

**Sterling Public Schools
Board Of Education Agenda- Regular Meeting
Sterling Public Schools Library, 400 S. Tiger Blvd., Sterling, OK 73567
Tuesday, September 9, 2025 at 7:00 PM**

AGENDA

{{Name: Agenda Item Name}}

1. Roll call and call to order.
2. Pledge of Allegiance
3. Recognitions -
Southwest Shootout volunteers
Summit Energy
Sterling Volunteer Fire Department
Sterling Police Department.
City of Sterling
JH and HS athletes
JH and HS coaches
4. Discussion/Approval Items
 1. Consent agenda: All of the following items, which concern reports and items of a routine nature normally approved, will be approved by one vote, unless any board member desires to have a separate vote on any or all of these items. The consent agenda consists of the discussion, consideration, and approval of the following items:
 1. Approve minutes of the previous meetings.
 2. Approve purchase orders and warrants for the following funds: general, building, sinking, and any change order list.

Gen Fund po#113-116 \$899.30
Gen Fund warrants #47-105 \$82151.18
Bldg Fund warrants #5-16 \$59848.09
 3. Approve financial statements.

Activity Fund \$151184.55
General Fund \$804104.08
Building Fund \$124227.16
Sinking Fund \$4316.02
 4. Discussion and vote to approve the fundraiser list for activity funds.

5. Approve transfers within activity account.
 6. Approve activity accounts.
 7. Discussion and possible vote to approve the sanctioning of the All Sports Booster Club and the Sterling Ag Boosters.
 8. Discussion and vote to approve the compensation for the ACT prep teacher at \$50 an hour for the 2025-2026 school year.
 9. Discussion and possible vote to approve increases in adult lunches for the 2025-2026 school year.
 10. Discussion and possible vote to approve the Gifted and Talented Plan for 2025-2026
 11. Discussion and possible vote to approve policies FEG, FNC, FFACA, FFACA E-1, DBCA, and EKBA
 12. Discussion and possible vote to approve the hazard mitigation plan with Comanche County.
 13. Discussion and possible vote to approve the Healthy/Safe School Committee, the Gifted and Talented Committee, the Reading Sufficiency Committee, the Title I Committee, CLEP, Technology, and the Professional Development Committee for the 2025-2026 school year.
 14. Discussion and possible vote to approve the Title I School Wide Comprehensive Plan for 2025-2026.
 15. Discussion and possible vote to approve the Chase Morris Sudden Cardiac Arrest Response plan for the 2025-2026 school year.
2. Discussion and possible vote to approve the estimate of needs for the 2025-2026 school year.
5. Administrative reports.
 1. Principal Reports
 6. Superintendent's report — Pool Report, Current state of the school and future direction.
 7. New Business
 8. Adjourn

This agenda was posted at the superintendent's office door and the west entrance/ high school principal's office entrance of the high school building not later than 3:20 p.m.

_____,20____

Trent Parrish, Superintendent

Board Of Education Agenda- Regular Meeting

Tuesday, August 12, 2025 7:00 PM

Sterling Public Schools Library, 400 S. Tiger Blvd., Sterling, OK 73567

Attendance Taken at 7:01 PM.

Jennifer Alford: Present

Mallory Geiger: Present

John Hergenrether: Present

Jeff Milam: Present

Candra Turpin: Absent

Present: 4, Absent: 1.

1. Roll call and call to order.

2. Pledge of Allegiance

3. Discussion/Approval Items

3.1. Consent agenda: All of the following items, which concern reports and items of a routine nature normally approved, will be approved by one vote, unless any board member desires to have a separate vote on any or all of these items. The consent agenda consists of the discussion, consideration, and approval of the following items:

Motion to approve the consent agenda Passed with a motion by Jeff Milam and a second by John Hergenrether.

Candra Turpin: Absent, Jennifer Alford: Yea, Mallory Geiger: Yea, John Hergenrether: Yea, Jeff Milam: Yea

Yea: 4, Nay: 0, Absent: 1

3.1.1. Approve minutes of the previous meetings.

3.1.2. Approve financial statements.

3.1.3. Approve purchase orders and warrants for the following funds: general, building, bond, sinking, and any change order list.

FY 25 Gen Fund Warrants #1239-1248 \$3590.14

FY 25 Bldg Fund Warrants #77 \$5000.00

FY 26 Gen Fund PO 112 \$1500.00

FY 26 Gen Fund Warrants #1-46 \$104871.38

FY 26 Bldg Fund PO's #26-29 \$19400.00

FY 26 Bldg Fund Warrant #1-4 \$61284.33

3.1.4. Discussion and vote to approve the fundraiser list for activity funds.

3.1.5. Approve activity accounts.

3.1.6. Approve transfers for activity accounts.

3.1.7. Discussion of the State Aid Formula for the 2025-2026 school year.

3.1.8. Discussion and possible vote to approve the Oklahoma Department of Career and Technology Education Notice of Allocation of State or federal Aid to Districts for FY 26 and approve the Career and Technology Contract for the upcoming school year.

3.1.9. Discussion and Possible vote to approve the Indian Policies and Procedures for the 2025-2026 school year.

3.2. Discussion of the implementation of an ACT prep class.

3.3. Discussion and possible vote to hire Brianna Sivell as a Teaching Assistant for the 2025-2026 school year.

Motion to hire Brianna Sivell as a Teaching Assistant for the 2025-2026 school year at \$11.00 an hour. Passed with a motion by Jeff Milam and a second by Mallory Geiger.

Candra Turpin: Absent, Jennifer Alford: Yea, Mallory Geiger: Yea, John Hergenrether: Yea, Jeff Milam: Yea

Yea: 4, Nay: 0, Absent: 1

3.4. Discussion and possible vote to hire Mike Moore as an Assistant H.S. softball coach for the 2025-2026 school year.

Motion to hire Mike Moore as an Assistant H.S. softball coach for the 2025-2026 school year. Passed with a motion by John Hergenrether and a second by Jennifer Alford.

Candra Turpin: Absent, Jennifer Alford: Yea, Mallory Geiger: Yea, John Hergenrether: Yea, Jeff Milam: Yea

Yea: 4, Nay: 0, Absent: 1

3.5. Discussion and possible vote to hire Andrew Petro as a cafeteria cook for the 2025-2026 school year.

Motion to hire Andrew Petro as a cafeteria cook for the 2025-2026 school year at \$11.00

Passed with a motion by John Hergenrether and a second by Mallory Geiger.

Candra Turpin: Absent, Jennifer Alford: Yea, Mallory Geiger: Yea, John Hergenrether: Yea, Jeff Milam: Yea

Yea: 4, Nay: 0, Absent: 1

3.6. Discussion and possible vote to hire Jose A. Arellano-Perez as a bus driver for the 2025-2026 school year pending completion of the bus driving requirements.

Motion to hire Jose A. Arellano-Perez as a bus driver for the 2025-2026 school year pending completion of the bus driving requirements. Passed with a motion by John Hergenrether and a second by Jeff Milam.

Candra Turpin: Absent, Jennifer Alford: Yea, Mallory Geiger: Yea, John Hergenrether: Yea, Jeff Milam: Yea

Yea: 4, Nay: 0, Absent: 1

3.7. Discussion and possible vote to approve the following adjunct teachers.

Sierra Dodson as an adjunct teacher teaching art (2001) and graphic design 1 (2851).

Zoe Forehand as an adjunct teacher teaching art (2001-2808)

Cooper Harris as an adjunct teacher teaching P.E. (2019 - 1363), gov/hist/econ (6550), government 5541, desktop pub. (2557).

Kylee Birdwell as an adjunct teacher teaching P.E. (2013 - 1363), 7th grade geography (2318), and Health (3310).

Amanda Lewis as an adjunct teacher teaching mid-level math (5554), 7th math (2204), and 8th Math (2217).

Taylor Break as an adjunct teacher teaching mid-level- science (6055) and 8th grade science (2286).

Lacy Clements as an adjunct teacher teaching art (2001) and humanities (2952).

Chris Wilson as an adjunct teacher teaching gov/hist/econ (6550), U.S. history (5410), government (5541), and 8th science (2286).

Todd Davis as an adjunct teacher teaching mid-level science (6055), OK/ World history (6552), 7th science (2276), and OK history (5615) / world history (5731).

Motion to approve the following adjunct teachers. Sierra Dodson as an adjunct Media Arts teacher. Zoe Forehand as an adjunct teacher teaching Art. Jacob Wilson as an adjunct teacher teaching Physical Education, Midlevel Science, Art, and Physical Education. Kylee Birdwell as an adjunct teacher teaching Physical Education and Geography. Amanda Lewis as an adjunct teacher teaching Midlevel Math. ???????Taylor Break as an adjunct teacher teaching Midlevel science. Passed with a motion by Jeff Milam and a second by Jennifer Alford.

Candra Turpin: Absent, Jennifer Alford: Yea, Mallory Geiger: Yea, John Hergenrether: Yea, Jeff Milam: Yea

Yea: 4, Nay: 0, Absent: 1

3.8. Discussion and possible vote to approve a revised FY 26 Support Salary Schedule.

Motion to approve a revised FY 26 Support Salary Schedule. Passed with a motion by Jeff Milam and a second by Mallory Geiger.

Candra Turpin: Absent, Jennifer Alford: Yea, Mallory Geiger: Yea, John Hergenrether: Yea, Jeff Milam: Yea

Yea: 4, Nay: 0, Absent: 1

4. Administrative reports.

4.1. Principal Reports

5. Superintendent report - current enrollment, beginning of year, and cell phone restriction.

6. New Business

7. Adjourned at 8:01 pm

Chairperson

Superintendent

Board Meeting Date: SEPTEMBER 9, 2025

FY 26 GENERAL FUND

Vote to approve purchase orders # 113 thru #116 in the amount of \$899.30

Vote to approve warrants #47 thru #105 in the amount of \$82151.18

FY 26 BUILDING FUND

Vote to approve warrants #5 thru #16 in the amount of \$59848.09

Sterling Schools
Encumbrance Register

Options: Year: 2025-2026, Date Range: 7/1/2025 - 6/30/2026, PO Range: 113 - 999, Fund(s): GEN FUND-FOR OP

Fund	PO No	Date	Vendor No	Vendor	Description	Amount
11	113	08/14/2025	23020	JOSH LEE	REFUND LUNCHES AUSTYN LEE	115.70
11	114	08/14/2025	449	LAWTON PUBLIC SCHOOL	BUS DRIVER TRAINING 2 @ \$225.00	450.00
11	115	09/03/2025	23025	MICHELLE FORDUCEY	REFUND LUNCH MONEY MACKENZIE NAEGELI	33.60
11	116	09/03/2025	80266	PROFESSIONAL OK. EDUCATORS FOUND.	FALL & SPRING FINANCE WORKSHOP FOR ANNA CURRY	300.00
Non-Payroll Total:						\$899.30
Payroll Total:						\$0.00
Balance Forward:						\$0.00
Report Total:						\$899.30

Sterling Schools

Payment Register

Options: Year: 2025-2026, Fund Account: GEN FUND-FOR OP, Date Range: 8/1/2025 - 8/31/2025, Print Payroll Payments: True, Print Details: False

Year	Fund	No	Date	Vendor	Type	Date Voided	Date Registered	Clearing Date	Clearing No	Amount
2026	11	47	08/08/2025	AVA ELIZABETH ALEXANDER	PN		8/8/2025	8/31/2025	2	\$181.75
2026	11	48	08/08/2025	KINLEE GRACE ALVARADO	PN		8/8/2025	8/31/2025	2	\$900.33
2026	11	49	08/08/2025	RONITA BRIDGES	PD		8/8/2025			\$0.00
2026	11	50	08/08/2025	MARTIN CURRY	PD		8/8/2025			\$0.00
2026	11	51	08/08/2025	CHRISTOPHER BLAKE DONOHUE	PN		8/8/2025	8/31/2025	2	\$443.28
2026	11	52	08/08/2025	HENLEA HASENBECK	PN		8/8/2025	8/31/2025	2	\$609.25
2026	11	53	08/08/2025	HAYDYN XAVIER HEATH	PN		8/8/2025			\$633.07
2026	11	54	08/08/2025	JADA RENEE HUITT	PN		8/8/2025	8/31/2025	2	\$665.40
2026	11	55	08/08/2025	RAEGAN J JACKSON	PD		8/8/2025			\$0.00
2026	11	56	08/08/2025	AUTUMN LEE SHADY	PD		8/8/2025			\$0.00
2026	11	57	08/08/2025	GRACE ABIGAIL MILAM	PN		8/8/2025			\$41.56
2026	11	58	08/08/2025	KATIE LEIGH MILAM	PN		8/8/2025	8/31/2025	2	\$564.07
2026	11	59	08/08/2025	TRENT PARRISH	PD		8/8/2025			\$0.00
2026	11	60	08/08/2025	KIEL ROWAN	PD		8/8/2025			\$0.00
2026	11	61	08/08/2025	CASH SUTPHIN	PN		8/8/2025	8/31/2025	2	\$914.02
2026	11	62	08/08/2025	CHRISTOPHER WILMETH	PD		8/8/2025			\$0.00
2026	11	63	08/08/2025	LONDON CHARLES WILSON	PN		8/8/2025	8/31/2025	2	\$443.28
2026	11	64	08/08/2025	MARLEE JO WRIGHT	PN		8/8/2025	8/31/2025	2	\$739.10
2026	11	65	08/08/2025	AMERICAN FIDELITY ASSURANCE CO	R		8/8/2025			\$899.05
2026	11	66	08/08/2025	AMERICAN FIDELITY ASSURANCE CO	R		8/8/2025			\$41.67
2026	11	67	08/08/2025	American Fidelity HSA Admin	R		8/8/2025	8/31/2025	2	\$100.00
2026	11	68	08/08/2025	CCOSA	R		8/8/2025	8/31/2025	2	\$75.00
2026	11	69	08/08/2025	INTERNAL REVENUE SERVICE	R		8/8/2025	8/31/2025	2	\$7,793.75
2026	11	70	08/08/2025	FNB OF FLETCHER	R		8/8/2025	8/31/2025	2	\$20,805.92
2026	11	71	08/08/2025	COUNSEL TRUST COMPANY	R		8/8/2025	8/31/2025	2	\$700.00
2026	11	72	08/08/2025	OMES	R		8/8/2025	8/31/2025	2	\$4,735.70
2026	11	73	08/08/2025	OKLAHOMA TAX COMMISSION	R		8/8/2025	8/31/2025	2	\$951.00
2026	11	74	08/08/2025	OK TEACHERS' RETIREMENT SYSTEM	R		8/8/2025	8/31/2025	2	\$5,189.98
2026	11	75	08/08/2025	PROFESSIONAL OK. EDUCATORS FOU	R		8/8/2025	8/31/2025	2	\$31.46
2026	11	76	08/08/2025	SOUTHWEST OKLAHOMA FCU	R		8/8/2025	8/31/2025	2	\$484.22
2026	11	77	08/08/2025	TEXAS LIFE INS COMPANY	R		8/8/2025	8/31/2025	2	\$68.00
2026	11	78	08/08/2025	UNUM Life Insurance	R		8/8/2025			\$20.80
2026	11	79	08/14/2025	ALLIANCE NETWORK SOLUTIONS, LLC			8/14/2025	8/31/2025	2	\$7,196.04
2026	11	80	08/14/2025	ALLIED LAB, INC.			8/14/2025	8/31/2025	2	\$45.00
2026	11	81	08/14/2025	BENNETT'S			8/14/2025	8/31/2025	2	\$749.08
2026	11	82	08/14/2025	CAMERON UNIVERSITY			8/14/2025	8/31/2025	2	\$406.00
2026	11	83	08/14/2025	CARLS REFRIGERATION CO. INC.			8/14/2025	8/31/2025	2	\$680.08
2026	11	84	08/14/2025	TOMMY GARDNER			8/14/2025	8/31/2025	2	\$4,852.00
2026	11	85	08/14/2025	JARED AUTO PARTS			8/14/2025	8/31/2025	2	\$96.15
2026	11	86	08/14/2025	PARAGON			8/14/2025	8/31/2025	2	\$10.00
2026	11	87	08/14/2025	PARENT SQUARE, INC			8/14/2025	8/31/2025	2	\$1,500.00
2026	11	88	08/14/2025	GOVERNMENT ACCOUNT SERVICES			8/14/2025	8/31/2025	2	\$41.81
2026	11	89	08/14/2025	SOUTHERN HARDLINES, INC.-ELGIN			8/14/2025	8/31/2025	2	\$145.53
2026	11	90	08/14/2025	SUMMIT UTILITIES OKLAHOMA INC			8/14/2025	8/31/2025	2	\$574.91
2026	11	91	08/14/2025	TH ROGERS LUMBER COMPANY			8/14/2025	8/31/2025	2	\$23.34
2026	11	92	08/21/2025	AMAZON CAPITAL SERVICES, INC			8/21/2025	8/31/2025	2	\$1,017.18
2026	11	93	08/21/2025	BradyPLUS			8/21/2025	8/31/2025	2	\$1,512.45
2026	11	94	08/21/2025	CRW CONSULTING			8/21/2025			\$2,500.00
2026	11	95	08/21/2025	ELAN FINANCIAL SERVICES			8/21/2025			\$1,005.89
2026	11	96	08/21/2025	TOMMY GARDNER			8/21/2025	8/31/2025	2	\$1,191.00
2026	11	97	08/21/2025	GLENN OIL COMPANY			8/21/2025	8/31/2025	2	\$595.00
2026	11	98	08/21/2025	TIGER PAW QUICK MART			8/21/2025	8/31/2025	2	\$585.67
2026	11	99	08/21/2025	JANICE RENEE WILSON			8/21/2025			\$1,150.00

Sterling Schools

Payment Register

Options: Year: 2025-2026, Fund Account: GEN FUND-FOR OP, Date Range: 8/1/2025 - 8/31/2025, Print Payroll Payments: True, Print Details: False

Year	Fund	No	Date	Vendor	Date Type	Date Registered	Clearing Date	Clearing No	Amount
2026	11	100	08/28/2025	RACHEL BUSH		8/28/2025	8/31/2025	2	\$2,000.00
2026	11	101	08/28/2025	TOMMY GARDNER		8/28/2025			\$513.00
2026	11	102	08/28/2025	LOWES BUSINESS ACCOUNT/SYNCB		8/28/2025			\$56.96
2026	11	103	08/28/2025	PUBLIC SERVICE CO. OF OKLAHOMA		8/28/2025			\$1,479.19
2026	11	104	08/28/2025	TOWN OF STERLING		8/28/2025	8/31/2025	2	\$2,543.24
2026	11	105	08/28/2025	JANICE RENEE WILSON		8/28/2025			\$1,650.00
Non-Payroll Total:									\$34,119.52
Payroll Total:									\$48,031.66
Balance Forward:									\$104,871.38
Total:									\$187,022.56

Sterling Schools

Payment Register

Options: Year: 2025-2026, Fund Account: Building, Date Range: 8/1/2025 - 8/31/2025, Print Payroll Payments: True, Print Details: False

Year	Fund	No	Date	Vendor	Date Type	Date Registered	Clearing Date	Clearing No	Amount
2026	21	5	08/14/2025	BEST CHOICE PLUMBING		8/14/2025	8/31/2025	2	\$605.26
2026	21	6	08/14/2025	CHARLES PUCCIO		8/14/2025	8/31/2025	2	\$40.00
2026	21	7	08/14/2025	SOUTHERN HARDLINES, INC.-ELGIN		8/14/2025	8/31/2025	2	\$277.70
2026	21	8	08/14/2025	THE SHERWIN-WILLIAMS CO.		8/14/2025	8/31/2025	2	\$110.90
2026	21	9	08/18/2025	BRENDON SIMMONS CONSTURCTIO		8/18/2025	8/31/2025	2	\$48,000.00
2026	21	10	08/18/2025	DODSON AND ASSOCIATES CONTRAC		8/18/2025	8/31/2025	2	\$1,140.81
2026	21	11	08/21/2025	4D LANDSCAPE & IRRIGATION		8/21/2025	8/31/2025	2	\$917.50
2026	21	12	08/21/2025	AMAZON CAPITAL SERVICES, INC		8/21/2025	8/31/2025	2	\$651.65
2026	21	13	08/21/2025	BEST CHOICE PLUMBING		8/21/2025	8/31/2025	2	\$547.89
2026	21	14	08/21/2025	ELAN FINANCIAL SERVICES		8/21/2025			\$76.25
2026	21	15	08/28/2025	CHARLIE'S BACKHOE, DEMOLITION &		8/28/2025			\$300.00
2026	21	16	08/28/2025	PUBLIC SERVICE CO. OF OKLAHOMA		8/28/2025			\$7,180.13
Non-Payroll Total:									\$59,848.09
Payroll Total:									\$0.00
Balance Forward:									\$61,284.33
Total:									\$121,132.42

TREASURER'S CASH BALANCES
AS OF August 31, 2025

FNB OF FLETCHER

CHECKING .40

ACTIVITY FUND
GENERAL FUND
BUILDING FUND
SINKING FUND

\$151,184.55
\$704,104.08
\$24,227.16
\$4,316.02
\$883,831.81

CD
GENERAL FUND
BUILDING FUND

\$100,000.00
\$100,000.00

\$200,000.00

TOTAL CASH @ FNB OF FLETCHER

\$1,083,831.81

TOTAL PLEDGES AS OF 8/31/2025

1,938,282.89

GENERAL FUND
BUILDING FUND
SINKING FUND
ACTIVITY FUND

	8/31/2024	8/31/2025	+/-
	\$531,676.72	\$804,104.08	\$272,427.36
	\$196,091.99	\$124,227.16	-\$71,864.83 *
	\$1,080.42	\$4,316.02	\$3,235.60
	<u>\$136,216.43</u>	<u>\$151,184.55</u>	\$14,968.12
	\$865,065.56	\$1,083,831.81	

* \$73,000 Brenda Simmons
bathroom remodel

Sterling Schools

Payment Register

Options: Year: 2025-2026, Fund Account: Building, Date Range: 7/1/2025 - 8/31/2025, Print Payroll Payments: True, Print Details: False

Year	Fund	No	Date	Vendor	Date Type	Date Registered	Clearing Date	Clearing No	Amount
2026	21	1	07/16/2025	OSIG		7/16/2025	7/31/2025	1	\$30,000.00
2026	21	2	07/16/2025	SECURE OKLAHOMA		7/16/2025	7/31/2025	1	\$1,200.12
2026	21	3	07/22/2025	BRENDON SIMMONS CONSTURCTIO		7/22/2025	7/31/2025	1	* \$25,000.00
2026	21	4	07/30/2025	PUBLIC SERVICE CO. OF OKLAHOMA		7/30/2025	8/31/2025	2	\$5,084.21
2026	21	5	08/14/2025	BEST CHOICE PLUMBING		8/14/2025	8/31/2025	2	\$605.26
2026	21	6	08/14/2025	CHARLES PUCCIO		8/14/2025	8/31/2025	2	\$40.00
2026	21	7	08/14/2025	SOUTHERN HARDLINES, INC.-ELGIN		8/14/2025	8/31/2025	2	\$277.70
2026	21	8	08/14/2025	THE SHERWIN-WILLIAMS CO.		8/14/2025	8/31/2025	2	\$110.90
2026	21	9	08/18/2025	BRENDON SIMMONS CONSTURCTIO		8/18/2025	8/31/2025	2	* \$48,000.00
2026	21	10	08/18/2025	DODSON AND ASSOCIATES CONTRAC		8/18/2025	8/31/2025	2	\$1,140.81
2026	21	11	08/21/2025	4D LANDSCAPE & IRRIGATION		8/21/2025	8/31/2025	2	\$917.50
2026	21	12	08/21/2025	AMAZON CAPITAL SERVICES, INC		8/21/2025	8/31/2025	2	\$651.65
2026	21	13	08/21/2025	BEST CHOICE PLUMBING		8/21/2025	8/31/2025	2	\$547.89
2026	21	14	08/21/2025	ELAN FINANCIAL SERVICES		8/21/2025			\$76.25
2026	21	15	08/28/2025	CHARLIE'S BACKHOE, DEMOLITION &		8/28/2025			\$300.00
2026	21	16	08/28/2025	PUBLIC SERVICE CO. OF OKLAHOMA		8/28/2025			\$7,180.13
Non-Payroll Total:									\$121,132.42
Payroll Total:									\$0.00
Balance Forward:									\$0.00
Total:									\$121,132.42

Fy25

Sterling Schools

Payment Register

Options: Year: 2024-2025, Fund Account: Building, Date Range: 7/1/2024 - 8/31/2024, Print Payroll Payments: True, Print Details: False

Year	Fund	No	Date	Vendor	Date Type	Date Registered	Clearing Date	Clearing No	Amount
2025	21	1	07/17/2024	SECURE OKLAHOMA		7/17/2024	7/31/2024	1	\$1,200.12
2025	21	2	07/30/2024	MONTY BRIDGES		7/30/2024	8/31/2024	2	\$750.00
2025	21	3	07/30/2024	PUBLIC SERVICE CO. OF OKLAHOMA		7/30/2024	8/31/2024	2	\$4,704.79
2025	21	4	07/30/2024	RON FLETCHER		7/30/2024	8/31/2024	2	\$425.00
2025	21	5	08/15/2024	4D LANDSCAPE & IRRIGATION		8/15/2024	8/31/2024	2	\$190.00
2025	21	6	08/15/2024	CHARLES PUCCIO		8/15/2024	8/31/2024	2	\$100.00
2025	21	7	08/15/2024	ELAN FINANCIAL SERVICES		8/15/2024	8/31/2024	2	\$1,838.38
2025	21	8	08/15/2024	JOHNSON PLUMBING		8/15/2024	8/31/2024	2	\$224.00
2025	21	9	08/22/2024	OSIG		8/22/2024	8/31/2024	2	\$30,000.00
2025	21	10	08/29/2024	PUBLIC SERVICE CO. OF OKLAHOMA		8/29/2024	9/30/2024	3	\$5,588.51
Non-Payroll Total:									\$45,020.80
Payroll Total:									\$0.00
Balance Forward:									\$0.00
Total:									\$45,020.80

FY24

Sterling Schools

Cash Balances

Options: Fiscal Years: 2024,2025,2026, Funds: 11,21,41, As Of Date: 8/31/2025, Account Types: All

Cash By Account and Fund

AC	0101	BANK ACCOUNT		
	2024	11	GEN FUND-FOR OP	\$0.00
	2024	21	Building	\$0.00
	2024	41	Sinking	\$0.00
	2025	11	GEN FUND-FOR OP	\$643,074.19
	2025	21	Building	\$236,330.44
	2025	41	Sinking	\$78,527.32
	2026	11	GEN FUND-FOR OP	\$61,029.89
	2026	21	Building	(\$212,103.28)
	2026	41	Sinking	(\$74,211.30)
			Total AC 0101	\$732,647.26
AI	0102	FNB FLETCHER/ACTIVITY FUND CD		
	2026	11	GEN FUND-FOR OP	\$100,000.00
	2026	21	Building	\$100,000.00
			Total AI 0102	\$200,000.00
				\$932,647.26

Cash By Fund

2024	11	GEN FUND-FOR OP		\$0.00
2024	21	Building		\$0.00
2024	41	Sinking		\$0.00
2025	11	GEN FUND-FOR OP		\$643,074.19
2025	21	Building		\$236,330.44
2025	41	Sinking		\$78,527.32
2026	11	GEN FUND-FOR OP		\$161,029.89
2026	21	Building		(\$112,103.28)
2026	41	Sinking		(\$74,211.30)
				\$932,647.26

Sterling Schools

Revenue Analysis

Options: Type of Revenue: Estimated, As Of Date: 8/31/2025

	Estimated Revenue	Revenue Collected	Revenue Receivable	Unappropriated Receipts	% Rev Collected	Current Month
Fund - 11 GEN FUND-FOR OP						
Series - 1000						
Source - 1120 AD VALOREM TAX LEVY (PR.YRS)	\$0.00	\$9,566.84	\$0.00	\$9,566.84	N/A	\$7,484.67
Source - 1310 INTEREST EARNINGS	\$0.00	\$786.22	\$0.00	\$786.22	N/A	\$491.32
Source - 1350 INTEREST ON TAXES	\$0.00	\$2.69	\$0.00	\$2.69	N/A	\$0.87
Source - 1410 RENTAL OF SCHOOL FACILITIES	\$0.00	\$100.00	\$0.00	\$100.00	N/A	\$0.00
Source - 1610 CONTRIBUTIONS/DONATIONS-PRIV.	\$0.00	\$600.00	\$0.00	\$600.00	N/A	\$400.00
Source - 1710 STUDENTS' LUNCHES	\$0.00	\$2,811.00	\$0.00	\$2,811.00	N/A	\$2,811.00
Source - 1790 OTHER DIST.REVENUE (CHILD NUT)	\$0.00	\$23.40	\$0.00	\$23.40	N/A	\$23.40
Series - 1000 Total	\$0.00	\$13,890.15	\$0.00	\$13,890.15	N/A	\$11,211.26
Series - 2000						
Source - 2100 COUNTY 4 MILL AD VALOREM TAX	\$0.00	\$608.79	\$0.00	\$608.79	N/A	\$313.52
Source - 2200 COUNTY APPORT. (MORTGAGE TAX)	\$0.00	\$1,676.50	\$0.00	\$1,676.50	N/A	\$818.61
Series - 2000 Total	\$0.00	\$2,285.29	\$0.00	\$2,285.29	N/A	\$1,132.13
Series - 3000						
Source - 3110 GROSS PRODUCTION TAX	\$0.00	\$44.51	\$0.00	\$44.51	N/A	\$16.54
Source - 3120 MOTOR VEHICLE COLLECTIONS	\$0.00	\$15,498.88	\$0.00	\$15,498.88	N/A	\$12,464.49
Source - 3130 RURAL ELECTRIC COOP.TAX	\$0.00	\$14,716.48	\$0.00	\$14,716.48	N/A	\$7,775.18
Source - 3140 STATE SCHOOL LAND EARNINGS	\$0.00	\$8,046.52	\$0.00	\$8,046.52	N/A	\$3,335.89
Source - 3150 VEHICLE TAX STAMPS	\$0.00	\$40.84	\$0.00	\$40.84	N/A	\$10.39
Source - 3210 FOUNDATION AND SALARY INCEN.	\$0.00	\$154,464.21	\$0.00	\$154,464.21	N/A	\$154,464.21
Source - 3250 EDUCATION FLEX.BENEFIT ALLOW.	\$0.00	\$26,782.11	\$0.00	\$26,782.11	N/A	\$26,782.11
Source - 3420 STATE TEXTBOOK	\$0.00	\$1,816.26	\$0.00	\$1,816.26	N/A	\$1,816.26
Source - 3436 SCHOOL RESOURCE OFFICER PGM	\$0.00	\$93,041.47	\$0.00	\$93,041.47	N/A	\$93,041.47
Series - 3000 Total	\$0.00	\$314,451.28	\$0.00	\$314,451.28	N/A	\$299,706.54
Series - 4000						
Source - 4445 BIPARTISAN SAFER COMM ACT	\$0.00	\$7,434.54	\$0.00	\$7,434.54	N/A	\$7,434.54
Series - 4000 Total	\$0.00	\$7,434.54	\$0.00	\$7,434.54	N/A	\$7,434.54
Fund - 11 GEN FUND-FOR OP Total	\$0.00	\$338,061.26	\$0.00	\$338,061.26	N/A	\$319,484.47

Elgin Library

Sterling Schools Revenue Analysis

Options: Type of Revenue: Estimated, As Of Date: 8/31/2025

	Estimated Revenue	Revenue Collected	Revenue Receivable	Unappropriated Receipts	% Rev Collected	Current Month
Fund - 21 Building						
Series - 1000						
Source - 1120 AD VALOREM TAX LEVY (PR.YRS)	\$0.00	\$1,367.29	\$0.00	\$1,367.29	N/A	\$1,069.77
Source - 1310 INTEREST EARNINGS	\$0.00	\$105.47	\$0.00	\$105.47	N/A	\$16.90
Series - 1000 Total	\$0.00	\$1,472.76	\$0.00	\$1,472.76	N/A	\$1,086.67
Fund - 21 Building Total	\$0.00	\$1,472.76	\$0.00	\$1,472.76	N/A	\$1,086.67

Sterling Schools Revenue Analysis

Options: Type of Revenue: Estimated, As Of Date: 8/31/2025

	Estimated Revenue	Revenue Collected	Revenue Receivable	Unappropriated Receipts	% Rev Collected	Current Month
Fund - 41 Sinking						
Series - 1000						
Source - 1120 AD VALOREM TAX LEVY (PR.YRS)	\$0.00	\$1,646.70	\$0.00	\$1,646.70	N/A	\$1,288.32
Source - 1310 INTEREST EARNINGS	\$0.00	\$4.50	\$0.00	\$4.50	N/A	\$3.01
Series - 1000 Total	\$0.00	\$1,651.20	\$0.00	\$1,651.20	N/A	\$1,291.33
Fund - 41 Sinking Total	\$0.00	\$1,651.20	\$0.00	\$1,651.20	N/A	\$1,291.33

Sterling Schools Revenue Analysis

Options: Type of Revenue: Estimated, As Of Date: 8/31/2025

	Estimated Revenue	Revenue Collected	Revenue Receivable	Unappropriated Receipts	% Rev Collected	Current Month
Fund - 60 SCHOOL ACTIVITY FNDS						
Series - 1000						
Source - 1310 INTEREST EARNINGS	\$0.00	\$180.49	\$0.00	\$180.49	N/A	\$114.65
Source - 1610 CONTRIBUTIONS/DONATIONS-PRIV.	\$0.00	\$13,025.00	\$0.00	\$13,025.00	N/A	\$2,975.00
Source - 1810 ADMISSIONS	\$0.00	\$350.00	\$0.00	\$350.00	N/A	\$350.00
Source - 1870 STATE PLAY-OFF REVENUE	\$0.00	\$266.00	\$0.00	\$266.00	N/A	\$0.00
Source - 1880 SUPPLIES & MAT.SOLD TO STUD.	\$0.00	\$745.00	\$0.00	\$745.00	N/A	\$745.00
Source - 1910 ADMISSIONS	\$0.00	\$12,087.21	\$0.00	\$12,087.21	N/A	\$1,730.00
Source - 1920 CONCESSION SALES	\$0.00	\$3,775.65	\$0.00	\$3,775.65	N/A	\$1,580.25
Source - 1950 RESALE MERCH.(NOT STU. STORE)	\$0.00	\$5,915.00	\$0.00	\$5,915.00	N/A	\$3,700.00
Source - 1971 FEES OR DUES	\$0.00	\$1,370.00	\$0.00	\$1,370.00	N/A	\$170.00
Source - 1990 OTHER SCHOOL ACT.FUND RECEIPTS	\$0.00	\$1,614.00	\$0.00	\$1,614.00	N/A	\$1,075.00
Series - 1000 Total	\$0.00	\$39,328.35	\$0.00	\$39,328.35	N/A	\$12,439.90
Series - 5000						
Source - 5120 CASH OR CHANGE	\$0.00	\$200.00	\$0.00	\$200.00	N/A	\$200.00
Series - 5000 Total	\$0.00	\$200.00	\$0.00	\$200.00	N/A	\$200.00
Fund - 60 SCHOOL ACTIVITY FNDS Total	\$0.00	\$39,528.35	\$0.00	\$39,528.35	N/A	\$12,639.90

Sterling Schools

Revenue Analysis

Options: Type of Revenue: Estimated, As Of Date: 8/31/2025

	Estimated Revenue	Revenue Collected	Revenue Receivable	Unappropriated Receipts	% Rev Collected	Current Month
Report Total	\$0.00	\$380,713.57	\$0.00	\$380,713.57	N/A	\$334,502.37

APPROVED FUNDRAISER LIST-ACTIVITY FUND

VENDING MACHINE SALES

CLOTHING SALES (HATS/SHIRTS/JACKETS/ETC)

BLUE & GOLD SAUSAGE SALES

WOOD SHAVINGS

FFA LABOR AUCTION

BAKE SALES

HOLIDAY GRAMS (BOO/CUPID)

CANDY/COOKIE DOUGH/ICE CREAM/PICKLES/POPCORN SNACK SALES

PINK OUT SPONSORS

CONCESSIONS

DINNERS

HOMECOMING DANCES

COLOR RUN

BOOK FAIRS

YEARBOOKS/YEARBOOK ADS

SPORTS CAMPS/BASEBALL/SOFTBALL/BASKETBALL/CHEER

SPONSORSHIPS/SIGNS-BANNERS

YOYO SALES

ELEM HOLIDAY PICTURES

PAINT PARTY

RAFFLE TICKET SALES

DONKEY BASKETBALL

HAUNTED HOUSE

DODGEBALL TOURNAMENT

MOVIE NIGHT

RADA CUTLERY

CINNAMON ROLLS

HAT DAY

TOURNAMENT/GAME ADMISSION

TOURNAMENT ENTRY FEE

SPORTS PHYSICAL

SCOTT'S HOUSE OF FLOWERS CARDS

DANCES

COFFEE SHOP / CART

BINGO NIGHT

LITTLE CEASARS PIZZA

BLANKETS

Sterling Schools

Revenue/Expenditure Summary

Options: Fund: 60, Date Range: 8/1/2025 - 8/31/2025

	Begin Balance	Receipts	Adjusting Entries	Payments	Cash End Balance	Unpaid POs	End Balance
801 HIGH SCHOOL	\$1,062.46	\$114.65	\$0.00	\$250.00	\$927.11	\$0.00	\$927.11
802 ATHLETICS	\$12,118.45	\$2,564.20	\$0.00	\$5,833.06	\$8,849.59	\$0.00	\$8,849.59
803 FCCLA NATIONAL CONFERENCE	\$500.00	\$0.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00
804 FCA	\$63.48	\$0.00	\$0.00	\$0.00	\$63.48	\$0.00	\$63.48
805 FLOWER FUND	\$14.11	\$0.00	\$0.00	\$0.00	\$14.11	\$0.00	\$14.11
806 FFA	\$43,834.33	\$1,245.00	\$0.00	\$12,533.37	\$32,545.96	\$0.00	\$32,545.96
807 FCCLA	\$875.83	\$0.00	\$0.00	\$150.00	\$725.83	\$0.00	\$725.83
808 ACADEMIC TEAM	\$287.81	\$0.00	\$0.00	\$0.00	\$287.81	\$0.00	\$287.81
809 POOL	\$18,766.25	\$2,213.25	\$0.00	\$966.69	\$20,012.81	\$0.00	\$20,012.81
810 AG SCHOLARSHIP	\$2,700.00	\$0.00	\$0.00	\$0.00	\$2,700.00	\$0.00	\$2,700.00
811 STUDENT COUNCIL	\$6,596.67	\$563.00	\$0.00	\$288.31	\$6,871.36	\$0.00	\$6,871.36
813 LIBRARY	\$2,219.89	\$0.00	\$0.00	\$112.70	\$2,107.19	\$0.00	\$2,107.19
815 JH & HS CHEERLEADING	\$3,722.26	\$0.00	\$0.00	\$0.00	\$3,722.26	\$0.00	\$3,722.26
816 YEARBOOK	\$16,431.86	\$175.00	\$0.00	\$0.00	\$16,606.86	\$0.00	\$16,606.86
818 ELEMENTARY	\$2,494.73	\$100.00	\$0.00	\$1,258.42	\$1,336.31	\$0.00	\$1,336.31
819 GENERAL SCHOLARSHIP FUNDS	\$1,500.00	\$0.00	\$0.00	\$0.00	\$1,500.00	\$0.00	\$1,500.00
820 JAMES BRAGG SCHOLARSHIP	\$500.00	\$0.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00
821 BASEBALL BUILDING	\$4,053.31	\$0.00	\$0.00	\$0.00	\$4,053.31	\$0.00	\$4,053.31
822 E SPORTS	\$358.61	\$0.00	\$0.00	\$0.00	\$358.61	\$0.00	\$358.61
823 4H	\$409.03	\$0.00	\$0.00	\$0.00	\$409.03	\$0.00	\$409.03
825 GINGER SEIBOLD MEMORIAL SCHOLARSHIP	\$10,050.00	\$2,675.00	\$0.00	\$0.00	\$12,725.00	\$0.00	\$12,725.00
830 TEACHER/SUPPORT OF YEAR	\$577.52	\$0.00	\$0.00	\$0.00	\$577.52	\$0.00	\$577.52
847 2025 SENIORS	\$680.65	\$0.00	\$0.00	\$0.00	\$680.65	\$0.00	\$680.65
848 2026 SENIORS	\$26,817.92	\$0.00	\$0.00	\$0.00	\$26,817.92	\$0.00	\$26,817.92
849 2027 SENIORS	\$3,702.03	\$554.80	\$0.00	\$400.00	\$3,856.83	\$0.00	\$3,856.83
850 2028 SENIORS	\$0.00	\$2,435.00	\$0.00	\$0.00	\$2,435.00	\$0.00	\$2,435.00
Total	\$160,337.20	\$12,639.90	\$0.00	\$21,792.55	\$151,184.55	\$0.00	\$151,184.55

Sterling Schools

Cash Balances

Options: Fiscal Years: 2026, Funds: 60, As Of Date: 8/31/2025, Account Types: AC

Cash By Account and Fund

AC 0102	FNB FLETCHER/ACTIVITY FUND			
2026	60	SCHOOL ACTIVITY FNDS		\$151,184.55
			Total AC 0102	\$151,184.55
				<u>\$151,184.55</u>

Cash By Fund

2026	60	SCHOOL ACTIVITY FNDS		\$151,184.55
				<u>\$151,184.55</u>

Sterling School District 161003
Sanctioning of Organizations and Associations

In compliance with the provisions of state law HB 2107 (1996 Leg.), the Sterling Independent School District has established procedures to provide for sanctioning of organizations, booster clubs and associations exempted or applying to be exempt from statutory controls and Board policies and procedures pertaining to school activity funds.

The board of education will annually sanction parent organizations and booster clubs which exist to promote a positive relationship between the district and the community by assisting and supporting the schools in recognizing and promoting student activities. Close communication will be maintained to ensure that the goals of the organizations are in compliance with the goals and policies of the district. The district will incur no liability for the acts, errors, or omissions of any sanctioned organization.

Organizations have the following options regarding the management of their funds related to the Sterling School District.

- A. Funds may be deposited and expended through a Board approved school activity account at their local school site. Organizations that choose to deposit their funds in a Board approved school activity account must follow the District's policies and procedures for school activity funds.
- B. Funds may be deposited and expended through an organization's local bank account and will be exempt from regulations of the District's school activity fund upon being granted sanctioning status by the Sterling Board of Education under the requirements of this sanctioning policy.

Procedures for Sanctioning by the Board of Education

- A. Application for sanction (copy attached) must be completed by the organization or association prior to July of each year.
- B. The completed application form must be submitted to the Superintendent of Schools for review.
- C. The Superintendent will make a recommendation to the Board of Education concerning the organization seeking to be sanctioned.
- D. The Board of Education will review the organization's application and determine whether to approve or decline the sanctioning request. **The Board of Education's decision is final and non appealable.**
- E. All organizations and associations wishing to be sanctioned will make application to the Board of Education on an annual basis.
- F. Sanctioning will be approved by the Board of Education on a one-year basis only (July 1 – June 30). The Board of Education will consider all sanctioning applications at the beginning of the fiscal year (normally the July or August board meeting).
- G. The organization must be managed or operated by adults, rather than students, and will present its bylaws and / or constitution to the board. These will differentiate the parent organization or booster club from any student organizations and will provide details of their structure including:
 - a. Officer's names
 - b. Purpose and goals
 - c. Projection for the use of funds generated
- H. All funds raised will be used to achieve the stated purposes and goals of the organization. No administrative fees or stipends to officers or others will be permitted. If the organization is abolished or ceases to exist, all funds remaining after the financial responsibilities are satisfied will be deposited into the general activity fund account of the school with which the organization is associated.
- I. Following the first year of sanctioning, each organization or association will provide, with its application for sanctioning, a set of its unaudited financial statements and a copy of the June 30th bank statement.

The Applicant certifies that it does not and will not discriminate with respect to its benefits, membership, programs, operation or organization on the basis of race, gender, age, religion, national origin or disability. The Applicant will comply with Title IX and all other state and federal equity regulations.

The Applicant acknowledges that the Board of Education has the discretion to sanction or decline to sanction the applicant, and the decision of the Board of Education is final and non appealable. The Applicant further acknowledges that:

- a. The Board of Education, may, at any time, request the records maintained by the Applicant which the Applicant will promptly make available, and
- b. The Board of Education, may, at any time it believes it is in the best interests of the school district to do so, withdraw sanctioning, and the decision of the Board of Education is final and non appealable.

The Applicant also acknowledges that, in order for the school district to consider whether to maintain the sanctioning action of Applicant, Applicant will provide the Board of Education, upon request, on an annual basis, by July 1 of each year, the financial statement and bank statement.

Instructions for Completing the Application

1. Complete this application and the attached financial statement. Please type or print.
2. Sign and date this application.
3. Deliver this application to: Superintendent of Schools

Sterling School District
PO Box 158
Sterling OK 73567

APPLICANT: Kiel Kowan
ORGANIZATION: Ag Booster Club

APPROVED BY THE BOARD OF EDUCATION ON THIS 9th DAY OF Sept 2025

PRESIDENT OF THE BOARD:

I have reviewed the financial statements and transactions of

Ag Boosters

(name of organization)

For the period of July 1, 2024 through June 30, 2025.

I do hereby certify that:

Financial transactions were made in accordance with the organizations by-laws and procedures, expenditures were properly approved and the financial records are true and correct, except for the following exceptions, if any:

I further certify that I am not an officer of the organization.

Signed



Name William L. Wilson CPA

Title CPA

Company William L. Wilson CPA

Dated 8-8-2025

**Sterling Public Schools
APPLICATION FOR SANCTIONING
UNDER OKLAHOMA STAT. TITLE 5-120.1 (HB 2107)**

This is a request for sanctioning by the Applicant to the Board of Education of Sterling Oklahoma, pursuant to which the funds collected by the Applicant are exempt from the statutory controls over school activity funds. The Applicant is a student achievement program or a parent-teacher association or organization.

Name of Applicant:

Kiel Rowan

Applicant's Address:

PO Box 158

Sterling, OK 73567

Applicant's Representative from whom additional information may be obtained:

Kiel Rowan

Applicant's Telephone Number:

940-252-3618

Applicant's Purpose, Goals and Organizational Structure:

Support & supplement the ~~the~~ Student's program

Describe how the school district and its students will benefit if the Applicant is sanctioned:

Purchase meals, supplies, trophies, feed, ect. to help the ~~the~~ program at Sterling Schools

**STERLING PUBLIC SCHOOLS
ORGANIZATION/ASSOCIATION FINANCIAL STATEMENT
UNAUDITED**

NAME OF ORGANIZATION/ASSOCIATION Sterling Ag Boosters Club

FINANCIAL ACTIVITY FOR SCHOOL YEAR 2024-2025

Beginning Cash Balance, July 01, 2024 \$ 1485.00

Collections:
Fund Raiser, Merchandise Sales, etc.
Donations/Contributions
Other (list): Concession

Total Collections: \$1762.49

Expenditures:
Fund Raising Expenses 437.34
Supplies/Materials
Advertising - Hoops
Postage, Mailings, etc.
Equipment 125
Donations/Contributions 150
Other (list):

Total Expenditures: \$712.24

Ending Cash Balance, June 30, 2025 \$ 2534.75

I, the undersigned officer of the above-named organization/association, do hereby certify that this is a true and complete representation of the organization's financial activity for the Sterling school year, to the best of my knowledge and belief. I further certify that, in accordance with the policy of the Sterling Board of Education, I/we may be required to submit further financial information on the organization/association at the request of the Board of Education, and the failure to do so may result in revocation of the Board's sanctioning approval.

Officer/Director _____
Received and reviewed by the Sterling Board of Education _____
Date _____
President, Sterling Board of Education _____

Sterling School District 161003
Sanctioning of Organizations and Associations

In compliance with the provisions of state law HB 2107 (1996 Leg.), the Sterling Independent School District has established procedures to provide for sanctioning of organizations, booster clubs and associations exempted or applying to be exempt from statutory controls and Board policies and procedures pertaining to school activity funds.

The board of education will annually sanction parent organizations and booster clubs which exist to promote a positive relationship between the district and the community by assisting and supporting the schools in recognizing and promoting student activities. Close communication will be maintained to ensure that the goals of the organizations are in compliance with the goals and policies of the district. The district will incur no liability for the acts, errors, or omissions of any sanctioned organization.

Organizations have the following options regarding the management of their funds related to the Sterling School District.

- A. Funds may be deposited and expended through a Board approved school activity account at their local school site. Organizations that choose to deposit their funds in a Board approved school activity account must follow the District's policies and procedures for school activity funds.
- B. Funds may be deposited and expended through an organization's local bank account and will be exempt from regulations of the District's school activity fund upon being granted sanctioning status by the Sterling Board of Education under the requirements of this sanctioning policy.

Procedures for Sanctioning by the Board of Education

- A. Application for sanction (copy attached) must be completed by the organization or association prior to July of each year.
- B. The completed application form must be submitted to the Superintendent of Schools for review.
- C. The Superintendent will make a recommendation to the Board of Education concerning the organization seeking to be sanctioned.
- D. The Board of Education will review the organization's application and determine whether to approve or decline the sanctioning request. **The Board of Education's decision is final and non appealable.**
- E. All organizations and associations wishing to be sanctioned will make application to the Board of Education on an annual basis.
- F. Sanctioning will be approved by the Board of Education on a one-year basis only (July 1 – June 30). The Board of Education will consider all sanctioning applications at the beginning of the fiscal year (normally the July or August board meeting).
- G. The organization must be managed or operated by adults, rather than students, and will present its bylaws and / or constitution to the board. These will differentiate the parent organization or booster club from any student organizations and will provide details of their structure including:
 - a. Officer's names
 - b. Purpose and goals
 - c. Projection for the use of funds generated
- H. All funds raised will be used to achieve the stated purposes and goals of the organization. No administrative fees or stipends to officers or others will be permitted. If the organization is abolished or ceases to exist, all funds remaining after the financial responsibilities are satisfied will be deposited into the general activity fund account of the school with which the organization is associated.
- I. Following the first year of sanctioning, each organization or association will provide, with its application for sanctioning, a set of its unaudited financial statements and a copy of the June 30th bank statement.

The Applicant certifies that it does not and will not discriminate with respect to its benefits, membership, programs, operation or organization on the basis of race, gender, age, religion, national origin or disability. The Applicant will comply with Title IX and all other state and federal equity regulations.

The Applicant acknowledges that the Board of Education has the discretion to sanction or decline to sanction the applicant, and the decision of the Board of Education is final and non appealable. The Applicant further acknowledges that:

- a. The Board of Education, may, at any time, request the records maintained by the Applicant which the Applicant will promptly make available, and
- b. The Board of Education, may, at any time it believes it is in the best interests of the school district to do so, withdraw sanctioning, and the decision of the Board of Education is final and non appealable.

The Applicant also acknowledges that, in order for the school district to consider whether to maintain the sanctioning action of Applicant, Applicant will provide the Board of Education, upon request, on an annual basis, by July 1 of each year, the financial statement and bank statement.

Instructions for Completing the Application

1. Complete this application and the attached financial statement. Please type or print. Include the June 30th bank statement. If necessary, use additional paper.
2. Sign and date this application.
3. Deliver this application to: Superintendent of Schools
Sterling School District
PO Box 158
Sterling OK 73567

APPLICANT: Rowita Bridges

ORGANIZATION: All Sports

APPROVED BY THE BOARD OF EDUCATION ON THIS 9th DAY OF Sept
2025

PRESIDENT OF THE BOARD: _____

I have reviewed the financial statements and transactions of

All Sports Booster Clubs
(name of organization)

For the period of July 1, 2024 through June 30, 2025.

I do hereby certify that:

Financial transactions were made in accordance with the organizations by-laws and procedures, expenditures were properly approved and the financial records are true and correct, except for the following exceptions, if any:

I further certify that I am not an officer of the organization.

Signed 

Name William L. Milan CPA

Title CPA

Company William L Milan CPA

Dated 8.8.25

Sterling Public Schools
ORGANIZATION/ASSOCIATION FINANCIAL STATEMENT
UNAUDITED

NAME OF ORGANIZATION/ASSOCIATION All Sports Booster Club

FINANCIAL ACTIVITY FOR SCHOOL YEAR 24/25

Beginning Cash Balance, July 01, 5908.08 \$ 5908.08
2025

Collections:

Fund Raiser, Merchandise Sales, etc.	<u>tshirts/practice</u>	<u>\$6863.04</u>
Donations/Contributions	<u>Carnival</u>	<u>4721.00</u>
Other (list):	<u>banquet house</u>	<u>122.00</u>
	<u>raffle</u>	<u>1105.05</u>
	<u>Field day</u>	<u>299.79</u>
		<u>13110.88</u>

Total Collections: _____

Expenditures:

Fund Raising Expenses	<u>fees</u>	<u>18.00</u>
Supplies/Materials	<u>helmets</u>	<u>300.00</u>
Advertising	<u>Cheer uniforms</u>	<u>1785.64</u>
Postage, Mailings, etc.	<u>meals</u>	<u>2011.41</u>
Equipment	<u>tshirts</u>	<u>4602.45</u>
Donations/Contributions	<u>Field day</u>	<u>299.79</u>
Other (list):	<u>Track</u>	<u>85.00</u>
	<u>Carnival</u>	<u>844.05</u>
	<u>Shooting shirts</u>	<u>740.55</u>
	<u>Allstate jackets</u>	<u>529.00</u>
	<u>Prep Netion</u>	<u>130.00</u>
	<u>Sr Night</u>	<u>517.35</u>
	<u>Banquet</u>	<u>1209.05</u>
		<u>13092.29</u>

Total Expenditures _____

Ending Cash Balance, June 30, 2025 \$ 5926.67

I, the undersigned officer of the above-named organization/association, do hereby certify that this is a true and complete representation of the organization's financial activity for the _____ school year, to the best of my knowledge and belief. I further certify that, in accordance with the policy of the Sterling Board of Education, I/we may be required to submit further financial information on the organization/association at the request of the Board of Education, and the failure to do so may result in revocation of the Board's sanctioning approval.

 Officer/Director

 Date

Received and reviewed by the Sterling Board of Education

 President, Sterling Board of Education

7.23.25 Date

Meals

Meal UID	Name	Price	Display Order
L04	EMPLOYEE LUNCH	\$5.16	3
L05	VISITOR LUNCH	\$5.50	4
B04	EMPLOYEE BREAKFAST	\$2.94	9
B05	VISITOR BREAKFAST	\$3.25	10



Ronita Bridges <rbridges@sterling.k12.ok.us>

SCHEDULE B AND OTHER REMINDERS

1 message

Child Nutrition Programs <AppSystem.Notifications@sde.ok.gov>

Fri, Aug 15, 2025 at 10:57 AM

Hi All,

Schedule B Meal Prices is unlocked now! You may complete this form on your checklist.

The amounts below are the minimum you must charge for Teachers/Adults/Contract/Visitor meals for SY 25-26. If you are charging less than that amount it must be covered by funds other than Child Nutrition Funds. Child Nutrition Funds cannot cover the cost of these meals, Local funds or General funds must cover the cost of those meals.

- \$2.46 (Min. Amount to Charge Adults/Contract for Breakfast) OR \$2.94 for Districts receiving Severe Need Breakfast rate.
- \$5.14 (Min. Amount to Charge Adults/Contract for Lunch) OR \$5.16 for Districts receiving the additional .02 cents.
- \$1.26 (Min. Amount to Charge Adults/Contract for Snack)

Official Submission of Application:

After all forms are certified, please click on "Submit Application to CNP" found at the bottom of the Checklist. A time stamp will appear, and status of application will show "Pending Approval". If you do not see either, please contact the person approving your application.

Please see attachment for more information.

Thank you for everything you do!

DO NOT RESPOND TO THIS MESSAGE!! Please call (405) 521-3327 for assistance or additional information.

Confidentiality Notice: The information contained in this email message and any attachment(s) is the property of the State of Oklahoma and may be protected by state and federal laws governing disclosure of private information. It is intended solely for the use of the entity to whom this email is addressed. If you are not the intended recipient, you are hereby notified that reading, copying or distributing this transmission is STRICTLY PROHIBITED. The sender has not waived any applicable privilege by sending the accompanying transmission. If you have received this transmission in error, please notify the sender by return e-mail and delete the message and attachment(s) from your system

Schedule B and Other Reminders FY 26.docx
31K

\$2.94

\$5.16

LOY
LO5
BOY
BO5

STERLING SCHOOLS GIFTED PLAN

STERLING PUBLIC SCHOOLS

2025 - 2026

Adopted January 9, 1995

Reviewed August 29, 2025

INTRODUCTION

Sterling Schools is committed to the uniqueness of all students enrolled. Sterling Schools will strive to identify and provide appropriate educational experiences for students who demonstrate that they are capable of high performance in creative thinking ability, leadership ability, visual or performing arts ability, and specific academic ability, and those who need educational activities/services beyond those provided by the regular school program.

To satisfy this goal, Sterling Schools will:

- * Assess the instructional level of identified students and consider the unique learning characteristics of each student.
- * Provide a differentiated curriculum to meet the unique needs.
- * Provide flexible pacing.
- * Match programs and services to individuals.
- * Provide an atmosphere that will accommodate the unique needs of gifted students.

I. G/T Student Identification

A. Site Committee for G/T (Appendix A)

1. The committee will include the principal, counselor, teachers, parents, and others as may be appropriate.

2. In keeping with this GEP, State Board of Education regulations and state statutes, the committee will coordinate and implement the identification process for PK through grade twelve and communicate these procedures to the entire school staff.

B. Identification process

1. The identification process will be nondiscriminatory with respect to race, economic background, national origin, or disabling conditions for all students PK through grade twelve.

2. Nominations will come from:

a. Teachers

b. Parents

c. Community leaders

3. Data will be collected on nominated students.

a. Testing methods that may be used:

1. Non-culturally biased standardized intelligence tests.

2. Others that may be used as deemed appropriate.

b. Non-testing Methods under multiple criteria:

1. Student achievement/leadership outside the school's curriculum (students must meet two or more of the listed criteria)

2. Others as may be appropriate

3. Portfolios

4. Site committee analyzes data and makes placement decisions.

a. A score in the top 3% on a nationally standardized test for intellectual ability results in automatic placement in the G/T program.

b. Uniform identification procedures using multiple criteria will be used to identify students from the G/T program. However, no single criterion or cutoff score will be used to exclude a student from gifted and talented (G/T) programs.

c. In realizing that not all children test well and that tests could be biased when dealing with some cultures and backgrounds, the site committee for placement may make decisions based on referral, student performance, and other relevant information. Test scores will not be a necessity.

d. Identification of gifted students based on a nationally standardized test of intellectual ability is valid for a minimum of three years and may be valid for the student's educational experience.

e. Placement will be made according to the student's needs, interests, and/or abilities with parental approval.

f. Useful information collected about individual students during the identification process will be communicated to appropriate staff members regardless of final placement.

5. Identification of gifted students is an ongoing process extending from school entry through grade twelve.

a. Opportunities will exist for students to be placed throughout their school experience.

b. Identification of students based on nationally standardized tests or intellectual ability will be valid for the student's educational experience.

c. Students who have been identified as G/T by other school districts will be considered for placement by the site committee as quickly as possible.

d. Students may be removed from a program that is not meeting their needs following a conference with a parent. Counseling, pullout, or a different avenue may be necessary.

e. Strict confidentiality procedures will be used as per board policy, regarding information and data collected on students.

f. Records on nominated students will be maintained for a minimum of five years.

g. Students placed in the G/T program for reasons other than standardized test scores will be evaluated annually.

h. Evaluation of the appropriateness of students' placement in a gifted educational program shall be ongoing.

6. Identification and placement will include parental involvement.

a. Parents will be asked to grant written permission for individual testing.

b. Parents may request additional evaluation, but will bear the expense of the additional testing.

c. Parents will be notified in writing that their child has been identified for placement in the G/T program.

d. Parents will be provided with a summary of the gifted educational programming to be offered to their child and will be filed in individual student files.

e. Parents may appeal a placement decision. Appeals will begin with the site committee; further appeals may be made to the district superintendent.

II. Differentiated Education

A. Differentiated or accelerated education will provide for identified students by one or more of the following programming options as deemed necessary by the school administration, in breadth, pace, and depth:

1. Programming Options

a. The site coordinator and counselor will coordinate programming options to guide the development of gifted students through graduation from high school.

b. Students will be placed according to their abilities, needs, and interests.

c. Gifted child educational programming is ongoing and a part of the school schedule. Differentiated education shall be in place within three weeks of the start of the school term.

d. Concurrent enrollment- Qualified students will be allowed to enroll in college classes while satisfying the requirements for a high school diploma.

e. Mentorships- An appropriate mentor (role model/advisor) will be selected for gifted students and spend approximately 20 hours with that mentor. Teachers and the mentor will develop a list of expectations.

f. Enrichment of Content- Experience provided in the regular classrooms with particular students in mind (AP courses available).

g. Academic Competitions- Students will be allowed to join/participate in teams and at academic competitions coordinated by local universities.

h. Guidance/Counseling- Policies that assist G/T students in planning their academic careers in school and after graduation.

i. Students identified with specific academic areas will have the option of contracting for honors credit. If the students score at 90% or above in the content area that is differentiated in breadth, depth, and pace, the course will be designated on the transcript.

j. Additional activities as may be appropriate for selected students.

2. Curriculum

a. Curriculum for the gifted extends or replaces the regular curriculum.

b. Curriculum is differentiated in content, process, and/or product.

1. Content is differentiated in breadth, depth, and pace.

2. Process for G/T students will stress creativity and higher-level thinking skills.

c. Curriculum is planned to assure continuity.

B. Appropriate Flexible Pacing

1. Proficiency-Based Promotion

2. Enriched Classes

3. Instructional Groups

4. Other

C. Appropriate Learning Opportunities will be provided for G/T through site-developed programs, which are a part of a total school program.

1. The district will review the GEP (appropriate for all sites) every year.

2. The Sterling School Faculty will plan curriculum opportunities to allow students to move through the curriculum at the appropriate pace, provide a differentiated curriculum to meet unique needs, and facilitate academic/social support.

3. When appropriate, differentiation will occur in content, process, product, and learning environment.

4. The Sterling Staff will receive staff development training in the form of films, seminars, and other means appropriate.

D. Site plans will include selections from flexible pacing, enrichment, academic/social support, and staff development.

1. The Sterling School Plan will strive to incorporate the following components into the G/T program.

a. Enrichment of content in Regular Classrooms

i. Learning Centers

ii. Guest Speakers

iii. Other

b. Creative and Academic Competitions

i. Poster Contests

ii. Speech Contests

iii. Essay Contests

c. Interest groups (Short term)

d. Short-term pull-out for computer time (and others as appropriate).

2. Academic/Social Support

a. Guidance and counseling- Planned activities, sessions, and policies that assist in planning their academic school career and after high school.

b. Other

III. Evaluation

A. A systematic plan for ongoing evaluation is part of the program planning and implementation. An ongoing evaluation will be established by the Local Advisory Committee on Gifted Education. An evaluation process will be provided.

B. Students, teachers, parents, and administrators will annually evaluate gifted educational programming. Results will be communicated in a timely and meaningful manner to program decision makers and, as appropriate, to the public.

C. The evaluation process of G/T programming will include the following components:

1. Identification

2. Instructional program

3. Professional development

4. Teacher selection

5. Local Advisory Committee/Community involvement

6. Program Management

7. Evaluation Process

D. The evaluation process will focus upon appropriateness of educational programming for G/T students.

E. Data for evaluation will be developed from a variety of instruments, procedures, and information sources.

F. Student progress will be assessed with attention to mastery of content, higher-level thinking skills, and creativity.

G. Appropriateness of students' individual needs will be focused upon in keeping and inserting new students into the program.

