**WHEREAS** the City of Lovington agrees to waive water usage fees for the Lovington Wellness Center and LWC agrees to allow Lovington residents free access to the walking track and soccer fields unless otherwise reserved by a member or for a Hospital District activity.

**NOW, THEREFORE**, in consideration of the agreements and covenants contained herein the parties agree as follows:

**AGREEMENT**

**1.0     COMPENSATION**

The city agrees to waive water usage fees specifically for the Lovington Wellness Center.

**2.0     PAYMENT**

The Hospital District shall ensure reasonable access to the public to its soccer field and walking track. Hospital District will also ensure upkeep of the soccer fields and walking track.

### **3.0 TERM**

The term of this agreement will begin on February 1, 2024, and end on January 31, 2029. It may be renewed for additional one-year terms unless either party terminates the agreement.

### **4.0 NOTICES: REPRESENTATIVES OF THE PARTIES**

Any notice required to be given to either party by this Agreement shall be in writing and shall be delivered in person, by courier services or by U.S. Mail, either first class or certified, return receipt requested, postage prepaid, as follows. The parties hereby designate the individuals named below as their representative responsible for overall administration of this Agreement.

#### **To Hospital:**

Nor-Lea Hospital District  
David Shaw, CEO/Administrator  
1600 North Main  
Lovington, New Mexico 88260

#### **To City:**

Lovington City Hall  
David Miranda  
214 S. Love Street  
Lovington New Mexico 88260

### **5.0 LIABILITY**

Both the City and Hospital District is a governmental entity as that term is defined in the New Mexico Torts Claims Act, '41-4-1 NMSA, 1978 Comp., as amended, *et seq* and are subject to the limitations of damages as afforded by that Act. Each entity shall show proof of insurance which would include as insured hazards the activities contemplated by the parties' respective uses of the Fitness Center.

Each entity, City, and Hospital District shall provide proof of liability insurance in an amount sufficient to cover any judgment which could obtain against either of such entities under the New Mexico Torts Claims Act.

In the event of liability claim against City or Hospital Distract, the party which is named as the tortfeasor shall be solely responsible for the payment of such claim if it is adjudicated to be liable. In the event that a liability claim is made against both of the entities, unless otherwise required by law, liability shall not be joint and several but shall be apportioned among each named entity as adjudicated by a court at law or as settle among the parties to any such civil action or as adjudicated by an arbitrator selected by the entities.

### **6.0 AMENDMENTS**

This Agreement may be amended only by a written instrument signed by all parties, and then only to the extent of such instrument.

## **7.0 GOVERNING LAW**

This Agreement shall be governed by the laws of the State of New Mexico. Jurisdiction and venue relation to any litigation or dispute arising out of this Agreement shall be in the District Court of Lea County, New Mexico, only. If any part of this contract shall be deemed in violation of the laws or Constitution of New Mexico, only such part thereof shall be thereby invalidated, and all other parts hereof shall remain valid and enforceable.

If any party is found by a court to have breached this Agreement, the breaching party agrees to pay all reasonable costs, attorney's fees and expenses that shall be made or incurred by another party in enforcing any covenant or provision of this Agreement, including the expenses of in-house counsel.

### **SIGNATURE PAGE**

**IN WITNESS WHEREOF**, we have hereunto affixed our hands and seals this 12<sup>th</sup> day of February, 2024.

**NOR-LEA HOSPITAL DISTRICT**

**CITY OF LOVINGTON, NEW MEXICO**

By: \_\_\_\_\_  
CEO/Administrator

By: \_\_\_\_\_  
David Miranda, Lovington City Manager

**ATTEST:** Nor-Lea Hospital District  
President, Board of Trustees

**ATTEST:** Mayor, City Counsel

By: \_\_\_\_\_

By: \_\_\_\_\_  
Howard D. Roberts, Mayor

**RESOLUTION OF THE CITY OF LOVINGTON  
LEA COUNTY, NEW MEXICO**

**RESOLUTION NO. 2016-44**

**EXECUTION OF AN AGREEMENT BETWEEN THE CITY OF LOVINGTON, NOR LEA  
HOSPITAL, AND LOVINGTON MUNICIPAL SCHOOLS FOR A COMMUNITY WELLNESS  
AND FITNESS CENTER**

**WHEREAS**, the City adopted Resolution 2016-2 on January 11, 2016 that endorsed the planned Community Wellness and Fitness Center and committed financial support for operational costs; and

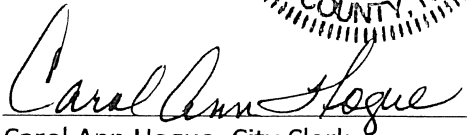
**WHEREAS**, the agreement between the City, Nor Lea Hospital, and Lovington Municipal Schools is ready for adoption.

**NOW, THEREFORE, BE IT RESOLVED**, that the Lovington City Commission authorizes the Mayor to execute the agreement, attached hereto for reference, between the City of Lovington, Nor Lea Hospital, and Lovington Public Schools for the Community Wellness and Fitness Center.

DONE THIS 11<sup>TH</sup> DAY OF JULY, 2016 at



ATTEST:

  
Carol Ann Hogue, City Clerk

City of Lovington  
New Mexico

  
Paul Campos, Mayor

**MEMORANDUM OF AGREEMENT FOR THE NOR LEA HOSPITAL COMMUNITY  
WELLNESS AND FITNESS CENTER**

**Between  
CITY OF LOVINGTON, NM & NOR LEA HOSPITAL DISTRICT**

This agreement ("Agreement") is made this 11<sup>th</sup> day of July, 2016 between the Commission of the City of Lovington, New Mexico ("City"), a municipal corporation organized and existing under the laws of the State of New Mexico, acting by and through its duly constituted City Commission, hereinafter referred to as "City" and the Nor-Lea Hospital District, a political subdivision organized and existing under the laws of the State of New Mexico, acting by and through its duly constituted Board, hereinafter referred to as "Hospital District".

**RECITALS**

**WHEREAS**, the Hospital District has planned for and agreed to provide funding for the construction of a Community Wellness and Fitness Center ("Center") in Lovington, New Mexico; and

**WHEREAS**, the Hospital District has requested financial assistance to provide for operating costs of the Center; and

**WHEREAS**, the City adopted Resolution 2016-2 on January 11, 2016 that endorsed the planned Center and committed financial support for a portion of the operational costs to not exceed \$9,375 per month

**NOW, THEREFORE**, in consideration of the agreements and covenants contained herein the parties agree as follows:

**AGREEMENT**

**1.0     COMPENSATION**

City agrees to reimburse the Hospital District a maximum nine thousand, three hundred seventy-five dollars and no cents (\$9,375) per month for operating costs that can include, but not limited to the heating, cooling, maintenance, and upkeep of the Center.

**2.0     PAYMENT**

The Hospital District shall submit to the City an invoice monthly requesting reimbursement for the City share of operating costs.

City shall provide reimbursement to the Hospital District within fifteen days (15) of receipt of all documentation required under this paragraph 2.0.