IV. Local Advisory Committee

A. The local advisory committee will be appointed by the board of education upon the recommendation of the superintendent. The committee will consist of at least three (3) but no more than eleven (11) members, at least one third of whom shall be selected from a list of nominations submitted by associations whose purpose is advocacy for gifted and talented children. {70 O.S.1210.308(C)}

B. The Local Advisory Committee will be representative of the community.

C. The Local Advisory Committee will be appointed no later than September 15 of each year for two consecutive years. All meetings are subject to the Provisions of the Oklahoma Open Meeting Act.

D. Meetings - The GT Coordinator will call the first meeting no later than October 1 of each year.

E. The Local Advisory Committee will assist in the formulation of district goals, development of a plan, preparation of the district report on gifted education, and perform other duties as requested by the board of education. {70 O.S.1210.308(C)}

F. District will furnish staff trained in gifted education for the advisory committee.

V. Qualifications and responsibilities of staff.

A. Qualifications of Staff:

1. Teachers must hold a valid teacher's license appropriate to the grade level in the program.

2. Gifted educational program coordinators hold a valid teaching certificate.

3. Teachers who are in direct contact with students shall participate in in-service training or college training to assist them in the area of gifted education.

4. Program coordinators and administration for G/T will attend professional development related to each site each year.

B. Responsibilities of gifted educational staff:

1. The superintendent will be responsible for working with the local advisory committee, overseeing the site coordinators and site plans, and filing such reports and information as are required by the State Department of Education relative to gifted educational programming.

2. The School principal or site coordinator will be responsible for working with the site committee. As well as reporting back to the superintendent any reports or information pertaining to that site.

3. The school committee will work with the principal each year to provide an ongoing process and plan.

4. The Building Principal will clearly delineate roles, responsibilities, and coordination procedures regarding gifted education.

5. Regular classroom teachers will work to implement appropriate flexible pacing, plan enrichment, coordinate resources, and facilitate academic/social support when needed.

VI. Budget

A. The district superintendent, in conjunction with the building principal, will formulate a budget for gifted programming.

B. The budget for gifted will be prepared on forms required by the State Department of Education and submitted as required.

C. The building budget for gifted will be approved by the board of education before filing with the State Department of Education.

VII. Expenditures Report

A. An expenditure report for the previous school year will be submitted by the superintendent to the SDE by August 1 of each year as required by 70 O.S. 1210.307 (D).

B. The report will outline the expenditures made by the school during that year for gifted educational programming. {70 O.S. 1210.307(D)}

C. The report will identify expenditures by principal object codes and program classifications pursuant to the Oklahoma Cost Accounting System.

APPENDIX A

Sterling School District

Gifted and Talented Plan

Site Committee 2025-2026:

Tasha Garrett

Kelley Bridges

Amanda Lewis

Lacey Clements

Janie Ingram

Jessica Smart

Malesa Hardzog

Jennifer Taylor

Todd Davis (Parent)

STUDENT CONDUCT

The Sterling Board of Education believes that an important responsibility of any school system is to teach acceptable social conduct. We believe that such conduct may be taught by example and by providing appropriate incentives. The board also believes that reasonable standards of conduct are to be established and that adherence to those standards insisted upon.

For the purpose of this policy, a student is defined as any person regularly enrolled in an educational program provided by, or approved by, the board of education and carried on in premises owned or controlled by the school district. Students in school buildings, on school grounds, using district property, or attending a district-sanctioned event shall not engage in any of the following:

1. Any conduct, the purpose of which is to obstruct, disrupt, or interfere with teaching, research, service, administrative or disciplinary functions, or any other activity sponsored or approved by the board of education.
2. Physical, emotional, or mental abuse of, or threat of harm to, any person on school owned or controlled property or at any school attended, sponsored, or supervised event or function. This includes antisemitism, which is a certain perception of Jews, which may be expressed as hatred toward Jews.
3. Damage, or threat of damage, to property of the school, regardless of the location, or to property of a member of the community or a visitor to the school, when such property is located on school owned, controlled, attended, or supervised premises.
4. Forceful or unauthorized entry into or upon, or occupation of, school district facilities including buildings and grounds.
5. Unlawful use, possession, distribution, sale, or trade of drugs, alcohol, or controlled substances, or any substance or material believed to be drugs, alcohol or controlled substances, or any substance which is capable of causing or producing mood alteration or behavioral changes.
6. Conduct or speech that violates commonly accepted standards of society within the community.
7. Failure to comply with the reasonable and lawful directions of school district officials or law enforcement officers, acting in the performance of their duties, or failure to identify themselves to such officials or officers when directed to do so.
8. Any conduct constituting a breach of any federal, state, or city law or ordinance or duly adopted policy of the board of education.

Any student knowingly violating any of these policies and regulations will be subject to warning, reprimand, probation, suspension, or expulsion in addition to any civil or criminal proceedings or prosecution.

MEDICATION: ADMINISTERING TO STUDENTS

It is the policy of the Sterling Board of Education that if a student is required to take medication during school hours and the parent or guardian cannot be at school to administer the medication or if circumstances exist that indicate it is in the best interest of the student that a nonprescribed medication be dispensed to that student, the principal, or the principal's designee, may administer the medication only as follows:

1. Prescription medication must be in a container that indicates the following:
 - A. student's name,
 - B. name and strength of medication,
 - C. dosage and directions for administration,
 - D. name of physician or dentist,
 - E. date and name of pharmacy, and
 - F. whether the child has asthma or other disability which may require immediate dispensation of medication.

The medication must be delivered to the principal's office in person by the parent or guardian of the student unless the medication must be retained by the student for immediate self-administration. The medication will be accompanied by written authorization from the parent, guardian, or person having legal custody that indicates the following:

- A. purpose of the medication,
 - B. time to be administered,
 - C. whether the medication must be retained by student for self-administration,
 - D. termination date for administering the medication, and
 - E. other appropriate information requested by the principal or the principal's designee.
2. Self-administration of inhaled asthma medication by a student for treatment of asthma, ~~or~~ an anaphylaxis medication used to treat anaphylaxis, and the self-administration of replacement pancreatic enzymes by a student for treatment of cystic fibrosis is permitted with written parental authorization. The parent or guardian of the student must also provide a written statement from the physician treating the student that the student has asthma or anaphylaxis and is capable of, and has been instructed in the proper method of, self-administration of medication. Additionally:
 - A. The parent or guardian must provide the school with an emergency supply of the student's medication to be administered as authorized by state law.
 - B. The school district will inform the parent or guardian of the student, in writing, and the parent or guardian shall sign a statement acknowledging, that the school district and its employees and agents shall incur no liability as a result of any injury arising from the self-administration of medication by the student.
 - C. Permission for the self-administration of asthma, ~~or~~ anaphylaxis medication, or replacement cystic fibrosis enzymes is effective for the school year for which it is granted and shall be renewed each subsequent school year upon fulfillment of the above requirements.

MEDICATION: ADMINISTERING TO STUDENTS (Cont.)

D. A student who is permitted to self-administer asthma medication or anaphylaxis medication shall be permitted to possess and use a prescribed inhaler, ~~or~~ anaphylaxis medication, or replacement pancreatic enzyme medication at all times.

E. Definitions:

1. **Medication** for purposes of self-administration, means a metered dose inhaler or a dry powder inhaler to alleviate asthmatic symptoms, prescribed by a physician and having an individual label, or an anaphylaxis medication used to treat anaphylaxis, including but not limited to Epinephrine ~~injections~~, prescribed by a physician and having an individual label, or replacement pancreatic enzymes prescribed by a physician and having an individual label.
2. **Self-administration** means a student's use of medication pursuant to prescription or written direction from a physician.
3. Students shall be permitted to possess and self-apply sunscreen that is regulated by the Food and Drug Administration without the written authorization of a parent, legal guardian, or physician. Students applying sunscreen are prohibited from applying sunscreen during instructional time. Aerosol spray must be applied outside of school buildings and away from other students. Students shall not be allowed to apply sunscreen to other students. Students who do not conform to these rules will be disciplined by the administration in accordance with school discipline policies.
4. Nonprescription medication may be administered only with the written request and permission of a parent, guardian, or person having legal custody when other alternatives, such as resting or changing activities, are inappropriate or ineffective. The medication will be administered in accordance with label directions or written instructions from the student's physician.

District personnel may assist a student in applying sunscreen with the written permission of a parent, guardian, or person having legal custody. (This is optional as the law provides "may." If a school board does not want to have this paragraph, this language should be removed).

Optional language: Would require the district to obtain a prescription for Epinephrine ~~injections~~ from a licensed physician who has prescriptive authority to the school district in the name of the district as a body corporate specified in Title 70, Section 5-105 which shall be maintained at each school site. This language should not be adopted or included in the policy if a prescription is not obtained.

5. *School District Prescribed Epinephrine ~~Injections~~. The school district will inform the parent or guardian of each student, in writing, that a school nurse or school employee trained by a health care professional or trained online or in person by the school nurse or a recognized food allergy and anaphylaxis training program in correlation with the State Department of Health's Diabetes Management Annual School Training Program may administer, with parent or guardian permission but without a health care provider order, an Epinephrine ~~injection~~ to a student whom the school nurse or trained school employee in good faith believes is having an anaphylactic reaction. Only those students who have a waiver of liability executed by a parent or guardian on file with the school district may be administered ~~an~~ Epinephrine ~~injection~~. A school employee will contact 911 as soon as possible if it is believed that a student is having an anaphylactic reaction. If Epinephrine is administered to a student, a school employee shall contact 911 as soon as possible. The school*

MEDICATION: ADMINISTERING TO STUDENTS (Cont.)

district shall notify the parent or guardian of any student who experiences a possible allergic reaction as soon as possible.

6. *School District Prescribed Inhalers. The school district will inform the parent or guardian of each student, in writing, that a school nurse or school employee trained by a health care professional may administer an inhaler to a student whom the school nurse or trained employee in good faith believes is having respiratory distress. A school employee designated by the superintendent will notify the parent or guardian of a student after the administration of an inhaler.*

The district will require annual training for teachers and school employees who are directly responsible for students on the topics of food allergies, recognizing anaphylaxis, and instruction on how to administer Epinephrine. The training school be completed before the school year begins or upon hiring the teacher or school employee. Documentation certifying completion of the required training shall be retained in the personnel file of the teacher or school employee. The training may be provided online or in person by the school nurse or a recognized food allergy and anaphylaxis training program.

The administrator, or administrator's designee, will:

- A. Inform appropriate school personnel of the medication being administered
- B. Keep an accurate record of the administration of the medication
- C. Keep all medication in a locked cabinet except medication retained by a student per physician's order
- D. Return unused prescription medication to the parent or guardian only

The parent, guardian, or person having legal custody of the student is responsible for informing the designated official of any change in the student's health or change in medication.

This policy statement will be provided to a parent or guardian upon receipt of a request for long-term administration of medication.

**REFERENCE: 10 O.S. §170.1
59 O.S. §353.1
70 O.S. §1-116, et seq.**

**MEDICATION:
ADMINISTERING TO STUDENTS
AUTHORIZATION**

Name _____ Grade _____

Teacher _____ School _____

Time to be administered _____ a.m. _____ p.m.

Date from _____ to _____

TO PARENT/GUARDIAN/INDIVIDUAL ASSUMING PERMANENT CARE AND CUSTODY: Is the medication that you wish administered to your child prescription medicine? _____. If so, please provide the name of the medical doctor who prescribed the medication: _____

Is the child's disability or illness such that the medication must be self-administered by the child (asthma, etc.)? _____. If so, the student's medical doctor should include a statement to that effect in the child's prescription. The parent or guardian must provide a written statement from the physician treating the student that the student has asthma and is capable of, and has been instructed in the proper method of, self-administration of medication.

Prescription medication must be furnished by the parent or guardian with the original label prepared and attached by a pharmacist. The label must reflect the name, strength, and dosage of the medication and whether or not the medication may be self-administered by a minor. Non-prescription medication must be in the original container that must reflect the name and strength of the medication.

This form must be signed by the parent/guardian of the child named herein. The signature of the prescribing physician may be required at the discretion of the medication administrator.

Signature of Parent/Guardian/Individual Assuming
Permanent Care and Custody

Date

Physician's Signature
(required for self-administration of medication)

Date

PARENTAL AUTHORIZATION TO ADMINISTER MEDICINE

TO: _____
(Principal)

(School)

I am the parent with legal custody, the legal guardian, or individual assuming permanent care and custody of _____, a student attending this school. This student requires medication at intervals during the school day.

I hereby give my consent and authorize and request the school principal, or _____ (an employee of the school district designated by the principal, and me) to:

_____ Administer _____, a non-prescription medication that I am hereby supplying you, in accordance with the written instructions of the child's physician that is attached hereto.

_____ Administer _____, a filled prescription medication that I am hereby supplying you, in accordance with the directions for the administration of the medicine listed on the label of the vial.

_____ Administer _____, a filled prescription medication that I am hereby supplying you, in accordance with the written instructions of the physician prescribing the medicine, which is attached hereto.

_____ Permit the student to retain the medication on the student's person since the medication must be administered at unpredictable intervals throughout the day. A physician's statement that the student is capable of, and has been instructed in the proper method of, self-administration of medication is attached.

I understand that under state law, the board of education, the school district, or the employees of the district shall not be liable to the student or the student's parent or guardian for civil damages for any personal injuries to the student which result from acts or omissions of school employees in administering the medicine I have hereby authorized or from the self-administration of medication by the student.

Dated this _____ day of _____, _____.

(Parent with Legal Custody, Guardian, or Individual Assuming Permanent Care and Custody)

(Address)

WITNESS:

**LOG OF THE ADMINISTRATION OF MEDICINE
FOR THE _____ SCHOOL
SCHOOL YEAR _____ - _____**

DATE MEDICINE ADMINISTERED	NAME OF STUDENT GIVEN MEDICINE	NAME & TITLE OF PERSON WHO ADMINISTERED MEDICINE	NAME OF MEDICINE	DOSAGE & TIME GIVEN

STANDARDS OF PERFORMANCE AND CONDUCT FOR TEACHERS

Teachers are charged with the education of the youth of this state. In order to perform effectively, teachers must demonstrate a belief in the worth and dignity of each human being, recognizing the supreme importance of the pursuit of truth, devotion to excellence, and the nurturing of democratic principles.

In recognition of the magnitude of the responsibility inherent in the teaching process and by virtue of the desire for the respect and confidence of their colleagues, students, parents, and the community; teachers are to be guided in their conduct by commitment to students and the profession.

PRINCIPLE I COMMITMENT TO THE STUDENTS

The teacher must strive to help each student realize his or her potential as a worthy and effective member of society. The teacher must work to stimulate the spirit of inquiry, the acquisition of knowledge and understanding, and the thoughtful formulation of worthy goals.

In fulfillment of the obligation to the student, the teacher:

1. Shall not unreasonably restrain the student from independent action in the pursuit of learning.
2. Shall not unreasonably deny the student access to varying points of view.
3. Shall not deliberately suppress or distort subject matter relevant to the student's progress.
4. Shall make reasonable effort to protect the student from conditions harmful to learning or to health and safety.
5. Shall not intentionally expose the student to embarrassment or disparagement.
6. Shall not on the basis of race, color, creed, sex, national origin, marital status, political or religious beliefs, family, social or cultural background, or sexual orientation, unfairly
 - A. Exclude any student from participation in any program,
 - B. Deny benefits to any students,
 - C. Grant any advantage to any student.

This includes antisemitism, which is a certain perception of Jews, which may be expressed as hatred toward Jews.
7. Shall not use professional relationships with students for private advantage.
8. Shall not disclose information about students obtained in the course of professional service, unless disclosure serves a compelling professional purpose and is permitted or required by law.

STANDARDS OF PERFORMANCE AND CONDUCT FOR TEACHERS (Cont.)**PRINCIPLE II
COMMITMENT TO THE PROFESSION**

The teaching profession is vested by the public with a trust and responsibility requiring the highest ideals of professional service.

In order to assure that the quality of the services of the teaching profession meets the expectations of the state and its citizens, the teacher shall exert every effort to raise professional standards, fulfill professional responsibilities with honor and integrity, promote a climate that encourages the exercise of professional judgment, achieve conditions which attract persons worthy of the trust to careers in education, and assist in preventing the practice of the profession by unqualified persons.

In fulfillment of the obligation to the profession, the educator:

1. Shall not in an application for a professional position deliberately make a false statement or fail to disclose a material fact related to competency and qualifications.
2. Shall not misrepresent his/her professional qualifications.
3. Shall not assist entry into the teaching profession of any person known to be unqualified in respect to character, education, or other relevant attribute.
4. Shall not knowingly make a false statement concerning the qualifications of a candidate for a professional position.
5. Shall not assist an unqualified person in the unauthorized practice of the teaching profession.
6. Shall not disclose information about colleagues obtained in the course of professional service unless disclosure serves a compelling professional purpose or is required by law.
7. Shall not knowingly make false or malicious statements about a colleague.
8. Shall not accept any gratuity, gift, or favor that might impair or appear to influence professional decision or actions.

PRINCIPLE III

1. Pursuant to the Teacher Due Process Act of 1990, a career teacher may be dismissed or not reemployed for:
 - A. Willful neglect of duty.
 - B. Repeated negligence in performance of duty.
 - C. Mental or physical abuse to a child.

STANDARDS OF PERFORMANCE AND CONDUCT FOR TEACHERS (Cont.)

D. Knowing and willful failure to report suspected child abuse or neglect;

E. Incompetency.

~~F.~~ E. Instructional ineffectiveness.

~~G.~~ F. Unsatisfactory teaching performance.

~~H.~~ G. Commission of an act of moral turpitude.

~~I.~~ H. Abandonment of contract,

~~J.~~ I. Conviction of a felony,

~~K.~~ J. After a finding that such person has engaged in criminal sexual activity or sexual misconduct that has impeded the effectiveness of the individual's performance of school duties, or

~~L.~~ K. Failure to earn required staff development points.

2. A career teacher shall not be subject to dismissal or non-reemployment for items A, B, D, E, and F, above unless and until a written admonishment has been issued in accordance with relevant law.
3. A probationary teacher shall not be subject to dismissal or non-reemployment for inadequate teaching performance unless or until a written admonishment has been issued in accordance with relevant law.
4. Temporary teachers, substitute teachers, adult education teachers, and teachers employed in positions fully funded by private or federal grants shall not be protected by the provisions of the Teacher Due Process Act.
5. A teacher convicted of a felony shall be dismissed or not reemployed unless a presidential or gubernatorial pardon has been issued.
6. A teacher may be dismissed, refused employment, or not reemployed after a finding that such person engaged in criminal sexual activity or sexual misconduct that has impeded the effectiveness of the individual's performance of school duties:
 - A. "Criminal sexual activity" means the commission of an act defined in Section 886 of Title 21 of the Oklahoma Statutes, which is the act of sodomy; and
 - B. "Sexual misconduct" means the soliciting or imposing of criminal sexual activity (70 O.S. §6-101.22).
7. A teacher may be dismissed, refused employment, or not reemployed after a finding that such person has, either in the presence of a minor or in a manner that such person has participated in making available to a minor online, engaged in sexual acts, acts that appeal to the prurient interest in sex as found by the average person applying contemporary community standards, or acts that excessively promote sexuality in light of the educational value of the material and in light of the youngest age of any student with access to said material.

STANDARDS OF PERFORMANCE AND CONDUCT FOR TEACHERS (Cont.)

REFERENCE: 70 O.S. §6-101.21, et seq.

NOTE: In accordance with the referenced statutes, a copy of these standards of performance and conduct will be provided to each teacher.

THIS POLICY REQUIRED BY LAW.

Sterling Public Schools		FEG
<i>Adoption Date: 9/9/25</i>	<i>Revision Date(s): 7/30/13, 7/1/25</i>	<i>Page 1 of 1</i>

STUDENT TRANSFERS FOR CHILDREN OF ACTIVE-DUTY MILITARY MEMBERS

The school district shall allow the transfer of students who are dependent children of a member of the active uniformed military services of the United States on full-time active-duty status and for whom Oklahoma is the home of record and students who are the dependent children of a member of the military server on active-duty orders and for whom Oklahoma is the home of record. Transfers will be approved if:

- a. At least one parent of the student has a Department of Defense-issued identification card; and
- b. ~~At least one parent can provide evidence that he or she will be on active duty status or orders, meaning the parent will be temporarily transferred in compliance with official orders to another location in support of combat, contingency operation, or a natural disaster requiring the use of orders for more than thirty (30) consecutive days; and~~
- c. The student will be residing with a relative of the student who lives in the receiving school district or who will be living in the receiving school district within six (6) months of the filing of the application for transfer.

A student shall not be precluded from enrollment prior to residency for any of the following:

- a. Having an individualized education program (IEP) or an individualized family service plan under the Individuals with Disabilities Education Act;
- b. Receiving or qualifying for special education courses or services; or
- c. Receiving or qualifying for accommodations or services under the Rehabilitation Act of 1973 (Section 504).

If the enrolling student is transferring with an IEP, an individualized family service plan, or a Section 504 plan, the district shall take the necessary steps including, but not limited to, the transfer of records and any prior evaluations, the performance of reevaluations, if necessary, and meetings to ensure that comparable services are in place prior to the student's first day of school in the state.

REFERENCE: 70 O.S. §8-103.1

POLICY REQUIRED BY LAW

STRONG READERS ACT

To identify students who have a reading deficiency including students with characteristics of dyslexia, every student enrolled in kindergarten, first, second, and third grades shall be assessed at the beginning, middle, and end of each school year using a screening instrument approved by the State Board of Education reading skills including, but not limited to, phonological awareness, decoding, fluency, vocabulary, and comprehension. Any student who is assessed and found not to be meeting grade level targets shall be provided a program of reading instruction designed to enable the student to acquire the appropriate grade level reading skills. The program of reading instruction required shall be based on scientific reading research and shall align with the subject matter standards adopted by the State Board of Education. A program of reading instruction shall also include, but not be limited to:

1. Sufficient additional in-school instructional time for the acquisition of phonological awareness, decoding, fluency, vocabulary, and comprehension;
2. If necessary, and if funding is available, tutorial instruction after regular school hours, on Saturdays, and during the summer; however, such instruction may not be counted toward the 180 day or 1080 hour school year required by law;
3. Assessments identified for diagnostic purposes and periodic monitoring to measure the acquisition of reading skills including, but not limited to, phonological awareness, decoding, fluency, vocabulary, and comprehension, as identified in the student's program of reading instruction;
4. High-quality instructional materials grounded in scientifically based reading research, and
5. A means of providing every family of a student in prekindergarten, kindergarten, first, second, and third grade access to free online evidence-based literacy instruction resources to support the student's literacy development at home.

A student enrolled in kindergarten, first, second, or third grade who exhibits a deficiency in reading at any time based upon the screening instrument shall receive an individual reading intervention plan no later than thirty (30) days after the identification of the deficiency in reading. The reading intervention plan shall be provided in addition to core reading instruction that is provided to all students. The reading intervention plan shall:

1. Describe the research-based reading intervention services the student will receive to remedy the deficiency in reading,
2. Provide explicit and systematic instruction in phonological awareness, decoding, fluency, vocabulary, and comprehension as applicable,
3. Monitor the reading progress of each student's reading skills throughout the school year and adjust instruction according to the student's needs; and
4. Continue until the student is determined to be meeting grade-level targets in reading based on screening instruments or assessments.

STRONG READERS

The district strong readers plan shall be adopted and annually updated, with input from school administrators, teachers, and parents and legal guardians, and if possible a reading specialist, and which shall be submitted to and approved by the State Board of Education. This plan shall include a plan for each site that includes an analysis of the data provided by the Oklahoma School Testing Program and other reading assessments utilized which outlines how each school site shall comply with the provision of the Strong Readers Act.

Beginning with the 2022-2023 school year, any student enrolled in first, second, or third grade who is assessed through the Strong Readers Act and is not meeting grade level targets in reading after the beginning of the year assessment shall be screened for dyslexia. Screening may also be requested for a student by his or her parent or guardian, teacher, counselor, speech-language pathologist or school psychologist.

REFERENCE: 70 O.S. §1210.508A, et seq.

NOTE: Referenced statute requires each school district to adopt and annually update a district plan that includes a plan for each site, and which outlines how each school site will comply with the provisions of the Strong Readers Act.

Comanche County – Lawton

Multi-Jurisdictional Multi-Hazard Mitigation Plan

2024-2029

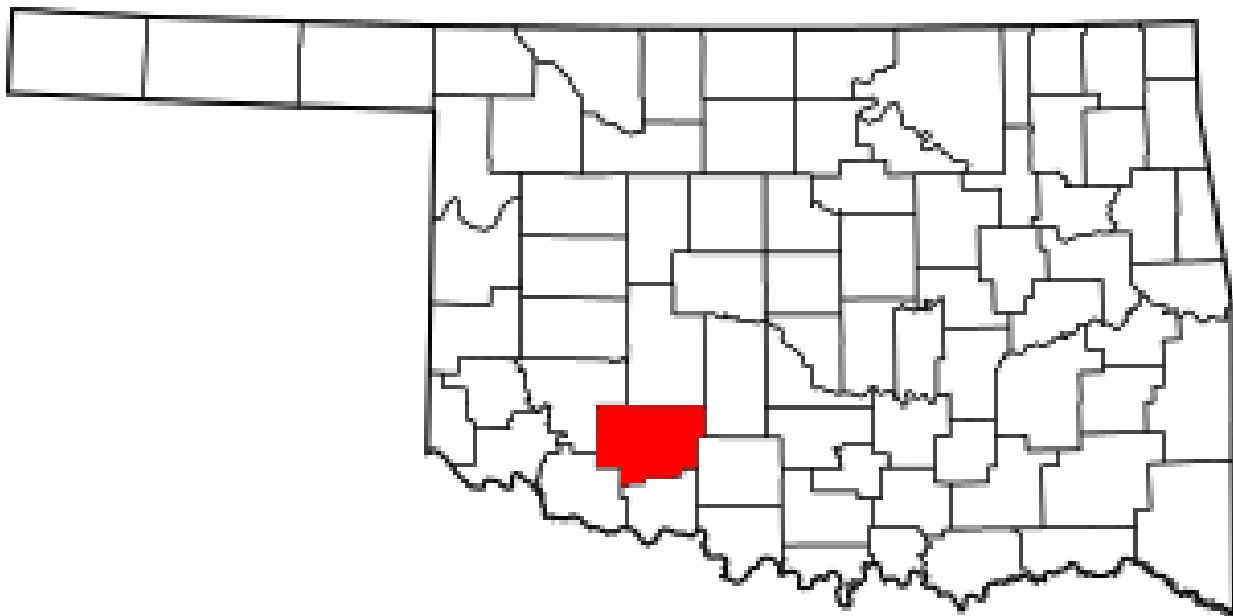


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ACKNOWLEDGEMENTS

The Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan includes the communities of Lawton, Cache, Chattanooga, Elgin, Faxon, Fletcher, Geronimo, Indianola, Medicine Park, Meers, and Sterling. It also includes the public schools of Lawton, Geronimo, Cache, and Sterling. The Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan was developed under the direction and guidance of the Comanche County Board of County Commissioners as well as the City Manager of City of Lawton, Oklahoma.

Comanche County Administration & Staff

John O'Brien	Commissioner, District 1
Johnny Owens	Commissioner, District 2
Josh Powers	Commissioner, District 3
Grant Edwards	Comanche County Assessor
Clint Langford	Comanche County – Lawton Emergency Management Director
Alana Pack	Comanche County – Lawton Emergency Management Deputy Director
Thad Hulbert	Comanche County – Lawton Emergency Management Specialist
Rhonda Brantley	Comanche County Treasurer
Carrie Tubbs	Comanche County Clerk
Amy Sims	Comanche County Election Board Secretary

City of Lawton Administration & Staff

John Ratliff	Interim City Manager
Dwayne Burke	Deputy City Manager
Jared Williams	Lawton Fire Department, Fire Chief
James Smith	Lawton Police Department, Chief
Cynthia Williams	Public Works Deputy

Numerous other government and educational officials, agencies, organizations, and individuals participated in the study. Acknowledgements of these important contributors appear throughout the document.

Executive Summary



Oklahoma's location at the intersections of the hot arid zone to the west, the temperate zone to the northeast, and the hot humid zone to the southeast make it subject to a wide variety of potentially violent weather and natural hazards.

Making people and businesses as safe as possible from a variety of natural and man-made hazards is the first step in making the area attractive for new residents

and expanding businesses. The Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan is a comprehensive effort to identify potential hazards and develop a sound plan to mitigate their impacts with the goal of saving the lives and property of the citizens of Comanche county, the incorporated and unincorporated communities, and the public-school systems of Comanche County. This Plan fulfills the requirements of the Pre-Disaster Mitigation Grant Program, and Hazard Mitigation Grant Program of the Federal Emergency Management Agency (FEMA) and Oklahoma Emergency Management (OEM).



In December 2005, the Multi-hazard Mitigation Council of the National Institute of Building

Sciences completed a study to assess future savings from mitigation activities. Their findings reflected the fact that mitigation activities in general produced over \$4 in savings for every \$1 invested in mitigation actions, with the greatest savings in the areas of flood-related events and wind related events. In addition, the report concluded, *"Mitigation is most effective when carried out on a comprehensive, community-wide, and long-term basis. Single activities can help but*

carrying out a slate of coordinated mitigation activities over time is the best way to ensure that communities will be physically, socially, and economically resilient to future hazard impacts."

Approval of this plan will qualify all unincorporated areas of Comanche County, the incorporated communities of Lawton, Cache, Elgin, Chattanooga, Geronimo, Faxon, Sterling, Fletcher, and Medicine Park and the public-school systems therein to apply for Pre-Disaster Mitigation (PDM) as well as Hazard Mitigation Grant Program (HMGP) disaster mitigation funds following a federal disaster declaration, as provided under Robert T. Stafford Disaster and Emergency Assistance Act as amended.



Overview of Planning Area

Comanche County is in Southwest Oklahoma, approximately 95 miles south of Oklahoma City on Interstate 44. As of the 2020 census, the population of Comanche County was 121,125 making it the 4th largest county in Oklahoma. Lawton is the largest city and county seat. Built on former reservation lands of the Comanche, Kiowa, and Apache in Indian Territory, Comanche County was open for settlement on August 16, 1901, by lottery. The region has three cities and seven towns as well as the Fort Sill military installation and Wichita Mountains Wildlife Refuge. The landscape of the county is typical of the Great Plains with flat topography and gently rolling hills, while the areas in the north are marked by the Wichita Mountains. Interstate 44 and three major US Highways serve the county by ground, while the Lawton-Fort Sill Regional Airport serves the county by air.

Comanche County's economy is largely based in the government sector which consists of half of the county's Gross Domestic Product. The governance of the county is led by a three-commission board, which are elected in four-year staggered terms. The county is served by several school districts and Cameron University in education as well as three hospitals for health care.

Comanche County and its cities are vulnerable to natural and man-made hazards. The Comanche County Hazard Mitigation Committee identified 8 hazards most likely to affect the county as a whole. These hazards include Dam Failure, Drought, Earthquake, Extreme Heat, Flood, Severe Thunderstorms, Severe Winter Storms, and Wildfire.

Purpose

The purpose of this plan is to:

- Assess the ongoing mitigation activities within each jurisdiction
- Identify and assess the hazards that pose a threat to citizens and property
- Evaluate additional mitigation measures that should be undertaken
- Outline a strategy for implementation of mitigation projects

The objective of this plan is to provide guidance for community activities for the next five years. It will ensure that Comanche County will implement activities that are most effective and appropriate for mitigating the identified natural and manmade hazards.

Comanche County Hazard Mitigation Planning Committee (HMPC)

Citizens and professionals active in disasters provided important input in the development of the plan and recommended goals and objectives, mitigation measures, and priorities for actions. The HMPC is comprised of citizen leaders of the county and the various communities appointed by the County Commissioners and representatives of the included public-school districts appointed by their various boards of education.

The Planning Process

Planning for the Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan followed a ten-step process, based on guidance and requirements of FEMA for the PDM grant program, HMGP, the Flood Mitigation Assistance (FMA) program, and the Community Rating System (CRS).

1. Organize to prepare the plan
2. Involve the public
3. Coordinate with other agencies and organizations
4. Assess the hazards
5. Assess the problem
6. Set Goals
7. Review possible activities
8. Draft the action plan.
9. Adopt the plan
10. Implement, evaluate, and revise

Plan Summary

The Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan provides guidance to help citizens protect life and property from natural hazards. The plan identifies the hazards that are most likely to strike each jurisdiction, provides a profile and risk assessment of each hazard, identifies mitigation measures for each hazard and present and action plan for implementation of the mitigation measures.

Mitigation Action Plan

The mitigation action plan includes strategies for implement the mitigation measures, including information on the responsible agency, time frame, cost estimate, funding sources and a statement of measurable results.

For further information about the Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan, contact:

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Chapter 1: Introduction

1.1 About the Plan

This document is the Multi-Jurisdictional Multi-Hazard Mitigation Plan 2023 Update for Comanche County. This strategic plan follows the provisions for the Hazard Mitigation Grant Program (HMGP) of the Federal Emergency Management Agency (FEMA) in accordance with the U.S. Stafford Disaster Relief and Emergency Assistance Act, as administered by the Oklahoma Department of Emergency Management (OEM). The Stafford Act provides the opportunity for federal assistance to state and local governments to alleviate suffering and damage from disasters. Amendments to the Act have broadened regulations to provide for programs to encourage strategies and measures to mitigate the impact of natural and man-made hazards, as well as continuation of long-standing programs for disaster preparedness and emergency operations plans and flood insurance coverage. The revisions to the Act make it clear that no federal assistance is available to an otherwise eligible jurisdiction if no Hazard Mitigation Plan has been adopted and is in effect.

The Plan addresses 8 natural hazards that can affect people and property in Comanche County.

Purpose

The purpose of the Plan Update is to:

- Describe the Multi-Hazard Mitigation Planning Process used to identify and select natural and man-made hazards, identify appropriate mitigation measures, and to develop the plan
- Provide a description of the planning area and assess the ongoing mitigation activities in Comanche County
- Identify and assess the hazards that pose a threat to residents, businesses, and property in the County, its incorporated communities and Public-School Districts.
- Identify Goals and Objectives of the County, Communities and Public-school districts to lessen and eliminate the loss of life and property damage due to natural and man-made hazards.
- Evaluate mitigation measures that should be undertaken by the County, cities, and towns to protect residents, businesses, and property and by Public Schools to protect students, faculty, and staff. Identify and recommend an Action Plan for implementation of mitigation strategies and measures.
- Develop a strategy for the adoption, maintenance, upkeep, and revisions of the Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan.

The object of this plan is to provide guidance for countywide mitigation activities for the next five years. It will ensure that Comanche County and other partners implement hazard mitigation activities that are most effective and appropriate for the natural and man-made hazards that threaten the County, Communities and School Districts of Comanche County.

Scope

The scope of the Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan 2023 Update includes the areas of incorporated and unincorporated Comanche County. The Comanche County Hazard Mitigation Plan addresses all-natural hazards deemed a threat to the citizens of Comanche County. Both short-term and long-term hazard mitigation opportunities are addressed beyond existing federal, state, and local funding programs.

Participating Jurisdictions

Planning Area includes unincorporated areas of Comanche County, incorporated cities and towns including the City of Lawton, The City of Cache, The City of Elgin; The Towns of Indianahoma, Geronimo, Chattanooga, Faxon, Sterling, Medicine Park, and Fletcher; and the public-school districts of Lawton Public Schools, Geronimo Public Schools, Cache Public Schools, and Sterling Public Schools. Previous iterations of this Hazard Mitigation Plan did not include the City of Lawton or Lawton Public Schools; in the interest of creating a true ‘countywide’ Multijurisdictional Hazard Mitigation Plan, those two entities were included, and this plan includes information drawn from the current City of Lawton Hazard Mitigation Plan. Elgin Public Schools, Indianahoma Public Schools, Fletcher Public Schools, Flower Mound Public Schools, Bishop Public Schools, Cameron University, and Great Plains Technology Center were included in the previous Hazard Mitigation Plan (2017-2022), however representation from these entities did not participate in community planning efforts nor did they submit updated jurisdictional capability or hazard information, thus they have not been included in the 2023-2028 Hazard Mitigation Plan.

Plan Goals

The Comanche County Hazard Mitigation Planning Committee (HMPC) developed the goals for the *Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan*, with input from interested citizens. The local goals were developed considering the hazard mitigation strategies and goals of the federal and state governments.

Comanche County’s Multi-Jurisdictional Goal

To improve the safety and well-being of the citizens residing and working in Comanche County, and attending and working at all Comanche County Public Schools, by reducing the potential of deaths, injuries, property damage, environmental and other losses from natural and man-made hazards in a manner that creates a disaster-resistant community, enhances economic development opportunities, and advances community goals and quality of life, resulting in more livable, viable, and sustainable communities.

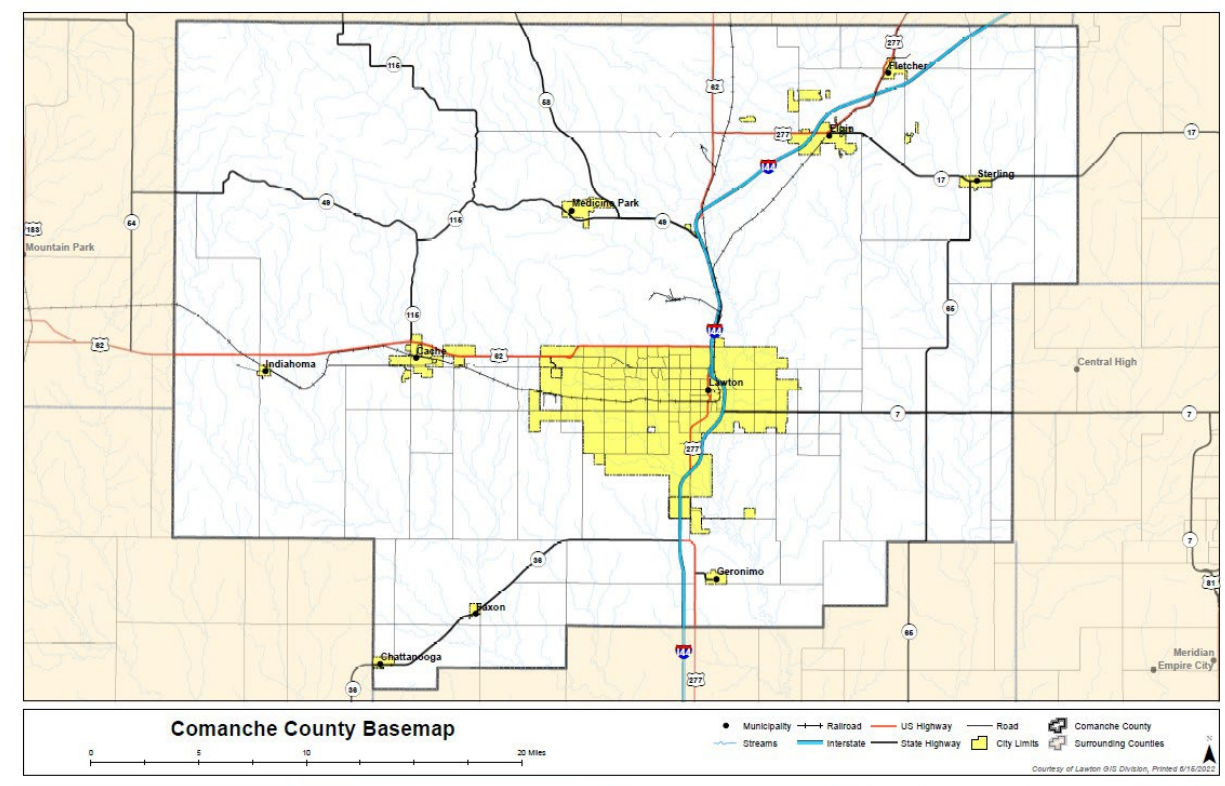
Comanche County Public Schools’ Goal

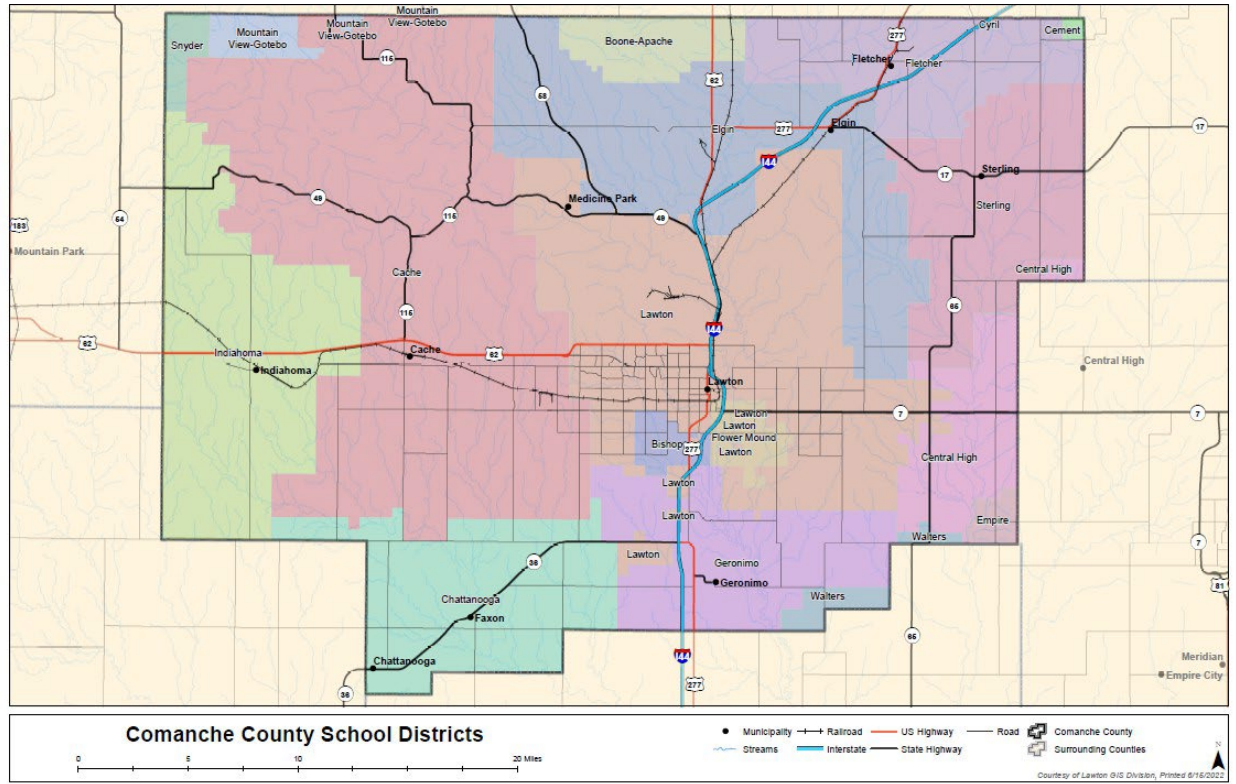
The primary goal of the Comanche County Public Schools Systems is to collaborate with Comanche County – Lawton Emergency Management to identify potential natural hazards and to plan mitigation action plans that would prevent or soften the impact of identified hazards on sites that comprise the Public School District. The participating school districts

with safe rooms/buildings to protect school communities from weather related hazards and provide neighborhood residents with an all-hazard shelter option near their homes will soften the impact of disasters and natural hazards as they occur.

1.2 Comanche County Overview

Comanche County consists of 1,084 sq. miles (1,069 sq mi of land, 14 sq mi of water) in the Great Plains of Southwest Oklahoma. Comanche County is faced with a variety of both natural and man-made hazards. In recent years, severe winter weather, severe thunderstorms, floods, and wildfires have made national headlines. In fact, any part of the county can be impacted by high winds, drought, hail, urban fires, hazardous material events, earthquakes, and other threats. In some cases, such as flooding and dam failure, the area's most at risk have been mapped and delineated.





Governance

Since achieving Statehood in 1907, each of Oklahoma’s counties has had identical forms of government. All 77 counties have, as their chief administrative body, a three-member board of county commissioners. One commissioner is elected from each of the three county election districts, each district being approximately equal in population in accordance with the decennial U.S. Census. Each board elects its chairman annually. The towns that are participating in the Plan Update are governed either by elected city councils or elected boards of trustees. Each body elects its own mayor. The independent public-schools districts participating in the plan update are governed by their boards of education whose members are elected from the districts. Each board of education elects its own chairperson or president.

Geography

Latitude: 34.40N Longitude: 98.28W

FIPS Code: 40031

Comanche County consists of 1084 square miles in southwest Oklahoma (1069 square miles of land and 14 square miles of water). Lawton serves as the County Seat. Comanche County is home to several smaller towns/townships including Cache, Chattanooga, Elgin, Faxon, Fletcher, Geronimo, Indianhoma, Medicine Park, Meers, and Sterling. Comanche County is bordered by six

other counties; They include Kiowa County, Tillman County, Cotton County, Stephens County, Grady County, and Caddo County. Also in Comanche County is the 90,000-acre military installation, Fort Sill, a U.S. Army Field Artillery Training Center, and the Air Defense Artillery.

Comanche County lies in an area that is typical of the Great Plains with prairie, few trees, and generally flat topography with gently rolling hills. The north region of the county consists of the Wichita Mountains including Mount Scott and Mount Pinchot, the area's highest peaks. The area consists mostly of Permian Post Oak Conglomerate limestone on the northern sections of the county. In the south sections of the county, Permian Garber Sandstone is commonly found with some Hennessey Group shale. Area creeks including East Cache Creek and West Cache Creek contain deposits of Quaternary alluvium. To the northwest, the Wichita Mountains consist primarily of Wichita Granite Group from the Cambrian Period.

Climate

Comanche County lies in a dry subtropical climate, with frequent variations in weather daily, except during the constantly hot and dry summer months. Frequent strong winds, usually from the south or south-southeast during the summer, help to lessen the hotter weather. Northerly winds during the winter can occasionally intensify cold periods.

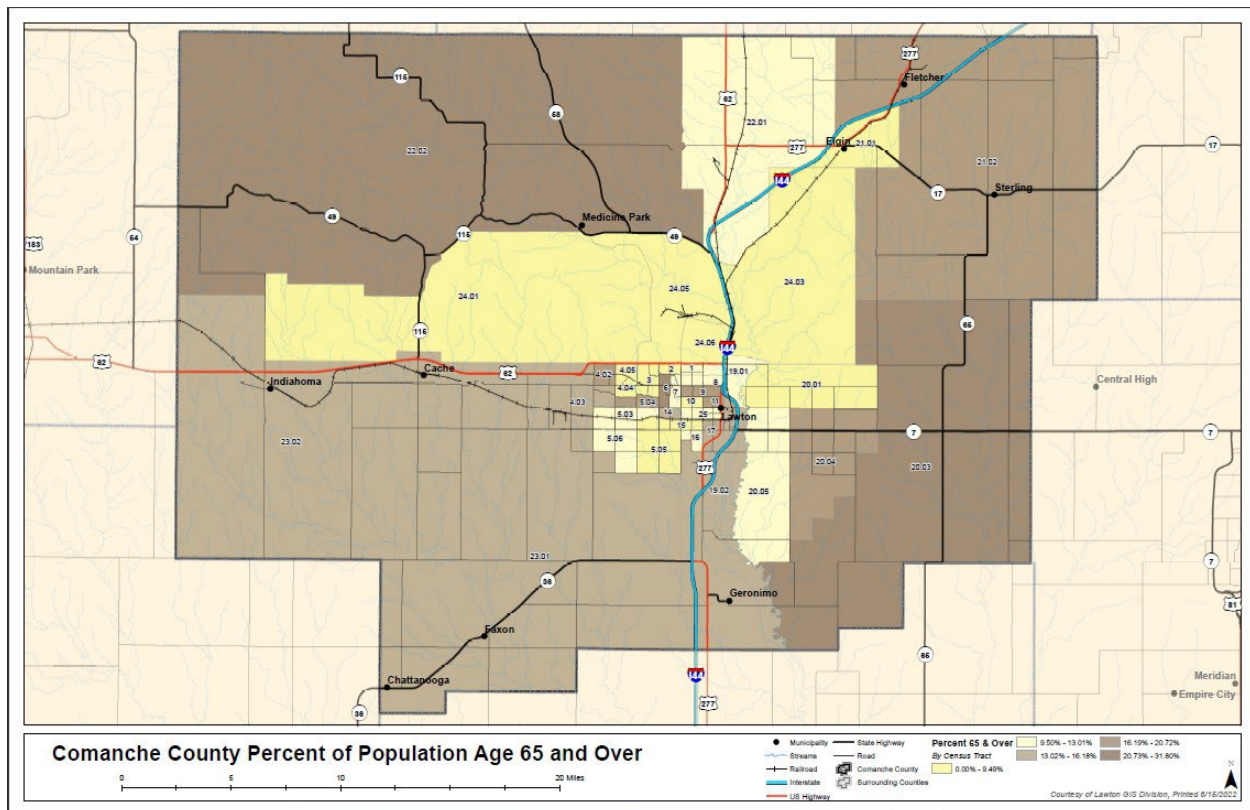
The average mean temperature for southwest Oklahoma is 61.9 °F (16.6 °C). The summers can be extremely hot with an average 21 days with temperatures of 100 °F (37.8 °C) and above. The winter months are typically mild, though there can be periods of extreme cold. The area averages eight days per year that fail to rise above freezing. The region receives about 31.6 inches (800 mm) of precipitation and less than 3 inches (80 mm) of snow annually.

Typically, in late April through early June, Comanche County is prone to severe weather which can include tornadoes, lightning, hail, and high winds.

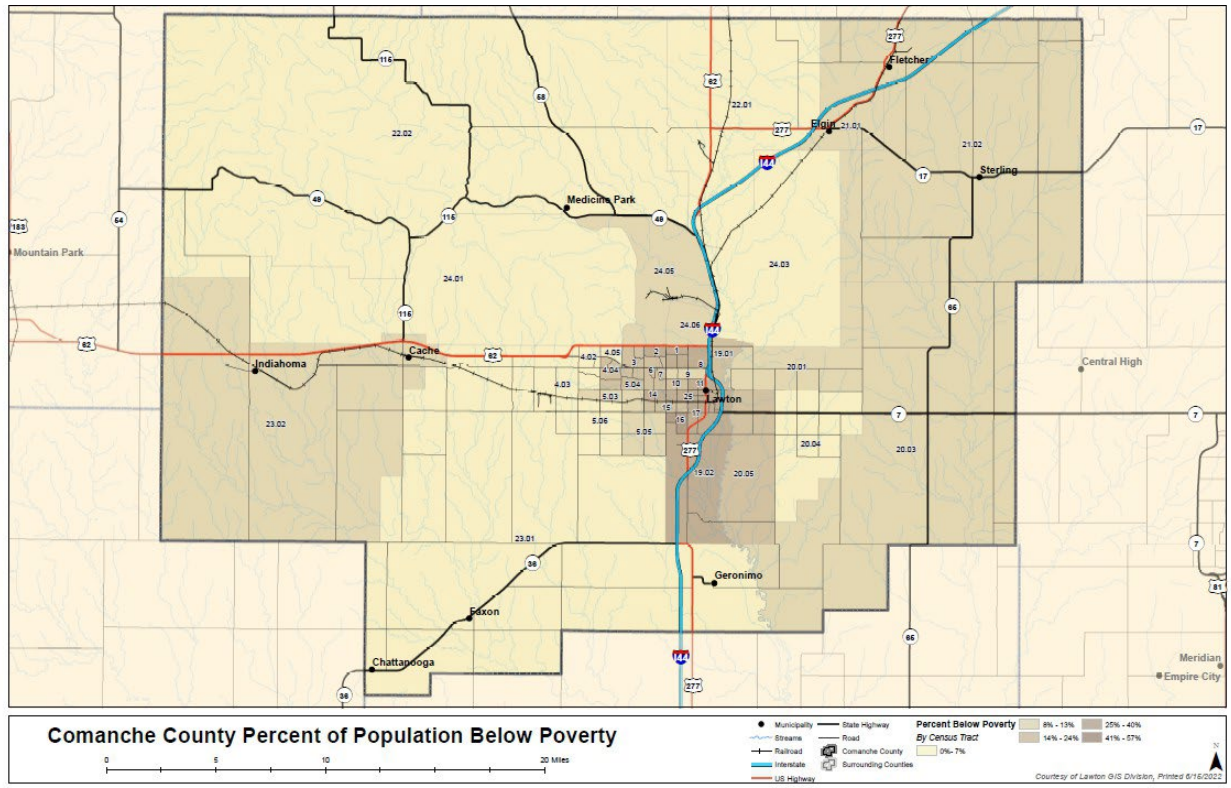
Demographics

Between the Census of 2010 and 2020, Comanche County had a decrease in population from 124,098 to 121,125. According to 2022 data from the U.S. Census Bureau, the median household income is \$54,483.¹

Comanche County Population 2020 Census	
Total Population	121,125
Under 5 Years of Age	6.7%
18 years and under	23.8%
65 Years and older	13.6%
White	65.4%
African American	16.87%
Native American	6.9%
Hispanic	15%
Other	8.1%
Poverty Status	19.2%



¹ <https://www.census.gov/quickfacts/fact/table/comanchecountyoklahoma,lawtoncityoklahoma/RH1825221?>



Lifelines

Lifelines are the systems that are necessary for human life and community function, especially during emergencies. Transportation, utilities, and emergency services are considered the lifelines of a community. Transportation systems include interstate, US, and state highways, roadways, railways, waterways, ports, harbors, and airports. Utility systems consist of electric power, gas and liquid fuels, telecommunications, water, and wastewater. Emergency service facilities include Emergency Alert System (EAS) communication facilities, hospitals, and the police and fire departments.

Utility Systems

Utilities are one of the primary lifelines for individuals and business in any community and county. The table below contains a summary of the utility companies present in Comanche County and the subsequent sections discuss each area in more detail.

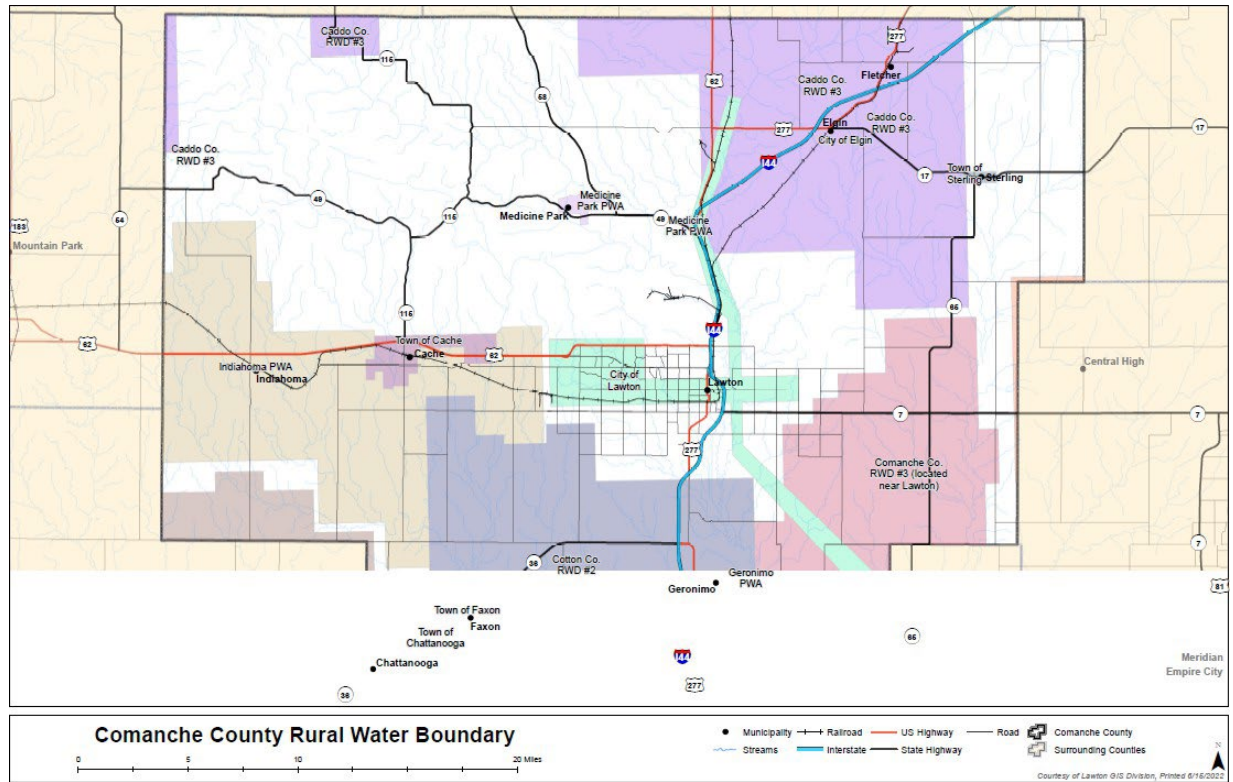
Community	Population	Natural Gas	Electric
Cache	2,796	Summit Utilities	PSO, Cotton Electric
Chattanooga	461	N/a	Cotton Electric
Elgin	2,156	Summit Utilities	PSO, Cotton Electric
Geronimo	1,268		Cotton Electric
Fletcher	1,177		PSO
Indiahoma	344		Cotton Electric
Lawton	96,867	Summit Utilities	PSO
Medicine Park	382		Cotton Electric
Sterling	793	Summit Utilities	PSO

Electricity

Comanche County's electrical service is provided by American Electric Power (dba Public Service Company of Oklahoma PSO), Cotton Electric Co-op, CKenergy Electric Co-op, Rural Electric Co-op, and Southwest Rural Electric Association.

Wastewater Treatment

In the unincorporated areas of the County, most wastewater is treated by individual septic tank systems. Of Comanche County's 52,603 housing units in 2022, 44,572 were on public sewer systems and 8,031 were on individual septic systems.



Community Water Systems²

Population Served	Water System Name	Primary Source Water Type
2371	Cache	Groundwater
627	Chattanooga PWS	Groundwater
47	Clemmer Water Association	Surface Water Purchased
2800	Comanche Co RWD #1	Surface Water Purchased
1840	Comanche Co RWD #2	Groundwater
2325	Comanche Co RWD #3	Surface Water Purchased
3574	Comanche Co RWD #4	Surface Water Purchased
3300	Elgin Public Works Auth	Groundwater
134	Faxon	Groundwater Purchased
1022	Fletcher	Groundwater
1200	Geronimo	Surface Water Purchased
50	Hwy 7 East Water Assn	Surface Water Purchased
350	Indiahoma Public Works Auth	Surface Water Purchased
114,387	Lawton	Surface Water
382	Medicine Park	Surface Water Purchased

2

<http://sdwis.deq.state.ok.us/DWW/JSP/WaterSystems.jsp?PointOfContactType=none&number=&name=&county=Comanche>

77	Mountain Village Development	Groundwater
1000	Pecan Valley RWD	Surface Water Purchased
51	Southeast Water Assn	Surface Water Purchased
762	Sterling Public Works Auth	Groundwater
50	Sunnyside Water Assn	Surface Water Purchased
42	Valley View Estates Homeowners Assn	Surface Water Purchased
25	Valley View Water Assn	Surface Water Purchased

Natural Gas Service

The natural gas service in Comanche County is provided by Oklahoma Natural Gas (ONG), and Summit Utilities. In the locations not served by these companies, the communities rely on propane only.

Telephone, Internet, and Cable Service

With some exceptions telephone service for Comanche County is provided by Fidelity Communication and Hilliary Communications, which also provides high-speed Internet to the area.

Transportation Systems

Highways and Roads

Several major US highways and Interstates cross Comanche County along with several State highways. These are described below.

- **Interstate 44** runs diagonally northeast-southwest through Oklahoma for 329 miles (529 km), connecting Wichita Falls, Texas, to Lawton, Oklahoma City, Tulsa, and St. Louis, Missouri. I-44 runs south to north through Lawton and directly adjacent to Elgin.
- **US Highway 62** runs from the US-Mexico border at El Paso, Texas to Niagara Falls, New York. It is the only east-west US Route that connects Mexico and Canada. Parts of US Hwy 62 follow what once was the Ozark Trail, including the historic bridge across the South Canadian River in Newcastle, which was the first structure built with federal highway funds in Oklahoma. US Hwy 62 runs diagonally from the Texas state line near Hollis to the Arkansas state line near Fayetteville. The highway passes through Lawton, Chickasha, Blanchard, Newcastle, and Oklahoma City, then on to Henryetta, Okmulgee, Muskogee, and Tahlequah.
- **State Highway 7** (abbreviated **SH-7**) is a 150.5-mile (242.2 km) highway in southern Oklahoma. This lengthy highway connects many towns in Oklahoma's "Little Dixie" area. It runs from Interstate 44 in Lawton to U.S. 69/US-75 in Atoka.
- **US Highway 277** runs from south to north beginning at Del Rio, Texas and terminating at I44 in Newcastle. From Chickasha to Newcastle US 277 is duplexed with US Hwy 62 and is a 4-lane expressway from Blanchard north to Newcastle,

where it becomes the city's Main St. and Meridian Ave.

- **US 281** enters the state of Oklahoma at the Red River bridge north of Burkburnett, Texas on a route concurrent with I-44 starting in Wichita Falls. About six miles (9.7 km) north of the Red River, US 281 leaves I-44 at Randlett and follows a two-lane roadway parallel to the newer I-44, which becomes the Wichita Falls–Lawton section of the H.E. Bailey Turnpike, from Randlett to a point six miles (9.7 km) south of Lawton. Through the Lawton/Fort Sill metropolitan area, US 281 again overlaps a toll-free section of I-44, while the former US 281 alignment through the city of Lawton is designated as Business US 281 between I-44 exits 34 and 39B. About eight miles (13 km) north of downtown Lawton, US 281 departs from I-44 to continue north through the cities of Apache, Anadarko, Gracemont, Binger and Hinton
- **State Highway 65** begins at US-70 12 miles (19 km) east of Randlett in Cotton County. From there, it heads north towards Temple. On the western outskirts of that town, SH-65 meets SH-5, and begins a short concurrency with it. As the highway leaves town, it curves back to a due north course. SH-65 continues northward, meeting SH-53. SH-65 enters Comanche County just south of Hulen, where it turns east to briefly parallel the county line before turning back to the north. The highway passes through Letitia before it crosses SH-7 in unincorporated Pumpkin Center. The route then continues north for 13 miles (21 km) before ending at SH-17 in Sterling.
- **Southern State Highway 58** begins at an intersection with State Highway 49 in Medicine Park in Comanche County. It heads north, passing Lake Lawtonka before meeting State Highway 19, which overlaps for four miles (6.4 km). After splitting off, it meets State Highway 9 in Carnegie. It passes through the unincorporated community of Alfalfa, after which it has a two-mile (3.2 km) concurrency with State Highway 152
- **State Highway 49** begins in Kiowa County at SH-54 south of Cooperton and heads due east. The highway crosses into Comanche County about 2 miles (3.2 km) east of that point. The road continues east for about two miles more, where it makes a ninety-degree turn to the north. It continues north for around a half-mile (0.8 km), then angles northeast. It then enters the Wichita Mountains Wildlife Refuge.
- **State Highway 115** begins at an interchange with U.S. Highway 62 (a freeway at this point) near Cache. It goes due north from here, passing through a remote part of Fort Sill before reaching the Wichita Mountains Wildlife Refuge. After entering the refuge, SH-115 is unsigned, appearing only as a nameless road. The road intersects State Highway 49 at the Cache Wye.
- **State Highway 36** (abbreviated **SH-36** or **OK-36**) is a state highway in Oklahoma. It runs for 44.4 miles (71.5 km), forming a western loop route from Interstate 44, which it connects to at both ends. As Highway 36 crosses into Comanche County, it also enters the town of Chattanooga, which it passes through on 3rd Street. Leaving town, the route continues due east, then curves towards the northeast, crossing Spring Creek. SH-36 next runs through Faxon, continuing northeast; after leaving the town, it bridges West Cache Creek. The highway then resumes a due east course and continues for

nearly 5.5 miles (8.9 km) before reuniting with I-44. At this interchange, the SH-36 designation ends. The roadbed continues east through the interchange; a motorist continuing straight will then be on southbound US-277/US-281 towards Geronimo.

- **State Highway 17**, abbreviated as **SH-17**, is an east–west highway in Oklahoma. It is a relatively short highway, extending for only 20.86 miles (33.57 km) from U.S. Highway 277 (US-277) in Elgin to Business US-81 in Rush Springs. SH-17 begins at U.S. Highway 277 in the north-central part of Elgin. SH-17 proceeds due east out of town for approximately 1½ miles (2.4 km) before turning southeast. Around 2½ miles (4.0 km) west of Sterling, the route returns to a due east course, then curves slightly to the south as it enters town. On the west side of town, SH-17 serves as the northern terminus of SH-65, which follows 5th Avenue southward out of town. SH-17 continues east through Sterling along Main Street. East of Sterling, SH-17 crosses Beaver Creek near its source. About five miles (8.0 km) east of SH-65, SH-17 crosses the Comanche–Grady County line.

Airports

Comanche County is served by 2 airports and 3 heliports, listed below:

- **Lawton-Ft. Sill Regional Airport** Located at 34.567714, -98.416637, 2 miles south of Lawton in Comanche County. It is a Primary Commercial Service airport with one concrete runway at approximately 8,599 feet in length.
- **Henry Post Airfield:** A military airfield owned by the US Army; Henry Post is located at 34.643164094, -98.401331728 on Ft. Still. It has one concrete runway that is approximately 5,001 feet in length.
- **Comanche Co Memorial Hospital Heliport:** Located in the City of Lawton, at 34.609166, -98.435555. The heliport is a part of Comanche County Memorial Hospital and is run as such.
- **Cameron University Heliport:** Located in the City of Lawton just west of Comanche Co Memorial Hospital on Gore Blvd at 34.608333, -98.441944. is Cameron University's Heliport. Primary use was for the hospital before they received one.
- **Southwestern Medical Center Heliport:** Located in the City of Lawton, just west of 52nd Street on Lee Blvd at 34.592777, -98.3463888.

Railroads

Comanche County is served by one railway. Burlington North Santa Fe (BNSF) railway enters Comanche County just north of Fletcher Oklahoma. It turns and runs parallel to I44 until the center of Lawton where it turns west and continues until it leaves the county just northwest of Indianahoma.

Bus Transport

The Lawton Area Transit System (LATS) is the public transportation in the county. LATS has been serving the residents of Lawton for over eighteen (18) years providing fixed route and para-transit service during those years. LATS is governed by the Trust, a body composed of the elected council members for Lawton. LATS has been managed on behalf of the Trust by

HTG (Hendrickson Transportation Group). The buses move in clockwise and counterclockwise direction along with the routes with a fifteen-minute separation between the directions of movement. LATS also operates a shuttle service to the Fort Sill Artillery Base. LATS operates a fixed route bus system five (5) days a week, being closed on Saturdays and Sundays.

Economy

Ranching and farming have always been a major economic factor in Comanche County. Major crops are cotton, grains, and hay. In 2017 there were 1,055 farms in Comanche County (down 5% from 2012), with 467,180 acres being farmed (a 1% increase from 2012), that produced \$81,010,000.00 in sales (a 71% increase from 2012). About 81% of farm revenue was from livestock sales, and 19% from crops. About 61% of Comanche County farmland is devoted to pasture and 34% to crops.³

Comanche County Major Employers⁴

Employer	Community	Activity
<i>Ft. Sill Military Installation</i>	<i>Comanche County</i>	<i>Government</i>
<i>Lawton Public School</i>	<i>City of Lawton</i>	<i>Education</i>
<i>Goodyear Tire and Rubber</i>	<i>Comanche County</i>	<i>Manufacturing</i>
<i>Comanche County Memorial Hospital</i>	<i>City of Lawton</i>	<i>Healthcare</i>
<i>City of Lawton</i>	<i>City of Lawton</i>	<i>Government</i>
<i>Bar-S Foods</i>	<i>City of Lawton</i>	<i>Manufacturing</i>
<i>Chemical Packaging Corp</i>	<i>City of Lawton</i>	<i>Manufacturing</i>
<i>Republic Paperboard</i>	<i>Comanche County</i>	<i>Manufacturing</i>
<i>Georgia-Pacific</i>	<i>Comanche County</i>	<i>Manufacturing</i>
<i>Silverline Plastics</i>	<i>City of Lawton</i>	<i>Manufacturing</i>

According to census.gov Comanche County has an income per capita of \$28,512 and a median household income of \$54,483 with an unemployment rate of 3.4% (national average 6.0%). The primary industries upon which the civilian economy of Comanche County is reliant upon is educational services, and health care and social assistance (28%),

³ [cp40031.pdf \(usda.gov\)](#)

⁴ Oklahoma Department of Commerce

[Demographics | Lawton-Fort Sill Economic Development Corporation \(lawtonedc.com\)](#)
[Economy in Comanche County, Oklahoma \(bestplaces.net\)](#)

retail trade (11.1%), arts, entertainment, recreation, accommodation, and food services (10.7%), public administration (9.8%), and manufacturing (9.5%).

Changes in Development, Hazard Vulnerability and Impacts

Approximately 40% of all housing structures within Comanche County are occupied by short-term occupants, with 78% of the population residing within the urbanized area of the City of Lawton. Housing development is trending upwards, specifically around the emerging urbanized areas of the City of Elgin and the City of Cache. A veteran-friendly property tax environment has also accelerated development within these areas, in addition to sought-after primary and secondary education opportunities. Comanche County experiences an ebb and flow in overall population numbers due in part to the large transient population which is a result of the Fort Sill Military Installation and the associated military population. Overall, the population estimate of 123,046 as of July 1st, 2022 shows a 1.6% increase from April 1st, 2020, which is a 2.3% decrease from the 2010 Census⁵.

As Comanche County experiences population growth, the risk of natural hazards affecting its residents intensifies, particularly in specific areas prone to various environmental threats.

Furthermore, population growth exacerbates the vulnerability of socially marginalized groups. New developments may displace underserved populations, including those experiencing homelessness or residing in low-income housing. Additionally, the expansion of population centers puts state assets at increased risk from varying natural hazards, contingent upon their geographic location within the county.

Economic Impact

The economic impact of natural disasters can significantly increase vulnerability within communities, often leading to a rise in at-risk populations, including those experiencing homelessness. Displacement, loss of livelihoods, and property damage can exacerbate existing socioeconomic disparities, pushing individuals and families into precarious situations. The disruption of essential services and infrastructure further compounds these challenges, hindering recovery efforts and prolonging the cycle of vulnerability. As such, addressing the economic fallout of disasters is critical in preventing homelessness and supporting the resilience of our community.

⁵ Census.gov

Summary of Jurisdictional Change

Jurisdiction	Summary of Jurisdictional Change
Comanche County	<p>Comanche County has continued to see changes in population growth since 2000. According to the 2010 census, Comanche County’s Population was 125,401. By the time the 2020 Census, the population had decreased to 121,125, a decrease of about 0.4%. This attributed to the Permanent Change of Station (PCS) environment created by U.S. Army Garrison Fort Sill, which contributes to population fluctuation as soldiers and their families pass through the county. In 2023, the estimated population has resurged to 123,654, an increase of 0.49%. Regardless, this population continues to influence the population in smaller communities such as Elgin, Fletcher, and Cache. This has also influenced the rapid development of subdivisions in unincorporated Comanche County. These subdivisions are generally located outside of an incorporated municipality which does not require zoning or planning permits. This has led to an increase in structures being built inside Special Flood Hazard Areas due to an inability to properly track and account for the development due to having no zoning process. We still continue to enforce FEMA regulations for development within a floodplain, however without the ability to have visibility on all development, retroactive action has had to occur. This increase in structures and population in unincorporated areas have increased the Planning Areas’ vulnerability to multiple hazards, including:</p> <ul style="list-style-type: none"> • Wildfire • Flooding • Severe Thunderstorms • Dam Failure • Severe Winter Weather • Earthquake
City of Lawton	<p>According to the 2000 Census, Lawton’s population was 92,800 and has continued to see consistent growth of 0.59% annually, despite a slight decrease to 90,517 in the 2020 census. The estimated population in 2023 is 92,688, an increase of 2.4%. Aging infrastructure and buildup of subdivisions adjacent to city limits has increased vulnerability, especially for wildfires and utility impacts due to severe weather events. Lawton has also seen an increase in vulnerable populations, particularly the unhoused</p>

	population which creates additional vulnerabilities to Extreme Heat, Severe Winter Weather, and Dam Failure.
Lawton Public Schools	Lawton Public Schools has an annual enrollment of 14,000 students. Lawton Public Schools has added a training and conference center since 2020 and has also increased their virtual and long-distance learning capability. They have increased their involvement in community planning and their Emergency Operations Plan was updated in August of 2023. Their level of vulnerability has neither increased nor decreased.
City of Cache	Cache has continued to see sustained annual growth with a population of 2,915 in the 2020 census increasing 11% to an estimated 3,239 in 2023. The City of Cache has been identified by the U.S. Census Bureau as one of the fastest growing municipalities in Oklahoma. ⁶ Continuing expansion of infrastructure as well as housing structures has increased the city's vulnerability since the last update, but especially to wildfires as the wildland urban interface continues to push into the unincorporated areas of Comanche County without comparable increase in public safety capability. Additionally, Cache lies downstream of two identified High Hazard Potential Dams, and the increased number of residential structures in the inundation area increases Cache's vulnerability to dam failure and flood.
Cache Public Schools	Cache Public Schools has an annual enrollment of 2,100 students and this is expected to increase as the population continues to increase. The addition of a new Junior High building and plans to build a new sports complex since the last update has increased vulnerability for Cache Public Schools particularly to Severe Thunderstorms.
Town of Chattanooga	The Town of Chattanooga's population reported in the 2020 census was 414. There has been no significant increase or decrease in the overall population or capability. The level of vulnerability has neither increased nor decreased since the last update.
City of Elgin	Elgin is the fastest growing community in Comanche County. Quickly becoming a bedroom community of Lawton, it is home to the majority of personnel employed or stationed at Fort Sill Military Installation. Elgin has a sustained annual growth of 1.82%

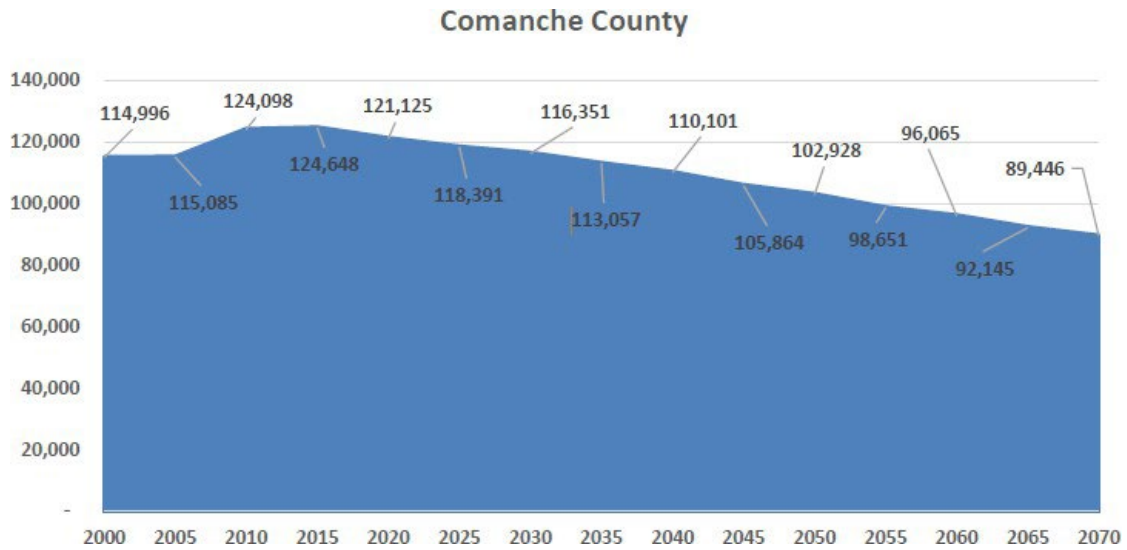
⁶ <https://extension.okstate.edu/announcements/community-and-economic-development/population-change-in-oklahoma-counties-and-municipalities.html>

	and the population has grown from 3,649 in 2020 to an estimated 3,920 in 2023 for a 7.43% increase. There has been an increase in both commercial and residential construction, including residential subdivisions in adjacent unincorporated Comanche County. Overall, the increase in infrastructure, population, and capability has increased the level of vulnerability to the City of Elgin for wildfire, severe winter weather, and severe thunderstorms.
Town of Faxon	Faxon has a population of 113 residents and decreased in population from the 2010 census of 136. Faxon is not expected to grow or expand its' infrastructure and there has been no significant increase in population since 2020. The level of vulnerability has neither increased nor decreased.
Town of Fletcher	Fletcher has a population of 1, 251 and is expected to remain on track with an annual growth rate of 1.52%. Fletcher is quickly joining Elgin as a bedroom community of Lawton with increasing development occurring adjacent to its town limits since the last update. Improvements in infrastructure and population are set to outpace public safety capabilities, increasing the level of vulnerability to hazards such as wildfire and flooding.
City of Geronimo	Geronimo has a 2023 population of 1,180 and has an annual growth rate of .76%. The population recorded in the 2020 census was 1,153, showing an estimated 3.12% growth rate. Geronimo has not seen rapid growth as other communities in Comanche County but is beginning to see gradual development occur in the unincorporated areas surrounding it since the last update. This growth will increase vulnerability to wildfire for those residents who fall within the fire protection district. The vulnerability to severe weather is also increased as the number of structures increase.
Geronimo Public Schools	Geronimo Public Schools has an annual enrollment of 343 students, with enrollment expected to increase as population increases. There are currently two campuses which house K-12 students; one of which is the original building site. This site is vulnerable to severe weather due to age. Overall, the vulnerability of Geronimo Public Schools has neither increased nor decreased since the last update.
Town of Indiahoma	Indiahoma has an estimated 2023 population of 284. This is an increase of 2.9% since the 2020 census population of 276. Indiahoma has not experienced a significant increase in

	population or development since the last update and overall, the level of vulnerability has neither increased nor decreased.
Town of Medicine Park	Medicine Park has an estimated 2023 population of 494, which is an increase of 21.08% since the 2020 census. Medicine Park sees an annual growth rate of 4.88% due in large part to their increasing tourist economy. The U.S. Census Bureau has identified Medicine Park as one of the fastest growing communities in Oklahoma. ⁷ There has been a significant increase in commercial construction within the town as well as the development of residential construction since the last update. The vulnerability to Medicine Park from wildfire, dam failure, flooding, and severe weather have all increased due to the increase in population, development, and tourism.
Town of Sterling	Sterling has an estimated 2023 population of 680, which is an increase of 1.8% since the 2020 census. Sterling has an annual growth rate of .44% and is expected to continue to see that growth, especially in the adjacent unincorporated areas surrounding the town. Its proximity to the City of Elgin and Town of Fletcher has contributed to a steady increase of subdivision development which increases its' level of vulnerability especially to wildfires as the wildland-urban interface continues to grow since the last update.
Sterling Public Schools	Sterling Public Schools has an annual enrollment of 328 students. Enrollment is expected to increase as population growth continues. At this time, the overall vulnerability for Sterling Public Schools has neither increased nor decreased.

⁷ <https://extension.okstate.edu/announcements/community-and-economic-development/population-change-in-oklahoma-counties-and-municipalities.html>

According to the Oklahoma Department of Commerce, the following demographic changes are forecasted to occur in the next several decades for Comanche County:



Comanche County is forecast to experience -0.52% population decline between 2020 and 2070. Comanche County has continued to experience swings in population since 1960.

Population Projections

Comanche					
2000	114,996	2025	118,391	2050	102,928
2005	115,085	2030	116,351	2055	98,651
2010	124,098	2035	113,057	2060	96,065
2015	124,648	2040	110,101	2065	92,145
2020	121,125	2045	105,864	2070	89,446

Source: Oklahoma Department of Commerce

Chapter 2: Planning Process

2.1 Overview of the Planning Process

Citizens, community leaders, government staff personnel, and professionals provided important input into the development of the Plan and recommended goals and objectives, mitigation measures, and priorities for actions. Some of the participants have been or are active in disaster response and emergency planning. Meetings to discuss the updates to the Hazard Mitigation Plan started in June of 2022 as part of the Comanche County Local Emergency Planning Committee (LEPC) and occurred every other month until January of 2023. Additionally, meetings were held with each municipality, to include Administrative, Public Works, Public Safety, and Education. All jurisdictions within Comanche County were provided with an opportunity to provide input and participate in the planning process.

During these meetings, attendees were provided with information regarding the Hazard Mitigation Planning process, documentation and tools with which they could assess their internal and external risks to the identified Natural Hazards. Each participant was encouraged to develop Mitigation Projects which would directly address a risk posed to their community and decrease the impact of the hazard. The projects submitted were consolidated into a project list. See Appendix A for a comprehensive list.

During these meetings, attendees identified the means by which Natural Hazards and their priorities would be established. The utilization of the Kaiser Permanente Hazard Vulnerability Assessment (HVA) was determined to be the most effective format. Additionally, a survey to better capture public comment as to the hazard, the level of vulnerability, preparedness, and risk each may pose to Comanche County. This survey was available to LEPC members and the public over a three-month period through electronic means via a link on the Comanche County website.

Once the survey was completed, the results were analyzed and presented to the LEPC for review. From these results, CCLEM staff were able to establish a priority of hazards which are addressed in this Hazard Mitigation Plan.

Public Agencies, private organizations, and industry were included in the planning process, and participated as members of the LEPC. Representatives provided insight on the effects of Natural Hazards on their respective disciplines and any critical lifeline or service provided. Management team members collaborated with each to collect their data on the hazards and determine how their programs can best support the Comanche County Multi- Jurisdictional Multi-Hazard Mitigation planning program. The Emergency Operations Plan is administered under Comanche County-Lawton Emergency Management.

Each LEPC meeting follows the Open Records Act, meaning that all schedules, agendas, and minutes of each minute are published according to those rules. Public comment during the planning process was highly encouraged, and a public comment mechanism was incorporated into the Emergency Management section and the homepage of the Comanche County website. Comanche County Lawton Emergency Management also presented information on the identified hazards, the hazard mitigation planning process, and the role played by the public to groups such as the AMBUCs and the Executive Club, which is a group of community leaders and retired businessmen from the Lawton – Comanche County community. Documentation such as sign-in sheets, agendas, and other documentation generated through these meetings are located in Appendix B.

Participating Jurisdictions were contacted in a number of ways; initial communication was performed by email to establish face to face meetings. Several follow up conversations were held via telephone, and additional communication regarding specific departments with the City of Lawton and Comanche County were done through email.

Citizen participants – those who were not engaged in emergency management, disaster response or hazard mitigation – brought perspective from their personal lives, their respective communities, and from their knowledge of the impacts of some or all of the hazards. Some had experienced the results of one or more hazards or had seen and/or read about incidents elsewhere and were interested in working toward an Action Plan that would reduce community and personal vulnerability to the various hazards. Specific engagement with tribal partners, those in Public Health, Medical Facilities, and community-based groups such as the American Red Cross and Salvation Army were engaged early on to provide representation of underserved, at-risk, and vulnerable populations. Because logistically it would be impossible for Emergency management staff to directly interface with these populations, these stakeholders served as proxies to provide information and an opportunity to provide feedback on the planning process.

2.2 Participating Jurisdictions

Name:	Title:	Jurisdiction:	Contribution to Planning Process	Primary POC Y/N
Clint Langford	Director	Comanche Co-Lawton EM	Served as project Coordinator. Provided Critical information on Comanche County’s Emergency Management, Historic events, and input on mitigation strategies.	Y
Alana Pack	Deputy Director - Floodplain Manager	Comanche Co-Lawton EM	Provided Floodplain Hazard Information, mitigation strategies, and vulnerabilities.	N

Dewayne Burk	Deputy City Manager	City of Lawton	Provided critical information on the City of Lawton's capabilities	Y
Cynthia Williams	Public Works	City of Lawton	Provided historical information on City of Lawton's historic events, mitigation strategies, and infrastructure.	N
Jessica Carter	Emergency 911 Communications	City of Lawton	Provided input on City of Lawton and Comanche County's response and emergency communications capability from Emergency Dispatch viewpoint	Y
Jared Williams	Fire Chief	City of Lawton	Provided input on the City of Lawton's fire awareness and response capability and input on mitigation Measures from a fire/first Responder point of view.	Y
James Smith	Police Chief	City of Lawton	Provided input from a law enforcement prospective.	Y
John O'Brien	County Commissioner	Comanche County	Provided information and Perspectives on Comanche County Infrastructure and provided feedback on hazard's impacts and Mitigation strategies.	N
Josh Powers	County Commissioner	Comanche County	Provided information and Perspectives on Comanche County Infrastructure and provided feedback on hazard's impacts and Mitigation strategies.	Y
Doyle Tosh	Undersheriff	Comanche Co Sheriff's Dept	Provided input from a law enforcement prospective.	Y
Hayden Crow	Fire Chief	Town of Chattanooga	Provide information on rural and rural fire mitigation	N
Phil Humble	Mayor	Town of Chattanooga	Provided input on Town of Chattanooga's facilities, resources and historic events.	Y
Hayden Crow	Fire Chief	Town of Faxon	Provided Input on Town of Faxon's facilities and resources.	Y
Jodee Ulloa	Town Clerk	Town of Indianoma	Provided input on Town of Indianoma's facilities, resources and historic events.	Y
Chris Jones	Fire Chief	Town of Indianoma	Provide information on rural and rural fire mitigation	N
Leslie Mallow	Mayor	City of Geronimo	Provided input on City of Geronimo's facilities, resources and historic events.	Y

Bill Pascoe	Superintendent	Geronimo Public Schools	Provided input from an education perspective on various hazard and mitigation strategies.	Y
Mike Baker	Fire Chief	City of Elgin	Provided input on City of Elgin's facilities, resources, expansion, and historic events.	Y
Craig Tracht	Public Works / Fire Chief	Town of Fletcher	Provide information on rural and rural fire mitigation	N
Charlene Avila	Town Clerk	Town of Fletcher	Provided input on Town of Fletcher's facilities, resources and historic events.	Y
Dale Winkler	Mayor	Town of Sterling	Provided input on Town of Sterling's facilities, resources and historic events.	Y
Jerry Smith	Assistant Fire Chief	Town of Sterling	Provide information on rural and rural fire mitigation	N
James Julian	Police Chief	Town of Sterling	Provided input from a law enforcement prospective.	N
Trent Parrish	Superintendent	Sterling Public Schools	Provided input from an education perspective on various hazard and mitigation strategies.	Y
David McCoy	Fire Chief	Town of Medicine Park	Provide information on rural and rural fire mitigation and Provided input on Town of Medicine Park's facilities, resources and historic events.	Y
Paul Couture	Floodplain Management / Code Enforcement	City of Cache	Provided input on City of Cache's facilities, resources and historic events.	Y
Lonnie Nunley	Maintenance	Cache Public Schools	Provided input from an education perspective on various hazard and mitigation strategies.	Y
Lynn Cordes	Executive Director of Communications	Lawton Public Schools	Provided input from an educational perspective on various hazard and mitigation strategies.	Y

Participating Stakeholders

NAME	TITLE	JURISDICTION	CONTRIBUTION TO PLANNING PROCESS	How Agency Was Invited
Archie Campbell <i>Transportation</i>	Director of Security	Lawton-Ft. Sill Regional Airport	Provided input on hazards, mitigations, and disasters.	Email
Kim O'Brien <i>Non-Profit/NGO</i>	Disaster Response Specialist	Red Cross	Provided input on hazards, mitigations, and disasters.	Email
Clarence Fortney <i>Technical Education</i>	Superintendent	Great Plains Technology Center	Provided input on hazards, mitigations, and disasters.	Email
Brenda Myers <i>At-Risk Population</i>	Director	Comanche County Juvenile Regional Detention Center	Provided input on hazards, mitigations, and disasters.	Email/Telephone
Bill Hobbs <i>At-Risk Population</i>	Administrator	Comanche County Detention Center	Provided input on hazards, mitigations, and disasters.	Email
Jake Law <i>At-Risk Population / Non-Profit</i>	Commander	Salvation Army	Provided input on hazards, mitigations, and disasters.	Email
Robert Stewart <i>At-Risk Populations & Medical Facilities</i>	Director	RMRS Region 3	Provided input on hazards, mitigations, and disasters.	Email
Nicholas Mosier <i>At-Risk Populations & Medical Facilities</i>	Risk Management Manager	Comanche County Memorial Hospital	Provided input on hazards, mitigations, and disasters.	Email
Scott Tanner <i>At-Risk Populations & Medical Facilities</i>	Emergency Dept. Director	Southwestern Medical Center	Provided input on hazards, mitigations, and disasters.	Email
Tim Hushbeck <i>Critical</i>	External Affairs Manager	PSO/AEP	Provided input on hazards, mitigations, and disasters.	Email

<i>Infrastructure and Utilities</i>				
Taron Epps <i>Industry and Economic Development</i>	President	Chamber of Commerce	Provided input on hazards, mitigations, and disasters.	Email
Scott Burrows <i>Community Organization</i>	Coordinator	Amateur Radio Emergency Service	Provided input on hazards, mitigations, and disasters.	Email
Raanon Adams <i>Industry and Economic Development</i>	Fire Chief	Goodyear Rubber & Tire	Provided input on hazards, mitigations, and disasters.	Email
Barbara Russell <i>Industry and Economic Development</i>	Safety Manager	Republic Paper Board	Provided input on hazards, mitigations, and disasters.	Email
Marty New <i>State Regulatory Agency</i>	Area Manager	OSU Extension Office	Provided input on hazards, mitigations, and disasters.	Email
Adam Cavazos <i>Industry and Economic Development</i>	Chief Technology Officer	Hilliary Communications	Provided input on hazards, mitigations, and disasters.	Email
Christie Chambers <i>Non-Profit/NGO</i>	Director	OBI	Provided input on hazards, mitigations, and disasters.	Email
Bob Hanefield <i>Academia</i>	Director Public Safety	Cameron University	Provided input on hazards, mitigations, and disasters.	Email
Jack Outheir <i>Critical Infrastructure and Utilities</i>	Pecan Valley RWD	Pecan Valley Rural Water District	Provided input on hazards, mitigations, and disasters.	Email

State and Federal Agencies Contacted

Agency Represented	Contribution:
Oklahoma State Department of Health	Provided input on capabilities, functions, and planning components to assist in identifying priorities for Natural Hazard impacts.
Oklahoma Water Resources Board	Provided input on dam safety
Oklahoma Department of Environmental Quality	Provided information regarding environmental considerations and mitigation actions for natural hazards.
Oklahoma Department of Forestry	Provided information regarding wildfire hazards, technical guidance, and recommendations for mitigation of wildfire urban interface.
Oklahoma Department of Public Safety	Provided input regarding public safety concerns, planning needs, and impacts due to natural hazards.
Oklahoma Department of Emergency Management and Homeland Security	Provided guidance on Hazard Mitigation Planning, serves as the pipeline for Federal Hazard Mitigation Grants, Disaster Response and Public Assistance, and provided regional capacity and capability information.
National Weather Service	Provided input on weather, climate data, forecasts and warning for the protection of life and property.
U.S. Fish and Wildlife Service	Provided input on the capabilities, functions, and planning components for mitigation strategies to disaster impacting Federal Wildlife Refuges and Protected Lands.
Comanche Nation	Provided input on the different hazards, mitigations, and disasters from a tribal perspective, and information regarding at-risk and vulnerable populations
Ft. Sill U.S. Army Installation	Provided input on the different hazards, mitigations, and disasters and their impact on the mission of the Army in Comanche County.

2.3 Public Involvement

The planning committee team undertook projects to inform the public of this effort and to solicit its input. All meetings were publicly posted, as required by ordinances and rules of the jurisdiction, to the county website. Residents of Comanche County were invited and encouraged to participate. Meetings were held at the Emergency Operations Center in the city of Lawton, all information was made available to the public via the county website. Additional meetings were held with each jurisdiction in Elgin, Medicine Park, Chattanooga, Geronimo, and Lawton. Some meetings were also held with specific departments within the City of Lawton, specifically Public Works, Police, Emergency Communications, and Lawton Public Schools. The HMP hosted its own webpage with a meeting schedule and a forum for public comments and feedback. Additionally, a Survey Monkey was developed to gather Public Input regarding hazard priorities within Comanche County. This survey was shared across all communities and feedback was received. Information provided by the public was incorporated throughout this plan. Public input was especially important when identifying

sound and much needed mitigation measures to include in the place. Public Input also helped to summarize past hazard events and impacts in each respective community and school district where National Climatic Data Center Storm Events information was not readily available. Planning and discussion of the Hazard Mitigation Plan was discussed primarily through the vehicle of the Local Emergency Planning Committee; of which multiple Media representatives, to include Print and Television are members. All meetings were publicly posted outside of the EOC, in the newspaper, and on the county website, as required by ordinances and rules of the jurisdiction. All methods of Public Communication were utilized to ensure that citizens who do not have access to internet based media or other digital media were provided an opportunity to comment and be informed as to the development and implementation of this Hazard Mitigation Plan.

2.4 Plans, Studies, Reports, and Technical Information Reviewed

The planning team reviewed relevant community studies, plans, reports, and technical documents in the inventory, evaluation, and plan phases of the Multi-Hazard Mitigation Plan development. Interviews with public officials were used to determine jurisdictional growth patterns and identify areas of future development.

Plans, Studies, Reports, and Technical Information	Relevant Information incorporated into the Plan
National Climatological Data Center (NCDC)	Historical hazard data used for previous occurrence
Oklahoma Climatological Survey	Historical and Analytical data regarding climatological impact and future climate trends as related to hazards.
U.S. Census Bureau Population Data, 2020	Identified vulnerable populations for hazards.
CDC Social Vulnerability Index (SVI)	Identified vulnerable demographics by zip code
Resiliency Analysis and Planning Tool (RAPT)	Identified hazards by location including earthquake, historical tornado tracks, and high hazard potential dam locations.
U.S. Drought Monitor (USDM)	Historical information relating to drought conditions and events
Emergency Operations Plans (EOP)	Identify Current resources and current capabilities
Comanche County Assessor Tax Roll	Identify current structure information and statistics

National Pipeline Mapping System	Identify current pipeline locations in conjunction to populated areas and previous occurrences
Capital Improvement Plan, City of Lawton	Identify existing projects and funding mechanisms within the City of Lawton
Capital Improvement Plan, Comanche County	Identify existing projects and funding mechanisms

2.5 Continued Public Participation in the Plan

The Planning Committee is committed to involving the public in updating and maintaining the Multi-jurisdictional Multi-Hazard Mitigation Plan. Copies of the plan will be maintained at the Comanche County Courthouse and the Comanche County Website. The Local Emergency Planning Committee, public meeting, will offer public comment annually. This meeting will be advertised to the public using our Comanche County Mass Notification System. This meeting will update residents on the progress that has been made implementing the plan. Input from the public will be solicited as to how the mitigation process can be more effective.

2.6 Plan Monitoring, Evaluating, and Updating

The Comanche County – Lawton Emergency Management Office will be responsible for monitoring, evaluating, and updating all aspects and components of the Hazard Mitigation Plan in accordance with 44 CFR. The plan will be updated and resubmitted through the State Hazard Mitigation officer for review and approval, and to FEMA no later than six months prior to the end of the original performance period.

Monitor

Monitoring the plan, the action plan, and mitigation measures is the responsibility of the Comanche County Emergency Manager. The jurisdictional POC's will assist this effort by being responsible for the implementation of the Action Plan and the Mitigation Measures for their respective jurisdictions. Their progress will be documented to the Comanche County Emergency Manager in an annual progress report. These reports will be provided to the planning committee, and the progress and/or impediments to progress of the mitigation measures will be discussed.

Evaluate

The Comanche County Emergency Manager, in conjunction with the jurisdictional POC's, will review the Hazard Mitigation Plan annually to ensure it sufficiently fulfills mitigation objectives. The evaluation will assess:

- Adequacy of adopted goals and objectives in addressing current and future

- expected conditions.
- Whether the nature and magnitude of the risks have changed.
- To what extent did the outcomes of the Mitigation measures occur as expected.
- Whether agencies, departments and other partners participated as originally anticipated.

Update

The Comanche County Multi-Hazard Mitigation Plan will be updated according to the following schedule.

1. [The Planning Committee](#) - reconvene to discuss plan update two years before plan expiration. The Comanche County Emergency Manager will be responsible for scheduling all Planning Committee Meetings.
2. [Revise and Update](#)- the Comanche County Emergency Manager will incorporate revisions to the plan document identified during the monitoring and evaluation period.
3. [Submit for Review](#)- the revised plan will be submitted to OEM and FEMA for review and approval.

All participating jurisdictions will be asked to provide information regarding any changes to hazards, hazard occurrences, technical capabilities, changes in geographical footprint such as population, political boundaries, or services. These changes should be documented by each jurisdiction as they are occurring to ensure timely incorporation and accurate information. Each jurisdiction will be notified of the review process after the initial Planning Committee meeting in order to help facilitate flow of information and mitigate any delays or omissions. This process is expected to occur within the first several weeks of the initial review and update process.

Chapter 3: Hazard Identification and Risk Assessment

3.1 Introduction:

According to the Federal Emergency Management Agency, a hazard is defined as an event or physical condition that has the potential to cause fatalities, injuries, property damage, infrastructure damage, or agriculture loss, among other types of loss or harm. Hazards are generally defined as one of two categories based on their source: natural hazards and man-made hazards.

The previous Comanche County Hazard Mitigation Plan identified specific hazards such as lightning, high winds, tornadoes, and hail as separate risks. However, recognizing the need for a comprehensive, all-hazards approach and the evolving impacts of climatological change on our region's weather patterns, these individual hazards have been consolidated under the broader risk category of Severe Thunderstorms. This inclusive approach allows for a more holistic assessment of the risks posed by severe weather events and better articulates the climatological influence on the frequency and intensity of such hazards. By addressing Severe Thunderstorms as a unified risk, we can more effectively plan and implement mitigation strategies to protect our community from the diverse array of threats posed by severe weather conditions.

3.2 Disaster History:

History of State of Emergencies and Federally Declared Disasters 2007-2023

Disaster Number	Incident	Incident Date
DR-4721	Severe Storms, Tornadoes, Hail	June 15, 2023
SoE	Wildfire Event	April 6, 2022
SoE	Severe Winter Storm	February 2, 2022
DR-4587	Severe Winter Storm	February 7, 2021
SoE	Severe Winter Storm	December 21, 2020
DR-4575	Ice Storm	October 26, 2020
DR-4530	Covid-19 Pandemic	April 5, 2020
SoE	Severe Storms/Flooding	April 30, 2019
SoE	Severe Winter Storm	December 6, 2018
SoE	Severe Storms/Flooding	July 15, 2016
DR-4222	Severe Storms/Tornadoes/Straight Line Winds	July 15, 2016
FM-2956	Meers/Ferguson Fire	September 1, 2011
FM-2932	Medicine Park Wildfire	June 24, 2011
FM-2890	Goodyear Plant Fire	April 15, 2011
DR-1883	Severe Winter Storm	March 5, 2010
DR-1876	Severe Winter Storm	February 25, 2010

DR-1712	Severe Storms, Flooding, and Tornadoes	June 10, 2007
DR-1723	Severe Storms, Flooding, and Tornadoes	May 24, 2007
DR-1707	Severe Storms, Flooding, and Tornadoes	May 1, 2007
DR-1677	Severe Winter Storm	February 1, 2007

3.3 Hazard Probability Rating:

A Hazard Risk Analysis provides a quantitative process for assessing and evaluating hazards. It promotes a common base for performing the analysis by defining criteria and establishing a rating/scoring system.

Probability Rating	Explanation
High	Indicates a probability of more than 90%. Hazards categorized as high probability are those with a significant likelihood of occurrence, requiring urgent attention and proactive mitigation measures.
Medium	Denotes a probability range between 30% to 90%. Hazards falling within this range pose a moderate level of risk, necessitating preparedness measures and periodic monitoring to address potential impacts.
Low	Encompasses a probability range between 10% to 29%. Hazards classified as low probability have a lesser chance of occurrence but still warrant consideration in emergency planning and risk management efforts.
Very Low	Represents a probability of less than 10%. Hazards categorized as very low probability are unlikely to occur but should not be entirely disregarded, as they may still pose localized or sporadic risks.

Probability can be determined by calculating the:

$$\frac{\text{Total number of events}}{\text{Total number of years}} = \text{Probability \% of event occurring each year}$$

A Hazard Vulnerability Assessment (HVA) was utilized to collect and analyze data provided directly from Comanche County Stakeholders and the Public. This method ascertained the specific hazard, level of preparedness to the hazard, the probability of the hazard occurring within the jurisdiction, and the risk posed by each hazard. This survey provided the cursory identification of hazard. This survey was provided via email to over 200 individuals and agencies, yielding 56 responses.

The following Natural Hazards were identified through this collection process:

COMANCHE COUNTY / LAWTON

HAZARD ASSESSMENT

EVENT	SCORE				VULNERABILITY		
	PROBABILITY		RISK			PREPAREDNESS	
	HIGH	3	HEALTH/SAFETY	4		POOR	4
	MEDIUM	2	HIGH DISRUPTION	3		FAIR	3
LOW	1	MODERATE DISRUPTION	2	GOOD	2		
NONE	0	LOW DISRUPTION	1	EXCELLENT	1		
<i>EXAMPLE</i>	2		2		2		8
Severe Weather (Tornado, etc)	3.24		3.56		2.22		26
Winter Storms	3.27		3		2.36		23
Wildfires	3.33		3.27		2.15		23
Extreme Temperature (hot)	3.53		3.11		2.05		23
Drought	3.58		2.65		2.25		21
Flood	2.76		2.91		2.33		19
Dam Failure	1.44		2.72		2.63		10
Earthquake	1.45		2		2.62		8

The Planning Committee, in consultation with identified Stakeholders utilized a combination of methods to receive information identifying priority hazards. A Hazard Vulnerability Assessment (HVA) and Survey Monkey digital survey platform were used to pinpoint each hazard using historical data and reference points, the level of risk posed to all citizens of Comanche County, and resiliency to and ability to recover from these hazards. This culminated in a comprehensive list of Natural Hazards which created the foundation for the development of Mitigation Projects. Of these identified hazards, a clear priority list was developed based on the probability of these hazards to occur and their impacts.

National Risk Index

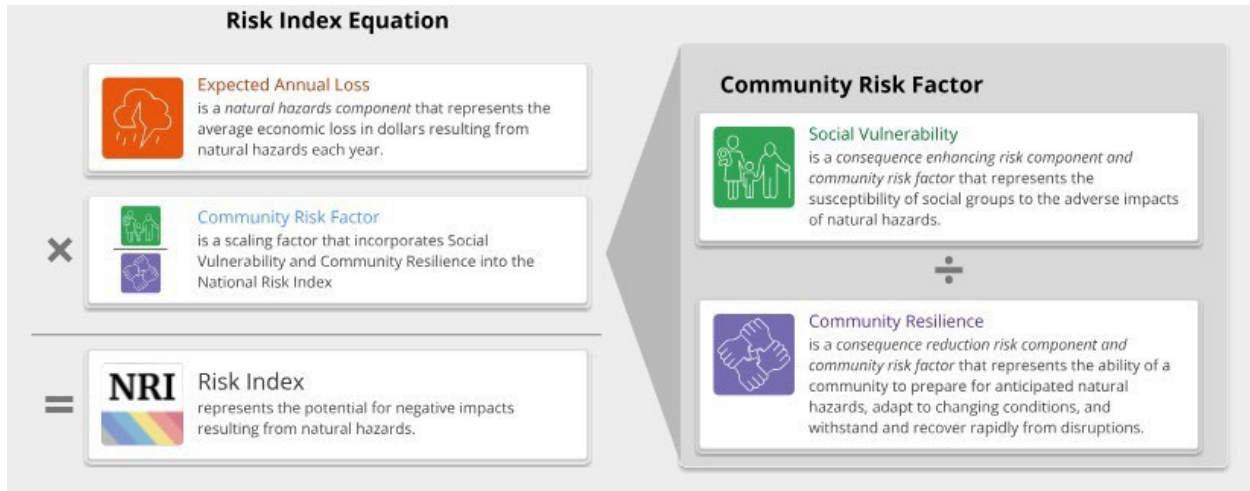
The National Risk Index is a dataset and online tool to help illustrate the United States communities most at risk for 18 Natural hazards. It was designed and built by FEMA in close collaboration with various stakeholders and partners in academia; local, state, and federal government and private industry.

In the National Risk Index, risk is designed as the potential for negative impacts as a result of a natural hazard. The risk equation behind the Risk Index includes three components: a natural hazards component (expected annual loss), a consequence enhancing component (social vulnerability), and a consequence reduction component (community resilience).

The dataset supporting the natural hazards component provides estimates measured in 2022 U.S. dollars. The datasets supporting the consequence enhancing and consequence reduction component have been standardized using a minimum-maximum normalization approach prior to being incorporated into the National Risk Index risk calculation.

Using these three components, composite Risk Index values and hazard type Risk Index values are calculated for each community (county and Census tract) included in the Index.

Risk Index values form an absolute basis for measuring Risk within the National Risk Index, and they are used to generate Risk Index percentiles and ratings across communities.⁸



⁸ <https://hazards.fema.gov/nri/determining-risk>

National Risk Index - Comanche County, Oklahoma

Summary

Risk Index is **Relatively Moderate**

Score **88.5**



Expected Annual Loss is **Relatively Moderate**

Score **87.2**



Social Vulnerability is **Very High**

Score **92.9**



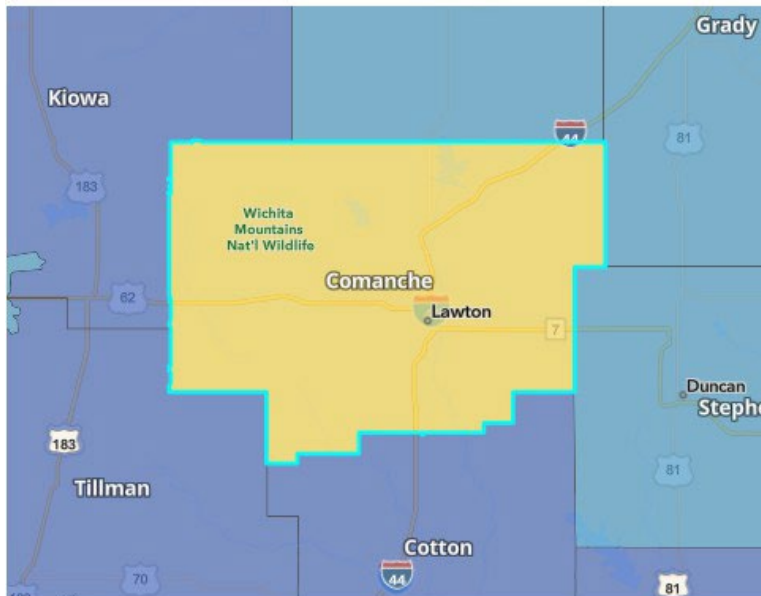
Community Resilience is **Relatively Low**

Score **39.4**



Risk Index

The Risk Index rating is **Relatively Moderate** for **Comanche County, OK** when compared to the rest of the U.S.



Score **88.48**

National Percentile

88.48

Percentile Within Oklahoma

96.10

0 100

88% of U.S. counties have a lower Risk Index

96% of counties in Oklahoma have a lower Risk Index

Risk Index Legend

- Very High
- Relatively High
- Relatively Moderate
- Relatively Low
- Very Low
- No Rating
- Not Applicable
- Insufficient Data

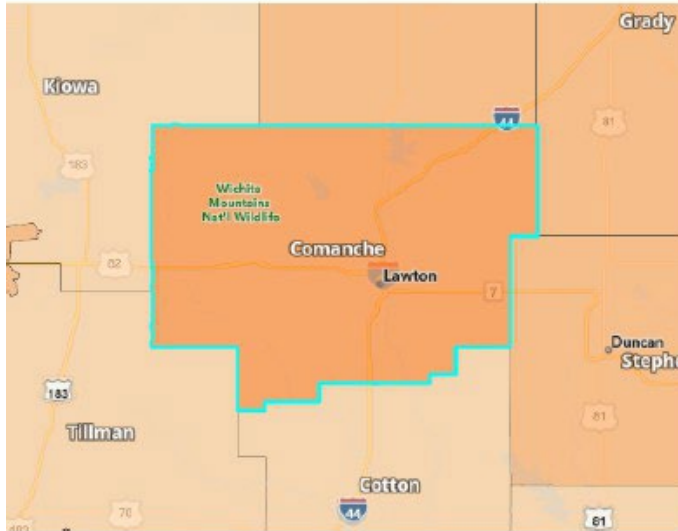
Hazard Type Risk Index

Hazard type Risk Index scores are calculated using data for only a single hazard type, and reflect a community's Expected Annual Loss value, community risk factors, and the adjustment factor used to calculate the risk value.

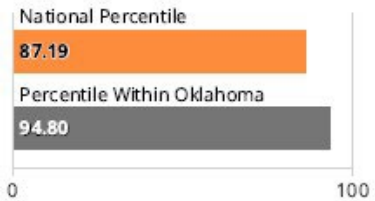
Hazard Type	EAL Value	Social Vulnerability	Community Resilience	CRF	Risk Value	Score
Hail	\$9,885,635	Very High	Relatively Low	1.25	\$12,529,529	99.4
Tornado	\$9,529,280	Very High	Relatively Low	1.25	\$12,033,061	95
Strong Wind	\$2,408,482	Very High	Relatively Low	1.25	\$3,046,502	95.8
Earthquake	\$1,967,466	Very High	Relatively Low	1.25	\$2,550,480	88.5
Wildfire	\$2,082,125	Very High	Relatively Low	1.25	\$2,202,249	91.7
Riverine Flooding	\$1,382,132	Very High	Relatively Low	1.25	\$1,777,600	78.6
Cold Wave	\$1,201,974	Very High	Relatively Low	1.25	\$1,500,850	95.6
Heat Wave	\$582,251	Very High	Relatively Low	1.25	\$732,360	84.8
Winter Weather	\$270,296	Very High	Relatively Low	1.25	\$338,916	87.7
Ice Storm	\$265,824	Very High	Relatively Low	1.25	\$335,007	82.4
Hurricane	\$83,930	Very High	Relatively Low	1.25	\$105,294	42.3
Drought	\$94,038	Very High	Relatively Low	1.25	\$99,838	65.8
Lightning	\$41,358	Very High	Relatively Low	1.25	\$52,281	27.5

Expected Annual Loss

In **Comanche County, OK**, expected loss each year due to natural hazards is **Relatively Moderate** when compared to the rest of the U.S.



Score **87.19**



87% of U.S. counties have a lower Expected Annual Loss

95% of counties in Oklahoma have a lower Expected Annual Loss

Expected Annual Loss Legend

- Very High
- Relatively High
- Relatively Moderate
- Relatively Low
- Very Low
- No Expected Annual Losses
- Not Applicable
- Insufficient Data

Composite Expected Annual Loss **\$29,816,690.41**

Composite Expected Annual Loss Rate National Percentile **69.8**

Building EAL **\$18,700,885.89** Population EAL **0.92 fatalities**

Building EAL Rate **\$1 per \$951.72 of building value** Population EAL Rate **1 per 130.91K people**

Agriculture EAL **\$424,014.60** Population Equivalence EAL **\$10,691,789.93**

Agriculture EAL Rate **\$1 per \$219.11 of agriculture value**

Expected Annual Loss for Hazard Types

Expected Annual Loss scores for hazard types are calculated using data for only a single hazard type, and reflect a community's relative expected annual loss for only that hazard type. **14 of 18** hazard types contribute to the expected annual loss for **Comanche County, OK**.

Hazard Type	Expected Annual Loss Rating	EAL Value	Score
Hail	Relatively High	\$9,885,635	99.3
Tornado	Relatively High	\$9,529,280	94.3
Strong Wind	Relatively High	\$2,408,482	94.7
Wildfire	Relatively Moderate	\$2,082,125	92.2
Earthquake	Relatively Low	\$1,967,466	85.9
Riverine Flooding	Relatively Moderate	\$1,382,132	77.1
Cold Wave	Relatively High	\$1,201,974	95.1
Heat Wave	Relatively Moderate	\$582,252	84.5
Winter Weather	Relatively High	\$270,296	87.1
Ice Storm	Relatively Moderate	\$265,824	80.8
Drought	Relatively Low	\$94,038	67.4
Hurricane	Very Low	\$83,930	40.3
Lightning	Relatively Low	\$41,358	26.4

Annualized Frequency Values

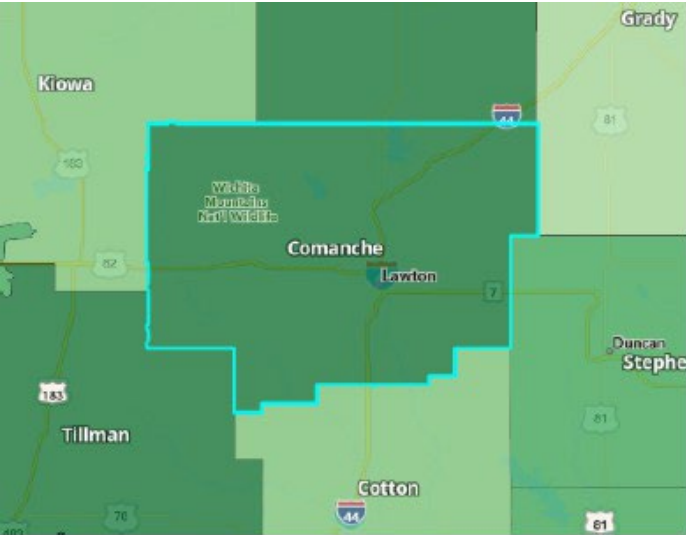
Hazard Type	Annualized Frequency	Events on Record	Period of Record
Avalanche	--	--	--
Coastal Flooding	--	--	--
Cold Wave	0.2 events per year	3	2005-2021 (16 years)
Drought	61.5 events per year	1,687	2000-2021 (22 years)
Earthquake	0.082% chance per year	n/a	2021 dataset
Hail	12.3 events per year	420	1986-2021 (34 years)
Heat Wave	1 event per year	16	2005-2021 (16 years)
Hurricane	0 events per year	0	East 1851-2021 (171 years) / West 1949-2021 (73 years)
Ice Storm	1.2 events per year	82	1946-2014 (67 years)
Landslide	0 events per year	0	2010-2021 (12 years)
Lightning	80 events per year	1,760	1991-2012 (22 years)
Riverine Flooding	1.8 events per year	44	1996-2019 (24 years)
Strong Wind	5.5 events per year	188	1986-2021 (34 years)
Tornado	1.1 events per year	34	1950-2021 (72 years)
Tsunami	--	--	--
Volcanic Activity	--	--	--
Wildfire	0.355% chance per year	n/a	2021 dataset
Winter Weather	2.1 events per year	34	2005-2021 (16 years)

Historic Loss Ratios

Hazard Type	Overall Rating
Avalanche	--
Coastal Flooding	--
Cold Wave	Relatively Low
Drought	Relatively Low
Earthquake	Relatively Moderate
Hail	Relatively Moderate
Heat Wave	Very Low
Hurricane	Very Low
Ice Storm	Very Low
Landslide	Relatively Low
Lightning	Very Low
Riverine Flooding	Very Low
Strong Wind	Relatively Low
Tornado	Relatively Low
Tsunami	--
Volcanic Activity	--
Wildfire	Very Low
Winter Weather	Relatively Low

Social Vulnerability

Social groups in **Comanche County, OK** have a **Very High** susceptibility to the adverse impacts of natural hazards when compared to the rest of the U.S.



Score **92.93**



93% of U.S. counties have a lower Social Vulnerability
1% of counties in Oklahoma have a lower Social Vulnerability

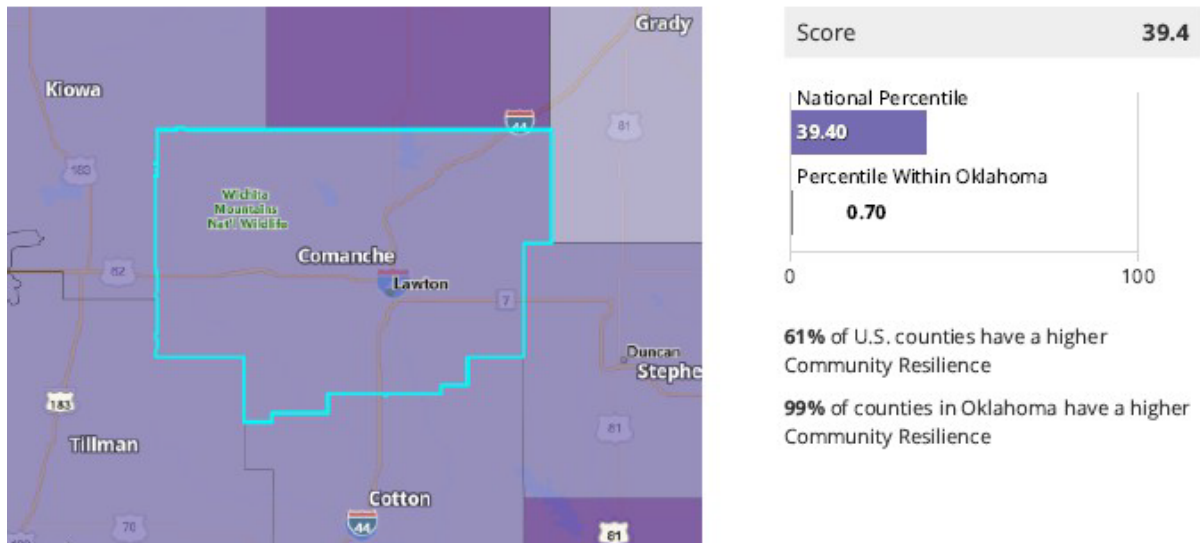
Social Vulnerability Legend

- Very High
- Relatively High
- Relatively Moderate
- Relatively Low
- Very Low
- Data Unavailable

Social vulnerability is the susceptibility of social groups to the adverse impacts of natural hazards, including disproportionate death, injury, loss, or disruption of livelihoods.

Community Resilience

Communities in **Comanche County, OK** have a **Relatively Low** ability to prepare for anticipated natural hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions when compared to the rest of the U.S.



Community resilience is the ability of a community to prepare for anticipated natural hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions.

9

⁹ <https://hazards.fema.gov/nri/report/viewer?dataLOD=Counties&dataIDs=C40031>

3.4 Identifying Hazards

Details of each natural hazard and its impact on the Comanche County Planning Area and participating jurisdictions are given in separate profiles for each hazard. Landslides, sinkholes (subsidence), and expansive soils were also addressed and while some were a potentially low frequency hazard, none were of immediate concern and therefore not included in the plan.

Details of each natural hazard and its impact on the jurisdictions are given in separate profiles for each hazard.

Hazard	How Identified	Identification Rationale
Dam Failure	<ul style="list-style-type: none"> • Review past disaster declarations • OWRB database • Local input • Risk Assessment 	<ul style="list-style-type: none"> • Dam Failure can have a catastrophic impact on communities located in the path of a dam failure. • Dam failure can also create significant economic hardship on communities who are impacted through loss of infrastructure, utilities, and residents.
Drought	<ul style="list-style-type: none"> • Review past disaster declarations • Drought databases (USDN) • Review NCDC database • Input from jurisdictions • Public input • Comanche Co Conservation District 	<ul style="list-style-type: none"> • Economic Impact on agriculture • Frequency of drought occurrences based upon available data • Widespread effects of drought
Earthquake	<ul style="list-style-type: none"> • Review past events • U.S. Geological Society databases • Review NCDC database • Input from Jurisdictions • Public Input 	<ul style="list-style-type: none"> • Damages to public and private sector • Define “Earthquake” in public mind. • The entire county is equally vulnerable to earthquakes.
Extreme Heat	<ul style="list-style-type: none"> • Review past disaster declarations. • Heat databases • Review NCDC database • Input from jurisdictions • Public input 	<ul style="list-style-type: none"> • Prolonged temperatures over 100° Fahrenheit are common in summer months. • Heat affects people, animals, and crops. • Extreme heat affects all participating jurisdictions • Extreme heat can also impact critical utility infrastructure, leading to cascade effects such as rolling brownouts or blackouts.

<p>Flood</p>	<ul style="list-style-type: none"> • Review of FIRMS • Input from county • Risk Assessments • Public input • Review of past disaster declarations • Identification of NFIP repetitive loss properties in the areas • Comanche Co. Conservation District 	<ul style="list-style-type: none"> • The area contains many rivers and streams. • Flash Flooding is common. • There are designated floodplain areas in Cache, Elgin, Faxon, Indianola, Medicine Park, and Sterling. Flooding also affects the unincorporated areas of Comanche County.
<p>Severe Winter Storms</p>	<ul style="list-style-type: none"> • Review past disaster declarations. • Winter storm databases • Review NCDC database • Input from jurisdictions • Public input • Southwest Rural Electric Co-op • Cotton Electric Cooperative • Public Service of Oklahoma • Western Farmers G&T 	<ul style="list-style-type: none"> • People can be stranded in isolated areas. • Damage to public and private sector caused by heavy snow and ice. • Can result in death. • Humans and property are not prepared for extended periods of cold in this area. • Damage to public and private sector caused by freezing lines. • Ice storms recently caused extensive damage to the area. • Many populations were without power for extended periods. • Damages to public and private sector property. • The entire county is affected by Severe Winter Storms • Nearly every year there is at least one inch of snow. On average, every eight years is a storm of ten or more inches (OK Climatological Society).
<p>Severe Thunderstorms (Tornados, Hail, Straight Line Winds, etc.)</p>	<ul style="list-style-type: none"> • Review past disaster declaration. • Tornado databases • National Weather Service data • Review NCDC database • Input from jurisdictions • Public input 	<ul style="list-style-type: none"> • Common to area • Public concern • Past damages • Damages to public and private sector • Tornado affects the entire county. • Hail is a major economic hazard to this agricultural region. • Hail occurs each year. • Hail affects each participating jurisdiction. • Hail occurs, on average, 7 times each year exceeding 1 inch in diameter.
<p>Wildfire</p>	<ul style="list-style-type: none"> • Review past disaster declarations. • Fire databases 	<ul style="list-style-type: none"> • Common to area

	<ul style="list-style-type: none"> • Review NCDC database • Input from jurisdictions and fire chiefs • Public input 	<ul style="list-style-type: none"> • Increased development in areas without fire suppression systems such as hydrants. • Can occur in conjunction with drought and/or lightning. • Damages to public and private sector • Wildfire affects the entire county in varying degrees
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Climatological Considerations and Impacts for all Hazards

Comanche County, situated in southwest Oklahoma, exhibits a semi-arid climate characterized by hot summers, limited precipitation, and occasional severe thunderstorms. Over recent decades, the region has experienced a discernible warming trend, with rising average temperatures and prolonged periods of extreme heat becoming more commonplace. These warming trends have profound implications for the frequency and intensity of natural hazards experienced in the area. Population trends, including urbanization and population growth in Comanche County's population centers such as Lawton and surrounding communities, amplify the vulnerability of residents to the impacts of extreme weather events. Additionally, changes in land use patterns, such as increased urban development and expansion into wildland-urban interface areas, can exacerbate the risks associated with natural hazards, including wildfires and flash floods.

Dam Failure: Rising temperatures and associated climatic changes may indirectly affect dam stability and failure risk in Comanche County. Increased variability in precipitation patterns, coupled with more frequent extreme weather events, can lead to fluctuations in reservoir levels and hydraulic stresses on dam infrastructure. Additionally, changes in land use and development upstream of dams, driven by warming trends, may alter sedimentation rates and reservoir capacity, further influencing dam stability and failure potential.

Drought: Rising temperatures exacerbate drought conditions and extreme heat events in Comanche County, intensifying the associated hazards and impacts. Prolonged periods of hot, dry weather increase evaporative demand, leading to soil moisture depletion and water scarcity. Extreme heat events become more frequent and prolonged, posing significant risks to public health, agriculture, and infrastructure. Additionally, the combination of heat and drought conditions enhances the likelihood of wildfire ignition and spread, amplifying the threat of destructive wildfires across the region.

Extreme Heat: Warming trends in Comanche County have amplified the frequency and intensity of extreme heat events, posing significant risks to public health, infrastructure, and the environment. Rising temperatures exacerbate the urban heat island effect in densely populated areas such as Lawton and surrounding communities, leading to elevated temperatures and increased heat-related health impacts, particularly among vulnerable populations. Additionally, the prolonged duration of extreme heat events can strain energy

resources, heighten the risk of heat-related illnesses, and disrupt critical infrastructure, including transportation and utilities. The escalating frequency and severity of extreme heat underscore the urgency of implementing heat resilience strategies, including public cooling centers, heat emergency preparedness plans, and urban greening initiatives, to protect community well-being and enhance resilience in Comanche County.

Floods: Although less common than droughts, severe rainfall events can lead to flash flooding in low-lying areas of Comanche County. Climatic factors, such as the intensity and duration of rainfall, as well as soil moisture levels, influence the likelihood and severity of flooding events. Urbanization and changes in land use can exacerbate flood risks by increasing runoff and reducing natural drainage pathways.

Severe Thunderstorms: The warming climate has been linked to an increase in atmospheric instability, creating favorable conditions for the development of severe thunderstorms. Elevated temperatures contribute to greater moisture retention in the atmosphere, fueling convective processes and intensifying thunderstorm activity. As a result, Comanche County may experience more frequent and intense severe thunderstorms, accompanied by hazards such as tornadoes, hail, high winds, and lightning.

Severe Winter Storms: While the primary focus is often on warming temperatures, the changing climate can also influence the characteristics of winter storms. Warming trends may lead to alterations in precipitation patterns, resulting in more variable winter weather conditions in Comanche County. Extreme temperature fluctuations can increase the likelihood of rapid freeze-thaw cycles, contributing to the occurrence of severe winter storms characterized by heavy snowfall, freezing rain, and ice accumulation.

Wildfires: Warming trends in Comanche County have contributed to an increased frequency and severity of wildfires in recent years. Rising temperatures and prolonged periods of drought exacerbate fuel dryness, creating favorable conditions for wildfire ignition and spread. The warming climate has led to more extensive periods of hot and dry weather, prolonging the wildfire season and increasing the window of opportunity for fire activity. In addition, the expansion of urban and rural development into wildland-urban interface areas further heightens the risk of wildfire occurrence, placing both residents and natural ecosystems at greater vulnerability to fire events. Proactive measures such as fuel reduction initiatives, wildfire risk assessments, and community outreach efforts are imperative for mitigating the escalating wildfire threat and enhancing resilience in Comanche County.

Earthquake: While not directly influenced by warming trends, seismic activity in Comanche County may be indirectly affected by changes in underground fluid pressures resulting from increased temperatures and altered precipitation patterns. As temperatures rise and precipitation patterns shift, changes in groundwater levels and soil moisture content can potentially impact the stability of fault lines and contribute to induced seismicity. Although seismic events in Comanche County are historically rare, the increasing prevalence of oil and gas extraction activities, including hydraulic fracturing, presents a growing concern for induced earthquakes. Proactive monitoring of seismic activity, coupled with comprehensive regulations on resource extraction practices and land use planning, is essential for mitigating

the risks associated with induced seismicity and ensuring the safety and resilience of communities in Comanche County.