Hospital District shall be strictly accountable for receipts and documents relating hereto and shall make all relevant financial records available to City upon request.

### **3.0 TERM**

The term of this agreement will begin on the first day of operation of the Center and terminate five (5) years from the first day of operation.

### **4.0 NOTICES; REPRESENTATIVES OF THE PARTIES**

Any notice required to be given to either party by this Agreement shall be in writing and shall be delivered in person, by courier service or by U.S. Mail, either first class or certified, return receipt requested, postage prepaid, as follows. The parties hereby designate the individuals named below as their representative responsible for overall administration of this Agreement.

To City:  
Lovington City Hall  
214 S. Love Street  
Lovington, New Mexico 88260  
Attn: James R. Williams, City Manager

To Hospital District:  
Nor-Lea Hospital District  
1600 N. Main Street  
Lovington, New Mexico 88260  
Attn: David Shaw, CEO

### **5.0 LIABILITY**

The Hospital District shall indemnify, defend, and hold harmless the City, its employees, agents, officers and officials from any and all claims, demands, losses, causes of action, costs, expenses, and liability of any nature whatsoever, including court costs, attorney's fees, and any expenses incurred in enforcing this provision, which may result from, arise out of, be related to, or in any way be connected with the Center being owned, managed, and operated by the Hospital District; provided, however, that nothing shall be construed to require or obligate the Hospital District to indemnify the City of Lovington against or hold the City harmless from the City's own negligent acts or omissions.

### **6.0 AMENDMENTS**

This Agreement may be amended only by a written instrument signed by all the parties, and then only to the extent of such instrument.

## 7.0 GOVERNING LAW

This Agreement shall be governed by the laws of the State of New Mexico. Jurisdiction and venue relating to any litigation or dispute arising out of this Agreement shall be in the District Court of Lea County, New Mexico, only. If any part of this contract shall be deemed in violation of the laws or Constitution of New Mexico, only such part thereof shall be thereby invalidated, and all other parts hereof shall remain valid and enforceable.

If any party is found by a court to have breached this Agreement, the breaching party agrees to pay all reasonable costs, attorney's fees and expenses that shall be made or incurred by another party in enforcing any covenant or provision of this Agreement, including the expenses of in house counsel.

## 8.0 COMMUNITY WELLNESS ADVISORY COMMITTEE

1. A Community Wellness Advisory Committee will be created that will serve to provide input to the Hospital District as to the need for programs, activities, equipment and additions to the Center. This Committee will not be responsible for the oversight, management, or operation of the Center.
2. The City will appoint two individuals to serve on the Advisory Committee.
3. The Committee will periodically no less than twice per year report to the City progress toward community goals.

IN WITNESS WHEREOF, we have hereunto affixed our hands and seals this 16 day of JULY, 2016.

### NOR LEA HOSPITAL DISTRICT

By: Agustin Dorado  
President, Board of Trustees

ATTEST: Nor Lea Hospital District  
Secretary of Board of Trustees

By: Patricia

### CITY OF LOVINGTON, NEW MEXICO

By: Paul Campos  
Mayor

ATTEST: Lovington City Clerk

By: Carla  


### APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

By: James Edelman  
Nor Lea Hospital District Attorney

By: Paul Campos  
Lovington City Attorney



Lovington, NM

# Expense Approval Report

## By Vendor Name

Payment Dates 1/22/2024 - 2/9/2024

Vendor Name	Description (Item)	Amount
<b>Vendor: 10012 - A &amp; I Ditching</b>		
A & I Ditching	ww-electrical work	2,200.52
Vendor 10012 - A & I Ditching Total:		2,200.52
<b>Vendor: 10104 - Alsco</b>		
Alsco	Ambulance-Linens	169.44
Alsco	Ambulance-Linens	253.94
Vendor 10104 - Alsco Total:		423.38
<b>Vendor: 14746 - AMY'S ABSOLUTE BEST</b>		
AMY'S ABSOLUTE BEST	APS -cleaning Jan	1,100.00
Vendor 14746 - AMY'S ABSOLUTE BEST Total:		1,100.00
<b>Vendor: 10189 - ASCO</b>		
ASCO	Street,air /heater buttons	1,335.61
Vendor 10189 - ASCO Total:		1,335.61
<b>Vendor: 10205 - Audie's Copier Repair Service</b>		
Audie's Copier Repair Service	W-COPIES RICOH C5503 INV#...	440.42
Audie's Copier Repair Service	W-COPIES RICOH C5503 INV#...	440.42
Audie's Copier Repair Service	FIN-MAINTENCE AGREEMENT	483.74
Audie's Copier Repair Service	Ambulance-Copy Machine Ma...	237.61
Audie's Copier Repair Service	Ambulance-Copy Machine Ma...	145.30
Vendor 10205 - Audie's Copier Repair Service Total:		1,747.49
<b>Vendor: 13741 - AutoZone Stores, Inc</b>		
AutoZone Stores, Inc	Street,battery for sweeper	107.34
AutoZone Stores, Inc	Parks- Battery for tractor	128.99
Vendor 13741 - AutoZone Stores, Inc Total:		236.33
<b>Vendor: 13936 - Battle Energy Services</b>		
Battle Energy Services	ww-training	315.75
Vendor 13936 - Battle Energy Services Total:		315.75
<b>Vendor: 14705 - BEACON INVESTIGATIONS &amp; POLYGRAPH LLC</b>		
BEACON INVESTIGATIONS & ...	Police Inv 15-0627 J Jaimes pr...	508.25
Vendor 14705 - BEACON INVESTIGATIONS & POLYGRAPH LLC Total:		508.25
<b>Vendor: 10268 - BenMark Supply Company Inc.</b>		
BenMark Supply Company Inc.	ww manhole lids	1,180.00
BenMark Supply Company Inc.	plug-influent pump room	2,351.00
Vendor 10268 - BenMark Supply Company Inc. Total:		3,531.00
<b>Vendor: 14381 - BJ Pipe &amp; Supply LLC</b>		
BJ Pipe & Supply LLC	ww supplies	65.45
Vendor 14381 - BJ Pipe & Supply LLC Total:		65.45
<b>Vendor: 10293 - Blaine Industrial Supply</b>		
Blaine Industrial Supply	Police Janitorial Supplies	669.45
Blaine Industrial Supply	cleaning supplies for youth ce...	167.99
Blaine Industrial Supply	Fire-Station Supplies	137.57
Vendor 10293 - Blaine Industrial Supply Total:		975.01
<b>Vendor: 10300 - BlueTarp Financial, Inc.</b>		
BlueTarp Financial, Inc.	Water- Magnetic Locators	1,367.46
Vendor 10300 - BlueTarp Financial, Inc. Total:		1,367.46
<b>Vendor: 10309 - Bob's Thriftway</b>		
Bob's Thriftway	SC-food for meals-FF	11.79
Bob's Thriftway	SC-food for meals-FF	11.79
Bob's Thriftway	SC-food for meals-FF	11.79
Bob's Thriftway	APS-PAPER TOWEL, LAUNDRY ...	243.22