In summary, the climatological conditions prevalent in Comanche County significantly influence the probability and characteristics of various natural hazards, including severe thunderstorms, severe winter storms, drought, and extreme heat. Understanding these climatological considerations is essential for effective hazard preparedness, mitigation, and resilience-building efforts in the region. Furthermore, ongoing monitoring of climate trends and their potential influence on the frequency and intensity of these hazards is crucial for adapting to changing environmental conditions and enhancing overall community resilience.

3.5 Profiled Hazards

3.5.1 Flood

Description

Flooding is the most common and widespread weather hazard in the United States. Most flood dangers and deaths are caused by flash floods. Flash floods usually result from intense storms dropping large amounts of rain within a brief period. The two key elements are rainfall intensity and duration, but topography, soil conditions and ground cover play important roles also. Flash floods occur with little or no warning and can reach peak flow within a few minutes. Water from flash floods moves with great force and velocity and can roll boulders, tear out trees, destroy buildings, and sweep away bridges. These walls of water can reach heights of 10 to 30 feet and generally carry large amounts of debris.

There are three common types of flooding in the Planning Area:

- **Riverine** flooding is usually a gradual process, with several hours to several days of warning time. This type of event usually remains in flood for a longer period than flash or urban flooding, and often causes more damage due to the length of time structures are inundated, the velocity and depth of water, and floating debris. Generally, a river rise of one foot above the SFHA is considered a flood of minor severity, with a major flood being a 500-year event.
- **Flash flooding** in Comanche County is associated with the large convective thunderstorms that frequent the region and can drop between 1 and 5 inches of rain in the space of an hour. When the soil is already saturated, rainfall from such storms can converge in creeks and streams suddenly, with little warning. Although potentially hazardous to life and destructive of property, flash flooding usually lasts only a matter of hours.
- **Urban flooding** occurs when heavy rainfall runs off of structures, parking lots and streets and converges in culverts and drainage ways that are often clogged with debris, causing streets to flood and storm sewers to back up.

Location

The entire planning area is affected by flooding. Several creeks have cut valleys that extend in a north-south direction through the center of Comanche County. Cache Creek and both its East and West Branches, along with Pecan Creek, and Beaver Creek and their respective tributaries are all connected to Lakes Lawtonka and Ellsworth located in the Northern part of the county and when warranted create downstream impacts when the floodgates are opened. The City of Lawton has three major drainage basins that are subject to flooding: East Cache Creek, Numu Creek, and Meadowbrook/Wolf Creek. Typical impacts from flooding in the City of Lawton include inundated homes and roadways, road closures, and water rescues. In May 2015 flooding was substantial in Lawton. Residential flooding is

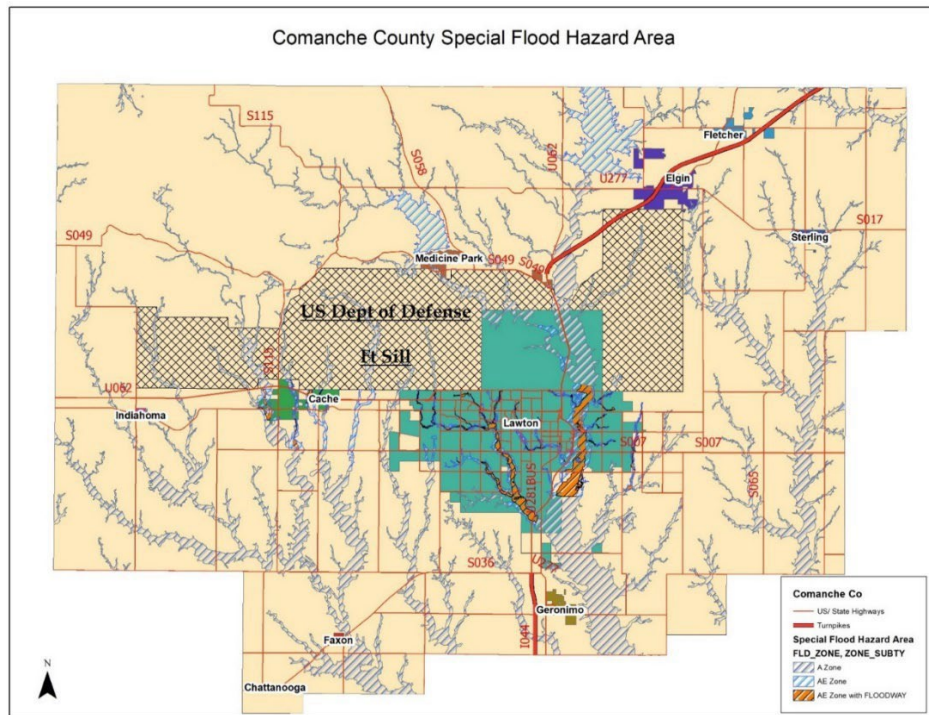
common due to Numu Creek. Homes in the area have historically been inundated with floodwater. Drainage channels experience substantial damage from flood events. The flood inundation to homes and businesses creates a financial burden to the owners and economy. The extent of flooding in the City of Lawton will be determined by the Zone A, 100-year flood hazard areas on the FIRM maps.

The Cities of Cache and Elgin, along with the Town of Medicine Park also experience flash flooding events similar to those of the City of Lawton. However, based upon the significant population differences, the impact to the City of Lawton is disproportionate in relation to the smaller jurisdictions and unincorporated Comanche County.

Climate Change Considerations

Significant precipitation events have caused considerable flood-related damage to the Comanche County Planning Area, including participating jurisdictions. Flash flooding and riverine flooding continue to be the most impactful, especially with alterations to natural floodways through development and the increase in non-draining areas such as parking lots, roadways, and housing developments. In addition, meteorological drivers of river flooding (increased rainfall intensity, decreased soil moisture) are projected to have competing influences. These changes in flood dynamics underscore the importance of proactive floodplain management strategies and infrastructure planning to mitigate the growing risks posed by flooding in the Planning Area.

Comanche County Special Flood Hazard Area Map



City of Lawton Special Flood Hazard Area



Town of Sterling Special Flood Hazard Area



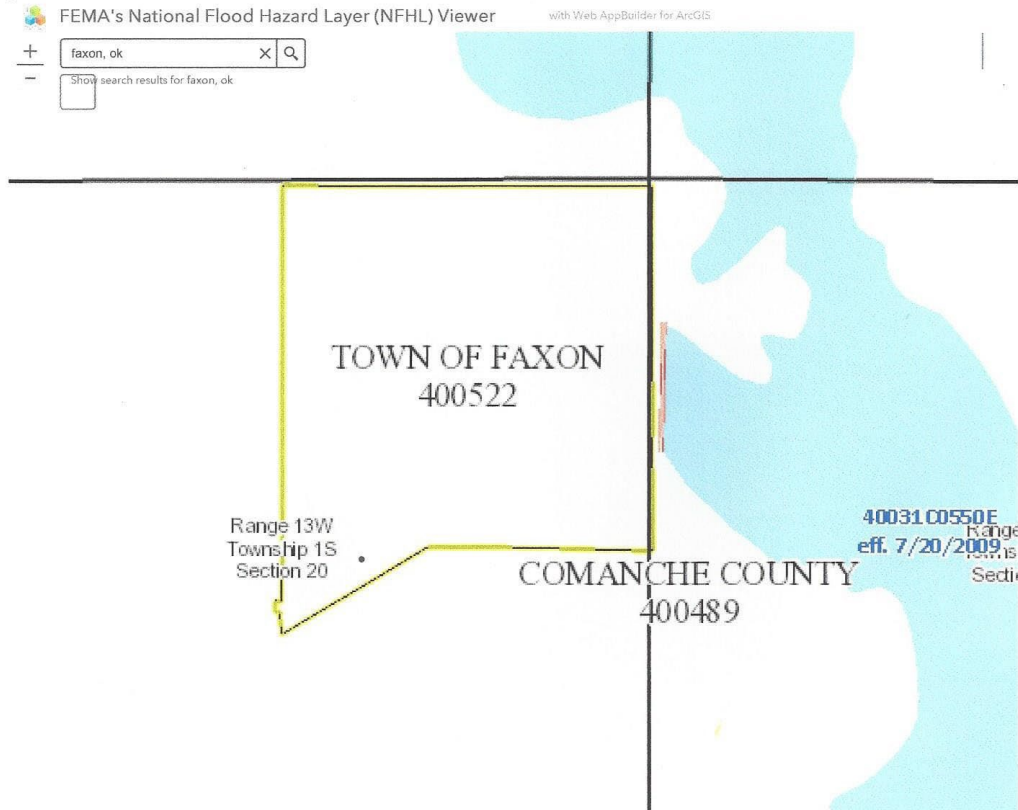
Town of Medicine Park Special Flood Hazard Area



Town of Indiahoma Special Flood Hazard Area



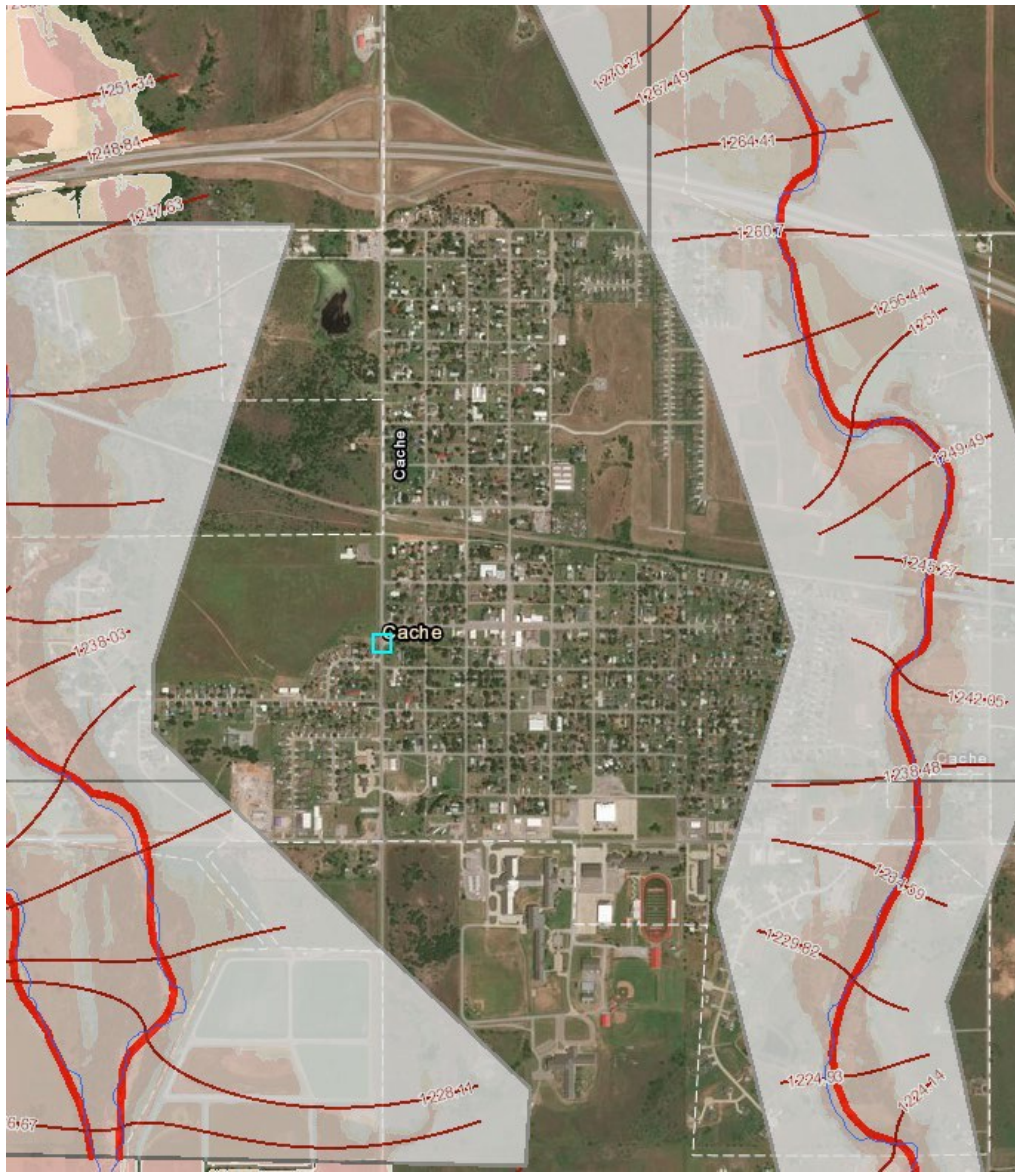
Town of Faxon Special Flood Hazard Area



City of Elgin Special Flood Hazard Area



City of Cache Special Flood Hazard Area



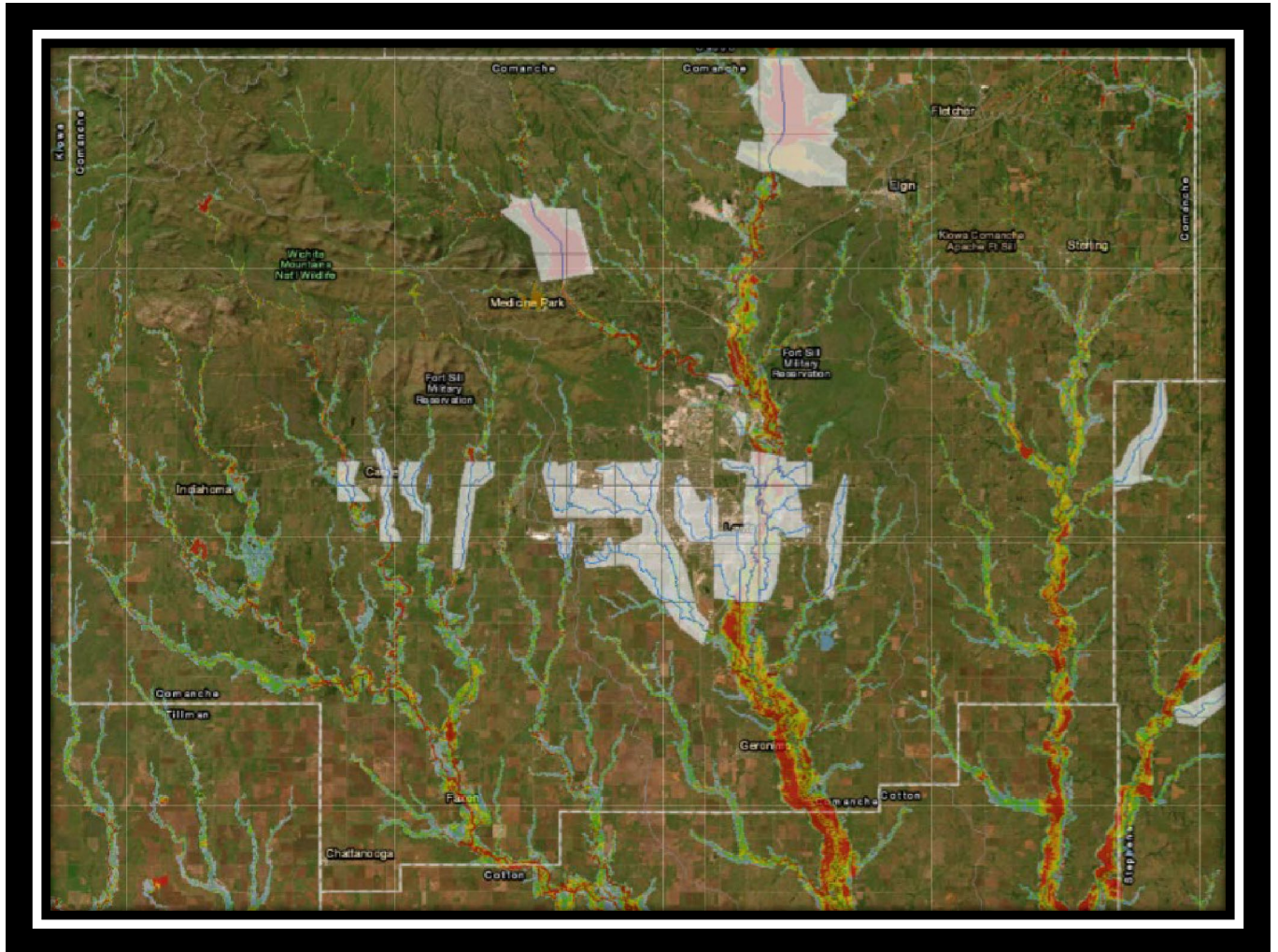
Jurisdiction	In Floodplain (Y/N)	Location of Flood Hazard
Comanche County	Y	Comanche County and its unincorporated communities lie within the Beaver-Cache Watershed and the main flood hazards are located near Cache and Beaver Creeks. Cache Creek affects both the east and west portions of the county as Cache divides into two tributaries. Beaver Creek affects the east-southeast portion of the county.
City of Lawton	Y	Lawton is bracketed by both tributaries of Cache Creek on its east and west sides. Wolf Creek and Numu Creek also bisect Lawton in a north/south direction and during times of increased rainfall or flash flooding, roadways, structures, and infrastructure are greatly affected
Lawton Public Schools	Y	Lawton Public Schools buildings are not in a floodplain, but the bus routes in the south, west, and northeast are in a floodplain. This primarily affects city roads and highways.
City of Cache	Y	Cache's flood risk lies on the east and west sides, with Crater Creek on the east and Wolf Creek to the west. During times of heavy rainfall, travel, roadways, and structures are affected.
Cache Public Schools	Y	Cache Public School District buildings are not in a floodplain, but the bus routes in the south, west, and northeast are in a floodplain. This primarily affects county roads and highways.
Town of Chattanooga	N	Chattanooga has no portion which lies within the floodplain. They receive minimal impact from flash flooding which may impact roadways. The primary impact is access if flooding occurs along Highway 36 to the northeast which may create access issues.
City of Elgin	Y	Elgin's main flood hazard is in the southeast where portions of Beaver Creek cross through their political boundaries. North housing addition lies adjacent to Lake Ellsworth; however, no homes lie within a floodplain.
Town of Faxon	Y	Faxon's main flood hazard is to the east where West Cache creek north across Highway 36 and can affect travel.

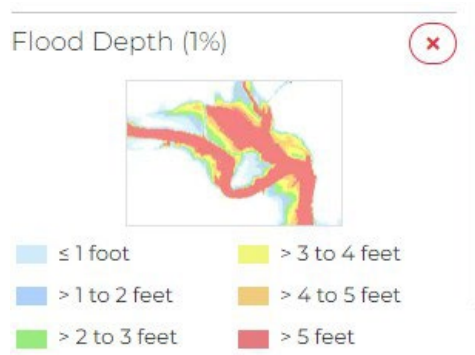
Town of Fletcher	N	Fletcher has no floodplain within city limits. They are minimally affected by flash flooding and water ponding during brief, torrential rainfall.
City of Geronimo	N	Geronimo's main flood hazard lies to the east where East Cache Creek flows north and south. This affects roadways, infrastructure, and operations.
Geronimo Public School	N	Geronimo Public School buildings are not in a floodplain, but the bus routes in the northeast are in a floodplain. This primarily affects county roads and highways.
Town of Indiahoma	Y	Indiahoma's main flood hazard is in the southwest and northeast. Sandy Creek abuts city limits on the southwest side, and Post Oak Creek on the northeast side. They experience minor flash flooding and ponding during periods of torrential rainfall.
Town of Medicine Park	Y	Medicine Creek flows through the center of Medicine Park, and the town lies directly below the Lake Lawtonka Dam and adjacent to the East of Elmer Thomas Lake.
Town of Sterling	Y	Sterling's main flood hazard is along Beaver Creek as it bisects the town east to west.
Sterling Public Schools	N	Sterling Public Schools buildings are not in a floodplain, but the bus routes in the west and east are in a floodplain. This primarily affects county roads and highways.

Extent

Severity of flooding is determined by several factors including rainfall intensity, duration, and location. Flash floods are most dangerous since they can occur suddenly and begin before the rain stops. Even short periods of heavy rainfall can cause flooding throughout the city. The majority of severe flooding in the city is caused by intense rainfall resulting from localized thunderstorms. The effects are generally aggravated in areas where man-made and natural constructions in the floodplain impeded the passage of large flows. The City of Lawton considers a rainfall event of 2" per hour a minimum severity and a rainfall event with more than 2" per hour to be a major severity. Comanche County and the participating jurisdictions agree that they would consider a flood occurring with a two inch an hour rainfall to be a minor hazard, in that street flooding would occur but no serious damage would be incurred. A flood that occurs due to a six inch an hour rainfall would be a major hazard in that structures would be flooding, and water levels would be raised dramatically.

The Planning Area uses Flood Insurance Rate Maps (FIRM) to categorize Floods. FEMA flood zones are geographic areas that have been defined according to varying levels of flood risk. Zone A (A, AE, AH, AO), or the 100-year flood plain, is a Special Flood Hazard Area (SFHA) with a 1% chance of flooding in a given year. Zone B (X), or the 500-year flood plain, is a Special Flood Hazard Area with a 0.2% chance of flooding in a given year. As estimated by Base Level Engineering Analysis, The Planning Area can experience a flood depth of 1-5 feet during a 1% annual chance storm event. See the flood depth map below.





Comments: Depicts estimated water depths above land surface during a 1% annual chance storm event (a storm that has a 1/100 chance of occurring in any calendar year). [Glossary of terms...](#)

Previous Occurrences (2013 – 2023)

Date	Description
4/17/2013	A strong warm front became stationary along the interstate 44 corridor during the early afternoon of the 17th. Through the day, areas south of the warm front and east of a well-defined dryline became very unstable. As a large upper trough shifted into the Southern Plains, scattered thunderstorms developed near the dryline/warm front triple point. As these storms moved eastward into the highly unstable warm sector, they became super cellular. These storms produced all facets of severe weather, including very large hail, damaging straight line winds, and a few brief tornadoes. Training of supercells also led to flash flooding over portions of southwest Oklahoma around the Wichita Mountains Wildlife Refuge. Storms eventually shifted eastward and weakened overnight as a cold front pushed through Oklahoma.
7/26/2013	A small complex of thunderstorms developed near the I-40 corridor in western Oklahoma during the late evening, resulting in a severe wind and hail report near Clinton. Later, a more extensive complex of storms moved southward out of Kansas into the western half of Oklahoma during the early morning hours of the 26th, leading to excessive rainfall and widespread flash flooding.
5/7/2015	Storms developed east of a dryline in the Texas panhandle during the morning hours of May 7th before making their way eastward through southern Oklahoma and merging into a storm complex.
5/8/2015	Another round of storms developed across the Texas panhandle and developed into a line as it moved eastward across southern Oklahoma. Rainfall rates of two inches per hour observed.

5/20/2015	Severe storms developed near a stalled boundary across Oklahoma and the panhandles and moved eastward through the afternoon and evening of the 19th, causing widespread heavy rainfall and additional flooding.
5/23/2015	Storms developed in the panhandles on the 23rd under the influence of an upper-level trough. These storms merged into a line and moved eastward over Oklahoma producing widespread flooding.
5/28/2015	Another round of severe weather moved through Oklahoma on the 28th. Hail up to golf ball size and winds to 70 mph were reported with yet another round of flash flooding rainfall.
7/7/2015	A line of storms (some of them strong) formed along a cold front as it swept down into the southern plains through the evening of the 6th. A few areas received prolonged heavy rain, resulting in flash flooding in parts of northwest Oklahoma. As the front continued southward through Oklahoma, more showers and storms erupted on the 7th, producing more flash flooding. The front then stalled across southeast Oklahoma, where showers and storms (along with flooding) continued into the 8th.
5/8/2016	With the help of an upper low, storms fired along the dryline in western Oklahoma on the 8th, with some of them becoming severe and producing flash flooding.
5/26/2016	Storms formed along the dryline in the panhandles and western Oklahoma during the afternoon and evening hours of the 26th before moving eastward through Oklahoma and western north Texas.
6/12/2016	An area of storms formed overnight early on the 12th, producing flash flooding and a few severe wind gusts. A 94-year-old man was on his way to church when his truck was swept off the road and into a flooding creek. His body was recovered, still in his truck, Monday afternoon. Several vehicles were stranded in high water near Sheridan and B streets. Water was over one foot deep at the intersection of 27th street and G Ave. 11th Street near Numu was closed due to high water. Interstate 44 was closed by high water near Rogers Lane. One-foot-deep water flowed over Mound road and Cache road. SE 60th and Bishop was impassable due to high water. A car was stranded in rushing water one mile east of I-44 on Gore Ave. Several high-water rescues were ongoing.
6/13/2016	A line of storms moved southeast out of Kansas through Oklahoma on the morning of the 13th, producing flash flooding and a few severe wind gusts.
9/24/2016	As a large upper trough moved through and combined with some tropical moisture, abundant rainfall produced flooding across the area on the 24th.
3/28-29/2017	An area of storms formed across Oklahoma and western north Texas in the vicinity of several fronts/boundaries overnight on the 28th into early 29th. Besides severe weather and a tornado, slow moving storms and extensive shower coverage also led to flash flooding.

6/2/2017	An area of thunderstorms formed in the early morning in central Texas, then expanded into southwest Oklahoma early on the 2nd. With high rain rates, these storms produced flash flooding.
6/30/2017	Another line of storms formed along a cold front as it pushed into southern Oklahoma and western north Texas late on the 30th.
8/6/2017	After widespread rain and thunderstorms moved through during the predawn hours and weakened during the day, instability increased during the afternoon and intense thunderstorms developed along a stationary front across southern Oklahoma on the 6th. These storms moved slowly in a very moist environment causing heavy rainfall amounts and localized flooding and flash flooding. One severe wind gust was measured in Carter County, but no damage was reported.
9/27/2017	Moderate to heavy showers persisted for long enough during the morning of the 27th across portions of southwest Oklahoma to cause some localized flooding. One report of flooding was received between Lawton and Cache. The intersection of NW Cache Rd and NW Airport Rd was reported to be flooded and impassible.
9/21/2018	Abundant moisture from the gulf and a remnant tropical system converged with a front coming in from northwest early on the morning of the 21st resulting in widespread heavy rain and numerous reports of flash flooding across central and south-central Oklahoma and western north Texas through the day.
12/26/2018	A strong storm system with unseasonable moisture brought heavy rainfall and high winds to the area.
4/30/2019	A stationary front and an upper wave produced numerous thunderstorms with a variety of severe weather on the 30th.
5/18/2019	The beginning of a very active period, the 18th started with a complex of thunderstorms that grew upscale producing wind and tornadoes in the morning and then finished with isolated supercells producing large hail across northern Oklahoma.
5/28/2019	Storms developed ahead of a dryline and produced large hail and damaging wind gusts on the 28th. Flash flooding causing about one foot of water in some city streets.
5/15/2020	An outflow boundary and a dryline both led to numerous thunderstorms developing during the afternoon and evening of the 15th, with hail, wind, and a brief tornado reported.
6/19/2020	A broken line of thunderstorms led to a few severe wind gusts and isolated flooding across portions of southern Oklahoma on the 19th.
6/21/2020	Scattered thunderstorms developed during the early morning hours of the 21st leading to numerous severe reports, along with isolated reports of flooding.
4/28/2021	Storms continued into the 28th as a slow-moving trough approached. Early morning convection produced numerous flood reports. Later in the day, renewed storm development led to an isolated supercell which tracked across southern portions of the OKC metro area with 2-3 diameter hail and damaging winds. Extensive damage was

	reported with this storm, with the most significant damage concentrated in Norman. In Cleveland County, the hail and wind caused over 2 million dollars in damage just to county-owned buildings. While exact numbers for private homes, businesses and vehicles are not available, damage estimates are easily into the hundreds of millions of dollars.
6/27/2021	A very moist airmass and slow-moving storms led to a multi-day heavy rainfall event for much of the area. 6 to 8+ inches fell in a swath from southwest OK northeast along the I-44 corridor. Several storms also produced isolated severe weather with hail and strong winds reported.
9/28/2021	A dryline lead to numerous thunderstorm formation across portions of western and northern Texas and southwest Oklahoma. A few severe and hail and wind reports, along with reports of flooding, were received in and near Lawton, OK during the early evening on the 28th.
7/10/2022	A line of thunderstorms originating across eastern Kansas built southwestward into northern and central Oklahoma during the evening of the 10th, leading to numerous severe wind, hail and flood reports.
8/29/2022	With the trough lingering over the area, thunderstorms developed once again during the afternoon with wind and hail reported. Heavy rainfall also led to flooding in some areas.
12/13/2022	Storms moved through Oklahoma late in the evening of December 12th and into the early morning hours of the 13th, producing isolated severe weather including a few tornadoes.
6/15/2023	The approach of an anomalously strong (for mid-June) upper-level disturbance lead to a widespread severe weather outbreak across portions of the forecast area, especially along and west of the I-35 corridor, during the afternoon into late evening of the 15th. This included the development of numerous supercell thunderstorms across the area. Despite relatively high cloud bases, strong low-level instability and sufficient low-level wind shear aided tornadic outcomes, with eleven tornadoes confirmed across western into southern Oklahoma. Numerous reports of large to very large hail, including reports of 4-inch hail in Lawton, and wind damage were received across area.

Probability

The probability of a flood event occurring is rated as “High.”

Vulnerability and Impact

Flooding is a destructive force in the Planning Area, where it occurs as riverine, urban, or flash. Flood water can inundate homes, businesses, and roads. Both the forces of the floodwaters and simple inundation can cause severe damage to buildings and wash away roads. While inundated, roads are dangerous and often impassible, causing additional hardships to citizens and school districts. Development within flood-prone zones, such as the 100-year floodplain, coupled with inadequate drainage runoff infrastructure, heightens the potential for property damage and endangers residents' well-being. Insufficient

drainage systems exacerbate the risks associated with flooding, posing threats to public safety and property integrity.

Jurisdiction	Vulnerability	Impact
Comanche County	Comanche County and its unincorporated communities lie within the Beaver-Cache Watershed and the main flood hazards are located near Cache and Beaver Creeks. Cache Creek affects both the east and west portions of the county as Cache divides into two tributaries. Beaver Creek affects the east-southeast portion of the county.	Comanche County has a large transient and commuter population which travels along State Highway (SH) 7, SH-62, and Interstate-44. This type of flooding impedes commuting traffic, causes delays, and creates potentially dangerous areas for either pedestrians or traffic. This also can have a negative economic impact for businesses and industry located in Comanche County such as ranching and farming.
City of Lawton	Lawton is bracketed by both tributaries of Cache Creek on its east and west sides. Wolf Creek and Numu Creek also bisect Lawton in a north/south direction. The location of these creeks can essentially “cut” the city in half, preventing travel from the east to the west side. Significant low-lying areas and poor drainage can also create dangerous conditions for travel, leading to high water and swift water rescue operations by public safety agencies.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles. This also increases the number of ‘repetitive loss’ structures located within City Limits.
Lawton Public Schools	Lawton Public Schools buildings are not in a floodplain, but the bus routes in the south, west, and northeast are in a floodplain. This primarily affects city roads and highways.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.
City of Cache	Cache’s flood risk lies on the east and west sides, with Crater Creek on the east and Wolf Creek to the west. This can effectively cut Cache off from critical services not provided within the city.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles. This also leaves Cache vulnerable to lack of emergency medical care

		as the nearest Trauma Center is located in Lawton.
Cache Public Schools	Crater Creek and Wolf Creek can create a barrier between Cache and its neighboring communities by affecting travel.	This can cause a disruption of transportation by hindering commutes and school bus access.
Town of Chattanooga	Chattanooga has no portion which lies within the floodplain. West Cache Creek lies to the East of Chattanooga and would create some travel disruption; however, this would not impact westward travel.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.
City of Elgin	Elgin's main flood hazard is in the southeast where portions of Beaver Creek cross through their political boundaries. North housing addition lies adjacent to Lake Ellsworth; however, no homes lie within a floodplain.	Travel along I-44 would be significantly impeded by dangerous conditions due to flooding. This would also create public safety concern due to inability to receive support from external resources.
Town of Faxon	Faxon's main flood hazard is to the east where West Cache creek north across Highway 36. Travel to the west would still be available.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.
Town of Fletcher	Fletcher has no floodplain within city limits, nor are there any significant creeks or waterways near any major roadways to create impediments. Fletcher is most vulnerable through the impact to surrounding towns and cities, through access routes becoming impassable.	Fletcher is minimally affected by flash flooding and water ponding during brief, torrential rainfall. This can impact transportation routes, even if only temporarily. Significant flooding of neighboring towns could cause disruption to citizens and town infrastructure.
City of Geronimo	East Cache Creek is located east of Geronimo. This creates transportation and service issues and creates impassable roads.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.
Geronimo Public School	East Cache Creek is located east of Geronimo. This creates transportation and service issues and creates impassable roads.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.
Town of Indianahoma	Sandy Creek abuts city limits on the southwest side, and Post Oak Creek on the northeast side.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.

Town of Medicine Park	Medicine Creek flows through the center of Medicine Park, and the town lies directly below the Lake Lawtonka Dam and adjacent to the East of Elmer Thomas Lake. The downtown portion of Medicine Park is bisected directly by Medicine Creek and contains multiple businesses, recreation, and residential structures.	The proximity to these waterways could have a significant impact on economy, transportation, critical infrastructure, and public safety.
Town of Sterling	Beaver Creek bisects the town in a north/south direction, and a lack of drainage within the town creates ponding and short-term urban flooding.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.
Sterling Public Schools	Beaver Creek bisects the town in a north/south direction, and a lack of drainage within the town creates ponding and short-term urban flooding.	This can cause a disruption of transportation by hindering commutes, school bus routes, and emergency vehicles.

3.5.2 Wildfire

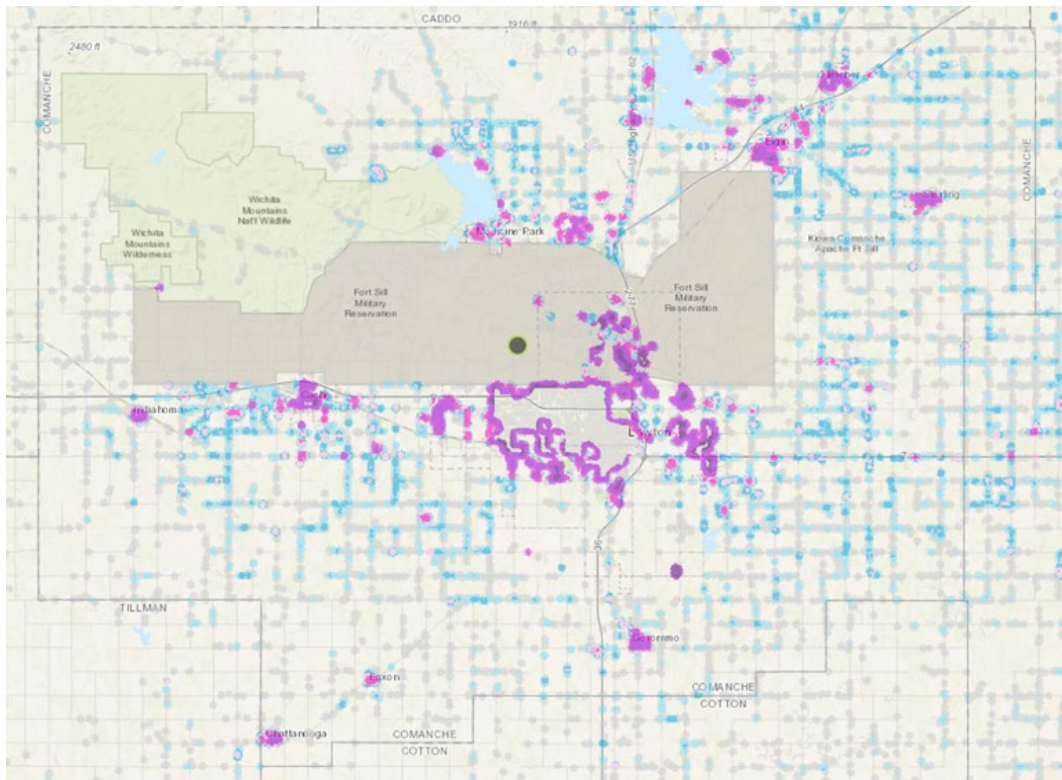
Description

Wildfire is an uncontrolled fire in a rural or wilderness area. Dry vegetation, low levels of precipitation, and high winds create the condition for wildfire to begin unnoticed. However, they can quickly spread to an uncontrollable level if unnoticed for very long. The winds cause the fire to spread quickly, igniting brush, trees, and structures. Wildfire can move on three different levels. A surface fire is the most common type and burns along the surface of grasslands or areas with open vegetation, usually moving quickly through an area. A ground fire is a dense, very hot fire that has a thick fuel source and significantly damages the soil health where it occurs. A crown fire spreads rapidly by wind and moves by jumping along the top of the trees.

Location

The entire Planning Area is affected by Wildfire

Comanche County Wildland-Urban Interface Map



[SGSF WRAP - Public Viewer \(southernwildfirerisk.com\)](https://southernwildfirerisk.com)

Extent

The Planning Area uses the Keetch-Bryan Drought Index with Fire Danger Rating Data Incorporated to categorize Wildfire Extent. The Planning Area can experience any rating value on these charts.¹⁰

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

Fire Danger Rating System		
Rating	Basic Description	Detailed Description
CLASS 1: Low Danger (L) COLOR CODE: Green	fires not easily started	Fuels do not ignite readily from small firebrands. Fires in open or cured grassland may burn freely a few hours after rain, but wood fires spread slowly by creeping or smoldering and burn in irregular fingers. There is little danger of spotting.
CLASS 2: Moderate Danger (M) COLOR CODE: Blue	fires start easily and spread at a moderate rate	Fires can start from most accidental causes. Fires in open cured grassland will burn briskly and spread rapidly on windy days. Woods fires spread slowly to moderately fast. The average fire is of moderate intensity, although heavy concentrations of fuel – especially draped fuel -- may burn hot. Short-distance spotting may occur but is not persistent. Fires are not likely to become serious and control is relatively easy.
CLASS 3: High Danger (H) COLOR CODE: Yellow	fires start easily and spread at a rapid rate	All fine dead fuels ignite readily, and fires start easily from most causes. Unattended brush and campfires are likely to escape. Fires spread rapidly and short-distance spotting is common. High intensity burning may develop on slopes or in concentrations of fine fuel. Fires may become serious and their control difficult, unless they are hit hard and fast while small.
CLASS 4: Very High Danger (VH) COLOR CODE: Orange	fires start very easily and spread at a very fast rate	Fires start easily from all causes and immediately after ignition, spread rapidly and increase quickly in intensity. Spot fires are a constant danger. Fires burning in light fuels may quickly develop high-intensity characteristics - such as long-distance spotting - and fire whirlwinds when they burn into heavier fuels. Direct attack at the head of such fires is rarely possible after they have been burning more than a few minutes.
CLASS 5: Extreme (E) COLOR CODE: Red	fire situation is explosive and can result in extensive property damage	Fires under extreme conditions start quickly, spread furiously, and burn intensely. All fires are potentially serious. Development into high intensity burning will usually be faster and occur from smaller fires than in the Very High Danger class (4). Direct attack is rarely possible and may be dangerous, except immediately after ignition. Fires that develop headway in heavy slash or in conifer stands may be unmanageable while the extreme burning condition lasts. Under these conditions, the only effective and safe control action is on the flanks, until the weather changes or the fuel supply lessens.

¹⁰ Source: <http://www.wfas.net/content/view/34/51/>

Climatological Influence on Wildfire Hazards

The region's semi-arid climate, characterized by hot summers, limited precipitation, and periodic droughts, is projected to intensify due to climate change, resulting in drier and warmer conditions conducive to wildfire ignition and spread. The diverse ecological composition, encompassing grasslands, shrublands, and forested areas, coupled with the proliferation of invasive species like eastern red cedar, increases fuel loads and wildfire potential. Frequent wind events during spring months, coupled with low humidity levels, exacerbate fire conditions, facilitating rapid spread across wildland-urban interfaces. Projections suggest heightened wildfire frequency and severity, necessitating proactive mitigation strategies such as fuel reduction measures, land management practices, and community engagement to enhance resilience and mitigate the ecological and societal impacts of future wildfires in Comanche County. The increasing frequency and severity of wildfires underscores the urgency of implementing comprehensive wildfire prevention and management strategies to safeguard lives, property, and ecosystems in the Planning Area.

Previous Occurrences 2011-2023

4/15-19/2011	Goodyear Fire (FM2890): 04/15/2011 - 04/19/2011. 15 structures damaged &/or destroyed hundreds of acres burned.
7/2011	Medicine Park Fire (FM2932): burned 1,500 acres, 13 homes destroyed &/or damaged, 1,500 residents evacuated.
9/1-9/10/2011	Ferguson Fire (FM-2956): Burned 40,000 acres, 34 homes destroyed &/or sustained major damage.
12/10-13/2021	A strong storm system with a tight pressure gradient led to high winds across much of western Oklahoma and western north Texas. Several fires were reported during the afternoon of the 10th, with numerous structures burned. Named the Coombs fire, this fire burned roughly 1464 acres and destroyed at least 19 structures, including 5 homes and 14 barns. Nine vehicles were also reported destroyed.
12/28-29/2021	Sterling Fire: burned 900 acres, 30 residents evacuated, one injury.
1/14/2022	Comanche County January Wildfire Outbreak: 250 acres burned; 400 residents evacuated.
3/20/2022	Lasso Loop Fire: 190 acres burned, 4 structures destroyed &/or damaged, 250 residents evacuated, one injury.
3/20/2022	King Road Fire: 190 acres burned, one fatality.
7/28-8/3/2022	115-Meers Fire: 7542 acres burned; 85 residents evacuated.

Probability of Future Events

The probability of wildfire is High.

Vulnerability and Impact

Wildfire risk continues to be influenced by changes in population, climate, and the ever-changing wildland urban interface, especially as trending warmer surface temperatures and drought-like conditions continue to be more frequent. Wildfires are most threatening during times of drought accompanied by extreme heat and high winds, but wildfires can occur any time of the year. Wildfire can cause loss of life, homes and business, and result in devastating economic impacts to individual homeowners, ranchers and farmers, and communities.

Development of residential or commercial infrastructure within wildfire-prone regions, such as those identified in the Wildland-Urban Interface (WUI) index, without adequate defensible space, proper building materials, water storage, or evacuation plans can significantly heighten risks to life and property.

Jurisdiction	Vulnerability	Impact
Comanche County	<p>Comanche County is populated with a combination of both farmers and ranchers and rural urbanized housing developments. A lack of a planning and zoning process for rural development creates continued stress on Volunteer fire departments as there is no public safety infrastructure being required with multi-home developments.</p> <p>Comanche County is wide mix of grass/shrub, tall grass prairie, and Red Cedar/Timber mix. This diversity in fuel types can lead to any number of quick igniting fires which can quickly grow out of control.</p>	<p>Comanche County has shown vulnerability to widespread, sweeping wildfire events which can damage or destroy structures, vehicles, and cause injury or death. These can negatively affect both the economy and population of these areas, as well as disrupt the farming and ranching operations.</p> <p>Climate impacts exacerbate wildfire risks with increasing frequency of drought-like conditions, and higher surface temperatures.</p>
City of Lawton	<p>Lawton has significant wildland urban interface areas on all four sides of its boundaries. Continued house development adjacent to open fields with grass/shrub vegetation and timber mix, along with the ratio of house to acre along these interface areas creates significant risk to wildfire under the perfect weather conditions.</p>	<p>Lawton maintains the only ISO 1 rated, full time municipal fire department in Comanche County; however, they are dependent upon mutual aid from contiguous volunteer departments and Ft. Sill Fire Department to assist with large scale wildland firefighting.</p>

Lawton Public Schools	Lawton Public Schools by default have the same risk as City of Lawton as their buildings lie within the political boundaries.	Most of the buildings are well inside city limits and do not lie within the periphery and would be less impacted by wildfire. Secondary impacts would be loss of utilities and economic loss.
City of Cache	The City of Cache is surrounded by open fields and undeveloped acreage with trees and vegetation which makes them more vulnerable to Wildfire. A wildfire in or around Cache could require mandatory evacuations and cause damage to property and the City's infrastructure.	This could result in a significant loss to the Towns ability to operate at normal levels. It would also impact businesses that supply goods and services. There would significantly impact the residents of the town, leading to loss of property and potential loss of life or injury.
Cache Public Schools	Cache Public Schools are surrounded by dried grass fields to the south and trees and overgrown vegetation to the east. The school only has 1 main access road in and out.	If a wildfire were to happen and cut off transportation route, it could make evacuation very difficult.
Town of Chattanooga	The Town of Chattanooga has a volunteer fire department. Volunteer Firefighters have varying response times due to having primary occupations. They do not have a full-time staff to immediately respond during a wildfire.	Not having a full-time fire department staff means that response times are severely impacted during times of wildfire events. This can result in residents being unable to obtain emergency services in a timely manner. Also places extra strain on the responding fire departments needing to respond to fires outside their main jurisdictions
City of Elgin	Elgin has significant wildland urban interface along all sides of its political boundaries with open fields to the east and north, and the abutment of the Ft. Sill East Artillery Range directly to the west/southwest. Elgin is also served by a part-time/volunteer hybrid Fire Department.	Oftentimes range fires will initiate on Ft. Sill and spread north-northeast into heavily populated areas of both urbanized development and rural development. Not having a full-time fire department staff means that response times are severely impacted during times of wildfire events. This can result in residents being unable to obtain

		emergency services in a timely manner.
Town of Faxon	The Town of Faxon is surrounded by open fields and undeveloped acreage with trees and vegetation which makes them more vulnerable to Wildfire. Faxon relies on Chattanooga Volunteer Fire Department for fire protection.	Not having a full-time fire department staff means that response times are severely impacted during times of wildfire events. This can result in residents being unable to obtain emergency services in a timely manner. Also places extra strain on the responding fire departments needing to respond to fires outside their main jurisdictions.
Town of Fletcher	Fletcher has wildland urban interface along all sides of its political boundaries with open fields to the north and the east. Fletcher is also served by a volunteer fire department.	Oftentimes range fires will initiate on Ft. Sill and spread north-northeast into heavily populated areas of both urbanized development and rural development. Not having a full-time fire department staff means that response times are severely impacted during times of wildfire events. This can result in residents being unable to obtain emergency services in a timely manner.
City of Geronimo	Geronimo has above-ground utility lines. These lines are vulnerable to the effects of wildfire. Poles are easily destroyed by fire causing lines to fall, disrupting power and/or connectivity.	Utility disruption will impact homes and businesses with loss of power and/or connectivity. Temporary loss of business and therefore financial loss.
Geronimo Public School	The Geronimo Public School complex is surrounded by fields on all sides and is at risk of impact by a fast-moving wildfire. There is one roadway which provides access to the complex.	If a wildfire were to happen and cut off transportation route, it could make evacuation very difficult.
Town of Indiahoma	The Town of Indiahoma is surrounded by open fields and undeveloped acreage with trees and vegetation which makes them more vulnerable to Wildfire. They are also served by a volunteer fire department which can slow or delay adequate response.	Not having a full-time fire department staff means that response times are severely impacted during times of wildfire events. This can result in residents being unable to obtain

		emergency services in a timely manner.
Town of Medicine Park	Medicine Park lies just to the north of a range of Ft. Sill Artillery Ranges and has significant wildland urban interface development. Medicine Park previously experienced a significant wildfire in 2011, which resulted in an FMAG declaration.	Medicine Park is served by a volunteer department, and has seen an increase in housing development, especially in the rocky, mountainous areas to the southeast. These areas create extremely hazardous areas for both firefighting and resident evacuation as roads are narrow and not conducive to the effective movement of a large number of people and vehicles.
Town of Sterling	The Town of Sterling is surrounded by open fields and undeveloped acreage with trees and vegetation which makes them more vulnerable to Wildfire. They are also served by a volunteer fire department which can slow or delay adequate response.	Not having a full-time fire department staff means that response times are severely impacted during times of wildfire events. This can result in residents being unable to obtain emergency services in a timely manner.
Sterling Public Schools	The Sterling Public School complex is surrounded by housing developments and large fields to the south, east, and west.	If a wildfire were to happen and cut off transportation route, it could make evacuation very difficult.

3.5.3 Severe Winter Storm

Description

Severe Winter Storms can be incredibly difficult to predict since they usually involve any combination of precipitation, including snow, sleet, and freezing rain. A severe winter storm can range from freezing rain or sleet to moderate snow over a few hours, or it might develop into blizzard conditions and extremely cold temperatures that last several days. The effects of the winter storm can also widely vary depending on the ground temperatures and atmospheric conditions. Wind-driven, or blowing, snow reduces visibility and causes significant drifting.

Blowing snow can develop into a blizzard, which occurs when falling and blowing snow combine with winds of 35 mph or greater, reducing visibility to near zero.

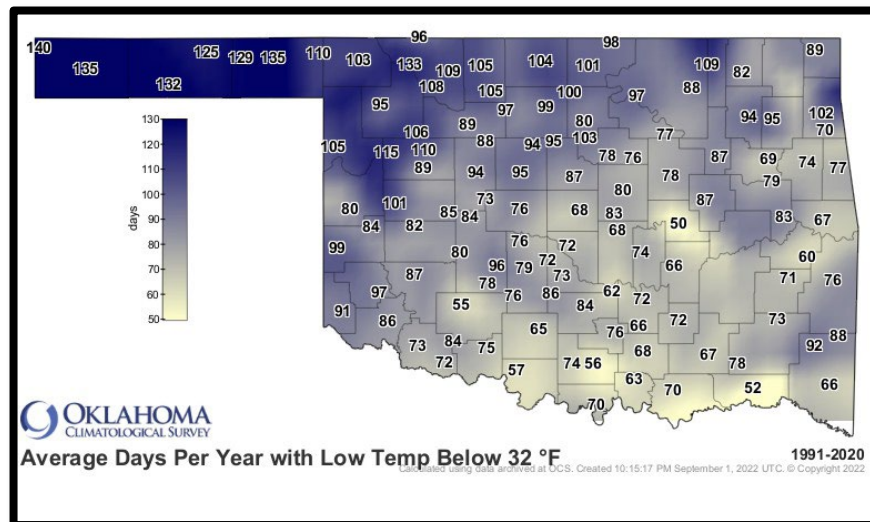
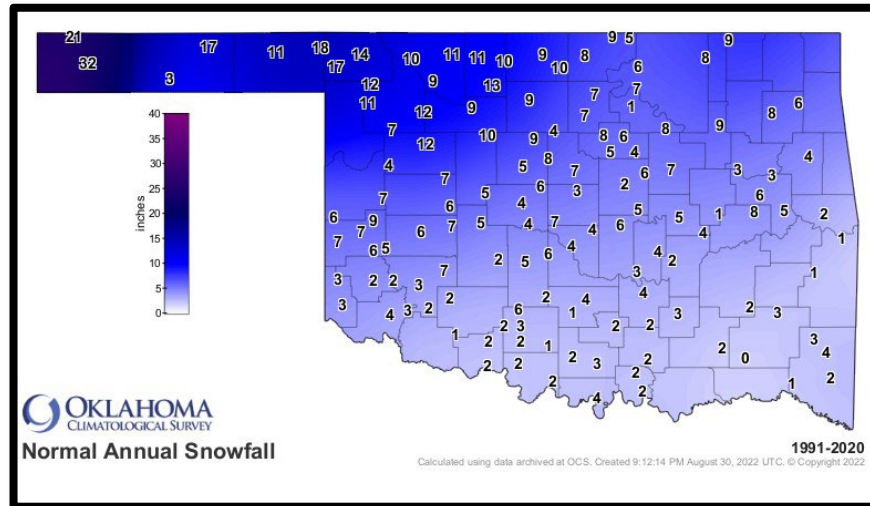
Sleet is frozen precipitation that melts as it falls through a warm layer of the atmosphere and then refreezes into ice pellets before reaching the ground. Sleet usually bounces when hitting the surface and can accumulate like snow and become a hazard to motorists. Freezing rain falls as liquid and is frozen by a layer of freezing air near the surface. When the precipitation makes contact with the surface; it forms into a coating or glaze of ice and even small accumulations can cause a significant hazard. Freezing rain can accumulate on tree branches and utility wires; if high winds develop, that can cause the wires to “gallop” and potentially cause breakage of the wires, connectors, and poles. This results in widespread power failure. Other winter hazards include wind chill and extreme cold. Wind chill describes the relative discomfort and danger to people from the combination of cold temperatures and wind.

Location

Oklahoma experiences the periodic collision of warm, moist gulf air and arctic air from the Canadian Shield. Because of this climatic positioning, Comanche County experiences winter weather ranging from occasional sub-zero temperatures, snow and freezing rain to mild, spring-like days. The entire Planning Area is affected by Severe Winter Storms.

Extent

The Planning Area uses the Sperry-Piltz Ice Accumulation Index for ice damage. The Planning Area uses the National Weather Service's Winter Storm Severity Index (WSSI) for cumulative impacts involving a combination of winter factors and precipitation. The Planning Area can experience any of the hazards defined in the following figures:



The severity of snowfall can vary widely, ranging from light flurries to heavy snowstorms with significant accumulation. Snow severity is determined by factors such as snowfall rate, total accumulation, and associated impacts on transportation, infrastructure, and public safety. The Planning Area can experience depth of snowfall ranging from less than 1 inch in depth to 7 inches in depth. The higher amounts of snow are typically found in the Meers area of Comanche County, located north of the Wichita Mountains Wildlife Refuge in higher elevation.

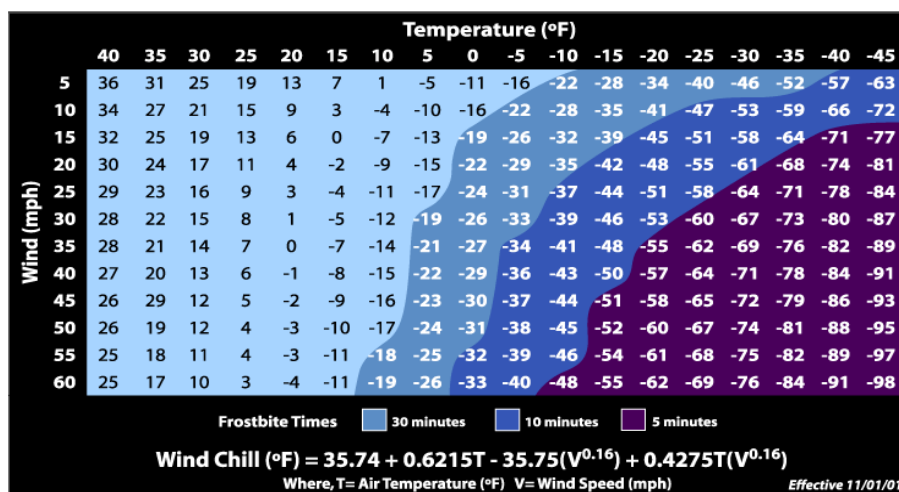
Potential Winter Storm Impacts	
	Winter Weather Area Expect Winter Weather. • Winter driving conditions. Drive carefully.
	Minor Impacts Expect a few inconveniences to daily life. • Winter driving conditions. Use caution while driving.
	Moderate Impacts Expect disruptions to daily life. • Hazardous driving conditions. Use extra caution while driving. • Closures and disruptions to infrastructure may occur.
	Major Impacts Expect considerable disruptions to daily life. • Dangerous or impossible driving conditions. Avoid travel if possible. • Widespread closures and disruptions to infrastructure may occur.
	Extreme Impacts Expect substantial disruptions to daily life. • Extremely dangerous or impossible driving conditions. Travel is not advised. • Extensive and widespread closures and disruptions to infrastructure may occur. • Life-saving actions may be needed.

WSSI Descriptor	General Description of Expected Storm Severity Impacts
None	No snow or ice forecast. No potential for ground blizzard conditions
Limited	Small accumulations of snow or ice forecast. Minimal impacts, if any expected. In general, society goes about their normal routine.
Minor	Roughly equated to NWS Advisory Level criteria. Minor disruptions, primarily to those who were not prepared. None to minimal recovery time needed
Moderate	Roughly equated to a NWS Warning Level criteria. Definite Impacts to those with little preparation. Perhaps a day or two of recovery time for snow and/or ice accumulation events.
Major	Significant impacts, even with preparation. Typically several days recovery time for snow and/or ice accumulation events.
Extreme	Historic. Widespread severe impacts. Many days to at least a week of recovery needed for snow and/or ice accumulation events.

Wind chill is also a dangerous component of winter weather events. Wind chill is the combination of wind and temperature that serves as an estimate of how cold it feels to exposed human skin. Wind chill values of below -19° Fahrenheit are considered extremely dangerous to the population of Comanche County, although hypothermia can still occur at higher temperatures and cause deaths. The Planning Area typically experiences windchill factors in the 30 minute/frostbite range.



Wind Chill Chart



The Sperry-Piltz Ice Accumulation Index or SPIA Index is ice accumulation and ice damage prediction index which uses an algorithm of researched parameters that, when combined with the National Weather Service forecast data, predicts the projected footprint, total ice accumulation, and resulting potential damage from approaching ice storms.

The Sperry-Piltz Ice Accumulation Index, or “SPIA Index” – Copyright, February, 2009

ICE DAMAGE INDEX	DAMAGE AND IMPACT DESCRIPTIONS
0	Minimal risk of damage to exposed utility systems; no alerts or advisories needed for crews, few outages.
1	Some isolated or localized utility interruptions are possible, typically lasting only a few hours. Roads and bridges may become slick and hazardous.
2	Scattered utility interruptions expected, typically lasting 12 to 24 hours. Roads and travel conditions may be extremely hazardous due to ice accumulation.
3	Numerous utility interruptions with some damage to main feeder lines and equipment expected. Tree limb damage is excessive. Outages lasting 1 – 5 days.
4	Prolonged & widespread utility interruptions with extensive damage to main distribution feeder lines & some high voltage transmission lines/structures. Outages lasting 5 – 10 days.
5	Catastrophic damage to entire exposed utility systems, including both distribution and transmission networks. Outages could last several weeks in some areas. Shelters needed.

(Categories of damage are based upon combinations of precipitation totals, temperatures and wind speeds/directions.)

Climatological Influence on Winter Storm Hazard

Comanche County faces evolving challenges from winter storm events influenced by climatological factors, ecological characteristics, and prevailing weather patterns. With a semi-arid climate prone to variability, the region experiences occasional winter storms, projected to intensify due to climate change. These storms impact the area's diverse ecosystems, with vegetation types affecting snow accumulation and runoff patterns. Weather patterns, including interactions between polar air masses and Gulf of Mexico moisture, contribute to the variability of winter precipitation types. Projected shifts in climate may lead to more unpredictable and severe winter weather, necessitating proactive measures such as improved forecasting, infrastructure resilience planning, and community outreach to mitigate impacts and enhance resilience in Comanche County. The increasing severity and unpredictability of winter storms underscore the importance of implementing robust preparedness and response measures to protect public safety and critical infrastructure in Comanche County.

Previous Occurrences (2010-2023)

<p>1/28-29/2010</p>	<p>A major winter storm impacted much of Oklahoma beginning on the morning of January 28th and continued through much of the day. While the storm produced a variety of wintry precipitation, its most significant impacts came with an extended period of heavy freezing rain across southern into parts of central Oklahoma. Significant icing on trees and power lines resulted in widespread damage to trees and power lines.</p> <p>The shallow cold air mass north of the front placed a broad swath of southwest Oklahoma and central Oklahoma under-the-gun for a major icing event. During the afternoon, the precipitation increased in intensity, particularly over southwest Oklahoma, which then moved into parts of central Oklahoma.</p> <p>Overnight, and into the morning of the 29th, a surface low pressure developed over southeast Texas and began to move northeast towards western Louisiana. Behind this low, more widespread precipitation began to redevelop over west Texas. The area of precipitation pivoted through much of Oklahoma during the daytime hours in the form of snow. In total, the large storm system resulted in over 900 slip-and-fall accidents. Almost 90 accidents were reported, with over 200 non-life-threatening injuries with the accidents. Almost 180,000 homes and businesses were without power at the peak of the storm, several of which (mainly in SW Oklahoma) were without power for almost a week. The monetary value for the damage may not be known for a while, but estimates are well into the millions of dollars.</p>
<p>12/20-21-2013</p>	<p>On Friday, December 20th, a shallow but strong cold front surged through southern Oklahoma, bringing a prolonged sub-freezing airmass to all of Oklahoma. From the evening of the 20th through the afternoon of the 21st, a persistent light to moderate freezing rain event occurred, with substantial ice accumulations over a large part of central and southern Oklahoma. Across portions of northern and western Oklahoma, snow accumulations occurred as the cold airmass deepened and an upper trough lifted northeast through central Oklahoma late on the 21st into the 22nd. The ice storm resulted in thousands of power outages across the Oklahoma City metro and surrounding areas.</p>
<p>2/2/2014</p>	<p>A powerful cold front swept through Oklahoma early on the first, allowing a deep cold airmass to fill into the region. An approaching upper-level wave brought sufficient lift to generate bands of light to moderate snow over much of southern Oklahoma. Snow gradually ended late on the 2nd, but not before impressive storm total snow accumulations occurred. Storm total snowfall ranged from around 5 inches in Lawton to 6.5 inches at Chattanooga.</p>
<p>12/27/2014</p>	<p>A strong cold front moved through Oklahoma and north Texas early on the 27th. Several post frontal snow bands developed across southwestern and central Oklahoma. Snow accumulations of 1 to 6 inches were reported with these snow bands. Rain quickly</p>

	<p>changed over to snow. The snow became moderate to heavy at times. By the time snow had ended in the late morning, up to 6 inches of snow had fallen in Lawton, and 4 to 5 inches had fallen in Elgin and surrounding communities.</p>
2/27-28/2015	<p>A deep Arctic airmass had settled into the Southern Plains. Several upper-level disturbances moved across the region, bringing moderate to heavy snow to parts of the area. Snow came in two waves, with the heaviest snow being confined to both northwestern Oklahoma and south central and southeastern Oklahoma. Snow began falling during the late morning of the 27th and persisted through the morning of the 28th. By the time snow had ended, Cache picked up 5 inches and Lawton saw 2 to 3 inches.</p>
11/27-29/2015	<p>An upper low moving in combined with abundant moisture from the gulf to produce a four-day rain event from the 26th through the 29th. When strong front came down Thursday night (11/26), temperatures began to drop below freezing across northern, western, and central Oklahoma and parts of western north Texas. These areas experienced a shift from rain to freezing rain. Freezing rain continued into early Sunday morning as temperatures continued to hover in the 20s to lower 30s.</p>
12/27-28/2015	<p>As an upper low came down on the 26th, numerous showers and storms began to form. A cold front moved through the area that night, gradually bringing the area below freezing. The 27th saw precipitation transition to sleet and freezing rain. Combined with high winds, this caused extensive damage to trees and power lines. By the 28th, all of the precipitation had turned to snow.</p>
1/3/2019	<p>A closed upper low and an arctic airmass combined to produce heavy snowfall across portions of Oklahoma. Maximum of 5 inches reported in Indianhom. Multiple reports of 4 to 5 inches across the county.</p>
10/26-28/2020	<p>A historic early season ice storm occurred over a period of several day period on the morning of the 26th and continuing into the evening of the 28th. Freezing rain and sleet were reported across much of central and western Oklahoma, with some snow reported as well across far northwest Oklahoma. Extreme freezing rain accumulations of at least 1.5 inches were reported in west-central Oklahoma over the 3-day period, with greater than 0.5-inch totals reported over a large area from Ponca City to Oklahoma City to Lawton to Clinton. Hundreds of thousands of people were without power by the 28th and extensive tree and powerline damage was reported across much of the area.</p>
01/01/2021	<p>A complex winter storm impacted much of Oklahoma to begin the year. It began as rain which then transitioned to several hours of freezing rain for portions of southern and central Oklahoma as temperatures near the surface cooled. Up to a quarter inch of ice accreted on the 31st before transitioning to heavy snow during the early morning hours of Jan 1st. Heavy snow fell during the early morning hours with a general 2 to 4 inches falling across the county. A maximum of 4 inches was measured in Elgin.</p>

2/14/2021	An impressively cold air mass was in place as an upper trough crossed the region, bringing heavy snow to much of the area. Widespread range of 4-6 totals were reported, with isolated amounts approaching 10. Reports from across the county ranged from 4 to 7 inches of snow, with a maximum of 7 inches reported 4 west-southwest of Lawton.
2/14-16/2021	Extreme and record breaking cold peaked across Oklahoma and Texas during the 14th-16th, with wind chills of -20 to as low as -30 degrees reported in much of the area. Air temperatures in the -10 to -20 range were also common on the 16th, with OKC reporting its second coldest low temperature ever recorded. Below zero wind-chills were recorded for an extended period, with the coldest readings recorded on the morning of the 15th, when wind chills of -20 to -35 degrees were measured.
2/16-17/2021	The record cold air mass remained entrenched over the area as yet another trough approached from the west. Snowfall covered most of Oklahoma, but the heaviest snow fell across southern OK and western north Texas where 6 to as much as 8 inches were reported. Reports from across the county generally ranged from 4 to 6 inches, with a maximum of 5.9 inches reported in Chattanooga.
12/22-23/2022	Arctic cold combined with 40-60mph winds to produce extremely cold wind chills across much of northern and western Oklahoma, where wind chills of -20 to -30 degrees Fahrenheit were observed.
1/24/2023	A cutoff low brought snow to much of the area on the 24th. Warm ground temperatures and air temperatures hovering just above freezing limited the ability of snowfall to accumulate. However, portions of western and south-central Oklahoma still observed areas of greater than 4 inches of snow accumulation. Snowfall totals ranged from 2 to 4 inches in the county, with the highest total of 4 inches measured in Chattanooga, OK.

Probability

The probability of Severe Winter Weather Events in the Planning Area is High

Vulnerability and Impacts

Jurisdiction	Vulnerability	Impact
Comanche County	Comanche County maintains over 350 miles of county roadways across the county that are not maintained by the Oklahoma Dept. of Transportation. Salting, sanding, and plowing equipment is inadequate to mitigate impacts from icy road conditions to provide safe travel for emergency response personnel and essential personnel who may travel during these events.	In accessibility can have life-threatening consequences, especially in combination with widespread power outages or other infrastructure failures. At-risk or elderly individuals may be at a greater risk of hypothermia, death, or complications due to other circumstances and the inability to reach those individuals in a timely matter due to impassable roads would create both litigious and economic risk to the county.
City of Lawton	Lawton's critical facilities are a mix of new construction and older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow. Vulnerable populations are particularly impacted through loss of utilities, lack of transportation, and impact to critical facilities such as pharmacies, hospitals, or utility infrastructure.	A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.
Lawton Public Schools	Lawton Public Schools are a mix of new construction and older buildings with dated plumbing systems and poor insulation. these buildings are vulnerable to freezing and rupturing water pipes. Transportation is not as high of a vulnerability due to a robust virtual education capability and proactive policies enacting virtual policies.	This can cause a disruption to the school that depends on this service for students and faculty. Fixing broken water lines is very costly to repair.

City of Cache	Cache’s critical facilities are a mix of new construction and older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow.	A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.
Cache Public Schools	Cache Public Schools has buses that drive routes on the rural county roads in Comanche County. A Winter Storm which results in early dismissal could place students in danger due to icy road conditions.	Transportation routes can directly affect school operations, and result in school closures.
Town of Chattanooga	Chattanooga’s critical facilities are older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow.	A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.
City of Elgin	Elgin’s critical facilities are a mix of new construction and older buildings with dated plumbing systems and poor insulation. During winter storm events,	A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already

	<p>these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow.</p>	<p>vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.</p>
Town of Faxon	<p>Faxon is a small community, with most residents living on rural roads. These roads can go days before the District Barn Employees can clear them. Residents are isolated if they can't get out of their driveways or roads.</p>	<p>Uncleared roads make it impossible for residents and responders to have access to critical services.</p>
Town of Fletcher	<p>Fletcher's critical facilities are older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow.</p>	<p>A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.</p>
City of Geronimo	<p>Geronimo's critical facilities are older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and</p>	<p>A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of</p>

	can be directly impacted by sleet, ice, and snow.	repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.
Geronimo Public School	Geronimo Public School bus routes include a significant portion of unincorporated Comanche County; road disruptions due to ice and snow accumulation could lead to dangerous travel conditions if storms occur during the school day.	This can cause a disruption to the school that depends on this service for students and faculty.
Town of Indiahoma	Indiahoma's critical facilities are older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow.	A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.
Town of Medicine Park	Medicine Park's critical facilities are older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow.	A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power

		lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.
Town of Sterling	Sterling’s critical facilities are older buildings with dated plumbing systems and poor insulation. During winter storm events, these buildings are vulnerable to freezing and rupturing water pipes. Electrical infrastructure is also predominately above ground and can be directly impacted by sleet, ice, and snow.	A ruptured water pipe will leave a critical facility or home without water for an extended period of time. This compounds an already vulnerable situation during a Winter Storm event. Repairing these pipes is costly, and having an abundance of these types of repairs might overwhelm the capabilities of local trade companies. Damage to Power lines and infrastructure systems will cause disruption of service. This can prevent lifesaving services to residents that depend on electricity to give them support for their health.
Sterling Public Schools	Sterling Public School bus routes include a significant portion of unincorporated Comanche County; road disruptions due to ice and snow accumulation could lead to dangerous travel conditions if storms occur during the school day.	This can cause a disruption to the school that depends on this service for students and faculty.

Impact

Severe winter storms, including heavy snowfall, ice accumulation, and freezing temperatures, can disrupt transportation, damage infrastructure, and pose risks to public safety. Citizens in unincorporated areas of Comanche County are particularly vulnerable to increased risk of utility failure during severe winter weather events.

3.5.4 Drought

Description

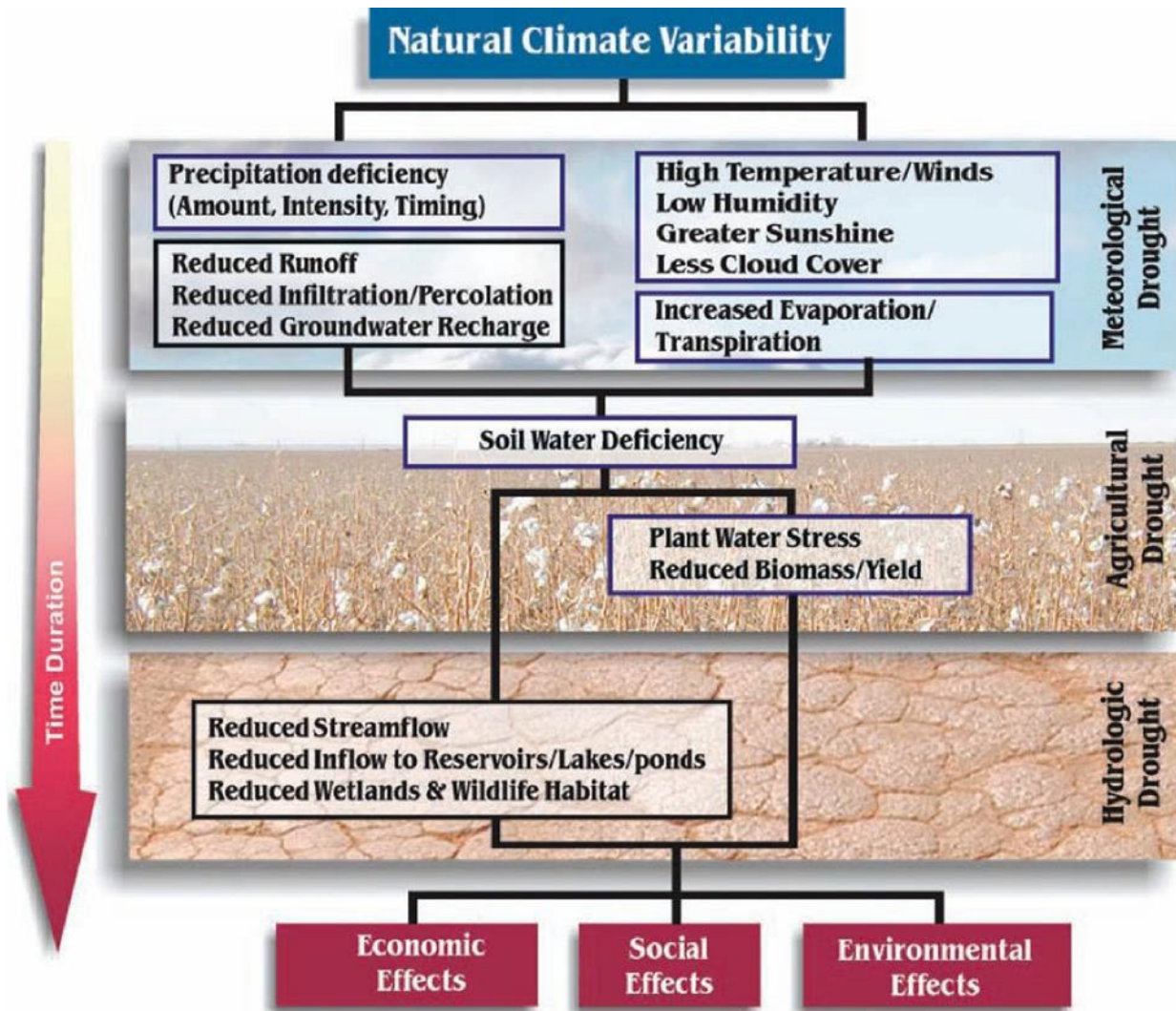
Drought is a normal, recurrent feature of climate, although many erroneously consider it a rare and random event. It occurs in virtually all climatic zones, but its characteristics vary significantly from one region to another. Oklahoma's State Emergency Management Office defines drought as "a persistent and abnormal moisture deficiency having adverse impacts on vegetation, animals or people." Drought is caused by a deficiency of precipitation, which can be aggravated by high temperatures, high winds, and low relative humidity. Duration and severity are usually measured by deviation from norms of annual precipitation and stream flows.

Drought is an insidious hazard of nature, characterized as a "creeping phenomenon." It is often difficult to recognize the occurrence of drought before being in the middle of one. Drought analysis is more subjective than that for floods because droughts do not occur suddenly. They evolve over time as certain conditions are met and spread over a large geographical area.

Drought severity depends on its duration, intensity, geographic extent, and the regional water supply demands made by human activities and vegetation. This multi-dimensional nature makes it difficult to define a drought and to perform comprehensive risk assessments. This leads to the lack of accurate, reliable, and timely estimates of drought severity and effects, and ultimately slows the development of drought contingency plans.

According to the National Drought Mitigation Center at the University of Nebraska-Lincoln, there are four kinds of drought, which occur at different stages.

- Meteorological – a measure of departure of precipitation from normal.
- Agricultural – refers to a situation when the amount of moisture in the soil no longer meets the needs of a particular crop.
- Hydrological – occurs when surface and subsurface water are below normal.
- Socioeconomics – the situation that occurs when physical water shortage begins to affect people.



Location

Drought affects the entire Planning Area. Drought is a widespread phenomenon that occurs over broad regions encompassing not only multiple communities, but frequently multiple states. Over the last few years, western Oklahoma has been hit harder by water shortages than eastern Oklahoma, but no location in the state is immune.

Extent

The Planning Area uses the Palmer Drought Severity Index (PDSI). The PDSI uses readily available temperature and precipitation data to estimate relative dryness. It incorporates temperature, precipitation, evaporation, runoff, and soil moisture when designating the degree of drought. Hydrologic indices (such as groundwater levels, reservoir volumes, or water levels) may be used to determine surface water supplies.

The PDSI uses a range from +4 (extremely wet) to -4 (extremely dry), as shown in the table below. Weekly Palmer Index values are calculated for the Climate Divisions during every growing season and are posted online by the National Drought Mitigation Center.

The Planning Area can experience any value on the PDSI.

Palmer Drought Severity Index

	< -4.0	Extreme Drought
	-3.99 to -3.0	Severe Drought
	-2.99 to -2.0	Moderate Drought
	-1.99 to -1.0	Mild Drought
	-0.99 to -0.5	Incipient Drought
	-0.49 to 0.49	Near Normal
	0.5 to 0.99	Incipient Moist Spell
	1.0 to 1.99	Moist Spell
	2.0 to 2.99	Unusual Moist Spell
	3.0 to 3.99	Very Moist Spell
	> 4.0	Extreme Moist Spell

Comanche County and the participating entities have agreed that based on the Palmer Index they would consider a value of -1.00 to be minor in severity where only the growth of vegetation would be affected. However, a value of -3.00 and above would cause loss in agriculture crops, loss of livestock, increased wildfire danger, water supplies would fall to levels requiring rationing, area streams would run dry, and lake levels would fall; all of which would be considered major in severity by participating jurisdictions.

The Planning Area also uses the Keetch-Byram Drought Index (KBDI) to measure Drought. The KBDI is a mathematical system for relating current and recent weather conditions to potential or expected fire behavior. This system was originally developed for the southeastern United States and is based on recent rainfall patterns. The KBDI is the most widely used drought index system by fire managers in the South. It is also one of the only drought index systems specifically developed to equate the effects of drought with potential fire activities. The result of this system is a drought index number ranging from 0 to 800 that accurately describes the amount of moisture that is missing. A rating of zero defines the point where there is no moisture deficiency and 800 is the maximum drought possible. The Planning Area can experience all categories on the Keetch-Byram Drought Index.

The Keetch-Byram Drought Index (KBDI)¹¹

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

Climatological Influence on Drought Hazard

With a semi-arid climate characterized by hot summers and limited precipitation, the Planning Area is susceptible to prolonged drought conditions exacerbated by climate change. Climate projections indicate an increased probability of drought occurrence due to rising temperatures and altered precipitation patterns. These drought events impact the region's diverse ecosystems, leading to reduced soil moisture, diminished water resources, and increased wildfire risk. Interactions between climatic influences and ecological vulnerabilities, such as changes in vegetation cover and land use practices, further exacerbate the impacts of drought on local communities and ecosystems. The escalating

¹¹ Oklahoma Hazard Mitigation Plan

frequency and severity of drought events underscore the urgent need for comprehensive drought preparedness and water conservation measures to mitigate the socioeconomic and environmental consequences of drought in Comanche County.

Previous Occurrences (2011 – 2023)

2/22/2011	Several months of below normal precipitation continued to wreak havoc on Oklahoma's agriculture. Summer and fall crops, hay forages, and alfalfa were hit hard by the lack of any significant precipitation. Farm pond water levels continued to decrease, or dry up altogether, which added insult to injury for area livestock. The extent of the damage was still undetermined monetary, but it was beginning to look like a total loss for many Oklahoma farmers.
3/1/2011	The ongoing severe drought, D2, increased to D3, or extreme from southwest Oklahoma into central Oklahoma by later in the month. Much of Oklahoma continued with another month of below normal precipitation. In some cases, only a few hundredths were recorded for the entire 31 days. Since Thanksgiving, much of central and western Oklahoma has seen its driest precipitation totals since the 1920s and 30s. Much of the wheat crop planted in the fall had all but been declared a total loss. In fact, the conditions have gotten worse with the emergence of the wheat crop. The lack of precipitation has made for low water levels on stock ponds for livestock, and the water level in irrigation reservoirs used for crops is falling. The exact monetary number for the crop loss cannot be determined, although it would probably be in the millions.
4/1/2011	Comanche county maintained D3 drought status through the month.
5/1/2011	D3/D4 drought status at the beginning of the month improved slightly to D2/D3 status by 8/24.
6/1/2011	D3 status at the beginning of the month worsened to D4 by June 21.
7/1/2011	D4 drought status continued through the month.
8/1/2011	The exceptional drought maintained its cruel grip over much of Oklahoma during the month of August. Although some beneficial rainfall occurred early in the month, it was not near enough to erase the climbing precipitation deficits that began during the late summer and early autumn of 2010. Since October 2010, the statewide average rainfall is over 12 inches below normal, with the most severity over western Oklahoma. The agricultural industry has obviously taken a huge hit from their crops to their cattle. The shortage of hay this year has caused farmers to sell the majority of their cattle, with some of them selling off their entire herd. The long-range forecast is for La Nina to establish itself once again by later this year, with below normal precipitation and above normal temperatures.
9/1/2011	Exceptional drought, rated D4, continued throughout the month.
10/1/2011	D4 drought continued through the month.

11/1/2011	D4 (exceptional) drought improved to D3 (extreme) by November 8.
12/1/2011	D3 (extreme) drought continued through the month.
1/1/2012	D3 (extreme) drought status continued through the month.
2/1/2012	D3 (extreme) drought status continued through the month.
3/1/2012	D3 (extreme) drought improved to D1 (moderate) by the 20th.
7/1/2012	Moderate drought conditions were present at the beginning of the month, but D3 (extreme) drought developed by the end of the month with persistent dry conditions.
8/1/2012	D3 (extreme) drought conditions were present at the beginning of the month, but D4 (exceptional) drought developed by the end of the month with persistent dry conditions.
9/1/2012	D4 (exceptional) drought conditions were present at the beginning of the month but had improved slightly to D3 (extreme) drought by the end of the month.
10/1/2012	D3 (extreme) drought continued through the month in Comanche County with persistent dry conditions.
11/1/2012	D3 (extreme) drought continued through the month in Comanche County with persistent dry conditions.
12/1/2012	D3 (extreme) drought continued through the month in Comanche County with persistent dry conditions.
1/1/2013	D3 (extreme) drought continued through the month in Comanche County with persistent dry conditions.
2/1/2013	D3 (extreme) drought continued through the month in Comanche County with persistent dry conditions.
3/1/2013	D3 (extreme) drought continued through the month with persistent dry conditions.
4/1/2013	D3 (extreme) drought was present at the beginning of the month but had improved slightly to D2 (severe) by the end of the month.
5/1/2013	D2 (severe) drought continued through the month with persistent dry conditions.
6/1/2013	D2 (severe) drought continued through the month with persistent dry conditions.
7/1/2013	D2 (severe) drought was present at the beginning of the month but had improved slightly to D1 (moderate) by the end of the month.
8/1/2013	D1 (moderate) drought continued through the month with persistent dry conditions.
9/1/2013	D1 (moderate) drought continued through the month with persistent dry conditions.
10/1/2013	D1 (moderate) drought continued with persistent dry conditions.
11/1/2013	Severe (D2) drought conditions persisted across southern portions of the county through the month.
12/1/2013	Drought conditions ranged from D1(moderate) to D2(severe) from northeast to southwest across the county.
1/1/2014	D3 drought conditions expanded into the southwestern portions of the county, resulting in drought conditions ranging from D1(moderate) to D3(severe) from northeast to southwest across the county.

2/1/2014	Drought conditions ranged from D1(moderate) to D3(extreme) from northeast to southwest across the county.
3/1/2014	Severe (D2) to extreme (D3) drought persisted across the county through the month.
4/1/2014	Severe (D2) to extreme (D3) drought persisted through the month.
5/1/2014	Drought conditions worsened throughout the month. While D2 (severe) to D3(extreme) drought was present at the beginning of the month, D3 to D4 (exceptional) drought became more prevalent by month's end.
6/1/2014	Drought conditions improved slightly. D3 (extreme) and D4 (exceptional) conditions retreated southwest, leaving D3 (extreme) and D2 (severe) conditions in their place.
7/1/2014	Despite, several rainfall events, D2 (severe) to D4 (exceptional) drought persisted across the county.
8/1/2014	With few rainfall events throughout the month, D2 (severe) to D4 (exceptional) drought persisted through the month.
9/1/2014	With little rainfall, D3 (extreme) to D4 (exceptional) drought persisted across the county.
10/1/2014	With little rainfall, D4 (exceptional) drought persisted and D3 (extreme) drought worsened across the county.
11/1/2014	D3 (extreme) to D4 (exceptional) drought retreated, leaving D2 (severe) to D3 (extreme) drought in the county.
12/1/2014	With little rainfall through the month, D3 (extreme) to D4 (exceptional) drought persisted.
1/1/2015	With dry and mild conditions through the month, D3 (extreme) to D4 (exceptional) drought persisted.
2/1/2015	With persistent dry weather, D2 (severe) to D4 (exceptional) drought persisted.
3/1/2015	With persistent dry weather, a D3 (extreme) to D4 (exceptional) drought continues across the western two thirds of the county, to a D2 (severe) drought across the eastern one third of the county.
4/1/2015	With persistent dry weather, a D4 (exceptional) to D3 (extreme) drought continued across the county.
5/1/2015	With record rains throughout the month of May, drought was completely eradicated in the county.
9/1/2015	With record rains occurring through the month of May, drought was completely eradicated.+D50:D83
10/1/2015	After a long period of little rain, flash drought (D0-D2) began to creep back into southeast Oklahoma. This event continues into October.
12/1/2017	Severe drought expanded across southern Oklahoma during the first half of the month. Toward the end of the month, several heavy rain events came through bringing drought levels back down to moderate. This event is a continuation from September.

1/1/2018	With a lack of rainfall, severe drought began to develop across western Oklahoma and persisted across south central Oklahoma.
2/1/2018	With a lack of rainfall, severe drought spread over the western two thirds of Oklahoma and extreme drought encroached upon much of western Oklahoma.
3/1/2018	Extreme and severe drought spread further through Oklahoma through the first half of the month. Toward the last week of February, rainfall brought some relief to the central third of Oklahoma, confining the severe and extreme drought areas to western Oklahoma.
4/1/2018	Drought intensified over western Oklahoma and western north Texas.
5/1/2018	Drought intensified to widespread exceptional over western Oklahoma and western north Texas.
6/1/2018	Drought conditions improved somewhat in western Oklahoma and western north Texas, though substantial areas of extreme and exceptional drought still remained.
7/1/2018	With abundant rainfall, drought conditions improved across western and northern Oklahoma. Exceptional drought was eliminated, and extreme drought substantially reduced. By the end of the month, most of western Oklahoma remained in moderate to severe drought.
8/1/2018	Severe to extreme drought persisted across southwest Oklahoma and severe drought expanded across south central Oklahoma while parts of northern Oklahoma saw some improvement in drought conditions.
9/1/2018	Severe to extreme drought persisted across southwest Oklahoma and parts of north central Oklahoma, while south central Oklahoma saw a little bit of improvement.
8/1/2019	Extreme drought was eliminated, and severe drought was greatly reduced through the month of September. By the end of the month, severe drought was confined to southwest Oklahoma.
9/1/2019	Severe drought expanded across southwest into central Oklahoma and intensified into the extreme category in some areas of southwest Oklahoma later in the month.
9/15/2021	Severe to extreme drought across southwest Oklahoma was reduced greatly over the course of the month as widespread rainfall came to the area.
12/16/2021	Drought rapidly expanded across the area during the month of September, with moderate drought increasing from 7% coverage at the beginning of the month to 70% by month's end.
1/1/2022	Drought was extensive across much of western Oklahoma and western north Texas during the beginning of the month, with continued dry conditions causing the eastward expansion of drought across much of central Oklahoma by month's end.
2/1/2022	Drought continued to worsen through the month of January as meaningful precipitation continued to evade the Oklahoma and north Texas area. Nearly the entire county warning area was in at least severe drought by month's end, with 65% of the area in extreme drought.

3/1/2022	Severe to exceptional drought persisted across all of central and western Oklahoma during the month of February with the lack of much significant precipitation.
4/1/2022	Drought worsened over the first half of the month before a few precipitation episodes lessened the drought for northern and central portions of Oklahoma. Severe to extreme drought persisted for southwestern OK which saw little measurable precipitation during the month of March.
5/1/2022	Continued dry conditions led to persistence and even expansion of severe to extreme drought during the month of April, especially across western Oklahoma and western north Texas.
6/1/2022	Severe drought persisted across much of western and central Oklahoma through the first half of the month, although much needed rains began to alleviate drought conditions over the course of the month.
7/1/2022	Drought continued to improve over the course of the month as the area saw beneficial rainfall to end the month of May and into the month of June.
7/16/2022	Hot and dry conditions allowed for drought to rapidly expand during the month of July, encompassing most of the western two thirds of Oklahoma by the end of the month.
8/1/2022	Hot and dry conditions allowed for drought to rapidly expand during the month of July, encompassing most of the western two thirds of Oklahoma by the end of the month.
9/1/2022	Drought persisted and remained largely unchanged through the month of August as hot temperatures and only sporadic rainfall were observed.
10/1/2022	Below normal rainfall led to drought persisting or worsening across much of the area during the month of September.
11/1/2022	A lack of significant rainfall during the month of October led to persistent drought across the area, with most of the region experiencing severe to extreme drought conditions with pockets of exceptional drought.
11/16/2022	Widespread and severe drought persisted through much of the month. Heavy rainfall occurred across portions of southeast Oklahoma early in the month that helped alleviate drought across this area by the late month.
12/1/2022	Widespread and severe drought persisted through much of the month. Heavy rainfall occurred across portions of southeast Oklahoma early in the month that helped alleviate drought across this area by the late month.
1/1/2023	Widespread, severe drought continued to persist through the month. Episodes of rainfall across much of the area helped improve conditions some, most notably across eastern Oklahoma. However, large expanses of extreme and exceptional drought remained by the end of the month.
2/1/2023	Despite intermittent periods of precipitation throughout the month, widespread severe to exceptional drought conditions persisted across much of western, northern, central, and southern Oklahoma.

4/1/2023	Despite periods of light precipitation throughout the early and middle portions of the month, severe to exceptional drought conditions lingered across similar areas of western, northern, central, and southern Oklahoma.
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Probability of Future Events

The probability of Drought affecting the Planning Area is High.

Vulnerability and Impacts

The Planning Area falls within the Beaver-Cache Watershed, in which 64% of the demand is met through surface water in the form of three large creeks which flow into the Red River: Beaver Creek, Cache Creek, and Deep Red Creek. Large reservoirs have been built on Cache Creek tributaries (Lawtonka and Ellsworth) and Beaver Creek (Waurika) to supply public water systems and irrigators.

Climatological changes, including periods of prolonged drought, pose significant challenges to Comanche County. Drought conditions can lead to water scarcity, agricultural losses, and increased wildfire risks. Implementing drought-resistant water management strategies and promoting water conservation measures are essential to mitigate the impacts of drought on our community.

Jurisdiction	Vulnerability	Impact
Comanche County	<p>Drought impacts all areas within rural Comanche County. The dependency upon surface water entails a constant cycle of drought and flood as these streams and creeks reduce flow during periods of less rainfall.</p> <p>Continued residential development in unincorporated Comanche County has added an additional strain on constrained water resources as the need for fire suppression increases.</p>	<p>When drought is high in the summertime this impacts the farmers and ranchers with agricultural crops and livestock resulting in reduced income, and not having enough water from a dry private well. It can also increase the risk of wildfire.</p>
City of Lawton	<p>Lawton receives water from Lakes Lawtonka and Ellsworth, and also provides water to several Rural Water Districts. Drought would impede their ability to both provide water within the community, but also to the other water districts to which it sells water.</p>	<p>The most direct impact of drought is a decrease in the public water supply. This could result in mandated water conservation steps to include a ban on washing cars or watering</p>

		lawns. It can also increase the risk of wildfire.
Lawton Public Schools	Lawton Public School receives water from the City of Lawton. With water shortage in the summer months the school would have to follow the enforced water rationing guidelines. Lawton Public Schools also has some natural turf fields. During water rationing, the school is unable to water the fields properly.	If a turf field is not maintained properly, it can have a long-term effect on the soil causing it to crack and become uneven. Uneven surfaces could lead to an injury of a student or faculty member. A damaged field could also make the field unusable, and cause disruptions to school activities.
City of Cache	Cache draws water through the Cache Creek Alluvial aquifer. Over the previous years, the western half of Comanche County (including Cache) has faced significant, long term drought conditions. In turn, the city has imposed rationing both on city residents and surrounding communities who rely on their services for water.	The long-term impact is financial and economic impact to the community due to lost income and loss of population. It can also increase the risk of wildfire.
Cache Public Schools	Cache Public School receives water from the City of Cache. With water shortage in the summer months the school would have to follow the enforced water rationing guidelines. Cache Public Schools also has some natural turf fields. During water rationing, the school is unable to water the fields properly.	If a turf field is not maintained properly, it can have a long-term effect on the soil causing it to crack and become uneven. Uneven surfaces could lead to an injury of a student or faculty member. A damaged field could also make the field unusable, and cause disruptions to school activities.
Town of Chattanooga	Chattanooga draws water through the Cache Creek Alluvial aquifer. Drought depletes the water sources used to sustain crops and livestock. Agriculture is usually the first sector to be affected by the onset of Drought because it relies on precipitation and soil moisture availability during various crop growth stages.	Drought during the summer months, when crop growth is at its peak and the air temperatures are at the hottest, could result in agricultural and livestock losses. This results in loss of revenue for ranchers and farmers. In addition, this impacts consumer and other businesses the ranchers and farmers supply, and the supporting businesses that

		provide supplies to ranchers and farmers. It can also increase the risk of wildfire.
City of Elgin	Elgin draws water through the Cache Creek Alluvial aquifer and provides water to the community and surrounding areas. During times of drought, water rationing would be enforced which could impact revenue streams.	The long-term impact is financial and economic impact to the community due to lost income and loss of population, as well as loss of revenue for the City. It can also increase the risk of wildfire.
Town of Faxon	Faxon receives water from Tillman County Rural Water District #1 which receives water from the Tillman Terrace Aquifer. Times of extended drought can impact both water quality and quantity, which can have detrimental impacts on farming and agriculture.	The long-term impact is financial and economic impact to the community due to lost income and loss of population, as well as loss of revenue for the City. It can also increase the risk of wildfire.
Town of Fletcher	Fletcher receives water from the Cache Creek Alluvial and in turn provides water to its' town and surrounding residents through a Well system. During times of drought, water rationing would be enforced which could impact revenue streams.	The long-term impact is financial and economic impact to the community due to lost income and loss of population, as well as loss of revenue for the City. It can also increase the risk of wildfire.
City of Geronimo	Geronimo receives water from the City of Lawton. Geronimo would experience downstream impacts from drought affecting the City of Lawton to include water rationing, quality, and usage.	The long-term impact is economic impact to the community due to lost income and loss of population. It can also increase the risk of wildfire.
Geronimo Public School	Geronimo Public Schools receives water from the City of Lawton and would have enforced water rationing guidelines which could impact natural turf field maintenance.	If a turf field is not maintained properly, it can have a long-term effect on the soil causing it to crack and become uneven. Uneven surfaces could lead to an injury of a student or faculty member. A damaged field could also make the field unusable, and cause disruptions to school activities.

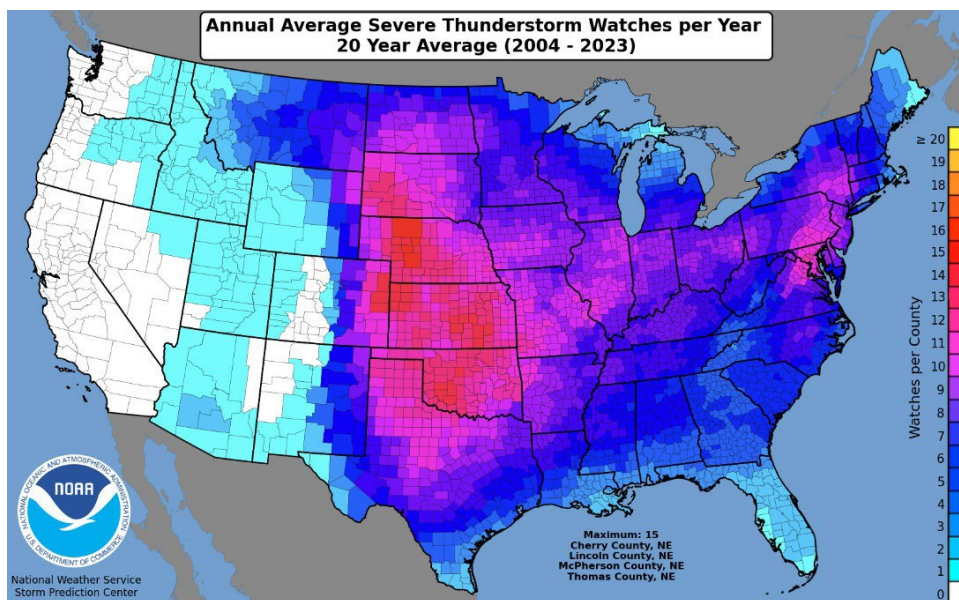
Town of Indiahoma	The Town of Indiahoma receives water from Comanche County Rural Water District #4, and in turn provides those to the town and surrounding residents. During times of drought, water rationing would be enforced which could impact revenue streams.	The long-term impact is economic impact to the community due to lost income and loss of population. It can also increase the risk of wildfire.
Town of Medicine Park	Medicine Park purchases water from the City of Lawton and in turn provides it to the town and surrounding communities. Medicine Park would experience downstream impacts from drought affecting the City of Lawton to include water rationing, quality, and usage.	The long-term impact is economic impact to the community due to lost income and loss of population. It can also increase the risk of wildfire.
Town of Sterling	Sterling receives water from the Beaver Creek Alluvial and a series of wells which it uses to provide water to the town and surrounding residents.	The long-term impact is economic impact to the community due to lost income and loss of population. It can also increase the risk of wildfire.
Sterling Public Schools	Sterling Public School receives water from the Town of Sterling. With water shortage in the summer months the school would have to follow the enforced water rationing guidelines. Sterling Public Schools also has some natural turf fields. During water rationing, the school is unable to water the fields properly.	If a turf field is not maintained properly, it can have a long-term effect on the soil causing it to crack and become uneven. Uneven surfaces could lead to an injury of a student or faculty member. A damaged field could also make the field unusable, and cause disruptions to school activities.

3.5.5 Severe Thunderstorms

Severe Thunderstorms includes tornadoes, lightning storms, straight line winds/high winds, and hail. Each sub-hazard is profiled individually with overall vulnerabilities and impacts for each participating jurisdiction summarized. On average, the Comanche County Planning Area can experience 12-13 Severe Thunderstorm watches annually.

Severe Thunderstorm Watches are issued when conditions are favorable for the formation of severe thunderstorms in and near an area. The National Weather Service defines a Severe Thunderstorm Watch as:

1. Winds of 58 mph or higher and/or
2. Hail 1 inch in diameter or larger



Sub-Hazard Descriptions:

Tornadoes	
Description	A tornado is a rapidly rotating vortex or funnel of air extending to the ground from a cumulonimbus cloud. When the lower tip of a vortex touches earth, the tornado becomes a force of destruction. The path width of a tornado is generally less than a half-mile, but the path length can vary from a few hundred yards to dozens of miles. A tornado moves at speeds from 30 to 125 mph but can generate winds exceeding 300 mph. Oklahoma is located in “Tornado Alley,” the most tornado-prone area of the nation. Tornadoes can occur any time of the day, on any day of the year, at any location.
Location	Due to the extremely variable nature of weather in Southwest Oklahoma, tornadoes can and have occurred any time of year if the

	wind shear, lift, atmospheric instability, and moisture is present. The entire Planning Area is affected by Tornados.
Extent	The Planning Area uses the Enhanced Fujita Scale to categorize Tornado. Almost 70% of all tornadoes are measured EF0 and EF1 on the Enhanced Fujita Scale, causing light to moderate damage, with wind speeds between 40 and 112 miles per hour. EF4 and EF5 tornadoes are considerably less frequent, but cause the most devastating impacts, including loss of life and property. 66% of all tornado deaths were caused by EF4 and EF5 storms, which represent only 1% of all tornadoes. The Enhanced Fujita Scale was adopted in early 2007. The Planning Area can experience any EF value on this scale.
Impact	People, Structures and utilities are vulnerable to tornado events. Persons who are unable to take refuge in an engineered shelter are most vulnerable to tornado events. People who are outside or in vehicles are especially vulnerable. Persons may also be impacted by tornadoes by damage to or complete loss of their homes, as well as loss of vehicles and/or personal property. Adding to the impact is the potential loss of wages or employment due to extended injury, time away from work while dealing with damaged/destroyed homes, loss of transportation, and/or the loss of employment due to destruction of their employer's property.

Enhanced F Scale for Tornado Damage

FUJITA SCALE (Used Prior to 2007)			ENHANCED FUJITA SCALE	
F Number	Fastest 1/4-mile (mph)	3 Second Gust (mph)	EF Number	3 Second Gust (mph)
0	40-72	45-78	0	65-85
1	73-112	79-117	1	86-110
2	113-157	118-161	2	111-135
3	158-207	162-209	3	136-165
4	208-260	210-261	4	166-200
5	261-318	262-317	5	Over 200

<http://www.spc.noaa.gov/faq/tornado/ef-scale.html>

***** IMPORTANT NOTE ABOUT ENHANCED F-SCALE WINDS:** *The Enhanced F-scale still is a set of wind estimates (not measurements) based on damage.* Its uses three-second gusts estimated at the point of damage based on a judgment of 8 levels of damage.

Important: The 3 second gust is not the same wind as in standard surface observations. Standard measurements are taken by weather stations in open exposures, using a directly measured, "one-minute mile" speed.¹²

¹² NOAA.gov
pg. 105

Previous Occurrences

There were 12 reports of tornadoes between 2013 and 2023.

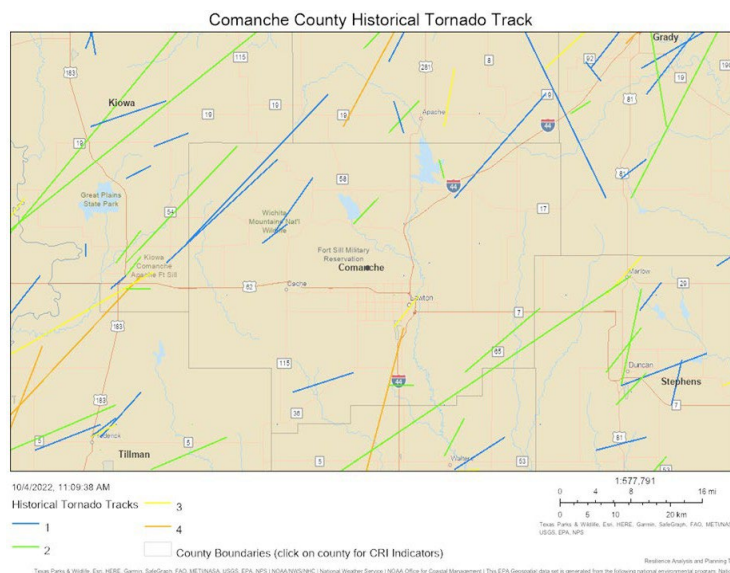
<p>4/17/2013 EF-0</p>	<p>A strong warm front became stationary along the interstate 44 corridor during the early afternoon of the 17th. Through the day, areas south of the warm front and east of a well-defined dryline became very unstable. As a large upper trough shifted into the Southern Plains, scattered thunderstorms developed near the dryline/warm front triple point. As these storms moved eastward into the highly unstable warm sector, they became super cellular. These storms produced all facets of severe weather, including very large hail, damaging straight line winds, and a few brief tornadoes. Training of supercells also led to flash flooding over portions of southwest Oklahoma around the Wichita Mountains Wildlife Refuge. Storms eventually shifted eastward and weakened overnight as a cold front pushed through Oklahoma. The tornado was reported on the west side of Lawton. Minor damage was done to the Goodyear Tire Plant at southwest Lee and Goodyear Boulevards.</p>
<p>5/7/2014 EF-0</p>	<p>A large upper-level trough became established over the western U.S. bringing strong southwest flow across the Southern Plains. At the surface, a north to south oriented dryline became well established across western Oklahoma. This dryline served as a focus for several rounds of supercell thunderstorms. Sporadic severe wind and hail occurred, along with a couple of brief tornadoes. Employees of the Wichita Mountain National Wildlife Refuge observed this tornado in the north part of the refuge. A ground survey by the refuge deputy manager indicated that the tornado developed southwest of Moko Mountain and initially moved northeast toward the 2,288-foot peak. The tornado then turned north-northwest moving down the north slope of Moko Mountain. Numerous trees were snapped and uprooted along the path.</p>
<p>5/27/2014 EF-0</p>	<p>A cutoff upper level low meandered into central Oklahoma during the afternoon hours. This feature brought moderate wind shear into the region, along with substantial directional shear. This combined with appreciable instability and abundant moisture led to the formation of numerous thunderstorms across southern and central Oklahoma. Two brief tornadoes were observed near the center of the upper low across southwestern Oklahoma. Several other funnel clouds were also reported. A brief tornado developed near Faxon. Very minor damage occurred to patio furniture and small outbuildings. Damage information provided by KSWO.</p>
<p>5/16/2015 EF-1</p>	<p>With an upper low traversing the region, a cold front stationed over the panhandles, and a developing dryline, storms developed out in the panhandles early on the 16th and made their way eastward across Oklahoma through the day. Toward evening, when the severe weather occurred, the front surged eastward with a line of storms forming along it. A large tornado was observed southwest of Meers in the Wichita Mountains National Wildlife Refuge. The tornado moved northeast</p>

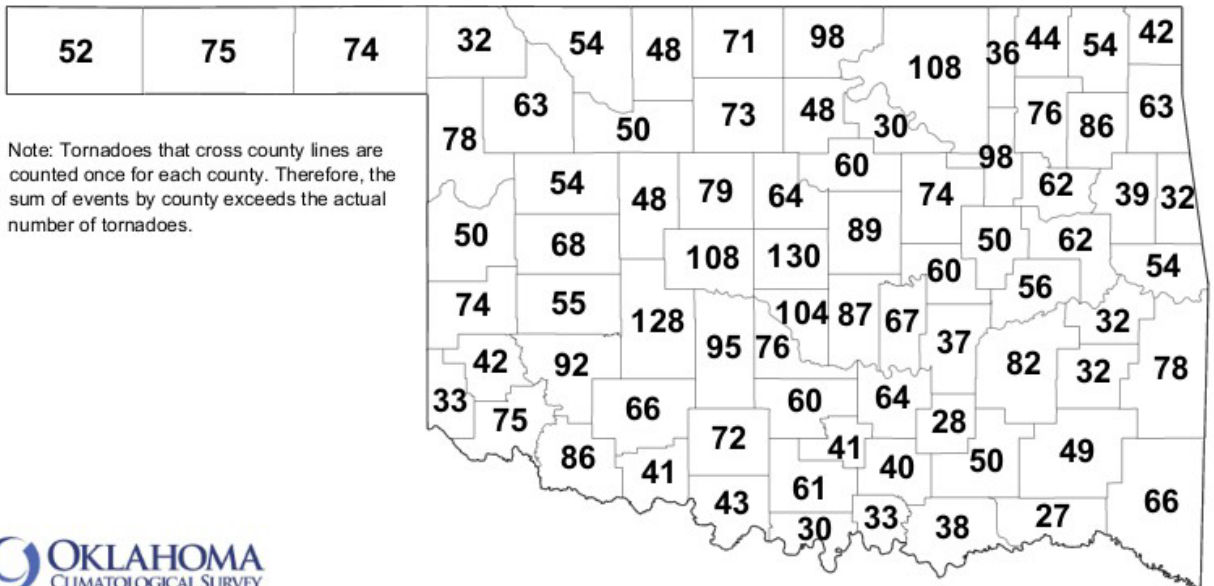
	passing just west of Meers and dissipating approximately 1.5 miles north of Meers.
5/16/2015 EF-0	With an upper low traversing the region, a cold front stationed over the panhandles, and a developing dryline, storms developed out in the panhandles early on the 16th and made their way eastward across Oklahoma through the day. Toward evening, when the severe weather occurred, the front surged eastward with a line of storms forming along it. Storm spotters and storm chasers observed a tornado develop southwest of Geronimo and move east-northeast. No structure damage was reported, and the path is estimated.
4/29/2016 EF-1	Initial storms on the morning of the 29th formed along a stationary boundary. As an upper-level low moved in, more storms formed in the panhandles and moved into Oklahoma toward late morning through the afternoon. Toward evening, some of the last storms formed into a line before exiting the area to the east. A tornado developed just northwest of Elgin. It initially moved north, then turned east-northeast dissipating just before reaching Fletcher. Mobile homes were damaged along the path as well as trees, power lines, and outbuildings.
10/21/2017 EF-U	Storms formed along a cold front during the afternoon of the 21st, eventually forming a line. Through the evening storms swept eastward through Oklahoma and western north Texas. Significant hail, severe winds, and a few short-lived tornadoes as well as some minor flooding were reported with these storms. Media coverage showed a brief tornado approximately 2 miles east of Indianola. This tornado was not rated and has an EF-U rating. No damage was reported.
5/18/2019 EF-2	The beginning of a very active period, the 18th started with a complex of thunderstorms that grew upscale producing wind and tornadoes in the morning and then finished with isolated supercells producing large hail across northern Oklahoma. A QLCS tornado destroyed two homes about three miles east of Geronimo. One home had most exterior walls collapsed while another house just across the street to the north had its roof removed and many of the exterior walls collapsed. A few power poles were snapped, and a tree was uprooted.
4/21/2020 EF-U	Storms initiated along a warm front amid strong instability and enough shear for multiple storms producing very large hail up to the size of baseballs and a few brief tornadoes on the evening of the 21st. A tornado developed in far eastern Comanche County east of Sterling, just west of the Grady County line. The tornado produced no known damage in Comanche County before moving quickly into Grady County.
10/12/2021 EF-0	A warm front lifted north during the afternoon and evening of the 12th, with a couple of supercells developing along it across southwest OK. Large hail, strong winds, and numerous tornadoes were reported with these storms as they moved northeastward. Later, a line of severe storms moved into far western OK along a cold front, with strong winds and hail reported with these storms. This tornado moved into Comanche County from Kiowa County approximately three miles north of U.S. Highway 62 and moved northeast and then due north. At least one home suffered some shingle damage, a mobile home received roof damage, and a barn

	door was blown in. Tree damage was also observed along the path. None of the damage in Comanche County was observed to be greater than EF-0, although the tornado was likely stronger as there were few damage indicators encountered along the path.
10/12/2021 EF-U	A warm front lifted north during the afternoon and evening of the 12th, with a couple of supercells developing along it across southwest OK. Large hail, strong winds, and numerous tornadoes were reported with these storms as they moved northeastward. Later, a line of severe storms moved into far western OK along a cold front, with strong winds and hail reported with these storms. Radar indicated strong rotation with a tornado debris signature in an inaccessible area of the Wichita Mountains. The path and path dimensions are estimated.
6/15/2023 EF-0	The approach of an anomalously strong (for mid-June) upper-level disturbance lead to a widespread severe weather outbreak across portions of the forecast area, especially along and west of the I-35 corridor, during the afternoon into late evening of the 15th. This included the development of numerous supercell thunderstorms across the area. Despite relatively high cloud bases, strong low-level instability and sufficient low-level wind shear aided tornadic outcomes, with eleven tornadoes confirmed across western into southern Oklahoma. Numerous reports of large to very large hail, including reports of 4-inch hail in Lawton, and wind damage were received across area. This tornado developed near State Highway 36 and Deyo Mission Road, and produced tree and shingle damage as it moved southeast. It dissipated just north of the Cotton County line.

Probability

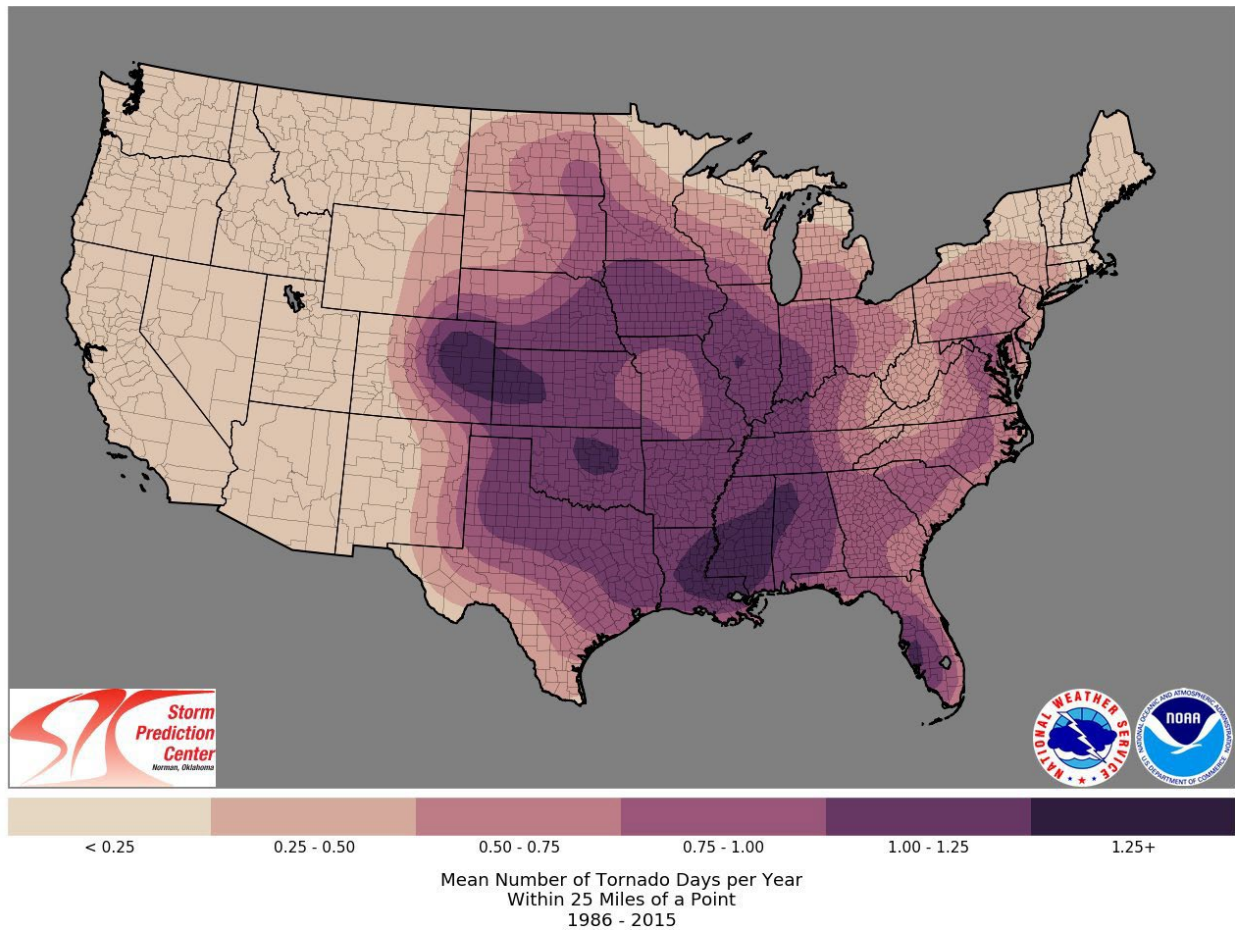
Based on historical data, the probability of future Tornado events in the Planning Area is High.





Number of Tornadoes by County

1950 - 2023
 Tailed using data archived at OCS. Created 2:35:48 PM January 10, 2024 CST. © Copyright 2024



Lightning	
Description	Lightning is generated by the buildup of charged ions in a thundercloud. When the buildup interacts with prime conductive objects or surfaces on the ground, the result is a discharge of a lightning bolt. Thunder is the sound of the shock wave produced by the rapid heating and cooling of the air near the lightning bolt. The air in the channel of a lightning strike can reach temperatures higher than 50,000° Fahrenheit.
Location	Lightning can strike 10 miles out from the rain column, and lightning deaths often occur under a clear sky ahead of the storm. This is largely because people wait until the last minute to seek shelter – not fully comprehending the behavior and true danger of lightning. Lightning affects the entire Planning Area.
Extent	Lightning can be measured in a variety of ways: lightning flash frequency, flash intensity, and lightning impacts. One method the Planning Area uses is VAISALA’s free lightning explorer map, pictured in the hazard information section. Additional methods include the NWS Lightning Activity Level (LAL).
Impact	The Planning Area is subject to frequent thunderstorms and convective weather patterns, and is therefore regularly exposed to lightning, particularly in the spring, summer and autumn months. Anyone outside during a thunderstorm is exposed to and at risk from lightning. All structures and buildings in Comanche County are equally at risk of lightning-caused fires and damages. A bolt of lightning can explode walls of brick and concrete and cause fires to ignite within county facilities and those of its participating jurisdictions. Trees are particularly vulnerable, acting as natural conductors. Buildings are vulnerable to “side flashes” if a lightning strike jumps from a tree to a county facility, damaging both.

Extent

The Comanche County Planning Area utilizes the National Weather Service Lightning Activity Level to assess and communicate the level of lightning activity in a particular area, aiding in the issuance of timely warnings and advisories to protect public safety during thunderstorms. The Comanche County Planning Area can experience all the levels identified in the LAL Chart.

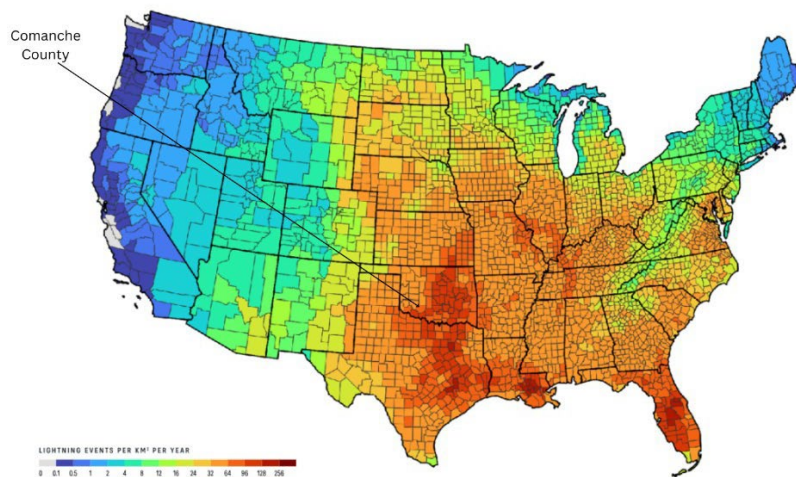
Lightning Activity Level (LAL)	
Is a scale which describes lightning activity. Values are labeled 1-6:	
LAL 1	No thunderstorms
LAL 2	Isolated thunderstorms. Light rain will occasionally reach the ground. Lightning is very infrequent, 1 to 5 cloud to ground strikes in a five minute period.
LAL 3	Widely scattered thunderstorms. Light to moderate rain will reach the ground. Lightning is infrequent, 6 to 10 cloud to ground strikes in a 5 minute period.
LAL 4	Scattered thunderstorms. Moderate rain is commonly produced. Lightning is frequent, 11 to 15 cloud to ground strikes in a 5 minute period.
LAL 5	Numerous thunderstorms. Rainfall is moderate to heavy. Lightning is frequent and intense, greater than 15 cloud to ground strikes in a 5 minute period.
LAL 6	Dry lightning (same as LAL 3 but without rain). This type of lightning has the potential for extreme fire activity and is normally highlighted in fire weather forecasts with a Red Flag Warning.

Lightning density is the number of lightning events per square kilometer. Lightning density is calculated by dividing the number of lightning by the area.

Previous Occurrences

There were four documented instances of damaging Lightning Strikes in addition to anecdotal information regarding localized lightning strike impacts between 2000 and 2023 reported in Comanche County. These include grassfires, power outages, and hay bale fires which were a result of lightning strikes which occurred concurrently with Strong Thunderstorms. On average, the Comanche County Planning Area experiences 64-96 lightning occurrences per square kilometer, with Oklahoma as a whole experiencing over 14 million lightning occurrences in a calendar year. From 2016-2021, the Comanche County Planning Area saw anywhere from 64 to 96 lightning events per square kilometer. In 2022, the Comanche County Planning Area saw anywhere from 32 to 64 lightning events per square kilometer.

Total lightning density per county 2016–2021

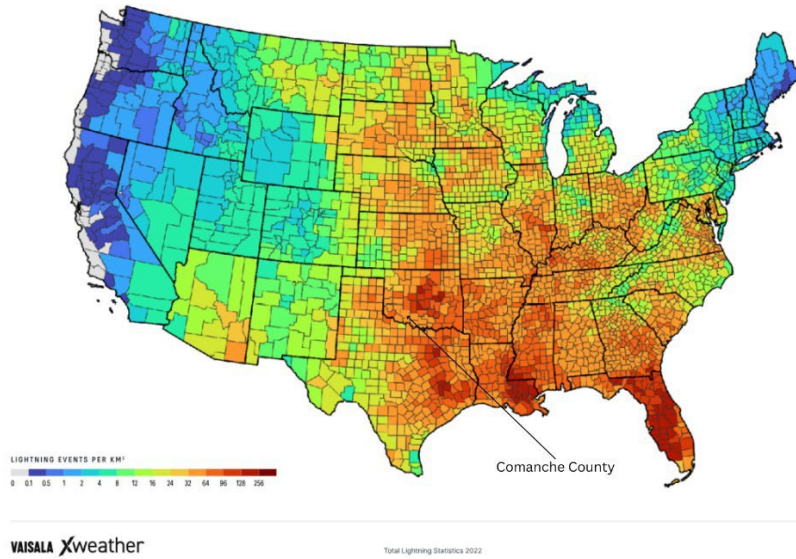


VAISALA  weather

Total Lightning Statistics 2022

© Vaisala 2023

Total lightning density per county 2022



10/22/2000	Significant flash flooding and 6 tornadoes, mostly small, weak and short-lived, developed on the 22nd, across a 35-mile-wide band from near Frederick in southwest Oklahoma northeastward to near Chandler in central Oklahoma. Rainfall amounts in this band averaged 4 to 8 inches. Anadarko in Caddo County received 10 inches, which classifies as a 250-year rain event. Record-like flooding developed in some areas, particularly across southern Caddo and Grady Counties, from near Apache and Anadarko to near Chickasha. Lightning struck an insulator on West Gore Blvd. and 67th Street causing a power outage to about 1100 homes.
1/16/2001	Lightning struck the ground near a group of 34 soldiers training at the East Range, sending 5 of them to the hospital for treatment.
9/20/2023	A late summer/fall storm system moved through the area bringing some high winds, rainfall, and lightning. A Lightning Strike on the PSO substation resulted in a widespread power outage which impacted over 20,000 residents in Comanche County and City of Lawton. The power outage lasted just over 24 hours.
10/4/2023	Severe Thunderstorms moved across the County producing significant heavy rainfall and lightning. Three separate lightning strikes were reported to have started small grassfires near Meers Porter Hill Road and US 62, SW Flower Mound and SW Bishop Road, and SE New Hope and Logue Chapel Road. All were quickly extinguished by heavy rainfall.

The number of previous occurrences is difficult to quantify other than what has been directly reported and exists within articulable databases. However, based upon knowledge and experience, the Planning Area is able to correlate the occurrence of lightning strikes

with the occurrence of Strong Thunderstorms. It was identified indirectly that most of the impactful lightning strikes occurred during thunderstorms by using the Oklahoma Lightning Mapping Array, NOAA National Center for Environmental Information Severe Weather Data Inventory, and the NOAA Storm Events Database.

Probability


The probability of Lightning Events in the Planning Area is High.

High Winds

Description	High Wind events are associated with severe thunderstorms and can accompany tornadoes and downbursts. Winds can be called straight-line with speeds reaching 58 MPH or more. Downdraft winds are small columns of air that sink quickly to the ground. Microbursts (less than 4 kilometers wide) and macrobursts (more than 4 kilometers wide) can also occur with or without precipitation.
Location	The entire Planning Area is affected by High Winds.
Extent	The Beaufort Scale below is used to measure and categorize wind speeds. The Planning Area Can experience any category of wind speed on the chart below.


Beaufort Wind Chart – Estimating Wind Speeds

Beaufort Wind Chart – Estimating Winds Speeds				
Beaufort Number	MPH		Terminology	Description
	Range	Average		
0	0	0	Calm	Calm. Smoke rises vertically.
1	1-3	2	Light air	Wind motion visible in smoke.
2	4-7	6	Light breeze	Wind felt on exposed skin. Leaves rustle.
3	8-12	11	Gentle breeze	Leaves and smaller twigs in constant motion.
4	13-18	15	Moderate breeze	Dust and loose paper is raised. Small branches begin to move.
5	19-24	22	Fresh breeze	Smaller trees sway.
6	25-31	27	Strong breeze	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult.
7	32-38	35	Near gale	Whole trees in motion. Some difficulty when walking into the wind.
8	39-46	42	Gale	Twigs broken from trees. Cars veer on road.
9	47-54	50	Severe gale	Light structure damage.
10	55-63	60	Storm	Trees uprooted. Considerable structural damage.
11	64-73	70	Violent storm	Widespread structural damage.
12	74-95	90	Hurricane	Considerable and widespread damage to structures.