## Expense Approval Report

Payment Dates: 1/22/2024 - 2/9/2024

Vendor Name	Description (Item)	Amount
Bob's Thriftway	SC-food for meals-FF	37.75
Bob's Thriftway	SC-food for meals-FF	37.75
Bob's Thriftway	SC-food for meals-FF	75.50
Bob's Thriftway	SC-food for meals-FF	56.26
Bob's Thriftway	SC-food for meals-FF	112.51
Bob's Thriftway	SC-food for meals-FF	56.26
Bob's Thriftway	SC-food for meals-FF	77.68
Bob's Thriftway	SC-food for meals-FF	38.85
Bob's Thriftway	SC-food for meals-FF	38.85
Bob's Thriftway	APS-BLEACH, TRASH BAGS, PU...	236.84
Bob's Thriftway	SC-food for meals-FF	31.40
Bob's Thriftway	SC-food for meals-FF	62.78
Bob's Thriftway	SC-food for meals-FF	31.40
Vendor 10309 - Bob's Thriftway Total:		1,172.42
<b>Vendor: 10312 - Body &amp; Sol Fitness, LLC</b>		
Body & Sol Fitness, LLC	dillon cummings	577.80
Body & Sol Fitness, LLC	daniel mcgee	706.20
Vendor 10312 - Body & Sol Fitness, LLC Total:		1,284.00
<b>Vendor: 10326 - Bound Tree Medical, LLC</b>		
Bound Tree Medical, LLC	EMS-hemorrhage control, ET...	662.92
Vendor 10326 - Bound Tree Medical, LLC Total:		662.92
<b>Vendor: 10395 - Capers</b>		
Capers	Police Feb Maintenance	225.00
Vendor 10395 - Capers Total:		225.00
<b>Vendor: 10403 - Cardinal Laboratories</b>		
Cardinal Laboratories	ww lab analysis	429.00
Cardinal Laboratories	ww lab analysis	429.00
Cardinal Laboratories	water-lab analysis for 1421 w ...	50.00
Cardinal Laboratories	ww lab analysis	229.00
Cardinal Laboratories	ww lab analysis	798.00
Cardinal Laboratories	ww lab analysis	565.00
Cardinal Laboratories	ww lab analysis	660.00
Vendor 10403 - Cardinal Laboratories Total:		3,160.00
<b>Vendor: 10436 - Center Point Large Print</b>		
Center Point Large Print	Library 2060314 2 Western bk...	44.94
Center Point Large Print	Library Inv#2066608 1/1/2024...	44.94
Vendor 10436 - Center Point Large Print Total:		89.88
<b>Vendor: 14112 - Centerline Supply Inc</b>		
Centerline Supply Inc	Street,thermal vinyl for school...	3,438.66
Vendor 14112 - Centerline Supply Inc Total:		3,438.66
<b>Vendor: 13080 - CHAMBERLAIN GARAGE DOOR COMPANY</b>		
CHAMBERLAIN GARAGE DOOR.. WATER-repairs		379.85
Vendor 13080 - CHAMBERLAIN GARAGE DOOR COMPANY Total:		379.85
<b>Vendor: 14065 - Change Healthcare LLC</b>		
Change Healthcare LLC	Ambulance-Billing	5,227.61
Vendor 14065 - Change Healthcare LLC Total:		5,227.61
<b>Vendor: 10506 - CNM Electric LLC</b>		
CNM Electric LLC	FIN- REPLACE BALLASTS & BU...	962.54
Vendor 10506 - CNM Electric LLC Total:		962.54
<b>Vendor: 10549 - Constructors, Inc</b>		
Constructors, Inc	Street,cold mix in bulk for pat...	1,351.34
Vendor 10549 - Constructors, Inc Total:		1,351.34
<b>Vendor: 14998 - CONTINENTAL RESEARCH CORPORATION</b>		
CONTINENTAL RESEARCH CO...	Parks-for sludge in the lake	3,798.03
Vendor 14998 - CONTINENTAL RESEARCH CORPORATION Total:		3,798.03

## Expense Approval Report

Payment Dates: 1/22/2024 - 2/9/2024

Vendor Name	Description (Item)	Amount
<b>Vendor: 12257 - CUMMINS ROCKY MOUNTAIN Alb. Br</b>		
CUMMINS ROCKY MOUNTAIN...	Fire-Generator	971.50
CUMMINS ROCKY MOUNTAIN...	Police Planned Maintenance ...	971.50
CUMMINS ROCKY MOUNTAIN...	Police Remove/Replace Contro..	1,092.62
CUMMINS ROCKY MOUNTAIN...	Fire Remove/Replace Control ...	1,092.62
<b>Vendor 12257 - CUMMINS ROCKY MOUNTAIN Alb. Br Total:</b>		<b>4,128.24</b>
<b>Vendor: 14748 - DASH ELECTRIC LLC</b>		
DASH ELECTRIC LLC	ww lift station #5	412.86
DASH ELECTRIC LLC	water-scada rewiring	902.05
DASH ELECTRIC LLC	ww lift station 13 new starter	1,018.99
<b>Vendor 14748 - DASH ELECTRIC LLC Total:</b>		<b>2,333.90</b>
<b>Vendor: 14857 - DBA ALLIED INFORMATION MANAGEMENT</b>		
DBA ALLIED INFORMATION M...	Ambulance-Sharp	767.00
<b>Vendor 14857 - DBA ALLIED INFORMATION MANAGEMENT Total:</b>		<b>767.00</b>
<b>Vendor: 13808 - Dealers First Financial LLC</b>		
Dealers First Financial LLC	FIN- BASE RENTAL INVOICE 18...	116.24
Dealers First Financial LLC	Police Ricoh Base Rental Patro...	124.84
Dealers First Financial LLC	W-RENTAL RICOH-IMC6010 I...	563.14
Dealers First Financial LLC	W-RENTAL RICOH-IMC6010 I...	563.14
<b>Vendor 13808 - Dealers First Financial LLC Total:</b>		<b>1,367.36</b>
<b>Vendor: 14747 - DSI MEDICAL SERVICE INC</b>		
DSI MEDICAL SERVICE INC	APS_ drug new hire	24.45
<b>Vendor 14747 - DSI MEDICAL SERVICE INC Total:</b>		<b>24.45</b>
<b>Vendor: 14804 - EAGLE PLUMBING</b>		
EAGLE PLUMBING	SC-jet the lines in the kitchen-...	113.69
EAGLE PLUMBING	SC-jet the lines in the kitchen-...	113.69
EAGLE PLUMBING	SC-jet the lines in the kitchen-...	227.37
<b>Vendor 14804 - EAGLE PLUMBING Total:</b>		<b>454.75</b>
<b>Vendor: 10740 - Eagle Towing &amp; Recovery</b>		
Eagle Towing & Recovery	Police 1/1-1/31 Tow Services	142.38
<b>Vendor 10740 - Eagle Towing &amp; Recovery Total:</b>		<b>142.38</b>
<b>Vendor: 10750 - ECOLAB</b>		
ECOLAB	SC-dish washer rental-FF	42.05
ECOLAB	SC-dish washer rental-FF	42.04
ECOLAB	SC-dish washer rental-FF	42.04
<b>Vendor 10750 - ECOLAB Total:</b>		<b>126.13</b>
<b>Vendor: 10754 - Econo Signs</b>		
Econo Signs	Water- Signs for Wells	1,394.44
<b>Vendor 10754 - Econo Signs Total:</b>		<b>1,394.44</b>
<b>Vendor: 10863 - Ferguson Const. Co.</b>		
Ferguson Const. Co.	Water Deposit Refund 1/24/24	1,937.18
<b>Vendor 10863 - Ferguson Const. Co. Total:</b>		<b>1,937.18</b>
<b>Vendor: 10904 - Forrest Tire Co.</b>		
Forrest Tire Co.	street,patch truck	21.40
<b>Vendor 10904 - Forrest Tire Co. Total:</b>		<b>21.40</b>
<b>Vendor: 15000 - Fransisco Javier Caldera</b>		
Fransisco Javier Caldera	Water Deposit Refund 1/24/24	63.98
<b>Vendor 15000 - Fransisco Javier Caldera Total:</b>		<b>63.98</b>
<b>Vendor: 10934 - Gale/Cengage Learning</b>		
Gale/Cengage Learning	Library Jan2024 5 ChrFic bks ...	124.45
Gale/Cengage Learning	Library Jan2024 2 Mys bks DM	26.24
Gale/Cengage Learning	Library Jan2024 4 Cozy Mys bk...	83.96
<b>Vendor 10934 - Gale/Cengage Learning Total:</b>		<b>234.65</b>
<b>Vendor: 10936 - Galls/Quartermaster</b>		
Galls/Quartermaster	EMS: Uniforms for Salaisy Loz...	238.00