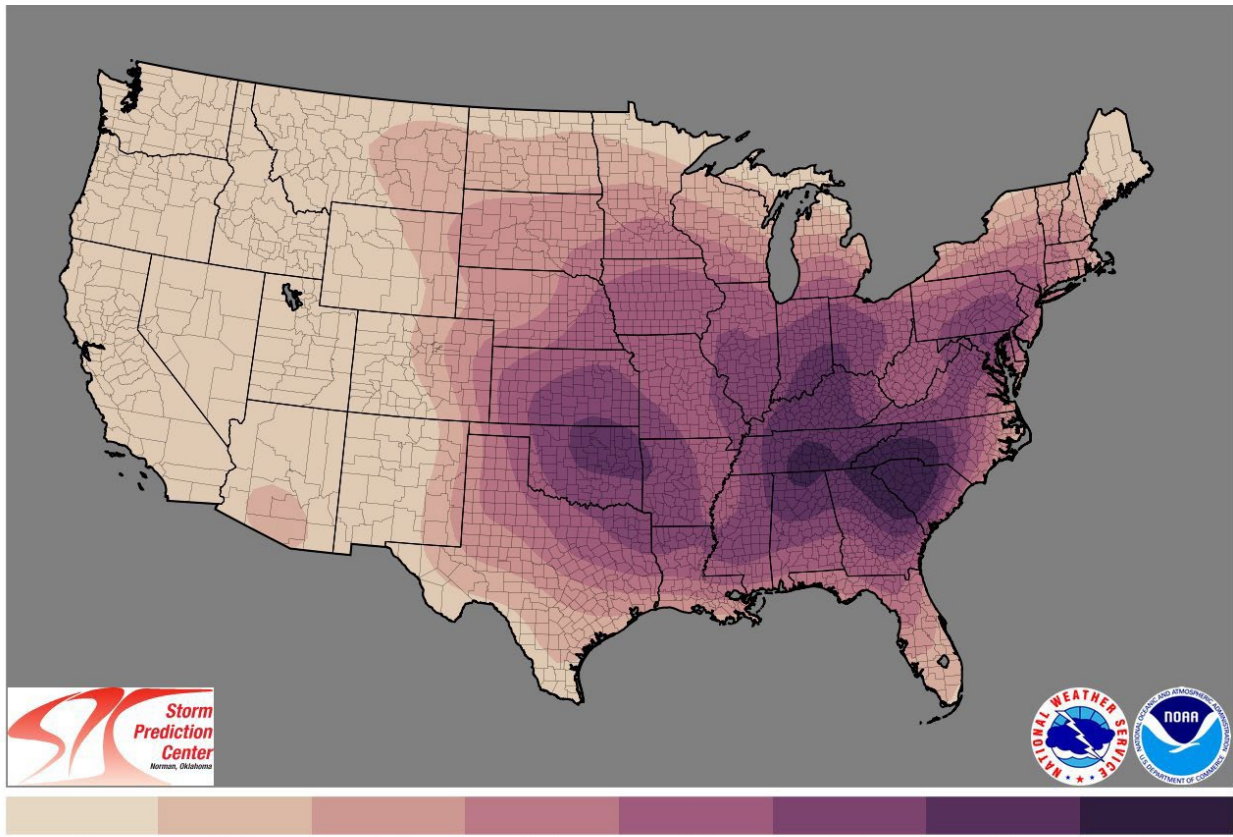


NOAA
NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

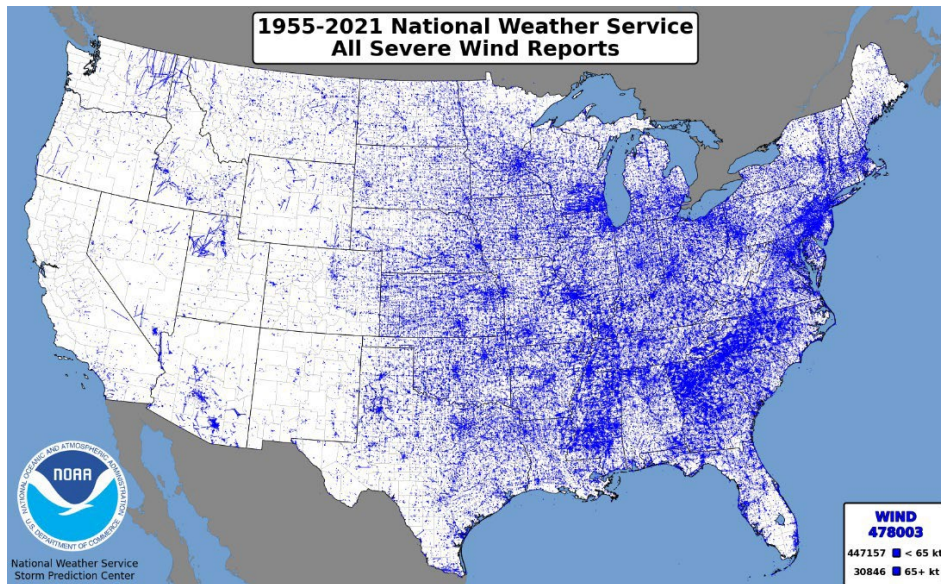
Webpage: <http://www.weather.gov/iwx>
Twitter: @nwsiwx
Facebook: NWSNorthernIndiana



NATIONAL WEATHER SERVICE



Mean Number of >50-knot & <64-knot Wind Days per Year
Within 25 Miles of a Point
1986 - 2015



Previous Occurrences (2013-2023)

There were 117 events of High Winds/Straight-line Winds reported in Comanche County between 2013 and 2023. These events range in magnitude from 50 knots to 90 knots (57 mph to 103 mph).

5/18/2013 52 kts.	A classic late Spring severe weather setup unfolded over the southern Plains. Rich low-level moisture and very warm temperatures contributed to high instability, while an incoming shortwave trough yielded deep-layer shear sufficient for supercells during the afternoon. Owing to the large spread between surface temperatures and dew points over most of Oklahoma, tornadoes did not occur, but significant hail was common with the storms early in their life cycles over far western Oklahoma. Later in the evening, storm outflows consolidated in some cases to produce more linear convection, transitioning the reports toward severe wind gusts farther east.
6/8/2013 54 kts.	An extensive squall line initially stretched from southern Nebraska to the Texas Panhandle during the late afternoon and moved southward over the course of the evening and early morning hours. The portion which affected western Oklahoma was most intense, particularly as a bowing segment appeared in southwest Oklahoma. Several reports of severe wind gusts were received. Lawton ASOS recorded gusts to 62 mph at 11:04pm LST and 11:12pm LST.
8/15/2013 61 kts.	A potent upper-level low pressure system combined with an unseasonably moist and unstable airmass across Oklahoma to promote severe thunderstorms. Storms initially developed over western Oklahoma and migrated southward overnight, with sporadic damaging wind and large hail reports from the Kansas Oklahoma border southward to the Red River. Persistent heavy rainfall also led to flash flooding in some areas. Several 6-to-8-inch diameter tree limbs down. Four power poles snapped at base. Four- and five-inch diameter tree limbs down at Sterling High School.
8/15/2013 71 kts.	A potent upper-level low pressure system combined with an unseasonably moist and unstable airmass across Oklahoma to promote severe thunderstorms. Storms initially developed over western Oklahoma and migrated southward overnight, with sporadic damaging wind and large hail reports from the Kansas Oklahoma border southward to the Red River. Persistent heavy rainfall also led to flash flooding in some areas. Commercial building roof collapsed. Several carpports blown away with 3 utility poles snapped.
6/6/2014 51 kts.	A stalled front extended from the Texas Panhandle into northern Oklahoma. As easterly upslope winds strengthened during the evening hours of the 6th, scattered storms developed over the Panhandles and moved southeastward. A complex of storms intensified, aided by a strong low-level jet, as it moved across western Oklahoma late on the 6th into the morning hours of the 7th. Numerous occurrences of severe wind and hail accompanied this complex as it moved across Oklahoma.
10/12/2014 52 kts.	A potent fall storm system moved out of the Rockies and across the Southern Plains during the late afternoon and evening hours of the 12th. A strong surface low and Pacific front served as the focus for widespread thunderstorm development. Abundant moisture and strong wind shear were highly supportive of severe thunderstorms. Storms developed initially over western Oklahoma and moved eastward through the evening. Initial storms produce wind gusts of 70 to 85 mph. Storms eventually merged into a couple of north south lines, but the intensity of the storms diminished after sunset.
3/31/2015 56 kts.	An abundantly moist and unstable atmosphere was in place during the late afternoon and evening hours of the 31st. As a weak upper storm system moved

	through the region, the weak capping inversion was lifted, allowing for scattered to numerous severe thunderstorms. Limbs blown off trees.
5/6/2015 56 kts.	A potent Spring storm system took shape across the Southern and Central Plains. Strong surface cyclogenesis took shape during the day, allowing ample moisture to return northward with strong southerly flow. At the same time, a strong upper-level shortwave trough allowed strong mid-level westerlies to overspread much of the Plains region. With large instability and wind shear, the stage was set for widespread severe storm development. Storms initiated within the open warm sector ahead of the dryline. The first storm developed near Lawton and moved northeast along I-44 into parts of central Oklahoma, resulting in several tornadoes and large hail. Additional supercells spawned tornadoes across northern Oklahoma, and the slow-moving nature of storms lead to several occurrences of flash flooding. Storms continued well into the night. Several trees snapped.
5/16/2015 85 kts.	With an upper low traversing the region, a cold front stationed over the panhandles, and a developing dryline, storms developed out in the panhandles early on the 16th and made their way eastward across Oklahoma through the day. Toward evening, when the severe weather occurred, the front surged eastward with a line of storms forming along it. A swath of wind damage occurred associated with the rear-flank downdraft of the storm that produced the tornado near Meers. A barn was destroyed about 2 miles east of Meers, and damage to homes and trees was observed along Shroyer Road to the northeast.
5/16/2015 61 kts.	With an upper low traversing the region, a cold front stationed over the panhandles, and a developing dryline, storms developed out in the panhandles early on the 16th and made their way eastward across Oklahoma through the day. Toward evening, when the severe weather occurred, the front surged eastward with a line of storms forming along it. Trees downed, though not very large.
11/17/2015 63 kts.	A line of storms formed along an eastward moving front overnight on the 16th and continued into the morning of the 17th. Several of these storms produced severe winds, and a few produced tornadoes.
4/10/2016 78 kts.	Storms formed out ahead of a cold front and dryline on the afternoon of the 10th. Overnight a low-level jet formed, and storms began to congeal into a line headed eastward. This system left behind a few outflow boundaries which helped scattered storms to form on the 11th before the front finally surged out of the area. Winds caused fence and tree damage and blew out a garage door. Storm chaser reported power lines were down in Geronimo and sheet metal debris on the side of the road. Large trees and fencing were blown down and a travel trailer was blown over.
4/26/2016 65 kts.	The 26th began with a few isolated storms forming out ahead of the dryline and becoming severe. Later in the afternoon, the dryline surged east and storms fired along the boundary. These storms quickly became severe and gradually merged into a line as they moved eastward through the evening. Measured at a Citizen Weather Observer Program (CWOP) station.
5/8/2016 56 kts.	With the help of an upper low, storms fired along the dryline in western Oklahoma on the 8th, with some of them becoming severe and producing flash flooding. Winds estimated based on 2/3-inch branches being snapped. A high-tension utility pole was knocked over/snapped.
5/12/2016 61 kts.	Severe storms formed overnight on the 11th into the 12th behind a front as an upper-level trough moved through the area. Power lines and power poles were downed. Roof damage was also reported at the elementary school. One mobile home was partially destroyed, and another was pushed off its foundation.
2/19/2017 60 kts.	A line of storms formed out ahead of a cold front across Oklahoma on the evening of the 19th and moved eastward. Measured at the army air station.

5/16/2017 59 kts.	Storms formed along the dryline in the Texas panhandle on the afternoon of the 16th before moving eastward. As a cold front caught up to the storms, convection increased, and storms began to form into a line. This line continued eastward across the state overnight into the 17th.
7/3/2017 58 kts.	An area of storms formed during the evening of the 3rd in the vicinity of a warm front across northern Oklahoma, before traversing the state southeastward.
8/16/2017 52 kts.	A line of storms formed along a cold front on the afternoon of the 16th and moved southeast through Oklahoma and western north Texas overnight into the 17th. Power pole downed. Several shingles were blown off roof along with several 1-to-2-inch tree limbs down.
9/17/2017 56 Kts.	An area of storms developed near a stationary front in the southern Texas panhandle on the afternoon of the 17th, then moved east into southwest Oklahoma through the evening.
10/21/2017 52 Kts.	Storms formed along a cold front during the afternoon of the 21st, eventually forming a line. Through the evening storms swept eastward through Oklahoma and western north Texas. Significant hail, severe winds, and a few short-lived tornadoes as well as some minor flooding were reported with these storms. Power poles partially blown down. Time estimated by radar.
6/22/2018 56 Kts.	An area of storms that formed off the caprock came into western Oklahoma early on the 22nd, eventually spreading over much of Oklahoma (though only one severe gust was produced). A second area came out of Kansas, affecting mainly northwest Oklahoma and producing a few severe gusts that morning. Several camping trailers were damaged by thunderstorm wind gusts. Downed power lines also reported in the same area.
7/30/2018 54 Kts.	Late on the 29th into the early hours of the 30th, an MCS came down out of Kansas and traversed most of Oklahoma and western north Texas northwest to southeast with some impressive long-lived wind gusts. Citizen's weather observation station F2394.
8/17/2018 56 Kts.	Storms formed in the vicinity of a stalled front on the afternoon of the 17th across north Texas into southern Oklahoma. Large tree limbs down in Chattanooga. Time estimated based on radar.
12/26/2018 54 Kts.	A strong storm system with unseasonable moisture brought heavy rainfall and high winds to the area. Power outages reported on the west side of Lawton, OK. Measured at Southeast 60TH and Woodlawn in southeast Lawton, OK.
12/26/2018 62 Kts.	A strong storm system with unseasonable moisture brought heavy rainfall and high winds to the area.
6/15/2019 61 Kts.	A dryline and a cold front combined to produce numerous severe thunderstorms on the 15th. Large trees damaged or uprooted, light structural damage.
6/18/2019 56 Kts.	Isolated thunderstorms produced scattered hail across northern Oklahoma while a line of thunderstorms produced extensive severe wind across southern Oklahoma on the 18th into the early morning on the 19th. Later on, the 19th, large hail was reported with isolated thunderstorms across northern Oklahoma. Several large tree branches downed along I-44 and wedged into fencing alongside of the road. Time estimated from radar.
6/19/2019 61 Kts.	Isolated thunderstorms produced scattered hail across northern Oklahoma while a line of thunderstorms produced extensive severe wind across southern Oklahoma on the 18th into the early morning on the 19th. Later on the 19th, large hail was reported with isolated thunderstorms across northern Oklahoma. From station FW2394 Lawton.

5/8/2020 55 Kts.	A very intense supercell produced a long swath of very large hail reports across portions of western north Texas on the evening of the 7th. Later, line of thunderstorms swept across much of Oklahoma producing wind and hail.
8/30/2020 52 Kts.	A line of storms moved across southwest Oklahoma and western north Texas during the early morning of the 30th, producing severe wind and severe hail reports. Ten-inch diameter tree branch down.
6/26/2021 54 Kts.	A very moist airmass and slow-moving storms led to a multi-day heavy rainfall event for much of the area. 6 to 8+ inches fell in a swath from southwest OK northeast along the I-44 corridor. Several storms also produced isolated severe weather with hail and strong winds reported. Measured with handheld anemometer. Also, various small limbs and shingles scattered throughout the neighborhood.
7/10/2021 61 Kts.	A line of thunderstorms originating across eastern Kansas built southwestward into northern and central Oklahoma during the evening of the 10th, leading to numerous severe wind, hail and flood reports. Damage to roof of a post office. Estimated 65 to 70 mph wind gust. Power lines also went down.
10/10/2021 71 Kts.	An unseasonably warm and moist airmass was in place across the region ahead of a powerful upper wave moving out of the 4 corners region. This led to the development of numerous severe thunderstorms across Oklahoma and Texas during the afternoon and evening of the 10th. Several tornadoes were reported, along with hail larger than baseballs that impacted Norman, OK for the second time in six months, leading to millions of dollars in damages once again to homes, cars, and businesses. An outbuilding was destroyed near SH-115 and North Drive to the northwest of Meers.
2/26/2023 74 Kts.	A powerful storm system, with highly anomalous magnitudes of wind shear and moisture for late February, impacted the forecast area on the evening of the 26th. A broken line of severe thunderstorms developed across the eastern Texas Panhandle/far western Oklahoma and quickly swept through much of the forecast area. Widespread wind damage, including gusts near 90 mph, along with a record number of tornadoes (13) for February occurred. Several reports of large hail were also received. Behind the line of thunderstorms, a tight pressure gradient and strong westerly low-level jet allowed widespread 50-60 mph wind gusts to continue through the late evening hours.
5/6/2023 72 Kts.	A low-amplitude shortwave trough, embedded within broad southwesterly flow aloft, moved across the Southern Plains. Strong instability and sufficient wind shear lead to numerous severe thunderstorms across southwest Oklahoma. Large hail and damaging wind occurred. Strong non-thunderstorm winds were also observed across southwest into south-central Oklahoma due to the development of a wake low behind thunderstorms. A television storm chaser measured an 81-mph wind gust south of Lawton. Report location is estimated.
6/15/2023 61 Kts.	The approach of an anomalously strong (for mid-June) upper-level disturbance lead to a widespread severe weather outbreak across portions of the forecast area, especially along and west of the I-35 corridor, during the afternoon into late evening of the 15th. This included the development of numerous supercell thunderstorms across the area. Despite relatively high cloud bases, strong low-level instability and sufficient low-level wind shear aided tornadic outcomes, with eleven tornadoes confirmed across western into southern Oklahoma. Numerous reports of large to very large hail, including reports of 4-inch hail in Lawton, and wind damage were received across area. Scattered tree and power line damage reported throughout the city of Lawton. Some of the more significant reports are listed separately.
6/15/2023 65 Kts.	The approach of an anomalously strong (for mid-June) upper-level disturbance lead to a widespread severe weather outbreak across portions of the forecast area, especially along and west of the I-35 corridor, during the afternoon into late evening

	of the 15th. This included the development of numerous supercell thunderstorms across the area. Despite relatively high cloud bases, strong low-level instability and sufficient low-level wind shear aided tornadic outcomes, with eleven tornadoes confirmed across western into southern Oklahoma. Numerous reports of large to very large hail, including reports of 4-inch hail in Lawton, and wind damage were received across area. Outermost layer of roof decking of a two-story apartment was blown off due to thunderstorm wind. Time is radar estimated.
6/15/2023 90 Kts.	The approach of an anomalously strong (for mid-June) upper-level disturbance lead to a widespread severe weather outbreak across portions of the forecast area, especially along and west of the I-35 corridor, during the afternoon into late evening of the 15th. This included the development of numerous supercell thunderstorms across the area. Despite relatively high cloud bases, strong low-level instability and sufficient low-level wind shear aided tornadic outcomes, with eleven tornadoes confirmed across western into southern Oklahoma. Numerous reports of large to very large hail, including reports of 4-inch hail in Lawton, and wind damage were received across area. A spotter measured a wind gust of 103 mph just southeast of the intersection of Sheridan Road and Lee Blvd. Numerous power poles and trees were damaged near this intersection.
7/13/2023 61 Kts.	Despite an upper ridge extending from the Desert Southwest into the Southern Plains, scattered diurnal storms developed during the evening of the 13th. While weak magnitudes of organizing wind shear existed across the area, storm organization occurred along the composite outflow from initial storms across western-north Texas into southwestern Oklahoma. Damaging downburst wind events and a few reports of large hail were received with the strongest storms. Relayed image showing 6 power poles snapped or blown down just west of the Southeast Lee Boulevard and Southeast 45th Street intersection. Time is radar estimated. Report of two power poles blown down in Chattanooga. Time is radar estimated.

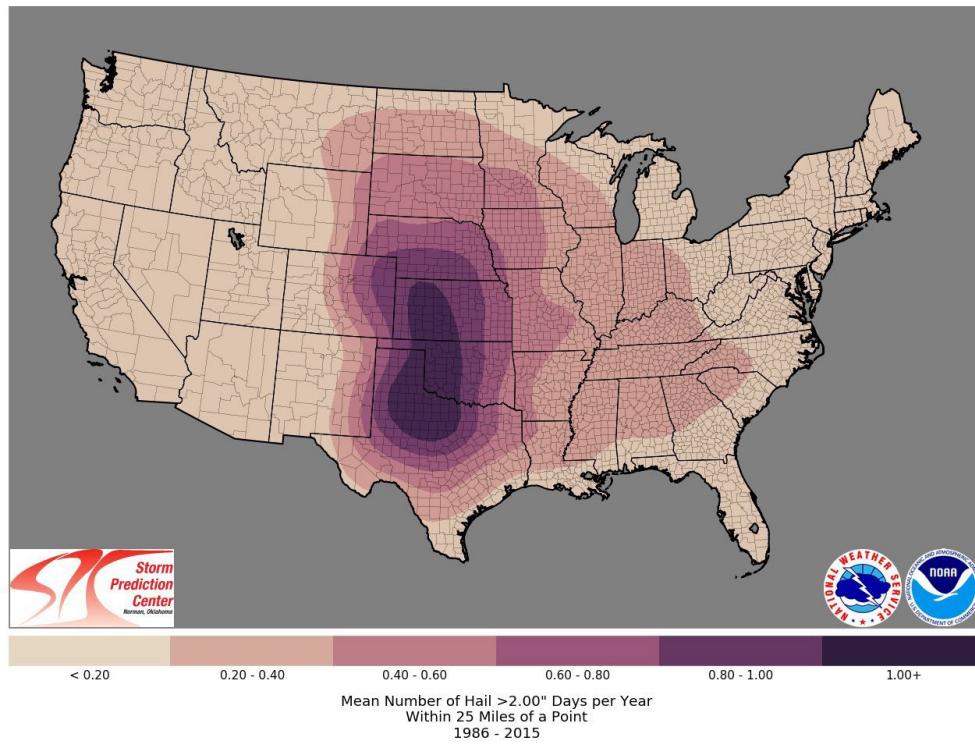
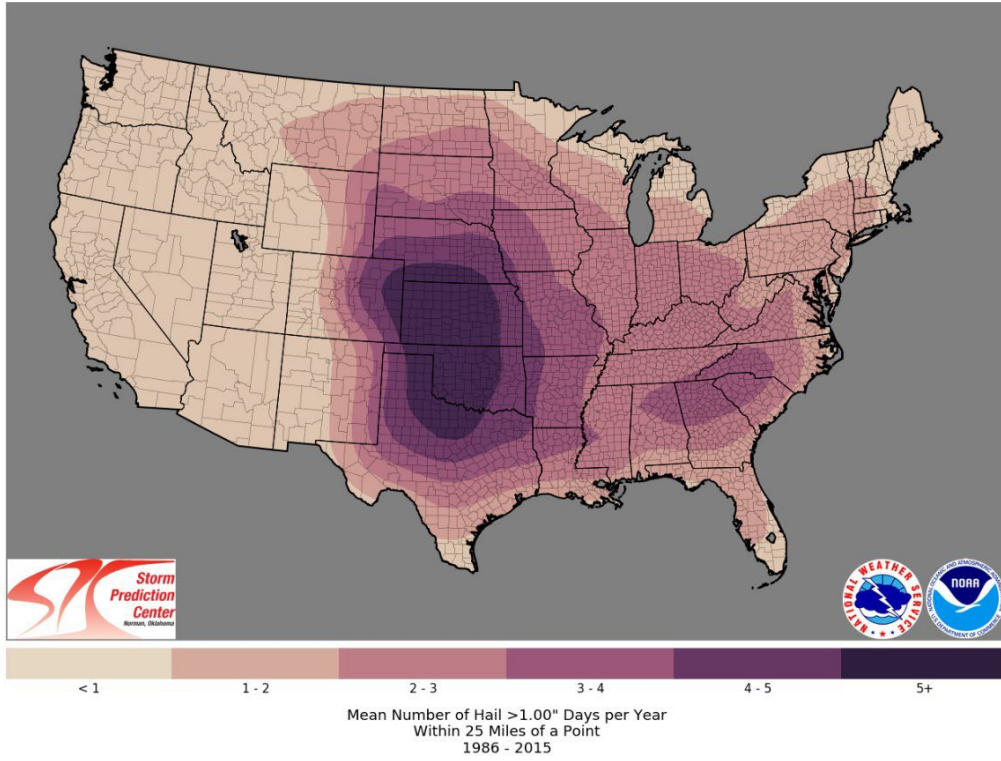
Probability

The probability of High Winds associated with Severe Thunderstorms in the Planning Area is High.

Hail	
Description:	Hail is a frozen form of precipitation that occurs when precipitation has been swept back into the clouds by an updraft. Hailstones larger than the size of a quarter can result in thunderstorms with powerful updrafts. Hail is most likely to accompany supercell storms with a sustained rotating updraft.
Location:	Oklahoma experiences an average of 602 hailstorms each year with hailstones measuring at least one inch in diameter. As indicated in Oklahoma, including the Planning Area, averaged 12 hail days with damaging hail per year, over a 20-year period. All populations, structures, and agricultural areas in the Planning Area are at risk.
Extent:	Hailstones are typically measured by their diameter. The damages expected from a hail event is a function of the diameter of the hailstones and wind speed, or velocity. Hailstorms are usually considered “destructive” when hail reaches 1.75 inches in diameter and is accompanied by high winds. When hailstones reach such dimensions, they can be extremely dangerous to property, agriculture and people caught outside, without shelter. The Planning Area uses the Hail Description Scale below to categorize hail and can experience the full range of hail sizes on that scale.

Hail Diameter/Description Scale

Hail Diameter (Inches)	Description	Hail Diameter (Inches)	Description
1/4"	Pea	1 3/4"	Golf Ball
1/2"	Small Marble	2"	Hen's Egg
3/4"	Penny or Large Marble	2 1/2"	Tennis Ball
7/8"	Nickel	2 3/4"	Baseball
1"	Quarter	3"	Teacup Size
1 1/4"	Half Dollar	4"	Grapefruit
1 1/2"	Walnut or Ping Pong Ball	4 1/2"	Softball



Previous Occurrences

There were 245 hail events reported between January 2012 and December 2023. In June 2023, a significant hail storm occurred in Comanche County with a documented cost of well over \$2 million dollars and resulted in the county receiving both an Individual Assistance and Public Assistance Federal Disaster Declaration (DR-4721-OK). Hail in excess of 4” in diameter was reported widely across the City of Lawton.

Hail Storm Events, 2012-2023		
`From the NOAA National Centers for Environmental Information https://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=40,OKLAHOMA		
Year	# Of Hail Storm Events	Hail Size (Inch)
2012	14	0.75-2.75
2013	62	1.00-2.75
2014	5	1.00-2.25
2015	16	1.00-2.75
2016	16	1.00-4.00
2017	6	0.75-3.00
2018	4	0.75-1.00
2019	20	0.75-1.75
2020	36	0.75-3.00
2021	6	0.88-2.75
2022	8	1.00-1.50
2023	45	0.75-4.00

Probability

The probability of hail in the Planning Area is High.

Climatological Influence on Severe Thunderstorm Hazard

Severe thunderstorms, including tornadoes, hail, high winds, and lightning, pose significant risks to Comanche County, Oklahoma, influenced by a blend of climatological, population, and ecological factors specific to the region. Comanche County's location in southwest Oklahoma exposes it to climatic conditions conducive to severe weather, with atmospheric instability and moisture providing the ingredients for intense thunderstorm development. The county's population centers, including Lawton and surrounding communities, increase the potential for human exposure to severe weather impacts, underscoring the need for robust warning systems and emergency preparedness initiatives. Moreover, the county's diverse ecological makeup, encompassing grasslands, shrublands, and urban areas, can influence storm behavior and impact patterns. The increasing frequency and intensity of severe thunderstorms highlight the importance of community resilience efforts and effective disaster response strategies to protect lives and property in Comanche County.

Total Hazard Vulnerability and Impact

The Planning Area experiences hail due to the strong storm systems which develop and pass through the region. Severe Thunderstorms bring any number of cascading impacts in addition to the identified sub-hazards. Tornadoes and High Winds are capable of causing destruction to homes, businesses, and utility infrastructure, which can result in direct or secondary injury, death, and economic impact. Lightning can have direct impacts to outdoor events such as school sporting events, concerts, rodeos, as well as outdoor commercial activities such as farming, ranching, and welding. Secondary impacts include the ignition and rapid spread of grassfires and structure fires, direct strikes to utility infrastructure such as power poles and substations. Hail can have significant economic impact as it can damage vehicles and crops, break windows, shred roof coverings, and injure livestock.

Jurisdiction	Vulnerability	Impact
Comanche County	Interstate 44 bisects Comanche County north – south and has considerable daily commuter traffic. Ft. Sill Army Installation also brings a significant number of residents who are not familiar with the weather patterns and hazards associated with severe thunderstorms.	At any given time, there are a large number of motorists who are exposed to all hazards of severe thunderstorms, and oftentimes will seek shelter under overpasses, creating hazardous travel conditions, which can lead to traffic collisions which puts Emergency Service personnel at risk.
City of Lawton	The City of Lawton does not have covered parking for city owned vehicles or employee-owned vehicles.	Lack of available shelter options both externally and internally can disrupt city functions in addition

	<p>There are no public tornado shelters within the City Limits, which places a large number of the population at risk if storms occur during daylight hours. Approximately 19% of the population are socially vulnerable due to living below the poverty level.</p>	<p>to placing Emergency Service personnel at risk of injury. Damage to City vehicles can cause disruption of services to the City as well as create hardship for employees who may incur both financial loss and physical loss of a vehicle. Damage to roofs, siding, and vehicles in an already economically depressed population can cause a delay or lack of repairs.</p>
Lawton Public Schools	<p>Lawton Public Schools are vulnerable to hail due to the lack of hail resistant film on the facility windows. A lack of lightning detectors or shelters in outdoor fields can create hazards to attendees and staff.</p>	<p>A broken window can injure a faculty member or student during a hail event. Lightning can injure or cause death, and without adequate shelter, this exposes a large number of people to all risks associated with severe thunderstorms.</p>
City of Cache	<p>The City of Cache does not have covered parking for city owned vehicles or employee-owned vehicles.</p>	<p>Damage to City vehicles can cause disruption of services to the City as well as create hardship for employees who may incur both financial loss and physical loss of a vehicle.</p>
Cache Public Schools	<p>Cache Public Schools are vulnerable to hail due to the lack of hail resistant film on the facility windows. A lack of lightning detectors or shelters at outdoor fields can create hazards to attendees and staff.</p>	<p>A broken window can injure a faculty member or student during a hail event. Lightning can injure or cause death, and without adequate shelter, this exposes a large number of people to all risks associated with severe thunderstorms.</p>
Town of Chattanooga	<p>The Town of Chattanooga has older structures within the community. These older structures have weak roofs and siding, and no covered area for vehicles.</p>	<p>Damages to roofs, siding, and vehicles in an already economically depressed population can cause a significant delay in repairs or can result in a lack of adequate repairs.</p>

City of Elgin	The City of Elgin does not have covered parking for city owned vehicles or employee-owned vehicles.	Damage to City vehicles can cause disruption of services to the City as well as create hardship for employees who may incur both financial loss and physical loss of a vehicle.
Town of Faxon	The Town of Faxon is primarily a farming community. A hail event could damage crops and cause injury to livestock. Farmers and ranchers are economically vulnerable to hail events that cause damage to their fields and injury to their livestock.	A loss of farm and ranch revenue negatively affects Comanche County's economy. In the farming and ranching economy, it also affects secondary businesses that supply goods and services to agricultural businesses
Town of Fletcher	The Town of Fletcher does not have covered parking for city owned vehicles or employee-owned vehicles.	Damage to City vehicles can cause disruption of services to the City as well as create hardship for employees who may incur both financial loss and physical loss of a vehicle.
City of Geronimo	The City of Geronimo does not have covered parking for city owned vehicles or employee-owned vehicles.	Damage to City vehicles can cause disruption of services to the City as well as create hardship for employees who may incur both financial loss and physical loss of a vehicle.
Geronimo Public School	Geronimo Public Schools does not have covered parking for the school buses or transportation vehicles. This exposes the buses to damage due to a hail event.	This could result in a significant loss to the schools' capabilities, and their ability to operate at normal levels.
Town of Indianoma	The Town of Indianoma does not have covered parking for city owned vehicles or employee-owned vehicles.	Damage to City vehicles can cause disruption of services to the City as well as create hardship for employees who may incur both financial loss and physical loss of a vehicle.
Town of Medicine Park	Medicine Park has a very high tourist seasonal population and no public shelters available to those caught outside.	Large hail stones can cause serious injury as well as disrupt outside events and create mass chaos and panic, which can lead to economic injury and loss of public trust. The occurrence of tornadoes can also increase the

		number of injured which could cascade to local hospitals.
Town of Sterling	The Town of Sterling does not have covered parking for city owned vehicles or employee-owned vehicles.	Damage to City vehicles can cause disruption of services to the City as well as create hardship for employees who may incur both financial loss and physical loss of a vehicle.
Sterling Public Schools	Sterling Public Schools does not have covered parking for the school buses or transportation vehicles. This exposes the buses to damage due to a hail event.	This could result in a significant loss to the schools' capabilities, and their ability to operate at normal levels.

3.5.6 Extreme Heat

Description

Temperatures that hover 10 degrees or more above the average high temperature for the region are defined as extreme heat. Humid or muggy conditions, which add to the discomfort of high 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. Droughts occur when a long period passes without substantial rainfall. A heat wave combined with a drought is a very dangerous situation. A heat wave occurs when such conditions persist over long periods. A lack of nighttime cooling can exacerbate the conditions when community infrastructure fails to release ambient heat increases gained during the day.

According to the National Weather Service, heat is the number one weather-related killer in the United States. Despite the history of adverse effects, there is consensus that most of these deaths are preventable. Extreme heat can cause heart illnesses to develop among even the healthiest and most active individuals. Students and staff participating in outdoor summer school activities are particularly at risk. Heat also affects workforce capabilities. Outdoor maintenance workers should be monitored for heat exhaustion and heat stroke.

Extreme summer temperatures can also cause water shortages, increase fire hazards, and prompt excessive demands for energy.

Location

The entire Planning Area is affected by Extreme Heat

Extent

The Planning Area uses the Heat Index Scale below to classify Extreme Heat. The heat index illustrates how the human body experiences the combined effects of high temperature and humidity. It more accurately reflects what the body experiences than simply measuring the air temperature. The Heat Index Scale displays varying degrees of caution depending on the relative humidity combined with the temperature. The shaded zones on the chart indicate varying symptoms or disorders that could occur depending on the magnitude or intensity of the event. "Caution" is the first level of intensity where fatigue due to heat exposure is possible. "Extreme Caution" indicates that sunstroke, muscle cramps or heat exhaustion are possible, whereas a "Danger" level means that these symptoms are likely. "Extreme Danger" indicates that heat stroke or sunstroke are highly likely. The Planning Area can experience any heat index values within the Caution to the Extreme Danger categories.

NOAA's National Weather Service

Heat Index

Temperature (°F)

	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	130	136
45	80	82	84	87	89	93	96	100	104	109	114	119	124	130	137	
50	81	83	85	88	91	95	99	103	108	113	118	124	131	137		
55	81	84	86	89	93	97	101	106	112	117	124	130	137			
60	82	84	88	91	95	100	105	110	116	123	129	137				
65	82	85	89	93	98	103	108	114	121	128	136					
70	83	86	90	95	100	105	112	119	126	134						
75	84	88	92	97	103	109	116	124	132							
80	84	89	94	100	106	113	121	129								
85	85	90	96	102	110	117	126	135								
90	86	91	98	105	113	122	131									
95	86	93	100	108	117	127										
100	87	95	103	112	121	132										

Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity

- Caution
- Extreme Caution
- Danger
- Extreme Danger

Previous Occurrences

In Oklahoma, July is generally the hottest month of the year, closely followed by August. The NWS compiled a 106-year record of monthly and annual average temperatures in Oklahoma, and the Dust Bowl years of 1921, 1931, and 1936 show the highest average temperatures across a 12-month span for the past 100 years. 2012 recorded the most days with temperatures above 100°, which included multiple instances of 7-day streaks of 100° temperatures. 2023 was the second hottest year, with five separate Extreme Heat warnings issued by the National Weather Service, due to high temperatures combined with high relative humidity.

Climatological Influence on Extreme Heat Hazard

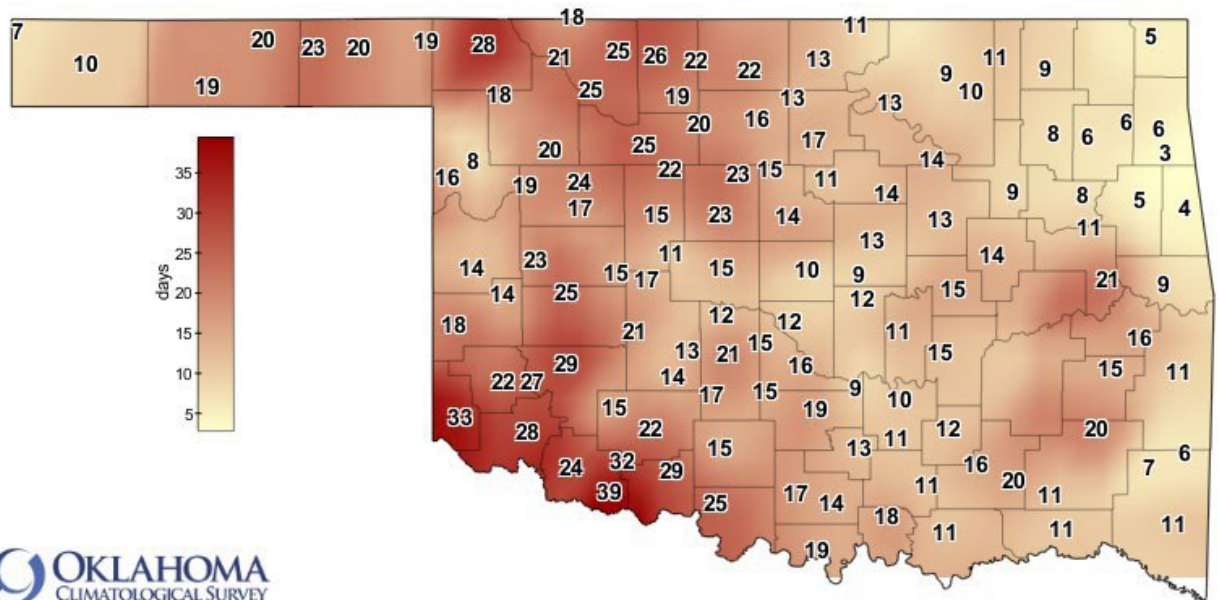
Extreme heat events in Comanche County, Oklahoma, are influenced by a combination of climatological, population, and ecological factors, shaping their probability of occurrence and impact. Comanche County's location in southwest Oklahoma exposes it to a semi-arid climate characterized by hot summers and limited precipitation, increasing the likelihood of extreme heat events. The county's population centers, including Lawton and surrounding areas, contribute to the urban heat island effect, amplifying temperatures and exacerbating heat-related risks, particularly among vulnerable populations. Ecologically, factors such as land cover and vegetation density can influence local temperatures and heat stress levels.

The escalating frequency and intensity of extreme heat events underscore the urgent need for community-wide heat resilience strategies and targeted interventions to protect vulnerable populations and mitigate the adverse health impacts of extreme heat in Comanche County.

Number of Days with Temperatures over 100° F, 2012-2023 for Comanche County.

Year	Days with Temperatures over 100°F
2012	40
2013	10
2014	15
2015	9
2016	12
2017	3
2018	12
2019	18
2020	6
2021	1
2022	34
2023	38

https://www.mesonet.org/index.php/past_data/station_monthly_summaries

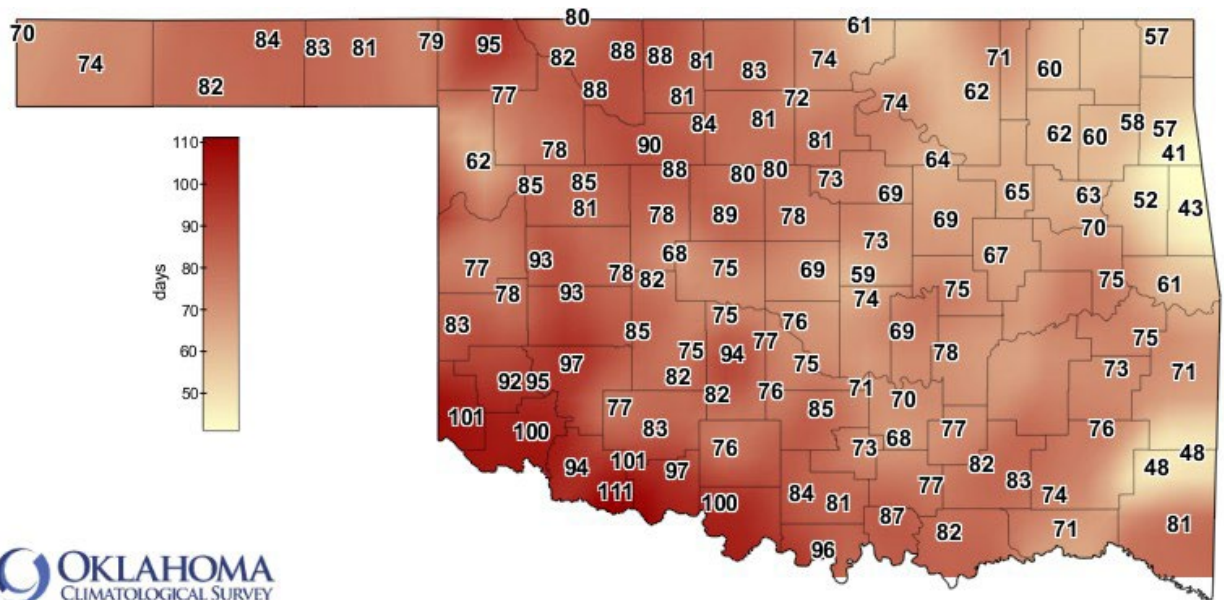


OKLAHOMA
CLIMATOLOGICAL SURVEY

Average Days Per Year with High Temp Above 100 °F

1991-2020

Calculated using data archived at OCS. Created 8:00:19 PM September 9, 2022 UTC. © Copyright 2022



Average Days Per Year with High Temp Above 90 °F

1991-2020

Calculated using data archived at CCS. Created 8:00:19 PM September 9, 2022 UTC. © Copyright 2022

Probability of Future Events

The probability of Extreme Heat occurrences in the Planning Area is high.

Vulnerability and Impact

Population

Heat kills by pushing the human body beyond its limits. Heat has consistently caused the highest number of fatalities, over all other hazards. Extreme heat can take its toll on all the populations of Comanche County, as even the most physically fit individuals can succumb to the effects of heat. However, certain segments of the population are at higher risk.

Young children, elderly people, and those who are sick, or overweight are more likely to become victims to extreme heat. Other conditions that can limit the ability to regulate temperature include fever, dehydration, heart disease, mental illness, poor circulation, sunburn, prescription drug use, and alcohol use.

According to the 2010 United States Census in Comanche County, persons aged 65 years of age and older make up 13.6% of the total population. Children under the age of 5 years account for 6.7% of the Comanche County population. 19.2% of the Comanche County population is living in poverty.

Also, even if cooling centers are set up, these populations may not be notified of their locations or have transportation to access them. This is especially concerning when heat waves continue for days and weeks, and when low-income populations consist of young children and elderly adults. Cooling assistance programs are made available to low-income populations enabling them to afford air conditioning during times of extreme heat; however, according to county representatives the programs never last long.

In Comanche County, cooling shelters are made available to the public during periods of extreme heat. These facilities are not available during the evening times; few people typically take advantage of the facilities. The County does not have a heat-action plan. Public education and outreach should continue to inform Comanche County populations of high heat impacts and resources available to them. The County should also consider drafting a heat emergency plan in preparation of future extreme heat events.

Secondary Hazards

Extreme high temperatures can impact utility infrastructure, including water treatment systems, wastewater treatment, and electricity. The majority of municipalities purchase their water from the City of Lawton in the form of purchased surface water. Lakes Ellsworth, Lawtonka, and Waurika are the three primary surface water sources which provide potable water to Comanche County. All three waterbodies have been significantly impacted by extended periods of drought, which oftentimes accompanies instances of extreme heat. The City of Lawton operates two wastewater treatment facilities and the majority of residences in unincorporated Comanche County utilize individual septic systems. During periods of extreme heat, providers of electrical service could experience any combination of the following challenges in meeting the needs of the jurisdictions: Failure of vital delivery components due to high heat, outages or brownouts due to peak loads, or insufficient field and/or office staff to effectively handle the workload. High temperatures and heavy loading can also cause transmission lines to sag into trees and flashover to ground, potentially resulting in widespread power outages.

Transportation Systems (Highways, Railway, Airports) – Although no significant vulnerabilities to Comanche County’s transportation systems during an extreme heat event have been identified, sustained high temperatures can result in damage to asphalt highways and railway tracks.

Emergency Services - Fire, Police and Medical services would all be similarly exposed to the effects of an extreme heat event. Fire and Medical services typically receive a higher volume of heat-related calls, taxing the response capabilities of both services. Fire and Police services would both be exposed to secondary effects of extreme heat by having to perform inherently stressful outdoor work under heavy clothing in high temperatures. While extreme heat is not an immediate threat to delivery of Police and Fire services, the demand for additional personnel could potentially increase the cost for these resources.

Jurisdiction-Specific Vulnerabilities to Extreme Heat

Jurisdiction	Vulnerability	Impact
Comanche County	Approximately 13% of Comanche County’s population is aged 65 and older and 16.5% of the total population under the age of 65 are living with a disability. Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Power outages or lack of accessibility to air conditioning can create dangerous situations for elderly residents who are more at risk for heat-related illness, injury, or death. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
City of Lawton	Approximately 19% of the population lives below the poverty level. This includes roughly 350 known individuals who are considered ‘unhoused’. Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in terms of the electrical costs.	Due to the nature of the unhoused population, knowledge of cooling centers located within the town often times is limited which leads to these individuals having a higher risk of heat-related injuries. Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
Lawton Public Schools	Lawton Public Schools are generally not in session during the summer months; however, they do have summer programs in which students and staff are at school facilities. Lawton Public School does not have backup cooling units.	Extreme heat without adequate cooling devices would create health risks to students and faculty. If there was an interruption to utility service during an extreme heat event, School events could be reduced or cancelled.

City of Cache	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
Cache Public Schools	Cache Public Schools are generally not in session during the summer months; however, they do have summer programs in which students and staff are at school facilities. Cache Public School does not have backup cooling units.	Extreme heat without adequate cooling devices would create health risks to students and faculty. If there was an interruption to utility service during an extreme heat event, School events could be reduced or cancelled.
Town of Chattanooga	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
City of Elgin	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
Town of Faxon	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an

		increase in high utility costs during an Extreme Heat event.
Town of Fletcher	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
City of Geronimo	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
Geronimo Public School	Geronimo Public Schools are generally not in session during the summer months; however, they do have summer programs in which students and staff are at school facilities. Geronimo Public School does not have backup cooling units.	Extreme heat without adequate cooling devices would create health risks to students and faculty. If there was an interruption to utility service during an extreme heat event, School events could be reduced or cancelled.
Town of Indianahoma	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
Town of Medicine Park	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in

	also in the terms of the electrical costs.	poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
Town of Sterling	Families living in poverty may not be able to afford the costs of air conditioning, in terms of the equipment costs and/or repairs, and also in the terms of the electrical costs.	Older residents and those in poverty are more vulnerable to heat-related illness and injury. Populations living in poverty, and those on a fixed income, often struggle with an increase in high utility costs during an Extreme Heat event.
Sterling Public Schools	Sterling Public Schools are generally not in session during the summer months; however, they do have summer programs in which students and staff are at school facilities. Sterling Public School does not have backup cooling units.	Extreme heat without adequate cooling devices would create health risks to students and faculty. If there was an interruption to utility service during an extreme heat event, School events could be reduced or cancelled.

3.5.7 High Hazard Potential Dam Failure

Description

A dam is an artificial barrier usually constructed across a stream channel to impound water. Timber, rock, concrete, earth, steel, or a combination of these materials may be used to build the dam. A dam failure is an uncontrolled release of water from a reservoir through a dam as a result of structural failures or deficiencies in the dam. In Comanche County, most dams are constructed of earth or concrete. Dams must have spillway systems to safely convey normal stream and flood flows over, around, or through the dam. Spillways are commonly constructed of non-erosive materials such as concrete. Dams should also have a drain or other water-withdrawal facility for control of the pool or lake level and to lower or drain the lake for normal maintenance and emergency purposes. A dam that impounds water in the upstream area is referred to as a reservoir. The amount of water impounded is measured in acre-feet. An acre-foot is the volume of water that covers an acre of land to a depth of one foot. As a function of upstream topography, even a very small dam may impound or detain acre-feet of water. Two factors influence the potential severity of a full or partial dam failure: the amount of water impounded, and the density, type, and value of development and infrastructure located downstream.

Dams assigned the **Low Hazard Potential** classification are those dams where failure or mis-operation results in no probable loss of human life and low economic and/or environmental losses. **Significant Hazard Potential** classification are dams that are often located in predominantly rural or agricultural areas but could be located in areas with population and significant infrastructure, and where failure or miss-operation results in no probable loss of human life but can cause serious economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns. **High Hazard-Potential** classifications are those dams where failure or mis-operation will probably cause loss of human life.

All owners of high hazard-potential dams are required by FEMA and OWRB to develop an Emergency Action Plan (EAP), in the event of a dam breach or failure. As part of the EAP, each owner must include tables of the impacted structures. A table of these impact areas are not available for Public Dissemination but are available per request and for official use only. The maps identify a Probable Max Flood (PMF) event of these dams and the probable impacts of the dam failure.

Hazard-Potential Classification	Risk Involved with Dam Failure	Inspection Frequency
High	probable loss of human life	annually, by a registered professional engineer
Significant	no probable loss of human life but can cause economic loss or disruption of lifeline facilities	every three years by a registered professional engineer
Low	no probable loss of human life and low economic loss	every five years

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Reference: National Engineering Manual (Part 503, subpart D - Dam Safety). The Oklahoma Water Resources Board coordinates the Oklahoma Dam Safety Program to ensure the safety of the six dams in Comanche County, especially those that could impact downstream life and property. The program requires inspections every five and three years for low and significant hazard structures, respectively. It requires annual inspection of the County's high-hazard potential dams. Because many of these dams are old structures and require periodic repair, the Oklahoma Water Resources Board requires submittal and subsequent approval of plans and specifications prior to dam modifications. The Natural Resource Conservation Service offers technical assistance in the construction of small farm ponds and related structures.

The Comanche County HMP Planning Area High Hazard Dams¹⁴

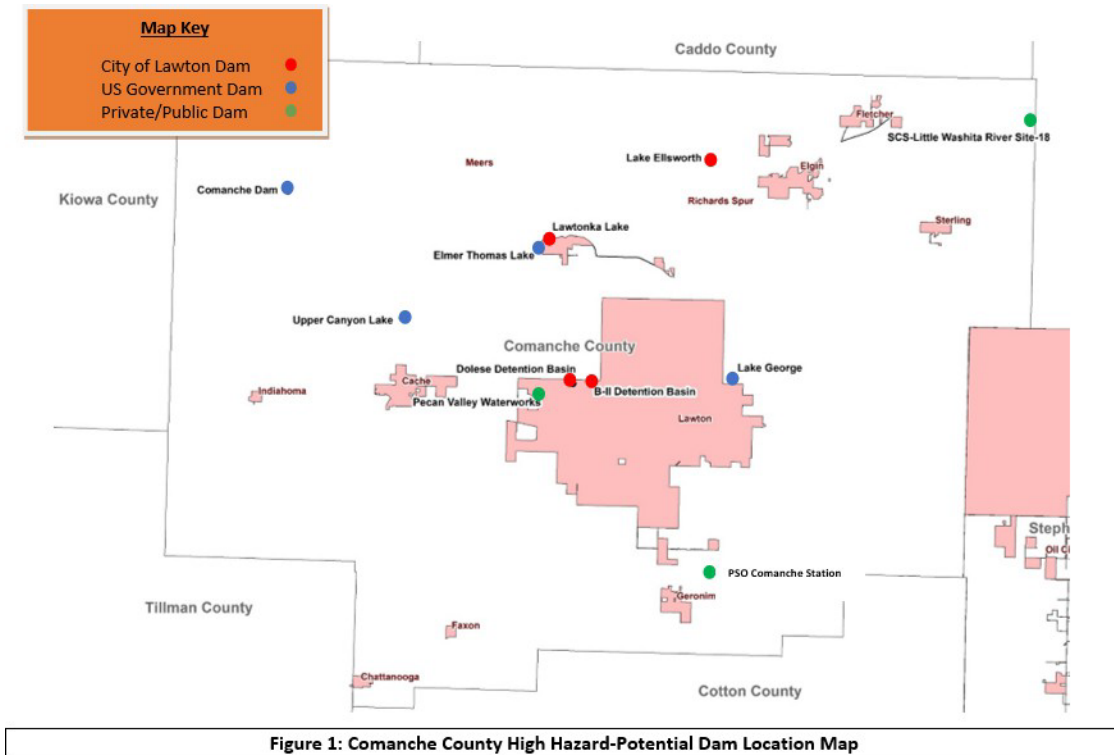
Comanche County High hazard potential dams	Jursidictions Impacted
B-II Detention Basin Dam (OK00060) 34°38'19.1"N 98°27'51.6"W	<ul style="list-style-type: none"> Location: Lawton Municipal Boundary Owner/Operator: City of Lawton Normal Capacity: 0 acre-feet, dry detention pond Max. Capacity: 213 acre-feet <i>This is a flood detention dam which totally drains between rain events.</i>
Dolese Detention Basin (OK00065) 34°38'06.6"N 98°28'49.8"W	<ul style="list-style-type: none"> Location: Lawton Municipal Boundary Owner/Operator: City of Lawton

¹³ <https://www.owrb.ok.gov/damsafety/index.php>

¹⁴ DOI-FWS - Department of Interior – Fish and Wildlife Service

	<ul style="list-style-type: none"> • Normal Capacity: 0 acre-feet, dry detention pond • Max. Capacity: 300 acre-feet • <i>This is a flood detention dam which totally drains between rain events.</i> 	
<p>Lake Ellsworth (OK00452) 34°47'39.91"N 98°21'52.87"W</p>	<ul style="list-style-type: none"> • Location: Lawton Municipal Boundary • Owner/Operator: City of Lawton • Normal Capacity: 59,470 acre-feet • Max. Capacity: 189,200 acre-feet 	<ul style="list-style-type: none"> • City of Lawton • City of Elgin • City of Geronimo • Town of Fletcher • Fort Sill Military Installation Cantonment • Unincorporated Comanche County
<p>Lake Lawtonka (OK00450) 34°44'09.91"N 98°30'12.15"W</p>	<ul style="list-style-type: none"> • Location: Lawton Municipal Boundary • Owner/Operator: City of Lawton • Normal Capacity: 54,689 acre-feet • Max. Capacity: 88,665 acre-feet 	<ul style="list-style-type: none"> • City of Lawton • Town of Medicine Park • City of Cache • Fort Sill Military Installation Cantonment • Unincorporated Comanche County
<p>Upper Canyon Lake (OK20507) 34°40'42.71"N 98°38'02.26"W</p>	<ul style="list-style-type: none"> • Location: Ft. Sill • Owner/Operator: Dept. of Defense • Normal Capacity: 49 acre-feet • Max. Capacity: 50 acre-feet 	<ul style="list-style-type: none"> • City of Cache • Town of Chattanooga • Unincorporated Comanche County
<p>Elmer Thomas Lake (OK00466) 34°43'47.13"N 98°30'33.16"W</p>	<ul style="list-style-type: none"> • Location: Wichita Mountain Wildlife Refuge • Owner/Operator: US Fish & Wildlife Service • Normal Capacity: 12,000 acre-feet • Max. Capacity: 14,000 acre-feet 	<ul style="list-style-type: none"> • City of Lawton • Town of Medicine Park • Unincorporated Comanche County
<p>Little Washita Site 18 (OK20771)</p>	<ul style="list-style-type: none"> • Location: Comanche County 	<ul style="list-style-type: none"> • Unincorporated Comanche County

<p>34°45'49.80"N 98°43'46.58"W</p>	<ul style="list-style-type: none"> • Owner/Operator: Comanche Co Conservation District • Normal Capacity: 162 acre-feet • Max. Capacity: 1,535 acre-feet 	
<p>Comanche Lake Dam (OK30003) 34°49'28.53"N 98°05'33.68"W</p>	<ul style="list-style-type: none"> • Location: Wichita Mountain Wildlife Refuge • Owner/Operator: US Fish & Wildlife Service • Normal Capacity: 100 acre-feet • Max. Capacity: 670 acre-feet 	<ul style="list-style-type: none"> • City of Cache • Town of Medicine Park • Unincorporated Comanche County
<p>Lake George (OK20503) 34°38'30.0"N 98°20'30.0"W</p>	<ul style="list-style-type: none"> • Location: Ft. Sill • Owner/Operator: Dept. of Defense • Normal Capacity: 723 acre-feet • Max. Capacity: 1,340 acre-feet 	<ul style="list-style-type: none"> • City of Lawton
<p>Pecan Valley Waterworks (OK30591) 34°37'29.3"N 98°32'05.9"W</p>	<ul style="list-style-type: none"> • Location: Comanche County • Owner/Operator: Private individual or business • Normal Capacity: 164 acre-feet • Max. Capacity: 302 acre-feet 	<ul style="list-style-type: none"> • City of Lawton • City of Cache • Unincorporated Comanche County
<p>PSO Comanche Station (OK12837) 34°32'33.7"N 98°20'03.8"W</p>	<ul style="list-style-type: none"> • Location: Comanche County • Owner/Operator: Private Individual or business • Normal Capacity: 2,200-acre feet • Max Capacity: 	<ul style="list-style-type: none"> • City of Geronimo • Unincorporated Comanche County



Extent

A High Hazard potential dam failure would be a breach large enough to exceed the creek, or river, channel downstream and overflow causing damage to homes, businesses, infrastructure, critical facilities, or put people at risk. This includes controlled releases where the rate of release exceeds the channel capacity. The cities of Lawton, Cache, Medicine Park, and portions of unincorporated Comanche County are susceptible to catastrophic flooding due to High Hazard potential dam failure. In some cases, jurisdiction over these dams pose additional problems, as they originate outside of the potential inundation area therefore mitigation actions are not under the direct control of the jurisdiction which would be directly impacted. Mitigation efforts include existing warning systems and continual monitoring by responsible jurisdiction.

The Comanche County – Lawton Emergency Management Office maintains copies of Emergency Action Plans for each identified High Hazard Potential Dams which provides detailed inundation maps, to include flow rates and measurements for each potentially impacted jurisdiction.

Vulnerability

As long as High Hazard Potential dams exist so does the chance for failure. One jurisdiction, Medicine Park, is within the direct impact of catastrophic failure of Lake Lawtonka and/or Lake Elmer Thomas. There would be an estimated 209 homes, 48 businesses, Interstate 44, highway 49, highway 58, and highway 277 that could be damaged or potentially affected.

Lake Ellsworth dam failure, while not affecting Medicine Park proper, would still affect nearby infrastructure, agricultural land, and 18 homes.¹⁵

The City of Cache lies at the confluence of Crater Creek, West Cache Creek, and Rock Creek and within the watershed of two high hazard potential dams: Upper Canyon Lake on Fort Sill and Comanche Lake Dam in the Wichita Mountains Wildlife Refuge. All the drainage area upstream of the City of Cache is under the jurisdiction of the Oklahoma Department of Transportation, U.S. Department of Defense, or U. S. Department of the Interior. These organizations have not granted planning authority to the City of Cache, nor the Comanche County Commissioners.

The City of Lawton, having the largest percentage of the total population of Comanche County, is directly affected by eight of the eleven identified High hazard potential dams. If a spontaneous rupture were to occur at any of the following dams, there is a high probability of loss of life, significant economic impact, and major disruption to the City of Lawton and Comanche County. A breach large enough to exceed the capacity of the river or creek channel and overflow causing damage to homes, businesses, critical facilities, state buildings and putting people at risk is considered a major severity. This includes situations where the dam flow control manager releases more water than can be contained in the banks of the downstream river or creek channel. The tables below from each high hazard-potential dam EAP includes relevant information for the expected travel times and depth of inundation from each high hazard-potential dam.

Lake George & Elmer Thomas Lake fall under Federal responsibility for risk mitigation. The Comanche County Hazard Mitigation Planning Committee is unable to execute any mitigation projects for these High Hazard Potential dams except for downstream mitigation as may be required. Downstream mitigation is covered in conjunction with other City of Lawton mitigation projects.

Those communities with high hazard-potential dams located within their jurisdiction have the highest vulnerability from a dam breach. Those areas located in the breach zone of a dam failure would be immediately impacted by the force of water that has been released. Residential and commercial structures, transportation routes, infrastructure systems such as water, sewer, electrical and pipelines have the potential to be severely to irrevocably damaged. Critical facilities and services would be impacted, including firefighting, medical care, and the loss of source water to water districts. These water districts, located away from the immediate impact area, would result in loss of service to residential and commercial customers. Many of these customers do not have a secondary source of potable water. Ellsworth Lake and Lake Lawtonka provide source water for The City of Lawton, The Town of Medicine Park, The City of Geronimo, Fort Sill, and 3 rural water districts (Rural Water Districts 1, 3, and 5), with a total of 36,047 meters.

¹⁵ <http://pubs.usgs.gov/sir/2012/5026/SIR12-5026.pdf>
pg. 142

Comanche County Water Meter Information

City of Lawton	28,678
Comanche County Rural Water Districts	2,936
Medicine Park	339
Geronimo	530

Persons at Risk (PAR)

B-II Detention	1,837
Dolese Detention	2,222
Lake Lawtonka	6,805
Lake Ellsworth	5,267

Structures at Risk

Dam	Number of Buildings
B-II Detention	<ul style="list-style-type: none"> • 635 Homes • 1 Elementary School • Multiple Businesses
Dolese Detention	<ul style="list-style-type: none"> • 525 Homes • 1 Elementary School • Multiple Businesses
Lake Lawtonka	<ul style="list-style-type: none"> • 734 Homes • 184 Businesses
Lake Ellsworth	<ul style="list-style-type: none"> • 576 Structures
Comanche Lake Dam	<ul style="list-style-type: none"> • 345 Homes • 144 Businesses • 1 Elementary School • 1 Middle School • 1 High School
PSO Comanche Station	<ul style="list-style-type: none"> • 1 Home
Canyon Lake Dam	<ul style="list-style-type: none"> • 235 Homes • 77 Businesses

Transportation & Utilities at Risk

Dam	Number of Infrastructure
Lake Lawtonka	<ul style="list-style-type: none"> • 210 Roadways

	<ul style="list-style-type: none"> • 2 Railways (Stillwater Central and Union Pacific) • 2 Water Treatment Stations • 1 Wastewater Treatment Plant • 750 Electrical Powerlines & Poles
Lake Ellsworth	<ul style="list-style-type: none"> • 198 Roadways • 2 Railways (Stillwater Central and Union Pacific) • 2 Water Treatment Stations • 1 Wastewater Treatment Plant • 536 Electric Powerlines & Poles
Comanche Lake Dam	<ul style="list-style-type: none"> • 84 Roadways

Secondary Hazards

Economic impacts can be direct or indirect. Direct impacts appear immediately following a dam failure event and typically include the need to repair and rebuild structures and infrastructure and reopen businesses. Indirect economic impacts that might be identified during the consequence assessment are unemployment leading to population shifts, difficulty in attracting new businesses to the area, the need for governmental assistance, and lower property tax revenues. Indirect impacts may also include the closure of an industry outside the inundation area that depends on the output of a factory within the inundation area that would be destroyed by the dam failure scenario under consideration. Dam failure has the potential to cause significant and long-term social effects, resulting in changes to the quality of life in the affected community. Social impacts may include a loss in the public's confidence in public officials, difficulty delivering necessary social or medical services to the community, or the loss of connections among community members that provide support and enrichment. A dam failure can also have negative environmental impacts, such as the pollution of surface or groundwater, air, and soil; the release of hazardous materials; or the destruction of environmentally sensitive areas. Long term vulnerabilities to the community, reservoir, such recreation, environment, and cost to rebuild or develop a new source of potable water etc.

Mitigation Strategies and Actions for High Hazard Potential Dams

Dam Risk Reduction Measures

Risk Rating: Dams in Comanche County that pose an unacceptable risk to the public are those that are classified as high hazard-potential, are in other than satisfactory condition, and do not meet current state dam safety requirements. The OWRB maintains a list of dams that are considered to pose an unacceptable risk to the public.