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Vendor Name	Description (Item)	Amount
Galls/Quartermaster	FIRE: Fire and EMS clerks polos..	414.00
Vendor 10936 - Galls/Quartermaster Total:		652.00
<b>Vendor: 10939 - Gandy Corp.</b>		
Gandy Corp.	Water Deposit Refund 1/24/24	402.90
Vendor 10939 - Gandy Corp. Total:		402.90
<b>Vendor: 10960 - Gebo Credit Corporation</b>		
Gebo Credit Corporation	ww cleaning wsupplies	56.10
Gebo Credit Corporation	Water- Shovels	59.98
Gebo Credit Corporation	APS- dog food water hoses	547.82
Vendor 10960 - Gebo Credit Corporation Total:		663.90
<b>Vendor: 10971 - General Welding Supply</b>		
General Welding Supply	Fire-Oxygen	160.00
General Welding Supply	Ambulance-Oxygen	50.00
General Welding Supply	Water- Nitrogen 1-24-24	59.50
General Welding Supply	Ambulance-Oxygen	115.00
General Welding Supply	Water- Nitrogen 1-29-24	100.00
Vendor 10971 - General Welding Supply Total:		484.50
<b>Vendor: 11010 - Grainger Parts</b>		
Grainger Parts	WW BALLONS FOR LEAKS	820.20
Vendor 11010 - Grainger Parts Total:		820.20
<b>Vendor: 11047 - H &amp; K Pest Control Co.</b>		
H & K Pest Control Co.	pest control-library	69.71
H & K Pest Control Co.	pest control-police	34.83
H & K Pest Control Co.	pest control-fire	34.85
H & K Pest Control Co.	pest control-troy harris	69.71
H & K Pest Control Co.	pest control-youth center	69.71
Vendor 11047 - H & K Pest Control Co. Total:		278.81
<b>Vendor: 11050 - Haarmeyer Electric</b>		
Haarmeyer Electric	Water- Fuses for wells	160.10
Vendor 11050 - Haarmeyer Electric Total:		160.10
<b>Vendor: 11067 - Hasler, Inc.</b>		
Hasler, Inc.	Haslers Payment for Postage	2,000.00
Vendor 11067 - Hasler, Inc. Total:		2,000.00
<b>Vendor: 11096 - Higginbotham-Bartlett Co.</b>		
Higginbotham-Bartlett Co.	ww supplies for screw press b...	94.49
Higginbotham-Bartlett Co.	ww lid for sewer line	22.98
Higginbotham-Bartlett Co.	ww supplies	22.03
Higginbotham-Bartlett Co.	ww material	145.53
Higginbotham-Bartlett Co.	FIRE-Light clips for christmas li...	18.98
Higginbotham-Bartlett Co.	FIRE-Light clips for christmas li...	28.47
Higginbotham-Bartlett Co.	Street, quickrete cement	25.96
Higginbotham-Bartlett Co.	ww cement	60.71
Higginbotham-Bartlett Co.	ww cement	97.35
Higginbotham-Bartlett Co.	ww supplies for shop	247.08
Higginbotham-Bartlett Co.	ww pvc	49.07
Higginbotham-Bartlett Co.	APS- fence clamps	13.98
Higginbotham-Bartlett Co.	WW PARTS FOR SHOP	94.20
Higginbotham-Bartlett Co.	APS- fence clamps	70.55
Higginbotham-Bartlett Co.	WW CEMENT	58.41
Higginbotham-Bartlett Co.	ww parts for bathroom	70.79
Higginbotham-Bartlett Co.	ww supplies	56.82
Higginbotham-Bartlett Co.	Water- Concrete for Fireworks...	12.98
Higginbotham-Bartlett Co.	Parks- scrapers to clean glass	63.98
Higginbotham-Bartlett Co.	ww supplies	134.88
Higginbotham-Bartlett Co.	Water- 481423/1 Valves for H...	11.28
Higginbotham-Bartlett Co.	PARKS- SUPPLIES	222.91
Vendor 11096 - Higginbotham-Bartlett Co. Total:		1,623.43

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Vendor Name	Description (Item)	Amount
<b>Vendor: 11108 - Hobbs News-Sun</b>		
Hobbs News-Sun	advertising	347.19
Hobbs News-Sun	advertising	20.81
Hobbs News-Sun	advertising	893.53
Hobbs News-Sun	advertising	893.53
Hobbs News-Sun	advertising-police	398.97
<b>Vendor 11108 - Hobbs News-Sun Total:</b>		<b>2,554.03</b>
<b>Vendor: 11241 - James Williams</b>		
James Williams	EMS-ACLS and PALS classes for..	1,626.40
<b>Vendor 11241 - James Williams Total:</b>		<b>1,626.40</b>
<b>Vendor: 11471 - Lea County Board of Commission</b>		
Lea County Board of Commiss...	APS- Tower lease	1,489.58
Lea County Board of Commiss...	Police 10/1-12/31/23 Software..	1,222.58
Lea County Board of Commiss...	Police 10/1-12/31/23 Data Co...	267.00
Lea County Board of Commiss...	Fire-Communication Authority	1,489.58
<b>Vendor 11471 - Lea County Board of Commission Total:</b>		<b>4,468.74</b>
<b>Vendor: 11484 - Lea County Museum</b>		
Lea County Museum	2nd stipend museum	6,250.00
<b>Vendor 11484 - Lea County Museum Total:</b>		<b>6,250.00</b>
<b>Vendor: 11492 - Lea County Veterinary Service</b>		
Lea County Veterinary Service	APS- Surgeries Jan 9 2024	963.00
<b>Vendor 11492 - Lea County Veterinary Service Total:</b>		<b>963.00</b>
<b>Vendor: 11467 - Lea County</b>		
Lea County	Leg-Record Ord. 602 & Plat	50.00
Lea County	Leg-Record Ord. 602 & Plat	5.00
Lea County	cemetery deeds	550.00
<b>Vendor 11467 - Lea County Total:</b>		<b>605.00</b>
<b>Vendor: 11498 - LEACO</b>		
LEACO	Library Inv#10377670 7/1/20...	243.90
LEACO	Library Feb2024 Tel&Internet...	244.85
LEACO	Police Misc Circuit Ethernet	771.00
<b>Vendor 11498 - LEACO Total:</b>		<b>1,259.75</b>
<b>Vendor: 11503 - Legacy Safety and Consulting L</b>		
Legacy Safety and Consulting L	MVD - Cleaning Supplies - MH	545.19
<b>Vendor 11503 - Legacy Safety and Consulting L Total:</b>		<b>545.19</b>
<b>Vendor: 11518 - Life-Assist, Inc.</b>		
Life-Assist, Inc.	EMS-endotracheal tubes, king...	1,146.21
Life-Assist, Inc.	EMS-BGL strips, quick clot	334.89
<b>Vendor 11518 - Life-Assist, Inc. Total:</b>		<b>1,481.10</b>
<b>Vendor: 11529 - LOCKIN STITCH EMBROIDERY</b>		
LOCKIN STITCH EMBROIDERY	Fire-Beanie	192.60
LOCKIN STITCH EMBROIDERY	Police Inv 2717 L Guerra Stitch...	9.63
LOCKIN STITCH EMBROIDERY	Ambulance-Uniform Stitching	96.30
<b>Vendor 11529 - LOCKIN STITCH EMBROIDERY Total:</b>		<b>298.53</b>
<b>Vendor: 11544 - Lovington Auto Supply</b>		
Lovington Auto Supply	New Battery on Chevy Truck	-18.00
Lovington Auto Supply	Water - Ditch Witch wand pre...	195.98
Lovington Auto Supply	Water- Oil fir Cruz shop	16.17
Lovington Auto Supply	water-blades	46.20
Lovington Auto Supply	ww-wiper blades and bolts	63.91
Lovington Auto Supply	water-sockets	9.43
Lovington Auto Supply	Water- Lights for Shalako's tru...	47.47
Lovington Auto Supply	Water- Belts for Ditchwitch	34.08
Lovington Auto Supply	Parks- battery for ATV Mule	106.01
Lovington Auto Supply	Water- Spark plug for Mower	8.36
Lovington Auto Supply	Water- 2cycle fuel	13.99
<b>Vendor 11544 - Lovington Auto Supply Total:</b>		<b>523.60</b>

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Vendor Name	Description (Item)	Amount
<b>Vendor: 11564 - Lovington Tire Service, Inc.</b>		
Lovington Tire Service, Inc.	Water- Tires for the Mule	530.00
Lovington Tire Service, Inc.	Water- fix Flat Wash truck	259.00
Lovington Tire Service, Inc.	Water- fix Flat Wash truck	17.72
<b>Vendor 11564 - Lovington Tire Service, Inc. Total:</b>		<b>806.72</b>
<b>Vendor: 13457 - Lovington Wellness Center</b>		
Lovington Wellness Center	Monthly Premium	720.00
Lovington Wellness Center	Monthly Premium	58.20
Lovington Wellness Center	Monthly Premium	58.20
<b>Vendor 13457 - Lovington Wellness Center Total:</b>		<b>836.40</b>
<b>Vendor: 11646 - Master Plumbers</b>		
Master Plumbers	FIRE: Women's shower valve ...	1,714.24
<b>Vendor 11646 - Master Plumbers Total:</b>		<b>1,714.24</b>
<b>Vendor: 11648 - Master Printers</b>		
Master Printers	Open PO-Yearly Envelope Sup...	355.50
Master Printers	Open PO-Yearly Envelope Sup...	355.50
<b>Vendor 11648 - Master Printers Total:</b>		<b>711.00</b>
<b>Vendor: 11718 - Midwest Veterinary Supply, Inc</b>		
Midwest Veterinary Supply, Inc	APS- surgery supplies	550.16
Midwest Veterinary Supply, Inc	APS- e-collars	148.75
Midwest Veterinary Supply, Inc	APS- vaccines	1,526.50
<b>Vendor 11718 - Midwest Veterinary Supply, Inc Total:</b>		<b>2,225.41</b>
<b>Vendor: 11773 - MWI Veterinary Supplies</b>		
MWI Veterinary Supplies	APS- euthanasia meds	65.05
<b>Vendor 11773 - MWI Veterinary Supplies Total:</b>		<b>65.05</b>
<b>Vendor: 13585 - New Mexico Board Of Veterinary Medicine</b>		
New Mexico Board Of Veterin...	APS- Brock euthanasia renewa...	100.00
New Mexico Board Of Veterin...	APS- Annual Shelter License	150.00
<b>Vendor 13585 - New Mexico Board Of Veterinary Medicine Total:</b>		<b>250.00</b>
<b>Vendor: 11849 - New Mexico Junior College Training and Outreach</b>		
New Mexico Junior College Tra..	EMS-AEMT class, crank and d...	4,400.00
<b>Vendor 11849 - New Mexico Junior College Training and Outreach Total:</b>		<b>4,400.00</b>
<b>Vendor: 11890 - NM EMS Bureau</b>		
NM EMS Bureau	EMS-Jarrel Kent EMT-I initial li...	75.00
<b>Vendor 11890 - NM EMS Bureau Total:</b>		<b>75.00</b>
<b>Vendor: 11899 - NM Law Enforcement Academy</b>		
NM Law Enforcement Acade...	Police Inv 2023-A138 M Garcia..	10.00
NM Law Enforcement Acade...	Police Inv 2023-A149 T Grady ...	10.00
<b>Vendor 11899 - NM Law Enforcement Academy Total:</b>		<b>20.00</b>
<b>Vendor: 11994 - One Way Graphic &amp; Design</b>		
One Way Graphic & Design	City Logo Streets and Planning...	225.00
One Way Graphic & Design	City Logo Streets and Planning...	225.00
<b>Vendor 11994 - One Way Graphic &amp; Design Total:</b>		<b>450.00</b>
<b>Vendor: 12075 - Pettigrew &amp; Associates, P. A.</b>		
Pettigrew & Associates, P. A.	TPF-LP20028 MILL & OVERLAY	1,902.40
<b>Vendor 12075 - Pettigrew &amp; Associates, P. A. Total:</b>		<b>1,902.40</b>
<b>Vendor: 12081 - Phoenix Enterprises, Inc</b>		
Phoenix Enterprises, Inc	ww-hurbiside	1,996.77
Phoenix Enterprises, Inc	Parks- weed killer and spot sp...	2,818.85
<b>Vendor 12081 - Phoenix Enterprises, Inc Total:</b>		<b>4,815.62</b>
<b>Vendor: 14990 - PLAND COLLABORATIVE</b>		
PLAND COLLABORATIVE	LEA COUNTY VETERANS MEM...	13,629.63
<b>Vendor 14990 - PLAND COLLABORATIVE Total:</b>		<b>13,629.63</b>