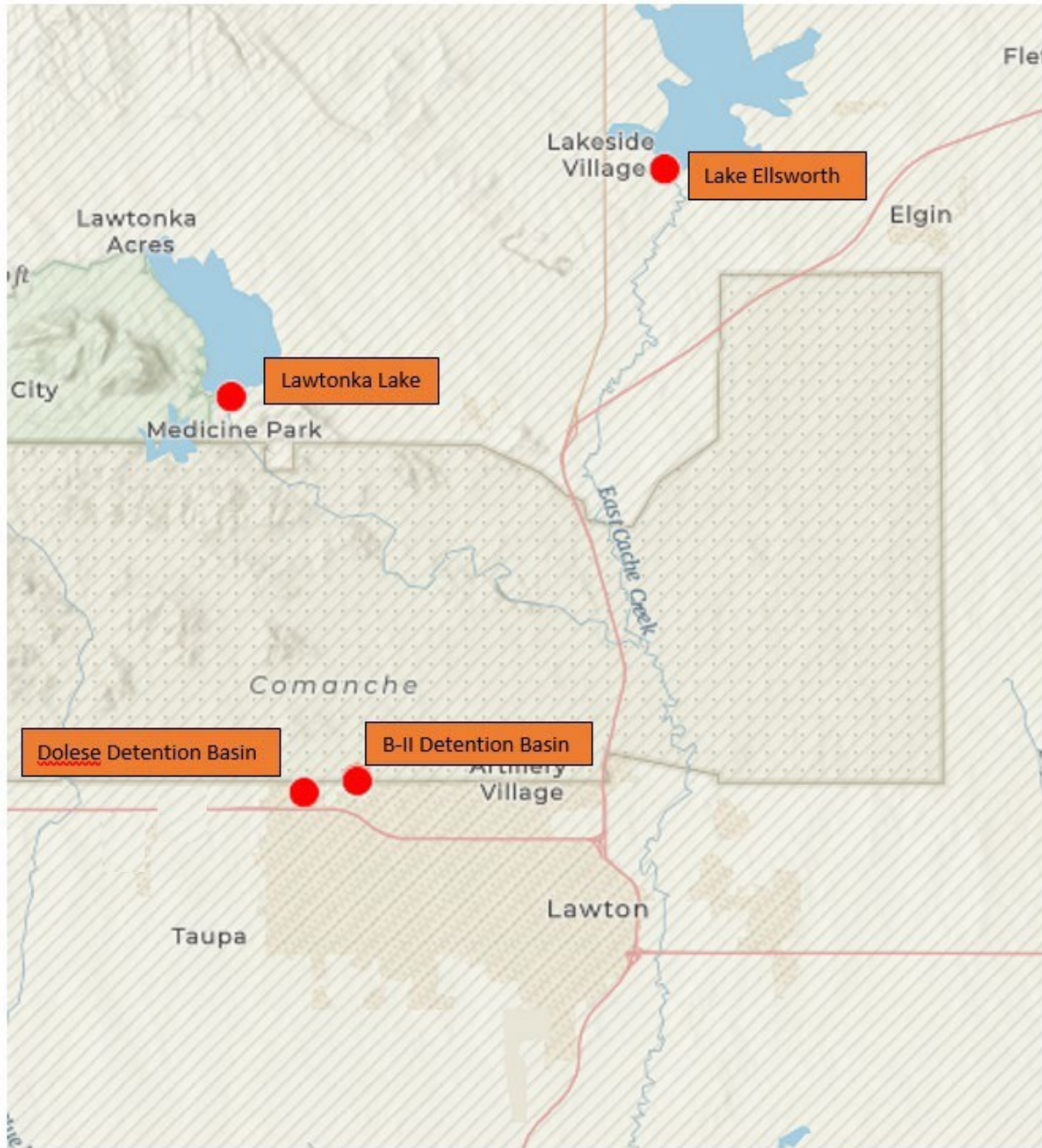
All dams are required to be brought into compliance with state dam safety requirements, and increased mitigation actions must be taken to reduce vulnerabilities from dam failure until compliance has been achieved. Mitigation actions must be tailored to individual dams depending on the identified potential failure mode that is being mitigated. With guidance from the Oklahoma Dam Safety Program (ODSP) and dam owners' technical representatives, the owners of these dams are responsible for identifying and implementing temporary risk reduction measures.

These required temporary mitigation actions may include, but are not limited to, tasks such as lowering the water level in the reservoir, increased inspection frequency especially during and/or after heavy rainfall events, installation of remote monitoring devices, installation of flood control devices, or installation of signage at critical roads and bridges.

Condition Ratings: The Lawtonka Dam was rated by the City of Lawton Consultant Engineer firm as being in fair condition due to the need for some repair of surface spalling on concrete embankment and downstream erosion. Lake Ellsworth Dam was rated by the City of Lawton Consultant Engineer firm as being in poor condition due to the failure of the spillway and stilling basin.

Based on this analysis, the Comanche County Hazard Mitigation Planning Committee determined this rating posed an **unacceptable risk** to the community as a whole.

City of Lawton Municipal Boundary High Hazard-Potential Dam Location Map



Lake Ellsworth Dam Breach Water Depth and Time

.	Resident/business	75% PMF stage (ft)	75% PMF Stage (hr:mm)	Sunny Day stage (ft)	Sunny Day Stage (hr:mm)
1	highway 277	1,201.90	2:55	1,192.48	3:45
B-2	Glover Road	1,188.29	3:10	1,181.08	4:10
B-3	Interstate 44	1,161.74	3:35	1,153.57	5:30
B-4	Lake Road	1,150.29	4:10	1,144.21	6:05
5	Qinette Road	1,137.71	5:00	1,130.26	7:55
6	Hoyle Road	1,128.67	5:30	1,121.26	9:05
7	Rogers Road	1,092.75	6:20	1,099.52	10:35
8	Gore Road	1,082.19	6:50	1,088.19	11:35
9	Lee Blvd	1,072.17	7:10	1,079.11	12:05
	Bishop Road	1,065.05	7:35	1,066.99	12:50
	Coombs Road	1,047.95	8:00	1,059.70	13:35
	Tinney Road	1,047.95	9:20	1,042.24	16:00
	County Road 1750	1,027.87	10:45	1,021.70	18:55
	County Road 1770	1,016.12	11:40	1,008.84	20:50
	County Road 2620	991.44	14:15	984.25	25:25
	Higway 53	981.23	15:10	973.15	28:30

Table -1.2: Ellsworth Flood Inundation Magnitude (Feet)

The range of inundation can vary depending on elevation of the area in question. The following chart lists the depths in feet at various locations downstream from the dam.

Housing Addition	COUNT	AREA	MIN_ (ft)	MAX_ (ft)	RANGE (ft)	MEAN (ft)	STD
HERITAGE ESTATES PT 2	29973	119892	0.000976	11.398699	11.3977	2.833309	2.615819
HERITAGE ESTATES PT 1	1584	6336	0.215941	3.234989	3.01904	0.804871	0.760821
HERITAGE ESTATES PT 3	87197	348788	0.000122	9.08765	9.087519	2.339799	1.53374
TURTLE CREEK VILLAGE ADD	21293	85172	4.78198	18.089099	13.3071	8.86268	2.23585
TURTLE CREEK NORTH 2	54927	219708	5.21997	19.551	14.3311	8.52515	1.633599
	4448	17792	7.74902	23.9071	16.1581	14.121299	4.52574
GARDEN VILLAGE 1	264910	1059640	9.45874	29.065599	19.6068	15.508899	4.27083
CREEKWOOD VILLAGE	204708	818832	10.593899	30.445999	19.852199	15.905099	3.44983
TURTLE CREEK ADD 1	219268	877072	0.020385	28.028799	28.008399	11.9097	4.330969
TURTLE CREEK TOWNHOUSE	29198	116792	0.001098	10.301799	10.3007	4.527239	2.090019
TURTLE CREEK NORTH 1	16608	66432	1.78479	7.436279	5.65149	4.944359	0.961355
PIONEER PARK ADD 3	3412	13648	0.000122	4.671259	4.67114	0.558655	0.527487
PIONEER PARK ADD 2	35262	141048	0.000244	8.72961	8.72937	1.54539	1.424489
PIONEER PARK ADD 1	10106	40424	0.001098	4.84766	4.84656	1.186599	0.890783
LEGION ADD	156064	624256	0.213135	15.9307	15.717499	10.0591	2.18771
NORTH LEGION ADD	7006	28024	2.056639	7.8916	5.834959	4.614689	0.915727
TURTLE CREEK ADD 2	345836	1383340	7.09143	27.860599	20.769199	12.697899	4.606009
GARDEN VILLAGE 2	185704	742816	8.400629	26.744499	18.3439	12.671299	1.58324
CAPITAL HILL SUB	1985	7940	0.007202	8.84167	8.834469	8.226929	0.565936
STANDARD TESTING	5501	22004	0.560913	3.635859	3.074949	1.234249	0.698584
TURNPIKE INDUSTRIAL PARK	523767	2095070	0.000488	13.537099	13.5366	5.70692	2.97848
EASTGATE 3	47959	191836	2.056519	8.73682	6.6803	3.702209	0.826511
EASTGATE 1	77932	311728	0.007202	7.071169	7.06396	2.19842	1.368589
EASTGATE 2	94324	377296	1.422729	8.912229	7.4895	4.851399	0.923563
AIRPORT ADD	176243	704972	0.000244	19.020599	19.020399	3.805579	3.899139
BWRW DEVELOPMENT	49213	196852	1.59106	8.603389	7.01233	5.61663	1.039899
NORTH ADD	22482	89928	0.000854	5.12292	5.122069	2.806679	1.309069
SKYLINE EAST ADD 1	11648	46592	0.000244	4.174799	4.17456	2.05777	1.054239
SKYLINE EAST COMMERCIAL	1004	4016	0.002563	2.038939	2.03638	0.867645	0.513068
REPLAT OF SUMMERWOOD	217579	870316	8.652589	22.7338	14.081199	13.029199	1.640349
REPLAT PT BLK 1 SUMMER-	13898	55592	8.664919	13.688799	5.02393	11.4258	0.854622

Table-2.1: Lawtonka Dam Breach Water Depth & Time

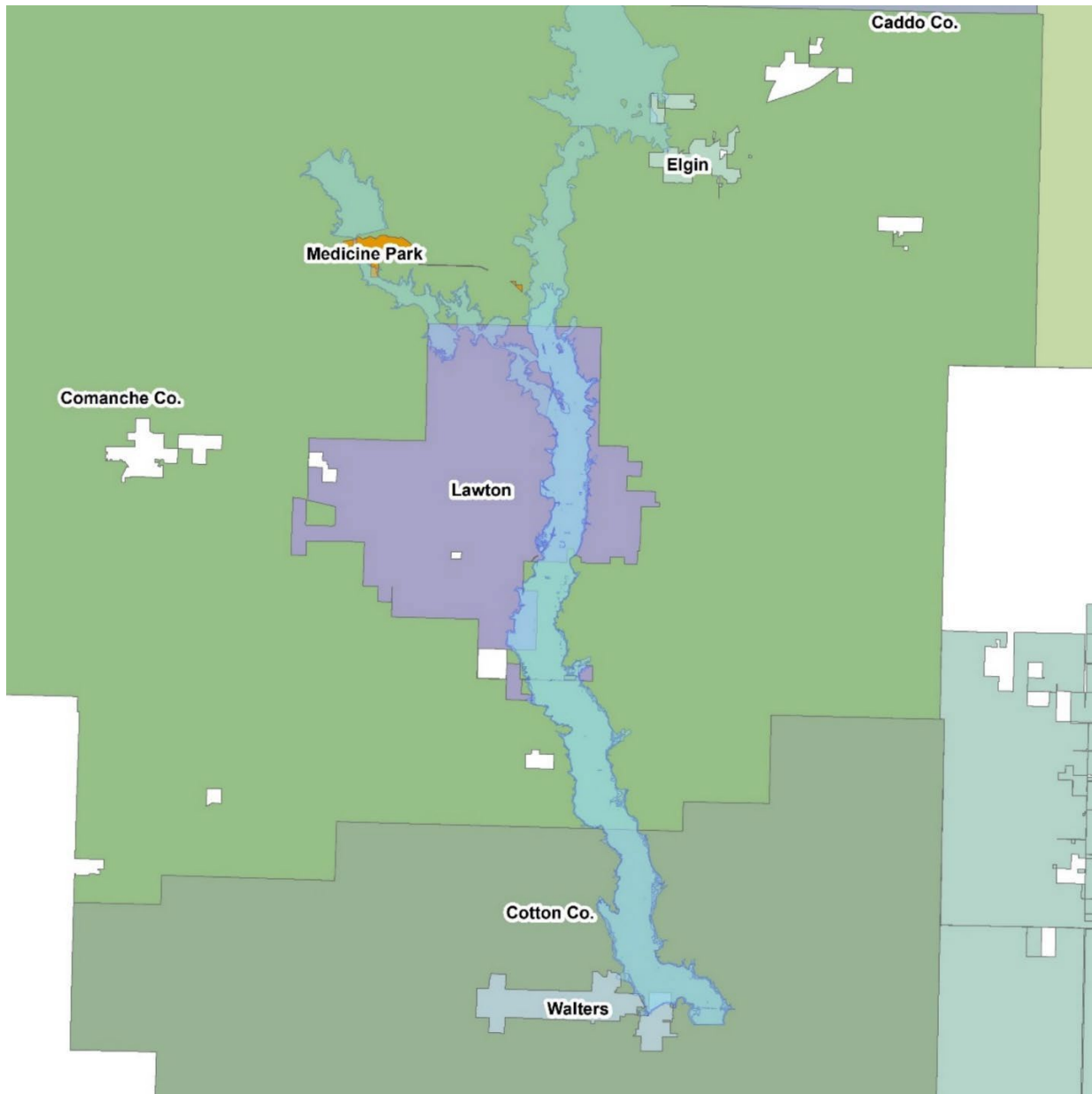
	Resident/business	Address	75% PMF Stage (ft)	75% PMF Stage Time from breach (hr:mm)	Sunny day Stage (ft)	Sunny Day Stage time from breach (hr:mm)
1	Medicine Foot Bridge	10300 132nd	1,303.48	2:21	1,297.96	2:24
B-2	Medicine Wooden Bridge	3214 Chestnut	1,295.82	2:25	1,291.18	2:28
B-3	HWY 49	2288 Farm	1,289.30	2:36	1,284.66	2:38
B-4	white wolf	1455 Sugar	1,152.90	6:47	1,147.57	8:16
5	Medicine Quinette	4812 Chestnu	1,131.28	7:25	1,129.16	7:58
6	I 44	5500 Apple	1,126.18	8:09	1,124.46	8:48
7	Rogers Road	4814 Chestnut	1,122.61	8:16	1,123.85	8:58
8	Rail Road Bridge	4902 Chestnut	1,102.28	8:44	1,120.42	9:42
9	Hoyle Rd	4910 Chestnut	1,090.19	9:46	1,099.45	1:02
	Gore Blvd		1,080.33	10:31	1,087.96	12:28
	Lee Blvd		1,069.06	10:49	1,079.08	12:38
	Bishop Road		1,061.83	11:22	1,066.75	13:27
	Coombs Road		1,044.29	11:57	1,059.37	14:11
	Tinney Road		1,044.29	13:56	1,041.74	16:34
	County Road 1750		1,023.80	16:13	1,029.95	19:39
	County. Road 1770		1,011.23	17:41	1,007.81	21:39
	County Road 2620		986.02	21:17	983.16	25:53
	Hyw 53		975.41	23:21	971.74	29:32

Table -2.2: Lawtonka Flood Inundation Magnitude (Feet)

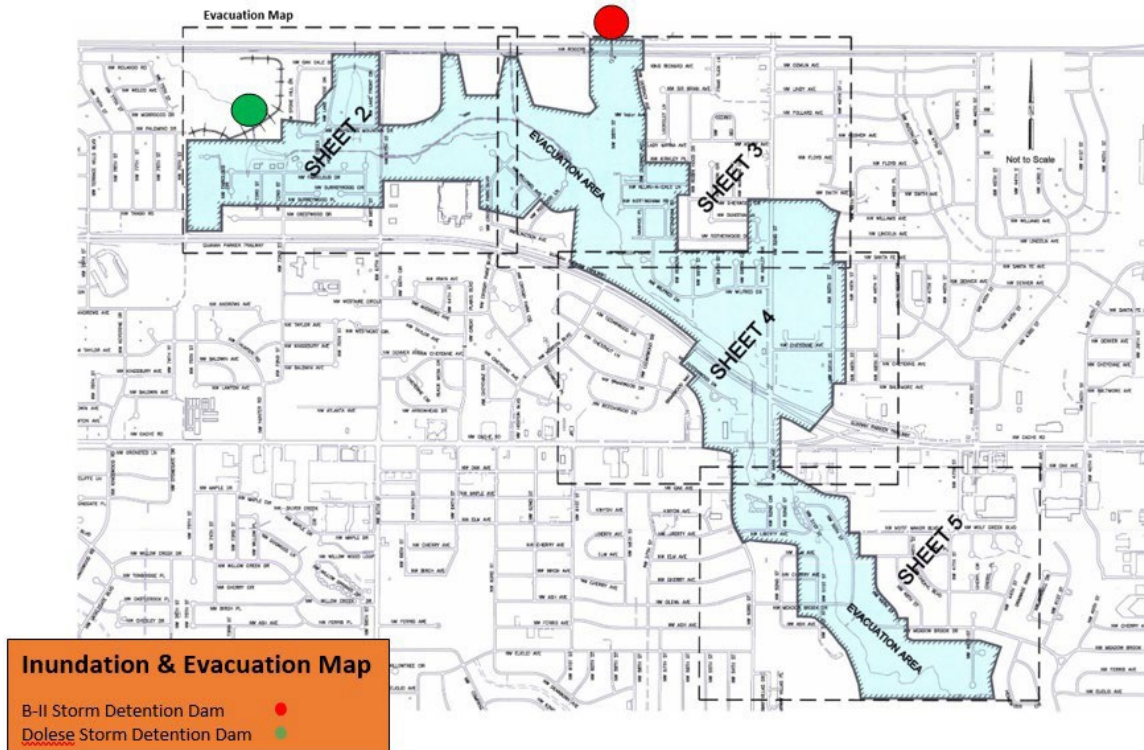
The range of inundation can vary depending on elevation of the area in question. The following chart lists the depths in feet at various locations downstream from the dam.

Subdivision	ZONE_CODE	COUNT_	AREA	Min rise (ft)	Max rise (ft)	RANGE	Mean rise (ft)
HERITAGE ESTATES PT 2	11	8589	34356	0.005371	7.620483	7.615112	2.641986
HERITAGE ESTATES PT 3	18	17867	71468	0.000122	5.301879	5.301757	0.855741
TURTLE CREEK VILLAGE ADD	19	21293	85172	0.874877	14.178466	13.303588	4.953599
TURTLE CREEK NORTH 2	20	54927	219708	1.315551	15.646606	14.331054	4.620821
	21	4928	19712	0.908935	19.998657	19.089721	9.308029
GARDEN VILLAGE 1	23	264910	1059640	5.583618	25.161621	19.578002	11.673795
CREEKWOOD VILLAGE	24	204708	818832	6.756591	26.645874	19.889282	12.027007
TURTLE CREEK ADD 1	25	216761	867044	0.000122	24.248046	24.247924	8.19679
TURTLE CREEK TOWNHOUSE	26	19870	79480	0.001098	6.436035	6.434936	1.822746
TURTLE CREEK NORTH 1	27	13495	53980	0.244384	3.533203	3.288818	1.364315
PIONEER PARK ADD 3	28	8	32	0.042846	0.740478	0.697631	0.34082
PIONEER PARK ADD 2	29	2516	10064	0.002319	4.798095	4.795776	1.504199
PIONEER PARK ADD 1	30	28	112	0.87207	0.915771	0.043701	0.886993
LEGION ADD	35	155010	620040	0.000366	12.672363	12.671997	6.820372
NORTH LEGION ADD	36	6467	25868	0.502441	4.511123	4.008789	1.365613
TURTLE CREEK ADD 2	38	345836	1383344	3.305664	24.081665	20.776	8.92299
GARDEN VILLAGE 2	39	185704	742816	4.602539	22.970947	18.368408	8.888678
CAPITAL HILL SUB	44	1960	7840	4.298461	5.604614	1.306152	5.026647
STANDARD TESTING	51	571	2284	0.194946	1.244506	1.04956	0.357586
TURNPIKE INDUSTRIAL PARK	52	594911	2379644	0.000122	12.285522	12.2854	4.959017
EASTGATE 3	56	26999	107996	0.000122	5.443359	5.443237	0.880998
EASTGATE 1	57	14774	59096	0.000122	3.780517	3.780395	0.872066
EASTGATE 2	58	92272	369088	0.000976	5.620361	5.619384	1.603586
AIRPORT ADD	63	66893	267572	0.000366	15.712768	15.712402	3.80527
BWRW DEVELOPMENT	64	48696	194784	0.589233	6.22229	5.633056	3.110321
NORTH ADD	68	8236	32944	0.681274	1.834716	1.153442	0.919684
SKYLINE EAST ADD 1	72	3843	15372	0.016601	1.397338	1.380737	0.573199
REPLAT OF SUMMERWOOD	74	217579	870316	5.73413	19.78833	14.054199	10.234774
REPLAT PT BLK 1 SUMMER-	75	13898	55592	6.061035	11.093505	5.03247	8.797117
SUMMERWOOD SQUARE PT 1	76	27675	110700	7.213989	13.031127	5.817138	10.017175
SKYLINE EAST ADD 2	77	11424	45696	0.006591	7.139282	7.13269	2.032696
SKYLINE EAST ADD 3	79	3769	15076	0.001098	2.265747	2.264648	0.639343
SUMMERWOOD SQUARE PT 3	80	5407	21628	7.284912	10.355468	3.070556	8.926741
VERNON ADD	87	142459	569836	0.000854	15.060668	15.059814	7.566923
COUNCIL HEIGHTS	89	3712	14848	0.280395	4.330932	4.050537	1.470207

Jurisdictions Affected by Potential Breach of Lawtonka Dam and Ellsworth Dam

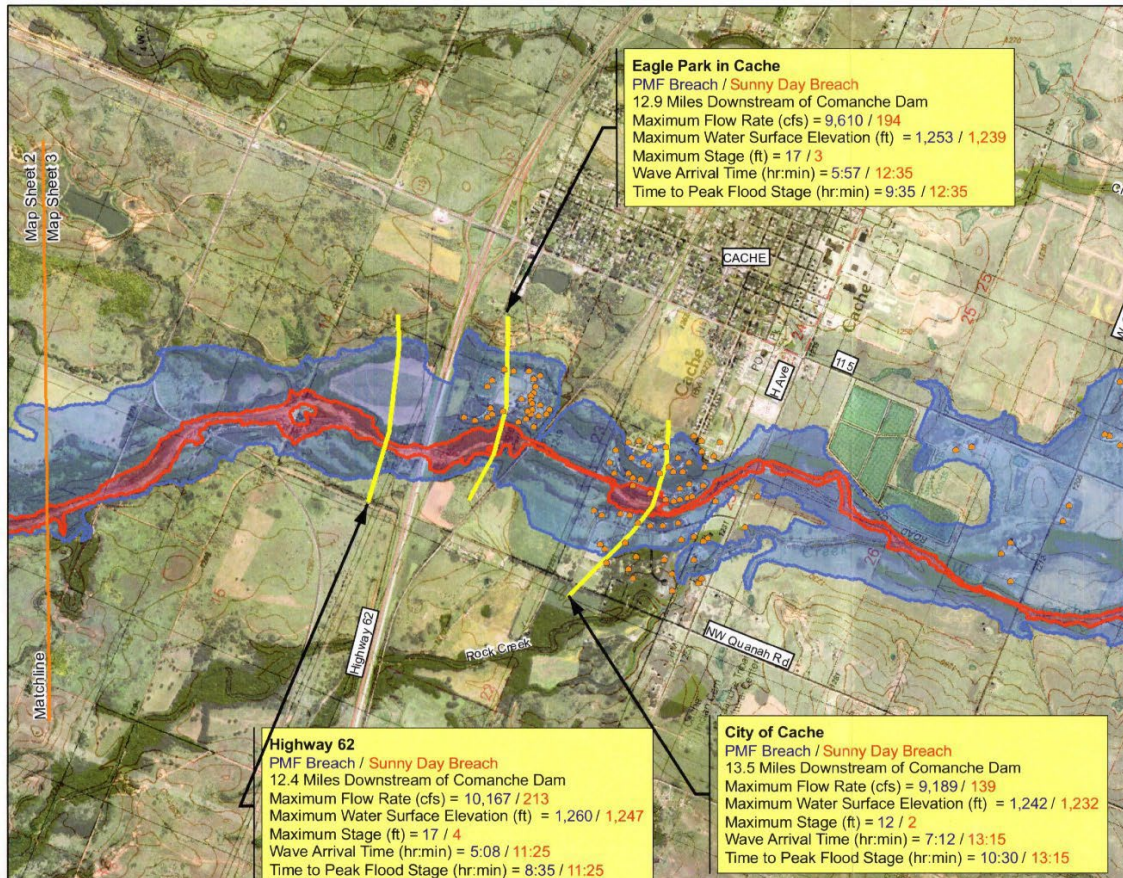


City of Lawton Area Affected by Potential Breach of B-II Dam and Dolese Dam

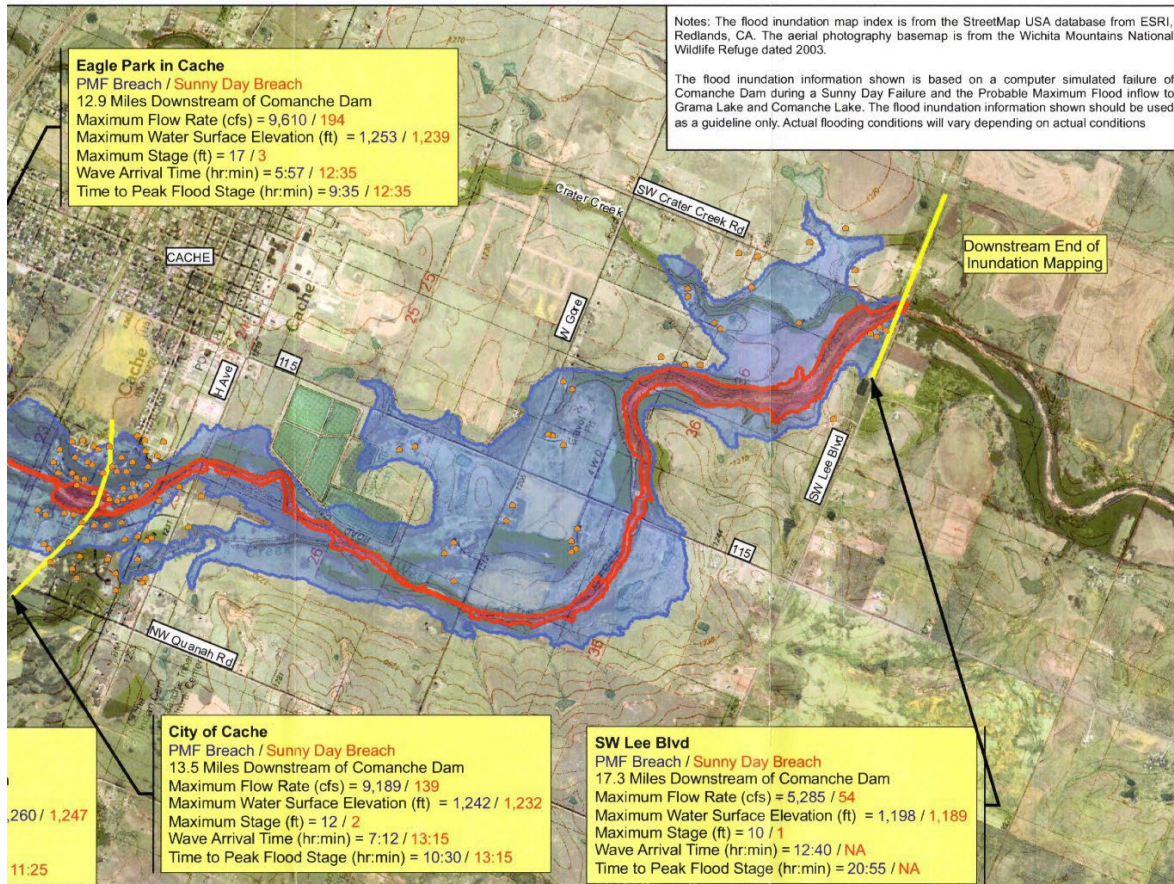


The Comanche Lake Dam breach analysis indicates a flood depth increase of 1.5 foot at Highway 62 bridge. This also depicts High Hazard Potential dam failure during a probable maximum flood. Flood heights are negligible past the city limits of Cache in unincorporated Comanche County.

Dam Breach Analysis maps for City of Cache, Town of Medicine Park, and Unincorporated Comanche County

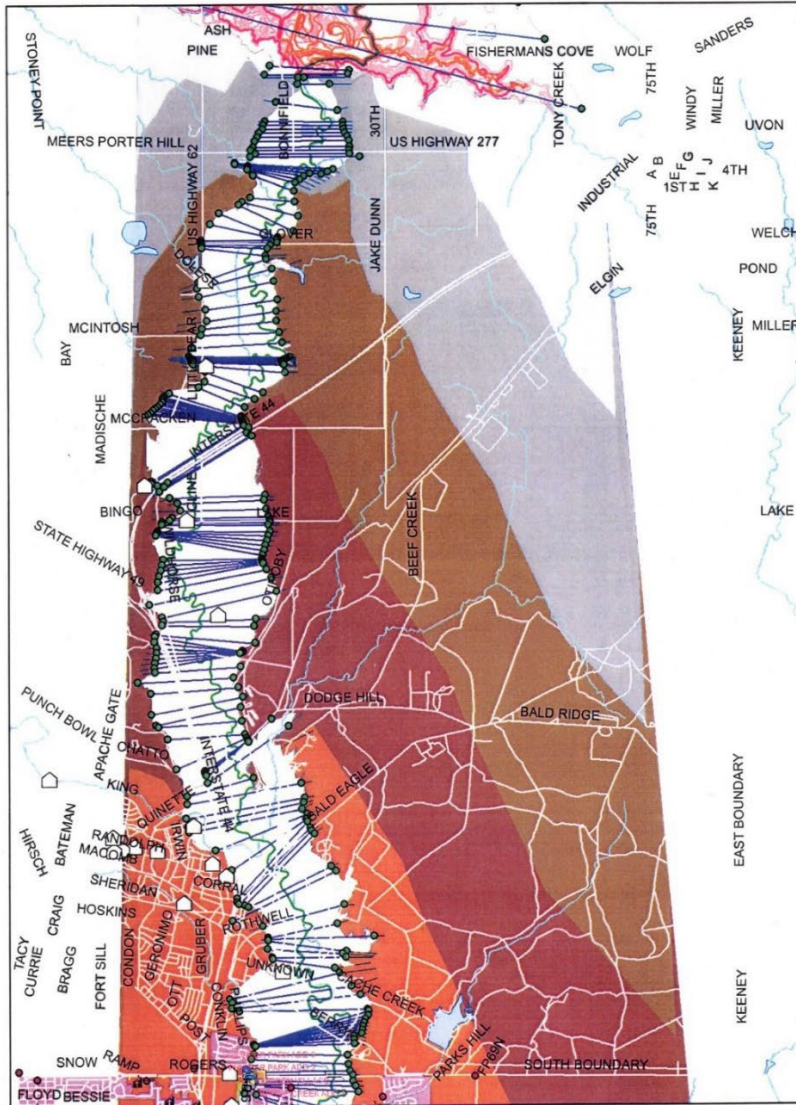


Comanche Lake Dam Breach Analysis – Unincorporated Comanche County Flood Depths under Probable Maximum Flood Conditions below Southwest Lee Boulevard



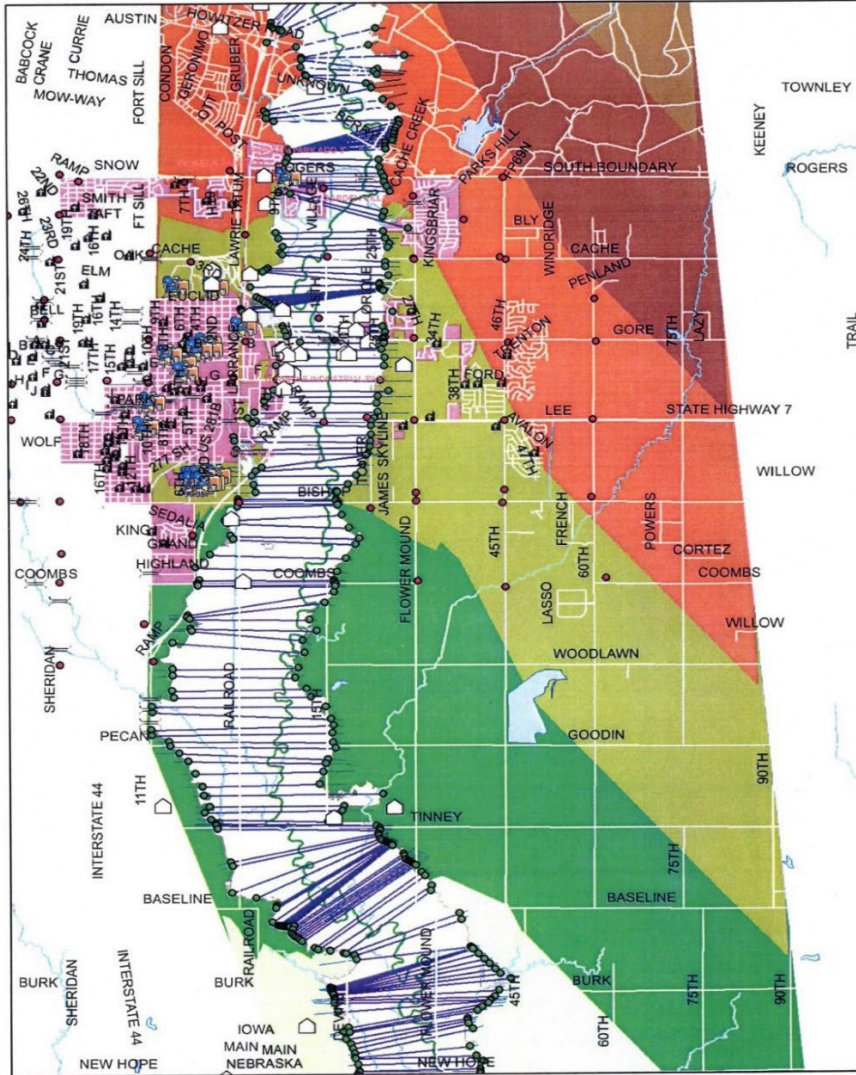
Lake Ellsworth Dam Breach Analysis – Under Probable Maximum Flood Conditions

Ellsworth PMF Breach



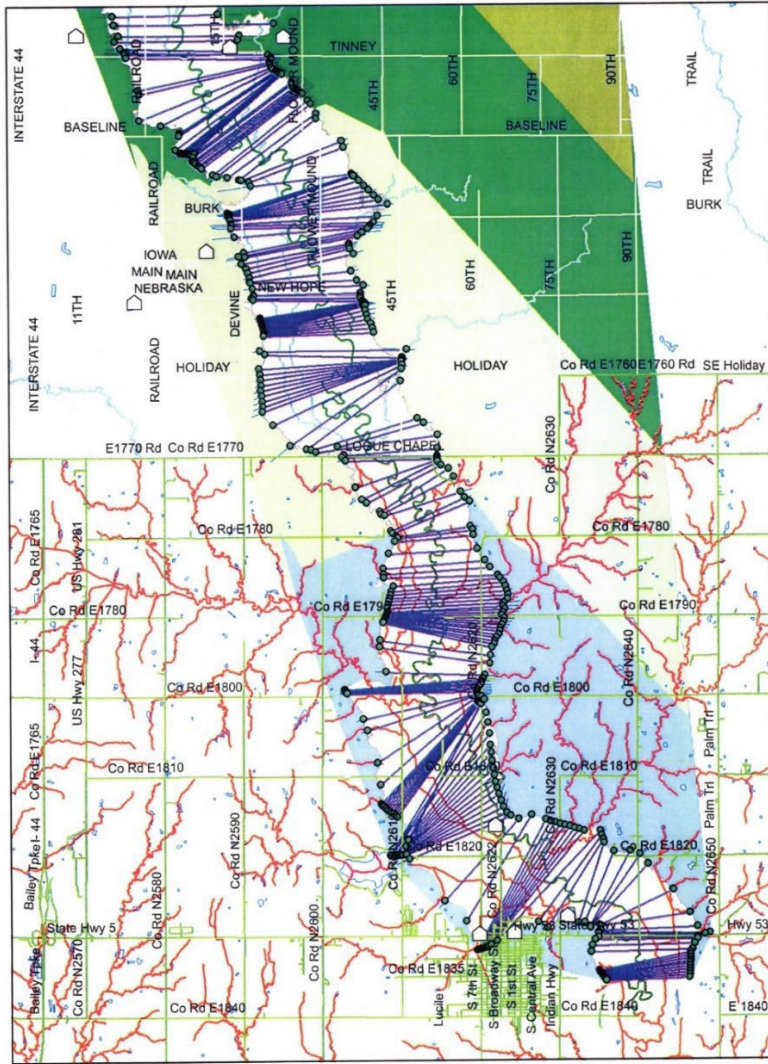
Lake Ellsworth Dam Breach Analysis – Under Probable Maximum Flood Conditions

Ellsworth PMF Breach



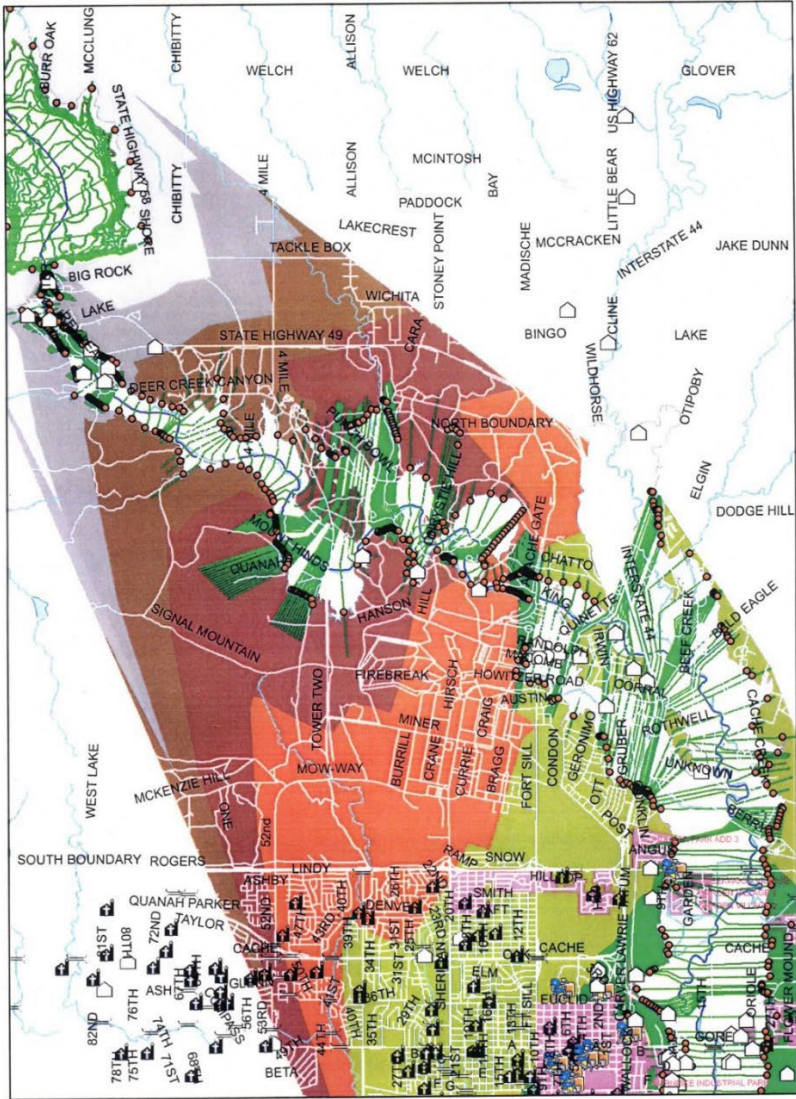
Lake Ellsworth Dam Breach Analysis – Under Probable Maximum Flood Conditions

Ellsworth PMF Breach



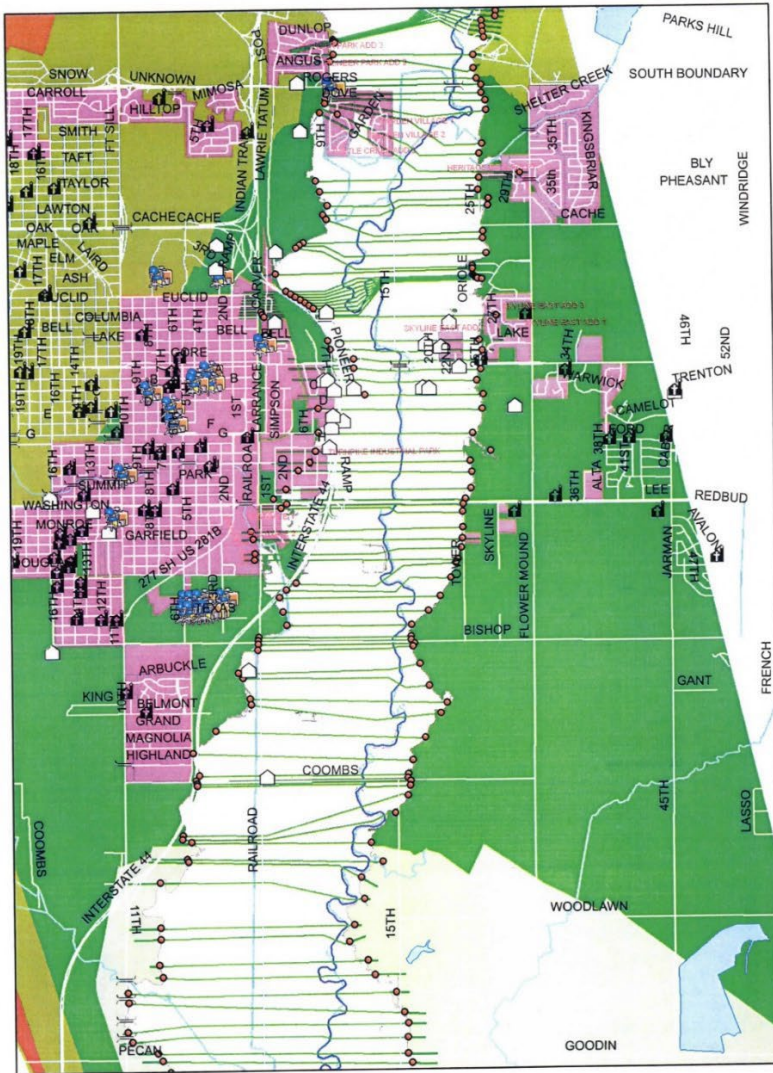
Lake Lawtonka Dam Breach Analysis – Under Probable Maximum Flood Conditions

Lake Lawtonka PMF Breach



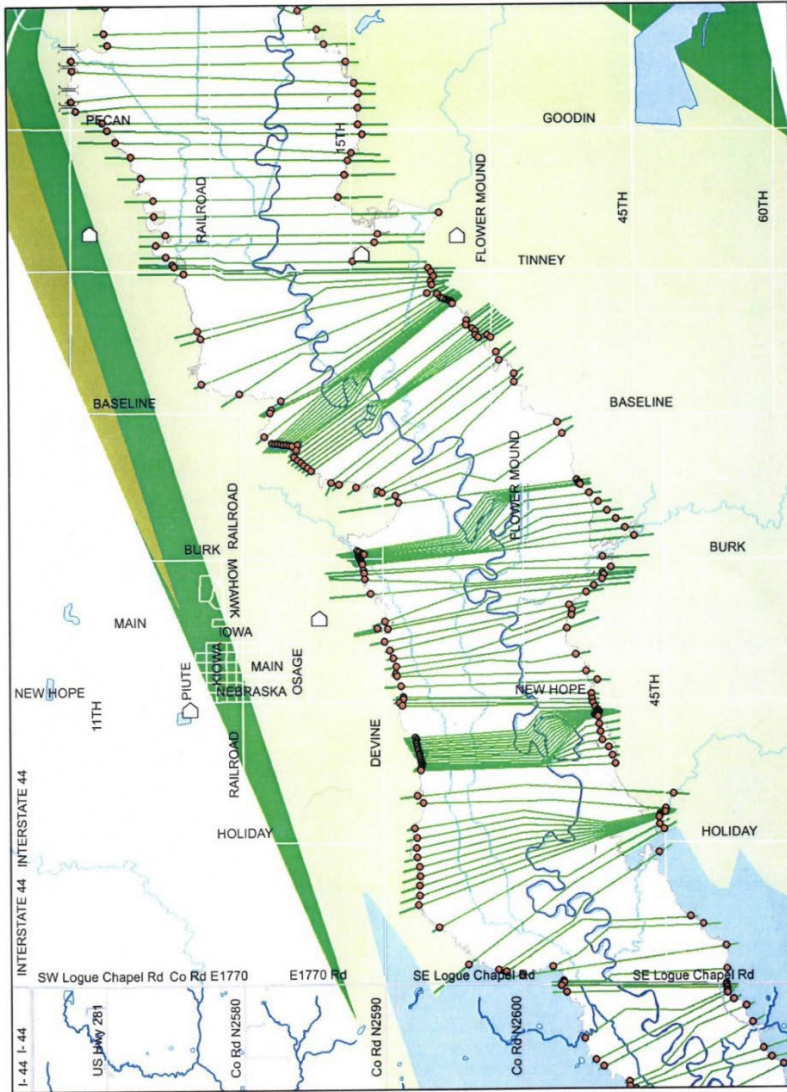
Lake Lawtonka Dam Breach Analysis – Under Probable Maximum Flood Conditions

Lake Lawtonka PMF Breach



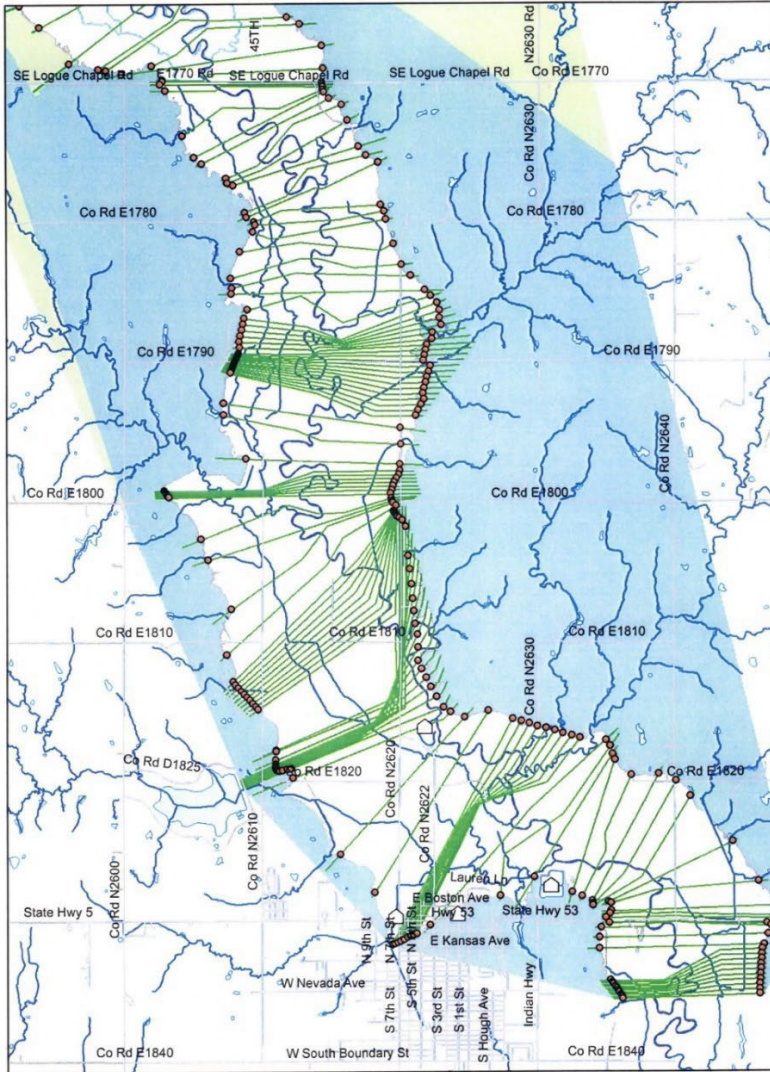
Lake Lawtonka Dam Breach Analysis – Under Probable Maximum Flood Conditions

Lake Lawtonka PMF Breach



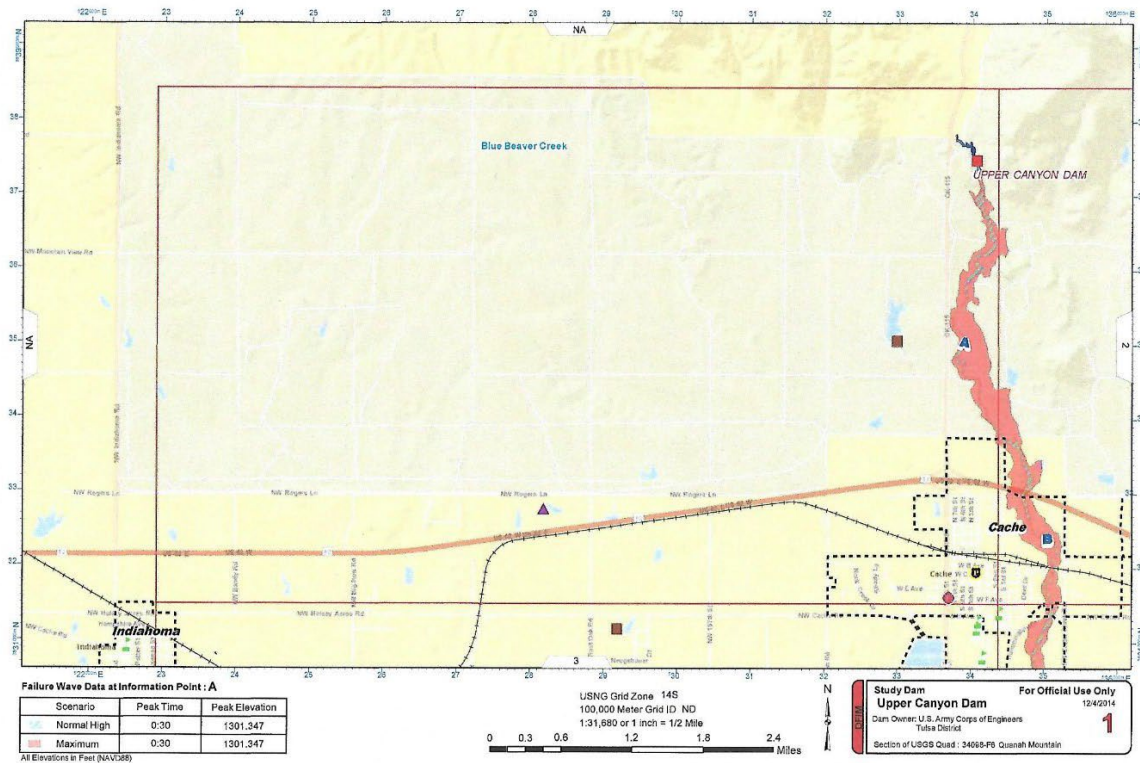
Lake Lawtonka Dam Breach Analysis – Under Probable Maximum Flood Conditions

Lake Lawtonka PMF Breach



The Emergency Action Plan for Upper Canyon indicates a flood depth increase of 3 feet at the Highway 62 bridge in the city of Cache in the event of High Hazard Potential dam failure under probable maximum flood (PMF) conditions. Cross sections indicated the flow would be negligible below the city limits of Cache in unincorporated Comanche County.

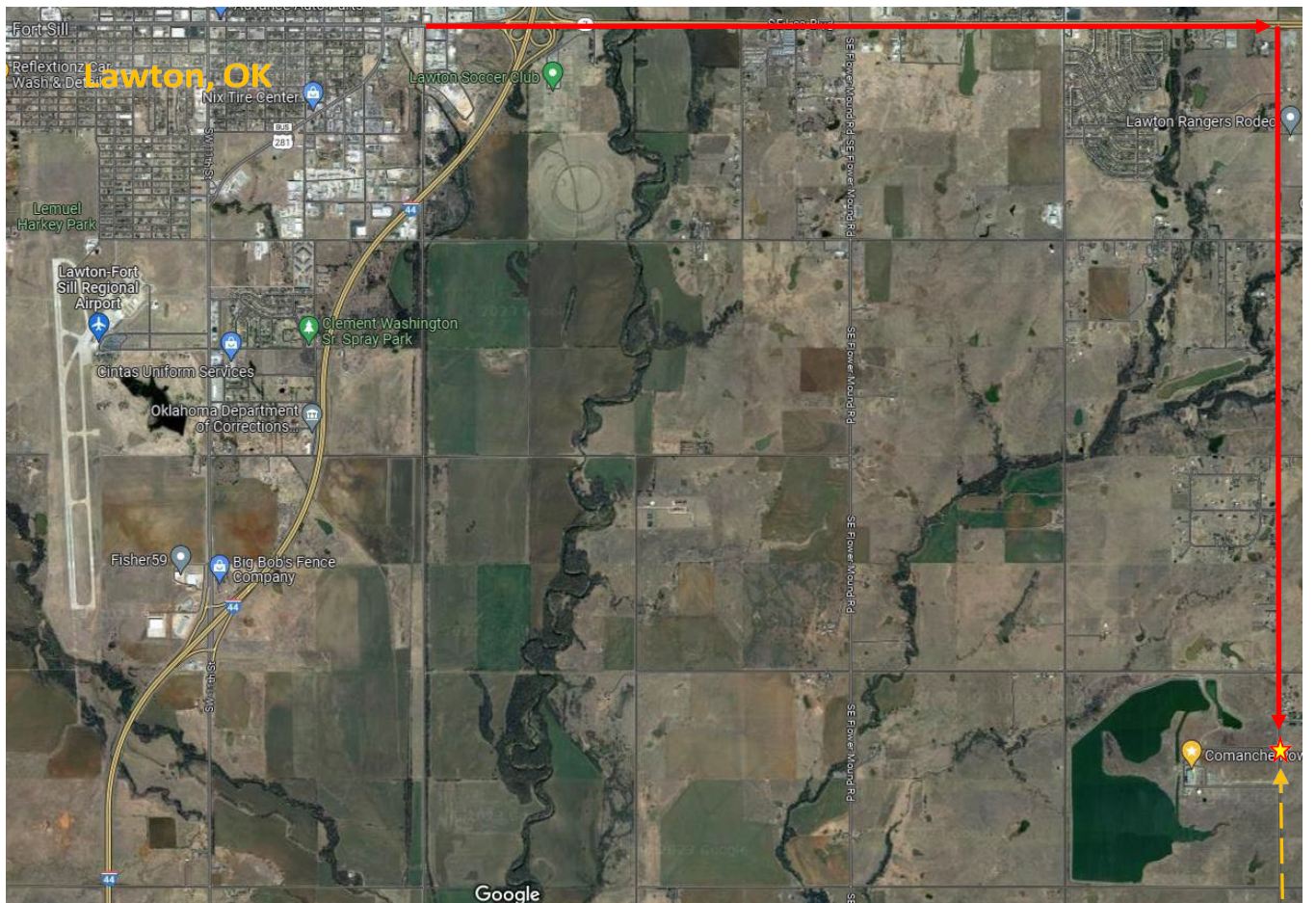
Upper Canyon Lake Dam Breach Analysis – Under Probable Maximum Flood Conditions



PSO Comanche Station Dam

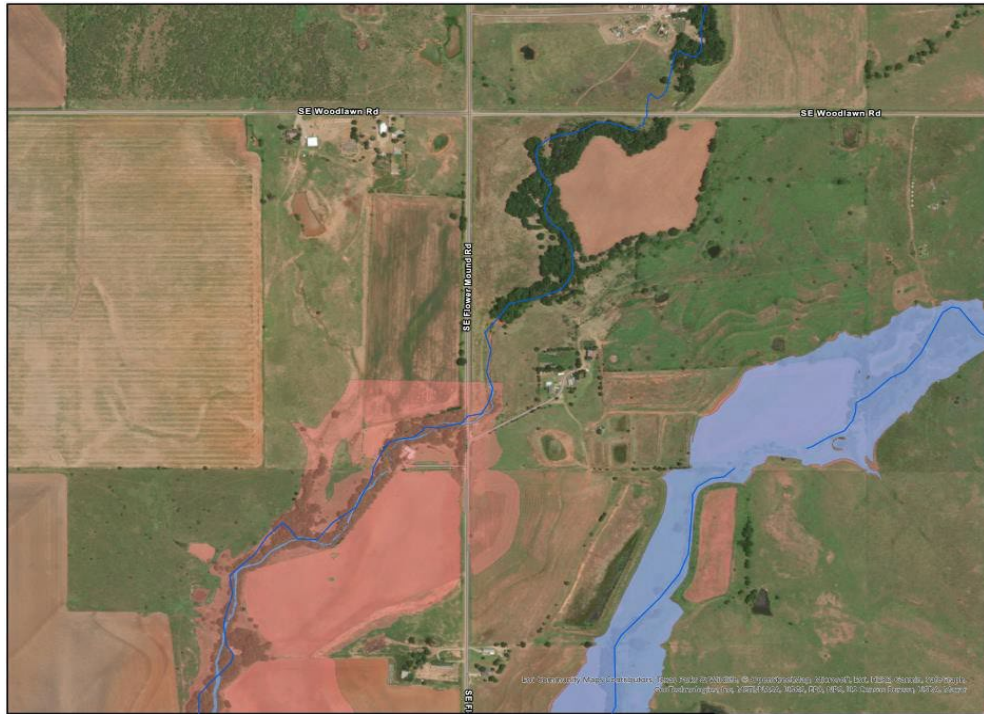
PSO Comanche Station Dam is a cooling lake reservoir for Comanche Power Station (Facility), supplied by natural rainfall and runoff, as well as from treated effluent pumped from the City of Lawton POTW. The Facility discharges from the Comanche Reservoir to an unnamed tributary of Nine Mile Creek. The dam for Comanche Reservoir is the only significant water retention facility at the site. Impoundments Fo1 and Fo2 are small low head ponds for wastewater at the NE corner of the Comanche Reservoir. There are also two small sanitary lagoons south of the plant. PSO Comanche Station Dam consists of a 9,100 feet long compacted earthen filled embankment with a maximum height of 24.5 feet. The spillway system consists of a broad crested trapezoidal weir located in the right abutment at elevation 1105.2 feet and a 3 feet x 1 feet sluice gate at elevation 1104.2 feet. The spillway has a bottom width of 20 feet and a side slope of 2H to 1V. The spillway transition into a concrete lined trapezoidal channel conveys the flow to a stream located downstream of the dam.

Lawton and Vicinity Maps





PSO Comanche Station Dam Inundation Maps



PSO COMANCHE STATION DAM FAILURE MAPPING

PANEL LOCATOR

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri

LEGEND

- 25% PMF Breach Inundation
- Sunny Day Breach Inundation
- NHD Flowline
- Dam Centerline
- Non-Residential Impacted Structures
- Potential Impact Locations

Refer to Breach Model Report tables for detailed results at pertinent locations/road crossings.

The methods used to develop inundation zones and flood wave arrival times area approximate and should only be used as guidance for establishing evacuation zones. Actual areas inundated will depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.



PSO COMANCHE STATION DAM FAILURE MAPPING

PANEL LOCATOR

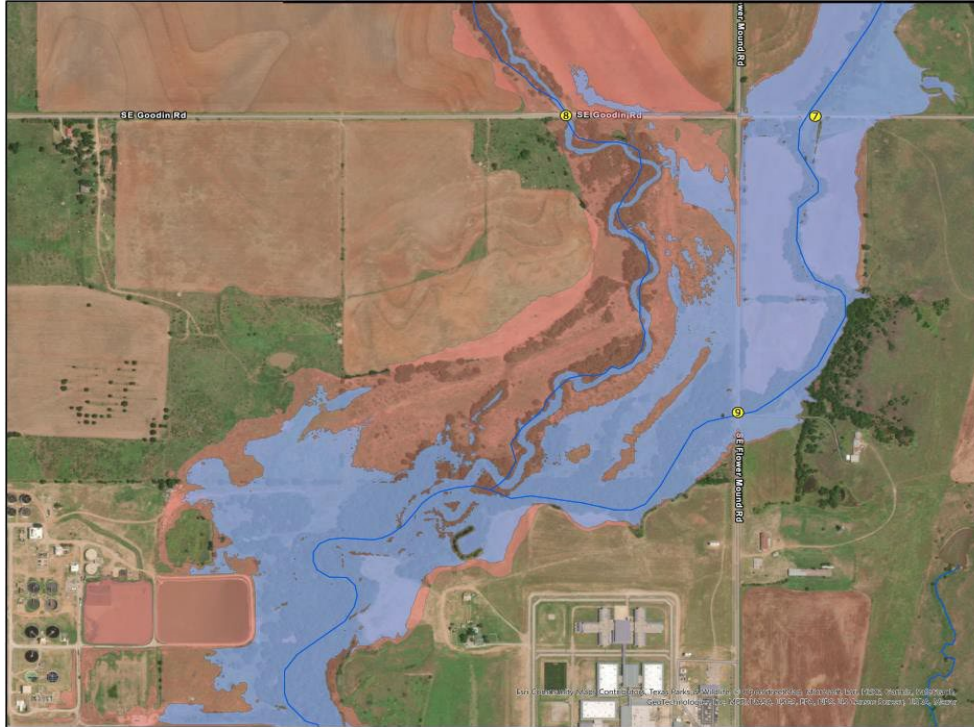
Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri

LEGEND

- 25% PMF Breach Inundation
- Sunny Day Breach Inundation
- NHD Flowline
- Dam Centerline
- Non-Residential Impacted Structures
- Potential Impact Locations

Refer to Breach Model Report tables for detailed results at pertinent locations/road crossings.

The methods used to develop inundation zones and flood wave arrival times area approximate and should only be used as guidance for establishing evacuation zones. Actual areas inundated will depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.



PSO COMANCHE STATION DAM FAILURE MAPPING

PANEL LOCATOR

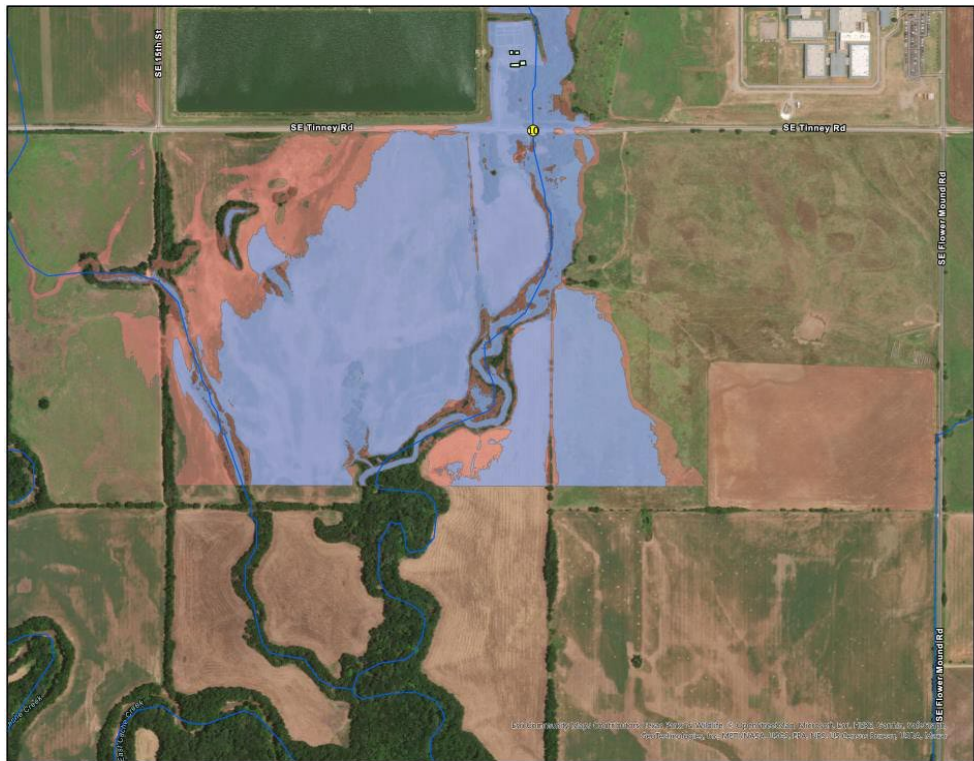
Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri

LEGEND

- 25% PMF Breach Inundation
- Sunny Day Breach Inundation
- NHD Flowline
- Dam Centerline
- Non-Residential Impacted Structures
- Potential Impact Locations

Refer to Breach Model Report tables for detailed results at pertinent locations/road crossings.