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Vendor Name	Description (Item)	Amount
<b>Vendor: 12104 - Polydyne Inc.</b>		
Polydyne Inc.	ww polymer	1,583.55
<b>Vendor 12104 - Polydyne Inc. Total:</b>		<b>1,583.55</b>
<b>Vendor: 12112 - PowerDMS</b>		
PowerDMS	Police 1/30/24-1/29/25 Powe...	3,624.06
<b>Vendor 12112 - PowerDMS Total:</b>		<b>3,624.06</b>
<b>Vendor: 14820 - PREMIER WATERWORKS INC</b>		
PREMIER WATERWORKS INC	Water- Flange Gaskets misc	315.20
PREMIER WATERWORKS INC	Water- clamps, valve openers,...	1,120.96
PREMIER WATERWORKS INC	Water- Insert-a-valve for 13th...	7,790.00
PREMIER WATERWORKS INC	Water- tap valve in old water ...	14,031.80
PREMIER WATERWORKS INC	Water- Ultra sleeve for 13th a...	2,850.00
PREMIER WATERWORKS INC	Water- Hymax 6" 2	922.80
<b>Vendor 14820 - PREMIER WATERWORKS INC Total:</b>		<b>27,030.76</b>
<b>Vendor: 14999 - PVS DX INC</b>		
PVS DX INC	Water- 2 Chlorine	544.30
PVS DX INC	Water- Rental fee Chlorine	150.00
PVS DX INC	Water- 2 Chlorine Nov	544.30
<b>Vendor 14999 - PVS DX INC Total:</b>		<b>1,238.60</b>
<b>Vendor: 12190 - Ram Software Systems</b>		
Ram Software Systems	Ambulance-Aim Software	309.00
<b>Vendor 12190 - Ram Software Systems Total:</b>		<b>309.00</b>
<b>Vendor: 12191 - Ramirez &amp; Sons</b>		
Ramirez & Sons	Water Leak	6,180.72
<b>Vendor 12191 - Ramirez &amp; Sons Total:</b>		<b>6,180.72</b>
<b>Vendor: 14997 - RAUL GUTIERREZ</b>		
RAUL GUTIERREZ	Fire- RV window replacement	299.96
<b>Vendor 14997 - RAUL GUTIERREZ Total:</b>		<b>299.96</b>
<b>Vendor: 12213 - Reid Insurance Group, Inc.</b>		
Reid Insurance Group, Inc.	MVD- KRISTENA CHINO- VIN ...	300.00
<b>Vendor 12213 - Reid Insurance Group, Inc. Total:</b>		<b>300.00</b>
<b>Vendor: 13958 - Resource Wise LLC</b>		
Resource Wise LLC	WW- PER DIEM, MILEAGE, CO...	46,451.38
<b>Vendor 13958 - Resource Wise LLC Total:</b>		<b>46,451.38</b>
<b>Vendor: 12250 - Roberts Oil &amp; Lube</b>		
Roberts Oil & Lube	Police 1/1-1/31 Oil Changes fo...	107.00
Roberts Oil & Lube	Police 1/1-1/31 Oil Changes fo...	107.00
Roberts Oil & Lube	APS- van	116.63
Roberts Oil & Lube	APS- Marvick INV42293	109.14
Roberts Oil & Lube	Police 1/1-1/31 Oil Changes fo...	125.00
<b>Vendor 12250 - Roberts Oil &amp; Lube Total:</b>		<b>564.77</b>
<b>Vendor: 12283 - RoseRush Services LLC</b>		
RoseRush Services LLC	APS- Annual Tech Support	295.00
<b>Vendor 12283 - RoseRush Services LLC Total:</b>		<b>295.00</b>
<b>Vendor: 12438 - Solid Waste Authority</b>		
Solid Waste Authority	Street,sweepings for 12/2023	1,503.67
<b>Vendor 12438 - Solid Waste Authority Total:</b>		<b>1,503.67</b>
<b>Vendor: 12544 - SWAT, LLC</b>		
SWAT, LLC	password changes	112.35
SWAT, LLC	APS- tough books puts us on ...	112.35
SWAT, LLC	Police Inv 32477 Emergency C...	168.53
SWAT, LLC	Ambulance-Email Installations	112.35
<b>Vendor 12544 - SWAT, LLC Total:</b>		<b>505.58</b>
<b>Vendor: 12547 - Swissphone</b>		
Swissphone	EMS-S.quad clip	48.55
<b>Vendor 12547 - Swissphone Total:</b>		<b>48.55</b>

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Vendor Name	Description (Item)	Amount
<b>Vendor: 12555 - SYSCO West Texas, Inc.</b>		
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	279.34
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	139.68
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	139.68
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	841.79
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	420.89
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	420.89
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	1,381.84
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	192.43
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	96.95
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	96.95
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	644.84
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	644.84
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	1,289.69
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	889.31
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	69.03
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	34.51
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	34.51
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	797.75
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	398.87
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	398.87
SYSCO West Texas, Inc.	SC-food for meals/supplies/NS...	697.74
<b>Vendor 12555 - SYSCO West Texas, Inc. Total:</b>		<b>9,910.40</b>
<b>Vendor: 12585 - TDS</b>		
TDS	APS_ shelter internet	107.90
<b>Vendor 12585 - TDS Total:</b>		<b>107.90</b>
<b>Vendor: 12704 - Tom's Sharp Shop</b>		
Tom's Sharp Shop	Parks- Chains for chain saw an...	500.35
<b>Vendor 12704 - Tom's Sharp Shop Total:</b>		<b>500.35</b>
<b>Vendor: 12727 - Travelers</b>		
Travelers	Leg-Monthly Ins Premium-liabi...	82,230.30
<b>Vendor 12727 - Travelers Total:</b>		<b>82,230.30</b>
<b>Vendor: 12767 - Uline</b>		
Uline	Street,jacket hoodie with zipp...	602.47
<b>Vendor 12767 - Uline Total:</b>		<b>602.47</b>
<b>Vendor: 14638 - UNITED SUPERMARKETS, LLC</b>		
UNITED SUPERMARKETS, LLC	Fire-Shift Meals	176.89
UNITED SUPERMARKETS, LLC	Fire-Shift Meals	246.18
UNITED SUPERMARKETS, LLC	Fire-Shift Meals	133.44
<b>Vendor 14638 - UNITED SUPERMARKETS, LLC Total:</b>		<b>556.51</b>
<b>Vendor: 12814 - USA Bluebook</b>		
USA Bluebook	Water- sample supplies , mag...	919.55
USA Bluebook	ww lab supplies	81.61
USA Bluebook	WW LAB SUPPLIES	976.96
USA Bluebook	WW LAB SUPPLIES	202.00
<b>Vendor 12814 - USA Bluebook Total:</b>		<b>2,180.12</b>
<b>Vendor: 12826 - Valentine Auto Service</b>		
Valentine Auto Service	Police Estimate 30790 Unit 49...	672.67
<b>Vendor 12826 - Valentine Auto Service Total:</b>		<b>672.67</b>
<b>Vendor: 12833 - Vanguard Health &amp; Safety Servi</b>		
Vanguard Health & Safety Servi	P&Z new hire employee drug ...	85.00
Vanguard Health & Safety Servi	Leg-Pre-employment-Gasman	60.00
<b>Vendor 12833 - Vanguard Health &amp; Safety Servi Total:</b>		<b>145.00</b>
<b>Vendor: 12838 - Verizon</b>		
Verizon	VERIZON -EXEC	128.79
Verizon	VERIZON-PLANNING \$ ZONING	74.31
Verizon	VERIZON -CE	171.33

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Vendor Name	Description (Item)	Amount
Verizon	-VERIZON -POL	925.84
Verizon	VERIZON-FIRE	432.99
Verizon	VERIZON-STRT	75.75
Verizon	VERIZON -CEM	74.37
Verizon	VERIZON -SR.CIT	115.29
Verizon	VERIZON Lea Theatre)	33.36
Verizon	VERIZON -WAT	279.21
Verizon	VERIZON -PW	197.28
Verizon	VERIZON -FIRE	238.68
Vendor 12838 - Verizon Total:		2,747.20
Vendor: 14854 - VISA 0386		
VISA 0386	Street, fuel for travel	83.00
VISA 0386	Street,travel meals (per diem)	84.10
Vendor 14854 - VISA 0386 Total:		167.10
Vendor: 14853 - VISA 0394		
VISA 0394	Parks- Rubber chunks around ...	159.42
VISA 0394	Parks- Oil Drain plugs for work...	13.89
VISA 0394	Parks- bolts for library window	8.52
VISA 0394	Parks- Valve box's for sprinkle...	23.53
VISA 0394	Parks- Lighter three Flint for t...	14.96
VISA 0394	Cem- office supplies	382.50
Vendor 14853 - VISA 0394 Total:		602.82
Vendor: 14913 - VISA 0592		
VISA 0592	SC-gas for pressure washer-FF	15.00
VISA 0592	SC-ziplock bags for kitchen-FF	8.56
Vendor 14913 - VISA 0592 Total:		23.56
Vendor: 12881 - VISA 2862 TRAVEL CARD 7		
VISA 2862 TRAVEL CARD 7	EXE- GAS FOR MARIAS CAR	42.38
VISA 2862 TRAVEL CARD 7	FIN- VIVENT MONTHLY BILL	41.47
VISA 2862 TRAVEL CARD 7	W-2, 1095 and 1099 forms	711.33
VISA 2862 TRAVEL CARD 7	FIN- SUNSHADE FOR WINDOW	133.74
VISA 2862 TRAVEL CARD 7	FIN- MUNI DAY 2024	860.00
Vendor 12881 - VISA 2862 TRAVEL CARD 7 Total:		1,788.92
Vendor: 13899 - VISA 6194		
VISA 6194	leg-Zoom & Google Suite	747.51
VISA 6194	leg-Zoom & Google Suite	17.11
VISA 6194	business cards-grant writer&ri...	72.75
VISA 6194	laptop, monitor, docking stati...	1,994.46
Vendor 13899 - VISA 6194 Total:		2,831.83
Vendor: 10266 - VISUAL EDGE IT		
VISUAL EDGE IT	Library Jan2024 Xerox cys DM	54.95
Vendor 10266 - VISUAL EDGE IT Total:		54.95
Vendor: 12918 - Waste Management of New Mexico - Operation Cleanup		
Waste Management of New ...	Lovington Clean up - 833 W T...	109.65
Vendor 12918 - Waste Management of New Mexico - Operation Cleanup Total:		109.65
Vendor: 12919 - Waste Management of New Mexico		
Waste Management of New ...	ww-waste management late c...	26.65
Waste Management of New ...	police- waste management	570.31
Vendor 12919 - Waste Management of New Mexico Total:		596.96
Vendor: 14769 - WILSON INDEPENDENT OPS LLC		
WILSON INDEPENDENT OPS L...	ww consultant fees	3,501.58
WILSON INDEPENDENT OPS L...	ww consultant fees	4,001.80
Vendor 14769 - WILSON INDEPENDENT OPS LLC Total:		7,503.38
Vendor: 12989 - Xerox Corporation		
Xerox Corporation	SC-copier charges-FF	5.29
Xerox Corporation	SC-copier charges-FF	5.30
Xerox Corporation	SC-copier charges-FF	5.30

Expense Approval Report

Payment Dates: 1/22/2024 - 2/9/2024

Vendor Name	Description (Item)	Amount
Xerox Corporation	SC-copier charges-FF	5.30
Vendor 12989 - Xerox Corporation Total:		21.19
Vendor: 13011 - Zia Consulting, Inc.		
Zia Consulting, Inc.	Fire-Evaluation	950.00
Vendor 13011 - Zia Consulting, Inc. Total:		950.00
Grand Total:		312,355.89

## Report Summary

## Fund Summary

Fund	Payment Amount
101 - General Fund	139,685.21
110 - Motor Vehicle	845.19
116 - Cemetery	456.87
209 - Fire Protection Grant	1,140.07
217 - Special Recreation	237.70
218 - Federal COVID	22.03
219 - Sr Citz Multi Purpose Grant	8,432.99
220 - NSIP	2,968.89
236 - AC County Grant Spay & Neuter	2,637.61
255 - Lea Theatre	33.36
301 - Capital Projects	18,970.69
501 - Water Fund	44,747.85
505 - WasteWater	75,148.52
509 - Ambulance	16,472.40
704 - Fire Dept-Trust & Agency	556.51
<b>Grand Total:</b>	<b>312,355.89</b>

## Account Summary

Account Number	Account Name	Payment Amount
101-0000-20318	Wellness Benefit	720.00
101-1000-43030	Transportation (Gas,Oil,E...	42.38
101-1000-45030	Professional Services - E...	112.35
101-1000-47150	Telephone	128.79
101-1010-45050	County Fees	600.00
101-1010-45900	Other Contractual Servic...	764.62
101-1010-46010	Supplies-Office,Field,Edu...	77.75
101-1010-47080	Printing,Publishing,Adve...	2,155.06
101-1210-44020	Maintenance:Contracts	1,004.01
101-1210-45030	Professional Services - Fi...	60.00
101-1210-45100	Software Contract - Fina...	1,603.54
101-1210-46010	Supplies-Office,Field,Edu...	2,839.53
101-1210-47040	Employee Training	860.00
101-1210-47060	Insurance/Bonds-Non-E...	82,230.30
101-1220-43030	Transportation gas, oil e...	225.00
101-1220-45900	Other Contractual Servic...	85.00
101-1220-47150	Telephone - Planning and..	74.31
101-1400-44010	Rep/Maint:Building/Stru...	159.42
101-1400-44040	Rep/Maint:Equipment/V...	248.89
101-1400-46010	Supplies-Office,Field,Edu...	7,451.13
101-1440-45900	Other Contractual Servic...	6,250.00
101-1620-44010	Rep/Maint:Building/Stru...	69.71
101-1620-46915	Library Books - Library	324.53
101-1620-47080	Printing,Publishing,Adve...	54.95
101-1620-47150	Telephone - Library	488.75
101-1660-44040	Rep/Maint:Equipment/V...	-18.00
101-1660-45030	Professional Services - V...	2,372.70
101-1660-45033	Veterinary Services - Vet...	1,740.30
101-1660-46010	Supplies-Office,Field,Edu...	1,112.41
101-1660-47150	Telephone - Vet/Animal ...	171.33
101-1660-47160	Utilities	107.90
101-1953-42060	Wellness Benefit	577.80
101-1953-44010	Rep/Maint:Building/Stru...	1,127.45
101-1953-44020	Maintenance:Contracts -...	6,434.98
101-1953-44040	Rep/Maint:Equipment/V...	1,011.67
101-1953-45030	Professional Services	828.79
101-1953-46010	Supplies-Office,Field,Edu...	1,239.76
101-1953-46035	Operation Clean-up	109.65

## Account Summary

Account Number	Account Name	Payment Amount
101-1953-47010	Communications/Repair ...	771.00
101-1953-47040	Employee Training - Poli...	20.00
101-1953-47080	Printing,Publishing,Adve...	398.97
101-1953-47150	Telephone	925.84
101-2000-44010	Rep/Maint:Building/Stru...	1,749.09
101-2000-44020	Maintenance:Contracts -...	971.50
101-2000-44040	Rep/Maint:Equipment/V...	299.96
101-2000-45030	Professional Services - Fi...	950.00
101-2000-46010	Supplies-Office,Field,Edu...	137.57
101-2000-46040	Uniform/Linen Expense -...	606.60
101-2000-47010	Communications/Repair	1,489.58
101-2000-47160	Utilities	432.99
101-2002-44010	Rep/Maint:Building/Stru...	69.71
101-2160-43020	Per Diem - Street	167.10
101-2160-44030	Rep/Maint:Grounds/Ro...	1,351.34
101-2160-44040	Rep/Maint:Equipment/V...	1,464.35
101-2160-45900	Other Contractual Servic...	1,503.67
101-2160-46010	Supplies-Office,Field,Edu...	25.96
101-2160-46030	Safety Equipment	602.47
101-2160-47150	Telephone	75.75
101-2160-48070	Vehicles - Street	225.00
110-1012-43020	Per Diem	300.00
110-1012-46010	Supplies-Office,Field,Edu...	545.19
116-1640-46010	Supplies-Office,Field,Edu...	382.50
116-1640-47150	Telephone	74.37
209-2202-44010	Rep/Maint:Building/Stru...	1,140.07
217-2150-44010	Rep/Maint:Building/Stru...	69.71
217-2150-46010	Supplies-Office,Field,Edu...	167.99
218-1210-48020	Equipment & Machinery	22.03
219-0000-20318	Wellness Benefit-Sen Citz	58.20
219-1610-44020	Maintenance:Contracts -...	147.32
219-1610-46010	Supplies-Office,Field,Edu...	478.31
219-1610-46901	Nutritional-Supplies	1,083.08
219-1610-46902	Nutritional-Food Supplie...	6,550.79
219-1610-47150	Telephone	115.29
220-1610-46903	Nutritional-N.S.I.P.-Raw ...	2,968.89
236-1660-45030	Professional Services	1,124.45
236-1660-45033	236166045033	1,513.16
255-1948-47150	Telephone - Special Recr...	33.36
301-2160-48080	Roadways - Street	1,902.40
301-2400-45030	Professional Services - C...	17,068.29
501-1210-45100	Software Contract-Water..	1,003.56
501-1210-46010	Supplies-Office, Field, Ed...	419.41
501-1210-47070	Postage & Mail Services...	2,000.00
501-2125-44010	Rep/Maint:Building/Stru...	1,312.38
501-2125-44040	Rep/Maint:Equipment/V...	832.06
501-2125-44050	Rep/Maint:Meters/Pum...	31,701.55
501-2125-46010	Supplies-Office,Field,Edu...	7,190.25
501-2125-47150	Telephone	279.21
501-2125-48020	Equipment & Machinery ...	9.43
505-0000-22900	Customer Deposits	2,404.06
505-1210-46010	Supplies-Office,Field,Edu...	355.50
505-2100-47150	Telephone - Public Work...	197.28
505-2130-42060	Wellness Benefit	706.20
505-2130-44010	Rep/Maint:Building/Stru...	2,200.52
505-2130-46010	Supplies-Office,Field,Edu...	20,494.41
505-2130-47040	Employee Training	315.75
505-2130-47225	Penalties	26.65

**Account Summary**

Account Number	Account Name	Payment Amount
505-2130-48020	Equipment & Machinery ...	1,996.77
505-2130-48920	Lift Station & Pump Lines...	46,451.38
509-0000-20318	Wellness Benefit-Ambul...	58.20
509-2010-44020	Maintenance:Contracts	382.91
509-2010-45030	Professional Services - ...	48.55
509-2010-45100	Software Contract - Am...	309.00
509-2010-45940	Change Healthcare - Fees	5,227.61
509-2010-46010	Supplies-Office,Field,Edu...	3,004.75
509-2010-46040	Uniform/Linen Expense -...	334.30
509-2010-47040	Employee Training - Am...	6,101.40
509-2010-47140	Subscriptions & Dues - ...	767.00
509-2010-47150	Telephone	238.68
704-0000-36020	State Grass Fire Reimb	556.51
<b>Grand Total:</b>		<b>312,355.89</b>

**Project Account Summary**

Project Account Key	Payment Amount
**None**	287,497.87
E-2597	13,629.63
FY18CONG	2,072.82
FY18HD	7,053.89
FY18MULTI	2,096.39
FY18TRANS	5.29
<b>Grand Total:</b>	<b>312,355.89</b>