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PSO COMANCHE STATION DAM FAILURE MAPPING

PANEL LOCATOR

Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri

LEGEND

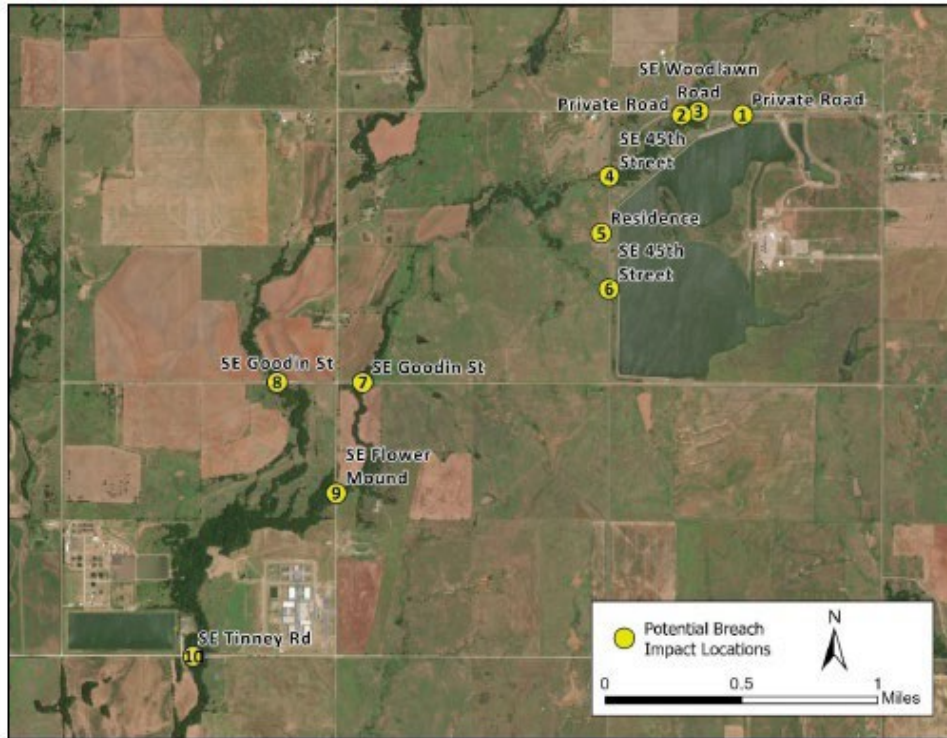
- 25% PMF Breach Inundation
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The methods used to develop inundation zones and flood wave arrival times are approximate and should only be used as guidance for establishing evacuation zones. Actual areas inundated will depend on actual failure and pre-failure hydrologic conditions and may differ significantly from information shown on maps.

PSO Comanche Station Dam

Hydrologic Assessment & Dam Breach Analysis



PSO Comanche Station Dam

Hydrologic Assessment & Dam Breach Analysis

Table 10 – Results of PMF Breach for PSO Comanche Station Dam

Location Number	Lowest Elevation of Impact (feet)	PMF Without Breach		PMF With Breach		Stage Increase Due to Breach (feet)	Time from Start of Breach Event (h:mm)	
		Peak Elevation (feet)	Depth of Impact (feet)	Peak Elevation (feet)	Depth of Impact (feet)		Time to Peak**	Time to Impact*
1	1089.81	1091.29	1.48	1091.29	1.48	0	-3:05	-11:45
2	1083.95	1085.94	1.99	1086.19	2.24	0.25	2:55	-5:20
3	1086.58	1087.8	1.22	1087.8	1.22	0	-2:35	-8:20
4	1079.28	1080.13	0.85	1080.65	1.37	0.52	2:55	-4:20
5	1090.04	1090.04	0	1091.64	1.6	1.6	0:00	0:00
6	1082.37	1080.2	NI	1085.33	2.96	5.13	1:55	0:05
7	1055.42	1056.66	1.24	1057.34	1.92	0.68	2:55	-4:15
8	1056.59	1056.37	NI	1056.37	NI	0	NI	NI
9	1048.51	1050.53	2.02	1051.26	2.75	0.73	2:15	-1:35
10	1038.54	1039.02	0.48	1039.59	1.05	0.57	2:40	-3:40

* Location not influenced by this dam breach scenario, the structure is located within the 100 yr floodplain, thus, it is impacted by the initial conditions expected to occur prior to a PMF.

** Negative times indicate that the impact or peak time occur before the dam breach.

NI Not Impacted

NOTE: All times were rounded to the nearest five minutes.

Reservoir Elevation-area-volume and Spillway Capacity Data

PSO Comanche Station Dam

Elevation (ft)	Reservoir Surface (acres)	Reservoir Storage (acre-feet)	Spillway Discharge (t3/s)
1094	0.39	-	-
1100	134	310	-
Principle Spillway Crest			
1105.2	210	1260	-
1106	232	1489	37.2
1107	249	1727	125.6
1107.25	264	1849	152.6

Overall Summary of Vulnerability and Impacts

There is no record of High Hazard Potential dam failure in the history of Comanche County. Eleven dams in Comanche County are designated as High Hazard potential with impact to population. While the probability of a high hazard potential dam failure is low, if it were to occur, the impact would be catastrophic.

This designation simply reflects a dam's potential for doing damage downstream if it were to fail and does not mean that a dam needs repair. The areas impacted are delineated using dam breach analysis. However, due to the low population downstream of the dams, the U.S. Geological Survey has conducted minimal analysis.¹⁶

The vulnerability of a High Hazard potential dam failure in the Comanche County HMP Planning Area would be to the roads, bridges, and utilities that are downstream of the dam and potential loss of life. Damage to or loss of these roads, bridges, and utilities would impact the citizens and county through the loss of communication infrastructure, mail, school buses, access for emergency vehicles, and utilities such as electrical power. There would be the added expense of taking alternate routes and the cost of repairing the roads and bridges. There was not an inventory of tribal or trust lands potentially affected by dam failure since these lands are not in the jurisdiction of the county. However, the county is responsible for the roads and bridges in the area and the safety of its citizens.

Climatological Influence on High Hazard Potential Dam Hazard

In Comanche County, Oklahoma, climatological changes, such as increasing frequency and intensity of precipitation events or prolonged droughts, pose significant risks to dam safety. Intense rainfall can lead to rapid inflow into reservoirs, potentially overwhelming dam infrastructure. Conversely, drought conditions can lower water levels, exposing dam foundations to erosion and compromising their structural integrity. The county's population patterns, including urbanization and population growth downstream of dams, amplify the consequences of failure by increasing the potential for loss of life and property damage. Additionally, changes in land use development upstream of dams, particularly in areas prone to urban expansion or agricultural activities, can alter runoff patterns and increase sedimentation rates, impacting reservoir capacity and structural stability.

¹⁶ *Ibid.*

3.6.8 Earthquake

Description

An earthquake is a sudden, rapid shaking of the ground caused by the fracture and movement of rock beneath the Earth's surface. Most severe earthquakes take place where the huge tectonic plates that form the Earth's surface collide and slide slowly over, under, and past each other. They can also occur along any of the multitude of fault and fracture lines within the plates themselves.

As the Earth's crust moves and bends, stresses are built up, sometimes for hundreds of years, before suddenly breaking or slipping. This abrupt release of accumulated tension can be devastating to human communities on the surface. The destructiveness of an earthquake depends upon a number of factors, including the magnitude of the tremor, direction of the fault, distance from the epicenter, regional geology, local soils, and the design characteristics of buildings and infrastructure, such as roads, bridges, and pipelines.

The faults most likely to affect Oklahoma are:

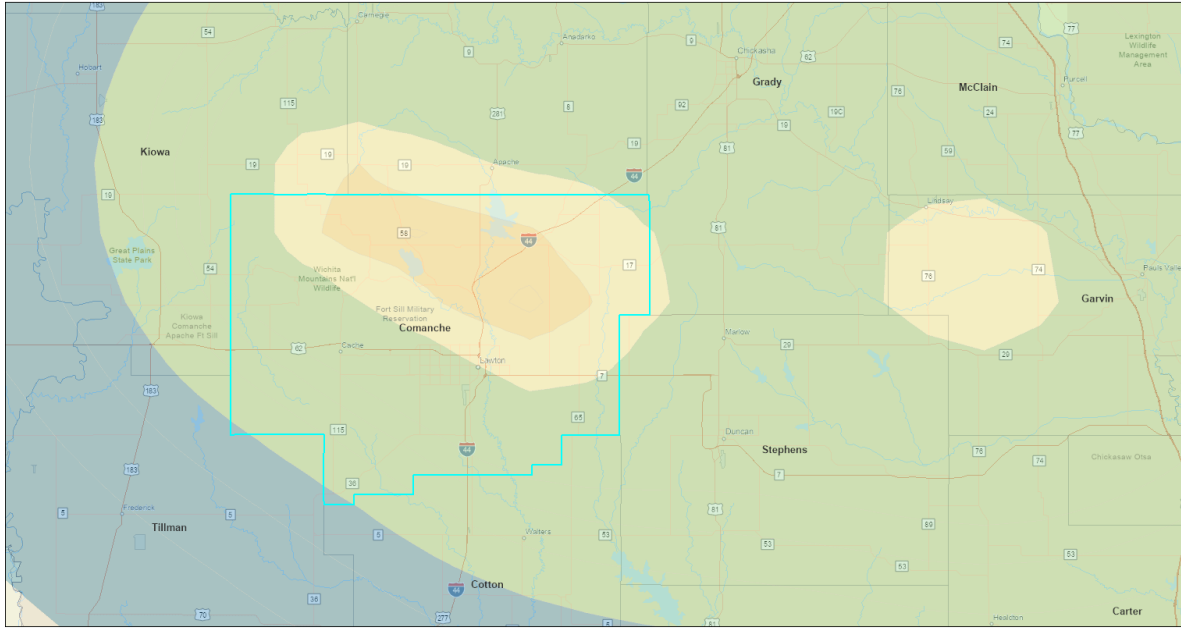
- 1) The New Madrid Fault was located in the center of Missouri and included several large earthquakes in the early 1800s that were widely felt in the region, including in Oklahoma.
- 2) The Meers Fault is located in southwestern Oklahoma, running northwest to southeast through Kiowa and Comanche counties north of Lawton.
- 3) The Nemaha Fault which runs north from Oklahoma City through Topeka, KS.
- 4) The Wilzetta Fault which runs from Pottawatomie County north through Lincoln into Creek counties.

The majority of Oklahoma earthquakes have historically been concentrated in the area of the Meers Fault in Garvin, Grady, and McClain counties, where the Cherokee Platform, Anadarko Basin and Arbuckle Uplift converge. In May of 1985, the Oklahoma Geological Survey installed a seismograph in the Meers Store in Comanche County to monitor the Meers Fault; it has since been decommissioned and replaced. The Meers Fault is the only fault identified in the State of Oklahoma with a history of surface rupturing to have occurred in the last 3,000 years. It forms the frontal fault zone between the Wichita Uplift to the south and the Anadarko Basin to the north and is part of the Pennsylvanian Frontal Fault System.

Location

Comanche County, the communities of Lawton, Elgin, Cache, Fletcher, Sterling, Indianola, Geronimo, and Medicine Park, Faxon, Chattanooga, and the participating public-school systems of Lawton, Sterling, Cache, and Geronimo are affected by earthquakes.

Comanche County Seismic Map



10/4/2022, 11:24:00 AM

Seismic Hazard

0 – 6 (where the lower the value, the lower the hazard)

6 – 12

12 – 20

20 – 30

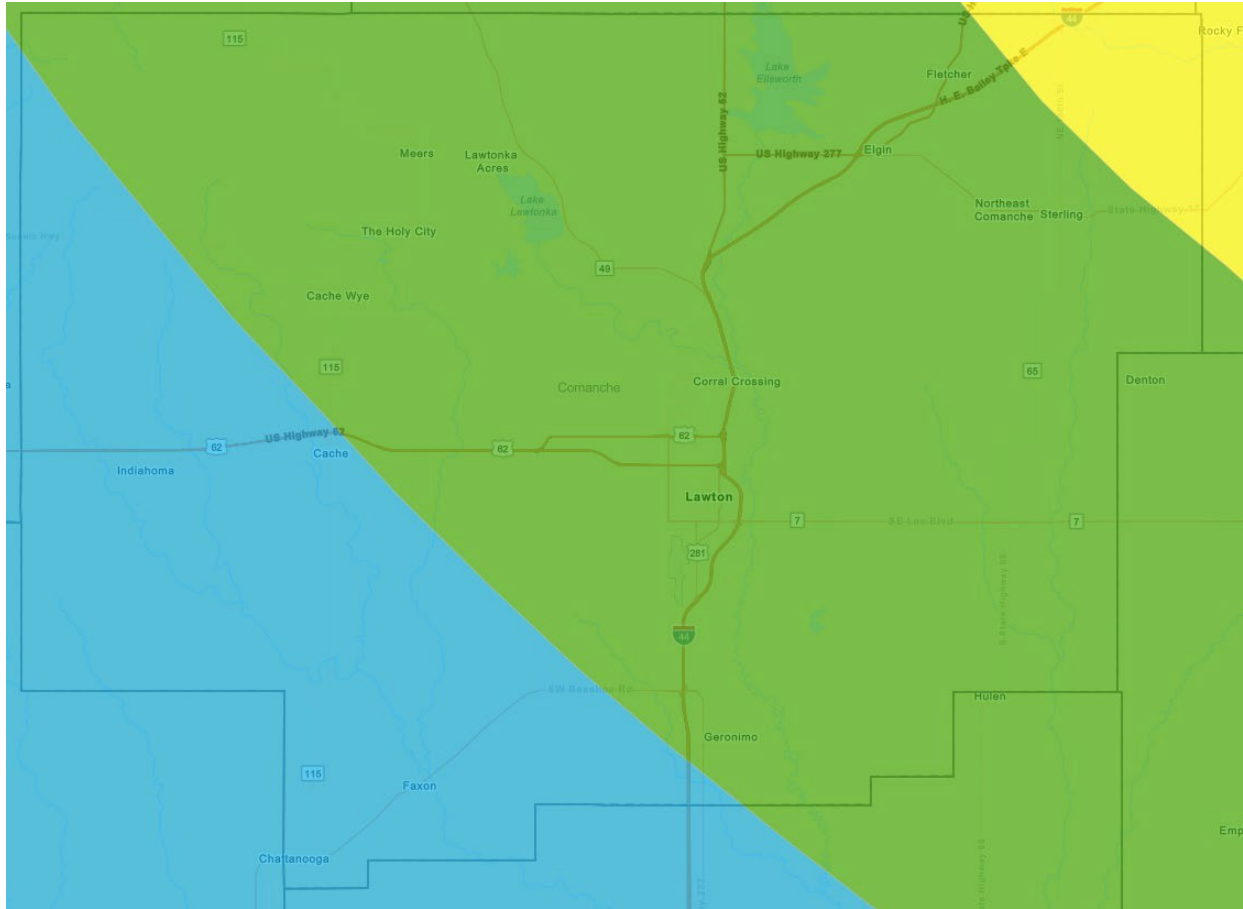
30 – 50

County Boundaries (click on county for CRI Indicators)



Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS | NOAA/NWS/IHC | National Weather Service | NOAA Office for Coastal Management | This EPA Geospatial data set is generated from the following national environmental program: National Pollutant Discharge Resilience Analysis and Planning Tool



<https://fema.maps.arcgis.com/apps/webappviewer/index.html?id=90c0c996a5e242a79345cdbc5f758fc6>

Extent

The Planning Area uses the Modified Mercalli Scale with Richter Magnitude Approximations to measure Earthquakes. The following scale depicts two standard measurements to classify an earthquake's extent: magnitude and intensity. These measures are sometimes referred to as the Richter Scale (magnitude) and the Modified Mercalli (intensity). Given the unpredictability of earthquake events, the Planning Area can experience any magnitude on the scale but expects to experience earthquakes that range from I to IV.

The Modified Mercalli Scale with Richter Magnitude Approximations

Richter Magnitude (Approx.)	Mercalli	Description	Earthquake Effects
1-2	I	Instrumental	Not felt except by a very few under especially favorable conditions.
2-3	II	Feeble	Felt only by a few persons at rest, especially on upper floors of buildings.
3-4	III	Slight	Felt quite noticeably by people indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations are similar to the passing of a truck. Duration estimated.
4	IV	Moderate	Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.
4-5	V	Rather Strong	Felt by nearly everyone; many awakened. Some dishes and windows were broken. Unstable objects overturned. Pendulum clocks may stop.
5-6	VI	Strong	Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.

6	VII	Very Strong	Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken.
6-7	VIII	Destructive	Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage is great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned.
7	IX	Ruinous	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage is great in substantial buildings, with partial collapse. Buildings shifted off foundations.
7-8	X	Disastrous	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bent.
8	XI	Very Disastrous	Few, if any (masonry) structures remain standing. Bridges destroyed. Rails bent greatly.
8+	XII	Catastrophic	Damage total. Lines of sight and level are distorted. Objects thrown into the air.

Source: <http://earthquake.usgs.gov/learn/topics/mercalli.php>

Previous Occurrences (2013 – 2023)

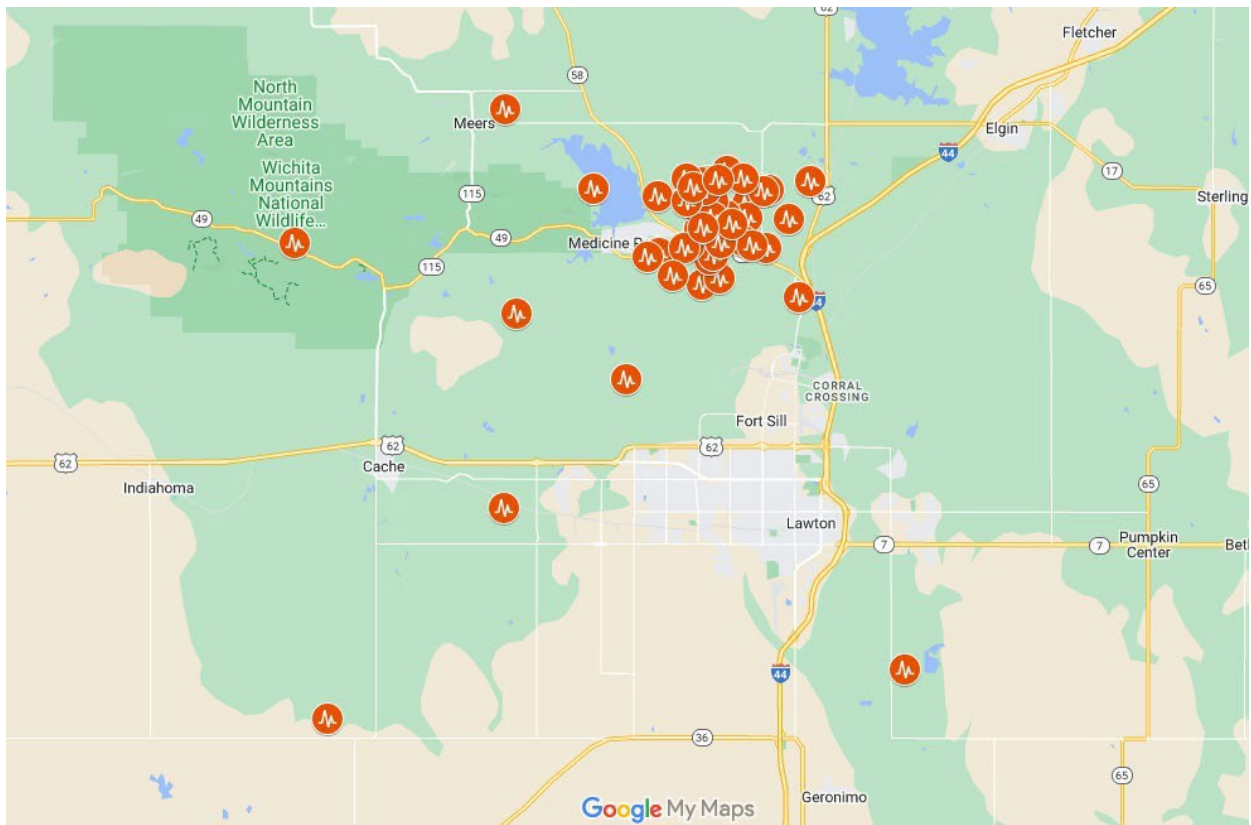
There are 50 previously reported instances of earthquakes as recorded by the U.S. Geological Survey.

Year	# Of Earthquake Events	Range of Magnitude of Earthquake Events
2013	1	Undetected - 2.5
2014	1	Undetected – 1.6
2015	0	
2016	0	
2017	0	
2018	0	
2019	2	Undetected – 1.4 Undetected – 1.8
2020	13	Undetected – 1.9 Undetected – 2.6 Undetected – 1.4 Undetected – 1.1 Undetected – 1.8 Undetected – 1.7 Undetected – 1.5 Undetected – 1.5 Undetected – 1.5 Undetected – 1.5 Undetected – 1.6 Undetected – 1.7 Undetected – 1.6
2021	11	Undetected – 1.4 Undetected – 1.5 Undetected – 1.5 Undetected – 2.2 Undetected – 1.1 Undetected – 1.5 Undetected – 1.6 Undetected – 1.6 Undetected – 1.3 Undetected – 1.6 Undetected – 1.2
2022	8	Undetected – 1.6 Undetected – 1.6 Undetected – 1.4 Undetected – 1.3 Undetected – 1.1 Undetected – 2.8 Undetected – 1.5 Undetected – 1.2
2023	14	Undetected – 2.1 Undetected – 1.5 Undetected – 1.5 Undetected – 1.5

		Undetected - 1.2
		Undetected - 1.3
		Undetected - 1.3
		Undetected - 1.3
		Undetected - 1.2
		Undetected - 1.4
		Undetected - 1.8
		Undetected - 1.4
		Undetected - 1.4
		Undetected - 1.4

Source: Source: <https://www.ou.edu/ogs/research/earthquakes/catalogs>

Comanche County Earthquakes 2013-2023



Probability of Future Events

The probability of a destructive earthquake event is low, however, the probability of earthquakes, especially those quantifying as “undetectable”, is high.

Climatological Influence on Earthquake Hazard

As Comanche County, Oklahoma, experiences long-term climatological changes, there is growing concern regarding their potential impact on seismic activity in the region. While Oklahoma is not traditionally associated with high seismicity, the proliferation of oil and gas extraction activities, including hydraulic fracturing, has led to an increase in induced earthquakes in recent years. Changes in underground fluid pressures resulting from these activities can trigger seismic events, altering the type, location, and intensity of earthquakes experienced in the region. Additionally, long-term climatological changes, such as alterations in groundwater levels or changes in pore pressure within fault zones, may further influence seismic activity patterns.

Vulnerability and Impact

A major earthquake centered in or near the Comanche County Planning Area could have a wide-reaching impact. People, structures, property, transportation, utilities, and the economy are all vulnerable to the effects of earthquakes.

Jurisdiction	Vulnerability	Impact
Comanche County	Comanche County contains a significant portion of Interstate 44 as well as other major state transportation arteries such as State Highway 7 and State Highway 62. Roadways and bridges are not able to withstand the impact of an earthquake.	Impacted transportation routes could critically impact emergency services from responding to injured, damaged infrastructure, or other secondary hazards. The number of commuting traffic would also lead to hundreds or possibly thousands of people stranded, injured, or killed.
City of Lawton	Lawton contains the largest percentage of the population; thus, an impactful earthquake would create significant loss of life and critical community lifelines. The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72	Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted. Structural collapse of a critical building could render emergency services unable to respond due to loss of equipment or personnel injury, leading to cascading effects of loss of

	hours to a week. Additionally, many city-owned buildings are not rated to withstand a significant earthquake which could lead to loss of critical emergency services.	structures, citizens, and economic stability.
Lawton Public Schools	Lawton Public School does not have straps or buckles to secure tall shelving and equipment during an Earthquake Event.	This can cause the equipment or shelving to topple. Unstable equipment can cause injury to a student or faculty member during an Earthquake.
City of Cache	The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week	Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.
Cache Public Schools	Cache Public School does not have straps or buckles to secure tall shelving and equipment during an Earthquake Event.	This can cause the equipment or shelving to topple. Unstable equipment can cause injury to a student or faculty member during an Earthquake.
Town of Chattanooga	The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week	Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.
City of Elgin	The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week	Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.
Town of Faxon	The Residents lack education on the importance of planning for an	Lack of Preparedness for an earthquake event puts families at

	<p>earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week</p>	<p>risk if transportation routes and critical services are disrupted.</p>
Town of Fletcher	<p>The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week</p>	<p>Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.</p>
City of Geronimo	<p>The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week</p>	<p>Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.</p>
Geronimo Public School	<p>Geronimo Public School does not have straps or buckles to secure tall shelving and equipment during an Earthquake Event.</p>	<p>This can cause the equipment or shelving to topple. Unstable equipment can cause injury to a student or faculty member during an Earthquake.</p>
Town of Indiahoma	<p>The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week</p>	<p>Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.</p>
Town of Medicine Park	<p>The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness</p>	<p>Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.</p>

	kit of food and supplies to sustain them for 72 hours to a week	
Town of Sterling	The Residents lack education on the importance of planning for an earthquake event, and how an event might damage transportation routes. They have not been educated on the importance of having a preparedness kit of food and supplies to sustain them for 72 hours to a week	Lack of Preparedness for an earthquake event puts families at risk if transportation routes and critical services are disrupted.
Sterling Public Schools	Sterling Public School does not have straps or buckles to secure tall shelving and equipment during an Earthquake Event.	This can cause the equipment or shelving to topple. Unstable equipment can cause injury to a student or faculty member during an Earthquake.

Impacts

While less frequent, earthquakes pose a significant risk to Comanche County. Development without consideration for seismic resilience, including proper building codes and structural reinforcement, can lead to devastating consequences in the event of an earthquake. It is crucial to prioritize earthquake-resistant infrastructure and preparedness measures to mitigate the impacts of seismic events on our community.

Chapter 4: Mitigation Strategy

4.1 Jurisdictional Capability Assessments

The following is a profile of each jurisdiction and indicates a general capability of each jurisdiction’s ability to plan, develop policies, and implement hazard mitigation strategies.

Each jurisdiction does have the legal authority granted by the State of Oklahoma to develop policy, plan, and implement hazard mitigation actions. Each completed action will be incorporated into the entity’s ordinance code book, their Capital Improvement Plan (CIP), comprehensive plan, and EOP, as necessary. Cities and towns must depend on utility fees, private donations, sales and use taxes, or grants to finance hazard mitigation projects. All school districts have bonding capability through ad-valorem taxation. This only applies to special projects with a super majority (60%) approval vote.

Building Codes, Permitting, and Inspections

This table provides an overview of the existing Ordinances or Resolutions which regulate and enforce the adherence to the minimum State Building Code.

Jurisdiction	Building Permits	ISO	Site Plan Review
Comanche County	No	N/A	No
Lawton	Yes	01	Yes
Cache	Yes	04	Yes
Chattanooga	Yes	04	Yes
Elgin	Yes	04	Yes
Faxon	No	04 combined w/ Chattanooga	No
Fletcher	Yes	06	Yes
Geronimo	Yes	03	Yes
Indiahoma	Yes	04	Yes
Medicine Park	Yes	04	Yes
Sterling	Yes	06	Yes
Bethel Road*	No	09	No
Cox’s Store*	No	8b	No
Edgewater Park*	No	04	No
Flowermound*	No	09	No
Hulen*	No	09	No
Meers*	No	05	No
Paradise Valley*	No	09	No
Pecan Creek*	No	06	No
Porter Hill*	No	09	No
Valley View*	No	03	No
Wichita Mtn Estates*	No	04	No
*Denotes a Fire Protection District			

Jurisdiction Specific Capabilities

Jurisdiction	Capabilities	How Jurisdiction can build upon their Capabilities
<p>Comanche County</p>	<p>Building Codes: Comanche County has no building codes.</p> <p>Building Permits/Building Inspections: Comanche County adopted in 2009 a Floodplain Ordinance. Floodplain Permits are required in Comanche County for all development.</p> <p>Capital Improvements: Yes</p> <p>Planned Capital Projects for Hazard Mitigation: Yes</p> <p>Planned Property Protection Projects: No</p> <p>Comprehensive Plan: Yes</p> <p>Planning and/or Zoning Board: Comanche County has no Zoning Codes.</p> <p>Zoning Code: Comanche County has no Zoning Codes.</p> <p>Floodplain Management: Comanche County participates in NFIP.</p> <p>Floodplain Manager: Yes</p> <p>National Flood Insurance Program: Comanche County participates in FEMA’s National Flood Insurance Program (NFIP). Unincorporated Comanche County now has 19 repetitive loss structures. One structure is a home-business combination. All others are residential.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provides ambulance services for Comanche County.</p> <p>Emergency Manager: Yes</p> <p>Emergency Operations Plan: Comanche County has its own Emergency Operations Plan in place.</p>	<p>Comanche County can increase preparedness capacity through the implementation of Firewise, building of a Community Wildfire Protection Plan, and mapping wildland-urban interface areas. Additionally, the development of zoning and planning board and regulations.</p>

	<p>Comanche County Fire Protection: Comanche County is protected by Volunteer Fire Departments assembled in 20 districts.</p> <p>Fire Wise Program: Comanche County does not participate in the Fire Wise Program.</p> <p>Hospitals: Comanche County has three (3) Hospitals. Comanche County Memorial Hospital, Southwestern Medical Center, and USPHS Lawton Indian Hospital all located in Lawton.</p> <p>Law Enforcement: Comanche County Sheriff's Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Comanche County does not have outdoor warning sirens in unincorporated areas. Each municipality maintains their own warning system. Comanche County maintains ReGroup, a mass notification system with IPAWS and CAP integration to residents.</p>	
<p>Lawton</p>	<p>Land Use Management</p> <p>Building Codes: The City of Lawton's municipal codes adopted the international building codes for the city's building codes.</p> <p>Building Permits/Building Inspections: Yes, Lawton Has a Code Enforcement Officer. Lawton has Floodplain Ordinances.</p> <p>Capital Improvements: Yes</p> <p>Planned Capital Projects for Hazard Mitigation: Yes</p> <p>Planned Property Protection Projects: Yes</p> <p>Comprehensive Plan: Yes</p> <p>Planning and/or Zoning Board: Lawton has planning and zoning in place.</p>	<p>Lawton can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

	<p>Zoning Code: Zoning Code is updated annually, and so are Subdivision Regulations.</p> <p>Floodplain Management: Yes</p> <p>Floodplain Manager: Yes</p> <p>National Flood Insurance Program. Lawton does participate in FEMA’s National Flood Insurance Program (NFIP). There are 42 Repetitive Loss and 3 Severe Repetitive Loss Properties, all of which are residential.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Lawton.</p> <p>Emergency Manager: Yes</p> <p>Emergency Operations Plan: Yes</p> <p>Fire Protection: Lawton Fire Department Central Station is located at 623 SW D Ave, Lawton, OK. The Department consists of 8 standalone stations located across the city. They currently maintain an ISO Rating of 1.</p> <p>Fire Wise Program: City of Lawton does not participate in the Fire Wise Program.</p> <p>Hospitals: Lawton has three (3) Hospitals. Comanche County Memorial Hospital located at 3401 West Gore Blvd, Southwestern Medical Center located at 5602 SW Lee Blvd, and USPHS Lawton Indian Hospital located at 1515 NE Lawrie Tatum Rd, all located in Lawton.</p> <p>Law Enforcement: Lawton Police Department is located at 100 South Railroad St, Lawton Ok.</p> <p>Storm Ready Program: Yes</p>	
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	<p>Warning Systems: City of Lawton maintains an outdoor warning system as well as mass notification system for residents.</p>	
<p>Cache</p>	<p>Land Use Management</p> <p>Building Codes: Yes Building Permits/Building Inspections: Yes Capital Improvements: Yes Planned Capital Projects for Hazard Mitigation: No Planned Property Protection Projects: No Comprehensive Plan: Yes Planning and/or Zoning Board: Yes Zoning Code: Zoning Code is updated annually, and so are Subdivision Regulations. Cache also has a Floodplain Ordinance.</p> <p>Floodplain Management: Yes Floodplain Manager: Yes</p> <p>National Flood Insurance Program. Cache does participate in FEMA’s National Flood Insurance Program (NFIP). There are 5 Repetitive Loss structures, all of which are residential.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Cache.</p> <p>Emergency Manager: Yes Emergency Operations Plan: Yes</p> <p>Fire Protection: Cache Volunteer Fire Department provides Fire and EMR Services to City of Cache and surrounding residents.</p> <p>Fire Wise Program: City of Cache does not participate in the Fire Wise Program.</p>	<p>Cache can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

	<p>Hospitals: Cache does not have any hospitals within its' city limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Cache Police Department and Comanche County Sheriff's Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: City of Cache maintains an outdoor warning system.</p>	
<p>Chattanooga</p>	<p>Land Use Management</p> <p>Building Codes: Yes</p> <p>Building Permits/Building Inspections: Yes</p> <p>Capital Improvements: Yes</p> <p>Planned Capital Projects for Hazard Mitigation: No</p> <p>Planned Property Protection Projects: No</p> <p>Comprehensive Plan: No</p> <p>Planning and/or Zoning Board: No</p> <p>Zoning Code: Zoning Code is updated annually.</p> <p>Floodplain Management: No</p> <p>Floodplain Manager: No</p> <p>National Flood Insurance Program. Chattanooga does not participate in FEMA's National Flood Insurance Program (NFIP). There is no designated Floodplain Zone A within town limits. There are no repetitive loss structures.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Chattanooga</p> <p>Emergency Manager: Yes</p> <p>Emergency Operations Plan: Yes</p> <p>Fire Protection: Chattanooga Volunteer Fire Department provides Fire and EMR</p>	<p>Chattanooga can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

	<p>Services to Town of Chattanooga and surrounding residents.</p> <p>Fire Wise Program: The Town of Chattanooga does not participate in the Fire Wise Program.</p> <p>Hospitals: Chattanooga does not have any hospitals within its' town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Chattanooga Police Department and Comanche County Sheriff's Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Chattanooga Volunteer Fire Department maintains an outdoor warning system.</p>	
<p>Elgin</p>	<p>Land Use Management</p> <p>Building Codes: Yes</p> <p>Building Permits/Building Inspections: Yes</p> <p>Capital Improvements: Yes</p> <p>Planned Capital Projects for Hazard Mitigation: No</p> <p>Planned Property Protection Projects: Yes</p> <p>Comprehensive Plan: No</p> <p>Planning and/or Zoning Board: Yes</p> <p>Zoning Code: Zoning Code is updated annually. Elgin also has a Floodplain Ordinance.</p> <p>Floodplain Management: Yes</p> <p>Floodplain Manager: Yes</p> <p>National Flood Insurance Program. Elgin participates in FEMA's National Flood Insurance Program (NFIP). There are no repetitive loss structures.</p> <p>Emergency Services and Management</p>	<p>Elgin can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

	<p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Elgin</p> <p>Emergency Manager: No</p> <p>Emergency Operations Plan: No</p> <p>Fire Protection: Elgin Volunteer Fire Department provides Fire and EMR Services to the City of Elgin and surrounding residents.</p> <p>Fire Wise Program: The City of Elgin does not participate in the Fire Wise Program.</p> <p>Hospitals: Elgin does not have any hospitals within its' town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Elgin Police Department and Comanche County Sheriff's Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: City of Elgin maintains an outdoor warning system.</p>	
<p>Faxon</p>	<p>Land Use Management</p> <p>Building Codes: No</p> <p>Building Permits/Building Inspections: No</p> <p>Capital Improvements: No</p> <p>Planned Capital Projects for Hazard Mitigation: No</p> <p>Planned Property Protection Projects: No</p> <p>Comprehensive Plan: No</p> <p>Planning and/or Zoning Board: No</p> <p>Zoning Code: The Town of Faxon is unable to locate their current Floodplain regulation or ordinance.</p> <p>Floodplain Management: Yes</p> <p>Floodplain Manager: No</p> <p>National Flood Insurance Program. Faxon does participate in FEMA's National Flood Insurance Program (NFIP). There are no repetitive loss structures.</p>	<p>Faxon can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p> <p>Faxon can also increase their capability by identifying and appointing a dedicated Floodplain Administrator and by developing and implementing a local Floodplain Ordinance.</p>

	<p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Faxon.</p> <p>Emergency Manager: No</p> <p>Emergency Operations Plan: No</p> <p>Fire Protection: Chattanooga Volunteer Fire Department provides Fire and EMR Services to Town of Faxon and surrounding residents.</p> <p>Fire Wise Program: The Town of Faxon does not participate in the Fire Wise Program.</p> <p>Hospitals: Faxon does not have any hospitals within its' town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Chattanooga Police Department and Comanche County Sheriff's Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Chattanooga Volunteer Fire Department maintains an outdoor warning system.</p>	
<p>Fletcher</p>	<p>Land Use Management</p> <p>Building Codes: Yes</p> <p>Building Permits/Building Inspections: Yes</p> <p>Capital Improvements: Yes</p> <p>Planned Capital Projects for Hazard Mitigation: No</p> <p>Planned Property Protection Projects: No</p> <p>Comprehensive Plan: No</p> <p>Planning and/or Zoning Board: Yes</p> <p>Zoning Code: Zoning Code is updated annually.</p> <p>Floodplain Management: No</p> <p>Floodplain Manager: No</p>	<p>Fletcher can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

	<p>National Flood Insurance Program. Fletcher does not participate in FEMA’s National Flood Insurance Program (NFIP). There are no repetitive loss structures.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Fletcher</p> <p>Emergency Manager: Yes</p> <p>Emergency Operations Plan: Yes</p> <p>Fire Protection: Fletcher Volunteer Fire Department provides Fire and EMR Services to Town of Fletcher and surrounding residents.</p> <p>Fire Wise Program: The Town of Fletcher does not participate in the Fire Wise Program.</p> <p>Hospitals: Fletcher does not have any hospitals within its’ town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Fletcher Police Department and Comanche County Sheriff’s Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Fletcher Volunteer Fire Department maintains an outdoor warning system.</p>	
<p>Geronimo</p>	<p>Land Use Management</p> <p>Building Codes: Yes</p> <p>Building Permits/Building Inspections: Yes</p> <p>Capital Improvements: Yes</p> <p>Planned Capital Projects for Hazard Mitigation: No</p> <p>Planned Property Protection Projects: Yes</p> <p>Comprehensive Plan: Yes</p> <p>Planning and/or Zoning Board: Yes</p> <p>Zoning Code: Zoning Code is updated</p>	<p>Geronimo can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

	<p>annually.</p> <p>Floodplain Management: No</p> <p>Floodplain Manager: No</p> <p>National Flood Insurance Program. Geronimo does not participate in FEMA’s National Flood Insurance Program (NFIP). There are no repetitive loss structures.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Geronimo</p> <p>Emergency Manager: No</p> <p>Emergency Operations Plan: No</p> <p>Fire Protection: Geronimo Volunteer Fire Department provides Fire and EMR Services to the City of Geronimo and surrounding residents.</p> <p>Fire Wise Program: The City of Geronimo does not participate in the Fire Wise Program.</p> <p>Hospitals: Geronimo does not have any hospitals within its’ town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Geronimo Police Department and Comanche County Sheriff’s Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Geronimo Volunteer Fire Department maintains an outdoor warning system.</p>	
<p>Indiahoma</p>	<p>Land Use Management</p> <p>Building Codes: No</p> <p>Building Permits/Building Inspections: No</p> <p>Capital Improvements: No</p> <p>Planned Capital Projects for Hazard Mitigation: No</p> <p>Planned Property Protection Projects: No</p>	<p>Indiahoma can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural</p>

	<p>Comprehensive Plan: No Planning and/or Zoning Board: No Zoning Code: Indiahoma has a Floodplain Ordinance.</p> <p>Floodplain Management: Yes</p> <p>Floodplain Manager: No</p> <p>National Flood Insurance Program. Indiahoma does participate in FEMA’s National Flood Insurance Program (NFIP). There are no repetitive loss structures.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Indiahoma</p> <p>Emergency Manager: No</p> <p>Emergency Operations Plan: No</p> <p>Fire Protection: Indiahoma Volunteer Fire Department provides Fire and EMR Services to Town of Indiahoma and surrounding residents.</p> <p>Fire Wise Program: The Town of Indiahoma does not participate in the Fire Wise Program.</p> <p>Hospitals: Indiahoma does not have any hospitals within its’ town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Comanche County Sheriff’s Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Indiahoma does not have an outdoor warning system.</p>	<p>and human-made disasters.</p> <p>Indiahoma can increase capability by identifying and appointing a dedicated Floodplain Administrator.</p>
<p>Medicine Park</p>	<p>Land Use Management</p> <p>Building Codes: Yes</p> <p>Building Permits/Building Inspections: Yes</p> <p>Capital Improvements: Yes</p> <p>Planned Capital Projects for Hazard</p>	<p>Medicine Park can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural</p>

	<p>Mitigation: No</p> <p>Planned Property Protection Projects: Yes</p> <p>Comprehensive Plan: Yes</p> <p>Planning and/or Zoning Board: Yes</p> <p>Zoning Code: Zoning Code is updated annually. Medicine Park also has a Floodplain Ordinance.</p> <p>Floodplain Management: Yes</p> <p>Floodplain Manager: Yes</p> <p>National Flood Insurance Program. Medicine Park does participate in FEMA’s National Flood Insurance Program (NFIP). There are no repetitive loss structures.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Medicine Park.</p> <p>Emergency Manager: Yes</p> <p>Emergency Operations Plan: Yes</p> <p>Fire Protection: Medicine Park Volunteer Fire Department provides Fire and EMR Services to Town of Medicine Park and surrounding residents.</p> <p>Fire Wise Program: The Town of Medicine Park does not participate in the Fire Wise Program.</p> <p>Hospitals: Medicine Park does not have any hospitals within its’ town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Medicine Police Department and Comanche County Sheriff’s Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Medicine Park does not have an outdoor warning system.</p>	<p>and human-made disasters.</p>
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<p>Sterling</p>	<p>Land Use Management</p> <p>Building Codes: Yes Building Permits/Building Inspections: Yes Capital Improvements: Yes Planned Capital Projects for Hazard Mitigation: No Planned Property Protection Projects: No Comprehensive Plan: No Planning and/or Zoning Board: Yes Zoning Code: Zoning Code is updated annually. Sterling also has a Floodplain Ordinance.</p> <p>Floodplain Management: Yes Floodplain Manager: Yes</p> <p>National Flood Insurance Program. Sterling does participate in FEMA’s National Flood Insurance Program (NFIP). There are no repetitive loss structures.</p> <p>Emergency Services and Management</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance provide ambulance services for Sterling.</p> <p>Emergency Manager: No Emergency Operations Plan: No</p> <p>Fire Protection: Sterling Volunteer Fire Department provides Fire and EMR Services to Town of Sterling and surrounding residents.</p> <p>Fire Wise Program: The Town of Sterling does not participate in the Fire Wise Program.</p> <p>Hospitals: Sterling does not have any hospitals within its’ town limits. It relies on the three (3) Hospitals located in Lawton.</p> <p>Law Enforcement: Sterling Police Department and Comanche County</p>	<p>Sterling can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>
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	<p>Sheriff's Office</p> <p>Storm Ready Program: Yes</p> <p>Warning Systems: Town of Sterling maintains an outdoor warning system.</p>	
<p>Lawton Public Schools</p>	<p>Capital Improvements Plan: Yes</p> <p>Emergency Management Plan and/or procedures in place: Yes</p> <p>Budget to raise funds for mitigation (bond): Yes</p> <p>Ways to raise funds through public partnerships, corporate donations etc.: Yes</p> <p>Designated emergency manager (even as a secondary position): Yes</p> <p>PTO/PTA: Yes</p> <p>Training for teachers to practice natural hazard response: Yes</p> <p>Training for teachers/coaches to ensure consistency in evaluating lightning: Yes</p> <p>Post-Disaster Recovery Plan: Yes</p> <p>Storm Ready: Yes</p> <p>Firewise: No</p> <p>Building Codes: Lawton Public Schools abides by the state required codes for the schools.</p> <p>Fire Protection: Lawton Fire Department is responsible for responding to a fire at Lawton Public Schools.</p> <p>Hospitals: There are three hospitals which are immediately available in the city of Lawton, Comanche County Memorial Hospital, Southwestern Medical Center, and USPHS Indian Hospital.</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Ambulance</p>	<p>Lawton Public Schools can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

<p>Cache Public Schools</p>	<p>Capital Improvements Plan: Yes</p> <p>Emergency Management Plan and/or procedures in place: Yes</p> <p>Budget to raise funds for mitigation (bond): Yes</p> <p>Ways to raise funds through public partnerships, corporate donations etc.: Yes</p> <p>Designated emergency manager (even as a secondary position): Yes</p> <p>PTO/PTA: Yes</p> <p>Training for teachers to practice natural hazard response: Yes</p> <p>Training for teachers/coaches to ensure consistency in evaluating lightning: Yes</p> <p>Post-Disaster Recovery Plan: Yes</p> <p>Storm Ready: Yes</p> <p>Firewise: No</p> <p>Building Codes: Cache Public Schools abides by the state’s required codes for the schools.</p> <p>Fire Protection: Cache Fire Department is responsible for responding to fires at Cache Public Schools.</p> <p>Hospitals: The closest hospital to Cache within Comanche County is Southwestern Medical Center. Comanche County Memorial Hospital and USPHS Lawton Indian Hospital are both additional options.</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Hospital.</p>	<p>Cache Public Schools can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>
<p>Geronimo Public Schools</p>	<p>Capital Improvements Plan: Yes</p> <p>Emergency Management Plan and/or procedures in place: Yes</p>	<p>Geronimo Public Schools can increase capability by engaging in citywide drills and exercises to increase</p>

	<p>Budget to raise funds for mitigation (bond): Yes</p> <p>Ways to raise funds through public partnerships, corporate donations etc.: Yes</p> <p>Designated emergency manager (even as a secondary position): Yes</p> <p>PTO/PTA: Yes</p> <p>Training for teachers to practice natural hazard response: Yes</p> <p>Training for teachers/coaches to ensure consistency in evaluating lightning: Yes</p> <p>Post-Disaster Recovery Plan: Yes</p> <p>Storm Ready: Yes</p> <p>Firewise: No</p> <p>Building Codes: Geronimo Public Schools abides by the state’s required codes for the schools.</p> <p>Fire Protection: Geronimo Fire Department is responsible for responding to fires at Geronimo Public Schools.</p> <p>Hospitals: The closest hospital to Geronimo within Comanche County is Southwestern Medical Center. Comanche County Memorial Hospital and USPHS Lawton Indian Hospital are both additional options.</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Hospital.</p>	<p>readiness and preparedness to natural and human-made disasters.</p>
<p>Sterling Public Schools</p>	<p>Capital Improvements Plan: Yes</p> <p>Emergency Management Plan and/or procedures in place: Yes</p> <p>Budget to raise funds for mitigation (bond): Yes</p> <p>Ways to raise funds through public</p>	<p>Sterling Public Schools can increase capability by engaging in citywide drills and exercises to increase readiness and preparedness to natural and human-made disasters.</p>

	<p>partnerships, corporate donations etc.: Yes</p> <p>Designated emergency manager (even as a secondary position): Yes</p> <p>PTO/PTA: Yes</p> <p>Training for teachers to practice natural hazard response: Yes</p> <p>Training for teachers/coaches to ensure consistency in evaluating lightning: Yes</p> <p>Post-Disaster Recovery Plan: Yes</p> <p>Storm Ready: Yes</p> <p>Firewise: No</p> <p>Building Codes: Sterling Public Schools abides by the state’s required codes for the schools.</p> <p>Fire Protection: Sterling Fire Department is responsible for responding to fires at Sterling Public Schools.</p> <p>Hospitals: The closest hospital to Sterling within Comanche County is Comanche County Memorial Hospital. Southwestern Medical Center and USPHS Lawton Indian Hospital are both additional options.</p> <p>Ambulance Service: Kirks EMS and Comanche County Memorial Hospital.</p>	
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4.2 NFIP Participation and Repetitive Loss

The Severe Repetitive Loss (SRL) Grant Program under FEMA provides federal funding to assist states and communities in implementing mitigation measures to reduce or eliminate the long-term risk of flood damage to severe repetitive loss residential structures insured under the NFIP. The Oklahoma Water Resource Board (OWRB) administers the SRL grant program for the State of Oklahoma. One of the goals of the FMA program is to reduce the burden of repetitive loss and severe repetitive loss properties on the NFIP through mitigation activities that significantly reduce or eliminate the threat of future flood damages.

Repetitive Loss properties are defined as structures that are:

- Any insurable building for which 2 or more claims of more than \$1,000 each, paid by the National Flood Insurance Program (NFIP) within any 10-year period, since 1978.
- May or may not be currently insured under the NFIP.

Severe Repetitive Loss properties are defined as residential properties that are:

- Covered under the NFIP and have at least four flood related damage claim payments (building and contents) over \$5,000.00 each, and the cumulative amount of such claims payments exceed \$20,000; or
- At least two separate claim payments (building payments only) have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building. In either scenario, at least two of the referenced claims must have occurred within any ten-year period and must be greater than 10 days apart.

Substantial Damage Determination Provisions by Jurisdiction

Jurisdiction	Substantial Damage Determination Provisions by Jurisdiction	Date Adopted
Town of Medicine Park	14-105	January, 2020 ¹⁷
City of Lawton	19A-2-1-206	June 2009
Comanche County	Article II	July 2009
City of Elgin	10-2-1	June 2013
City of Cache	6-3, 1-156	May 2021 ¹⁸
Town of Sterling	Not Adopted	
Town of Faxon	Not Adopted	

¹⁷ Date of last known adoption

¹⁸ *ibid*

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Town of Indiahoma	Not Adopted	
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NFIP Status by Jurisdiction

Jurisdiction	Total Repetitive Loss Structures and Type	NFIP Compliance Status
Comanche County	18 Repetitive Loss (Residential) 1 Repetitive Loss (Commercial)	Comanche County will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements. Comanche County will also increase efforts to educate citizens on the benefits of having NFIP flood insurance. The Comanche County Floodplain Manager <u>does not</u> provide Floodplain Administration for any identified jurisdiction other than unincorporated Comanche County.
City of Lawton	42 Repetitive Loss (Residential) 3 Severe Repetitive Loss (Residential)	Lawton will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements. Lawton will also continue to promote an encourage flood insurance and public participation in the NFIP, through public education and public service initiatives.
City of Cache	5 Repetitive Loss Structures (Residential)	Cache will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements. Cache will also continue to promote an encourage flood insurance and public participation in the NFIP, through public education and public service initiatives.
Town of Chattanooga	N/A	Chattanooga does not participate in NFIP due to not containing any Special Flood Hazard Areas within their

		jurisdictional boundaries and has no residents requiring flood insurance.
City of Elgin	0	Elgin will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements.
Town of Faxon	0	Faxon will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements.
Town of Fletcher	N/A	Fletcher does not participate in the NFIP because they have not shown interest due to a lack of applicable residents requiring flood insurance.
City of Geronimo	N/A	Geronimo does not participate in the NFIP because they have not shown interest due to a lack of applicable residents requiring flood insurance.
Town of Indianahoma	0	Indianahoma will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements.
Town of Medicine Park	0	Medicine Park will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements. Medicine Park will also continue to promote an encourage flood insurance and public participation in the NFIP, through public education and public service initiatives.
Town of Sterling	0	Sterling will continue to enforce Floodplain ordinances in Special Flood Hazard Areas to maintain compliance with NFIP requirements.

4.3 Mitigation Goals:

Goal 1: Minimize loss of life and property

Goal 2: Protect public health and safety

Goal 3: Increase public awareness of risk from natural hazards and disasters

Goal 4: Reduce risk and effects of natural hazards and disasters

Goal 5: Identify hazards and assess risk for Planning Area

Goal 6: Improve Building construction to reduce dangers of natural hazards

4.4 Mitigation Strategy:

All participating Jurisdictions within the Comanche County Planning Area submitted jurisdiction-specific Hazard Mitigation Strategies and Projects. A comprehensive list is located in Appendix A.

4.5 Action Item Prioritization

The Hazard Mitigation Plan Advisory Committee members from each participating jurisdiction in the Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan Update will consider five primary considerations when prioritizing mitigation measures: Of most importance when determining priority is the protection of life; mitigation measures that ultimately prevent the loss of life in the Planning Area, its Communities and Public-School Districts will be placed at highest priority. Secondly, the participating jurisdictions will identify which mitigation measures will prevent loss of property; each jurisdiction will look at which hazards have caused the most property loss based on past event data. Third, the jurisdictions will consider which mitigation measures address multiple hazards in preventing loss of life and/or property; for example, public education and outreach programs mitigate against all hazards where lightning warning systems mitigate against only one hazard. Next, an estimate will be made to determine the population served by each mitigation measure. Mitigation measures that are determined to do the greatest good for the greatest number of people will be placed at higher priority than those that protect only a small portion of the population overall. Lastly, the cost of each project will be considered by each participating jurisdiction in the prioritization of mitigation measures. Project costs are continually changing. Therefore, a Benefit Cost Analysis (BCA) will be completed as funds become available and during project development. For mitigation measures in which it is not feasible to conduct a BCA, justification of project costs will be identified during project development.

In addition to the five criteria mentioned, the STAPLEE process, recommended by FEMA, will be heavily relied upon in prioritizing mitigation measures for The Planning Area, its Communities and Public-School Districts. Other considerations prioritizing the mitigation measures for each participating jurisdiction include historical considerations and post-disaster conditions.

STAPLEE – Prioritization and Review Criteria for Natural Hazard Mitigation Plan

Evaluation Category	Sources of Information and Review for the Comanche County HMP
Social	Over 27 federal, state, local, and non-profit agencies and organizations were contacted and had input during the planning process. Some were team members, others participated by identifying critical facilities. The selected mitigation action projects were considered to do the most good for the greatest amount of people.
Technical	The following personnel/agencies were consulted as to the technical feasibility of the projects: Department of the Interior Fish and Wildlife Service, BIA, USDA, NRCS, OWRB, Oklahoma Department of Wildlife, DoD, ASCOG, AAA, LEPC, Comanche County School Administration Association, Western Farmers Electric Cooperative, Southwestern Electric Cooperative, Cotton Electric Cooperative, Association of County Commissioners, Comanche County Conservation District, and the Comanche County Natural Hazard Mitigation Planning Committee. It was agreed the selected actions would provide the best long-term solutions.
Administrative	Based on available funding, capability assessments, and organization responsibilities, staffing for implementation of the plan will rely on existing personnel.
Political	Representatives from state, federal, county, local, and non-profit agencies attended the county-wide meetings and were consensual.
Legal	The plan was presented to all participating agencies and authorities. In their opinion, no legal issues were involved in the actions selected.
Economic	Economic issues were discussed by all involved. It was felt, based on the benefit/cost analysis presented, and economic impact assessments, priorities, and funding capabilities, that the projects selected would do the most good at reducing the potential loss of lives, repetitive loss from disasters, and provide the most benefits. Each project is subject to a benefit/cost analysis.
Environmental	All environmental concerns were addressed by all participants, planning members, and agencies involved. Before construction of any project comments will be solicited from state, federal resource

	agencies in order to ensure compliance with all relevant statutes and regulations.
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Integration of Data, Goals and Action Items into Other Planning Mechanisms

Comanche County’s local planning mechanisms available for incorporating the recommendations and requirements of the Hazard Mitigation Measures are listed below. Comanche County Multi- Hazard Mitigation Plan will be approved and adopted by the Board of Commissioners as a guide to County mitigation activities. The Emergency Manager is responsible for overseeing the implementation and integration of the Hazard Mitigation Plan. Appropriate Action Items and Mitigation Measures from the Plan will be incorporated into the following plans and codes:

- Capital Improvement Plans and planning process
- Comanche County Unincorporated Building Codes and Regulations
- Comanche County Emergency Operations Plan
- Individual Community Building Codes and Ordinances
- Individual Community and School District Emergency Operations Plan

The process to include the adopted Mitigation Measures into other local planning mechanisms includes the following:

- The plans above are updated annually by their respective committees.
- With regard to Unincorporated Building Codes, they are updated annually by their respective committees.

City of Lawton

The City’s plans and ordinances, identified in Section 4.1, are annually updated and/or reviewed by the city council and administration. The Capital Improvement Plan is updated every 5 years. Prior to updating any plan, the City Management Staff and emergency manager review the hazard mitigation efforts of Lawton that could be included in the capital improvement plan. The Emergency Response Plan and the Post-Disaster Recovery Plan are reviewed annually by the Office of Emergency Management

City of Cache

The City Administration and city council update their comprehensive plan every 5 years, and review and update the other plans as needed. Ordinances are reviewed continually and revised as needed. The ordinances and plans are identified in Section 4.1, and they are updated and reviewed annually. The mayor and emergency manager review, prioritize, and implement hazard mitigation projects according to the approval of the city council.

Town of Chattanooga

The Mayor and Town Administration review and update ordinances and plans, identified in Section 4.1, annually. The mayor will review, prioritize, and implement hazard mitigation projects according to the approval of the town council.

City of Elgin

The City Administration and city council update their comprehensive plan every 5 years, and review and update the other plans as needed. Ordinances are reviewed continually and revised as needed. The ordinances and plans are identified in Section 4.1, and they are updated and reviewed annually. The mayor will review, prioritize, and implement hazard mitigation projects according to the approval of the city council.

Town of Faxon

The Town's plans and ordinances identified in Sections 4.1 are annually updated and/or reviewed by the town council and administration.

Town of Fletcher

The Town Administration and city council review and update ordinances and plans, identified in Section 4.1, annually. The mayor and emergency manager review, prioritize, and implement hazard mitigation projects according to the approval of the town council.

City of Geronimo

The City Administration and city council review and update ordinances and plans, identified in Section 4.1, annually. The mayor and emergency manager review, prioritize, and implement hazard mitigation projects according to the approval of the city council.

Town of Indianoma

The Town Administration review and update ordinances and plans, identified in Section 4.1, annually. The mayor and emergency manager review, prioritize, and implement hazard mitigation projects according to the approval of the town council.

Town of Medicine Park

The Town Administration and town council review and update ordinances and plans, identified in Section 4.1, annually. The mayor and emergency manager review, prioritize, and implement hazard mitigation projects according to the approval of the town council.

Town of Sterling

The Town Administration and town council review and update ordinances and plans, identified in Section 4.1, annually. The mayor and emergency manager review, prioritize, and implement hazard mitigation projects according to the approval of the town council.

Lawton Public Schools

Upon formal adoption of the Comanche County Multi-Jurisdictional Multi- Hazard Mitigation Plan by the school board, the Lawton Public Schools Superintendent is responsible for reviewing the hazard mitigation plan and integrating necessary information into the Lawton Public Schools Emergency Action Plan. This plan is updated annually. During the update process, the superintendent will meet with the Hazard Mitigation Planning Committee, and they will review the hazard profile data.

Upon approval of this plan, the School Superintendent and the School Board will be responsible for recommending hazard mitigation measures and Structural action items from the Plan for inclusion in District capital improvement plans which may determine the site of new facilities and avoid development in hazard prone areas. Approved recommendations will be submitted as bond items and voted on during public school board meetings. Once an action item is complete, it will be documented in the following Capital Improvement Plan Update.

Cache Public Schools

Upon formal adoption of the Comanche County Multi-Jurisdictional Multi- Hazard Mitigation Plan by the school board, the Cache Public Schools Superintendent is responsible for reviewing the hazard mitigation plan and integrating necessary information into the Cache Public Schools Emergency Action Plan. This plan is updated annually. During the update process, the superintendent will meet with the Hazard Mitigation Planning Committee, and they will review the hazard profile data.

Upon approval of this plan, the School Superintendent and the School Board will be responsible for recommending hazard mitigation measures and Structural action items from the Plan for inclusion in District capital improvement plans which may determine the site of new facilities and avoid development in hazard prone areas. Approved recommendations will be submitted as bond items and voted on during public school board meetings. Once an action item is complete, it will be documented in the following Capital Improvement Plan Update.

Geronimo Public Schools

Upon formal adoption of the Comanche County Multi-Jurisdictional Multi- Hazard Mitigation Plan by the school board, the Geronimo Public Schools Superintendent is responsible for reviewing the hazard mitigation plan and integrating necessary information into the Geronimo Public Schools Emergency Action Plan. This plan is updated annually. During the update process, the superintendent will meet with the Hazard Mitigation Planning Committee, and they will review the hazard profile data.

Upon approval of this plan, the School Superintendent and the School Board will be responsible for recommending hazard mitigation measures and Structural action items from the Plan for inclusion in District capital improvement plans which may determine the site of new facilities and avoid development in hazard prone areas. Approved recommendations will be submitted as bond items and voted on during public school board meetings. Once an

action item is complete, it will be documented in the following Capital Improvement Plan Update.

Sterling Public Schools

Upon formal adoption of the Comanche County Multi-Jurisdictional Multi-Hazard Mitigation Plan by the school board, the Sterling Public Schools Superintendent is responsible for reviewing the hazard mitigation plan and integrating necessary information into the Sterling Public Schools Emergency Action Plan. This plan is updated annually. During the update process, the superintendent will meet with the Hazard Mitigation Planning Committee, and they will review the hazard profile data.

Upon approval of this plan, the School Superintendent and the School Board will be responsible for recommending hazard mitigation measures and Structural action items from the Plan for inclusion in District capital improvement plans which may determine the site of new facilities and avoid development in hazard prone areas. Approved recommendations will be submitted as bond items and voted on during public school board meetings. Once an action item is complete, it will be documented in the following Capital Improvement Plan Update.

Chapter 5: Plan Update

Prioritization and Review

The plan maintenance section of this document describes the formal process that will ensure that the Comanche County Natural Hazard Mitigation Plan remains an active and relevant document with continued public participation. The plan maintenance process includes annual evaluations, revisions, or updates, as needed by the participants. The plan will be resubmitted for state and federal review every five years. Comanche County – Lawton Emergency Management, along with the Natural Hazard Mitigation Planning Committee and the Local Emergency Planning Committee (LEPC), will be responsible for evaluating and updating the plan. Plan updates or revisions will be submitted to the Comanche County Board of Commissioners for adoption.

5.1 Plan Monitoring

The Emergency Management office will be responsible for monitoring the plan. A monitoring report will be written and submitted to the County Commissioners upon the request of any of the three county commissioners. The Emergency Manager will also be the lead contact for phone calls and scheduling meetings.

The Natural Hazard Mitigation Plan will be kept on record in the Comanche County Clerk's Office, housed inside the Comanche County Courthouse in Lawton, Oklahoma. A copy will be on file with each participating city, school, and town. The County Commissioners will house the official plan at the Comanche County Courthouse. Any interested party may request a copy of the plan via the Comanche County Clerk's Office.

The Comanche County Natural Hazard Mitigation Committee has identified hazard mitigation projects to be included in the Natural Hazard Mitigation Plan. The Comanche County Emergency Planning Committee and participating entity will work with the public and local elected officials to evaluate potential projects.

5.2 Plan Evaluating

The Comanche County – Lawton Emergency Management Director, members of the LEPC, and members of the Comanche County Natural Hazard Mitigation Committee will evaluate the Natural Hazard Mitigation Plan every year to determine the effectiveness and/or progress of mitigation actions and the implementation of other actions.

Plan evaluation should address the following questions:

- Do actions address current and expected hazardous conditions?
- Has the nature or magnitude of risks changed?
- Are the current resources appropriate for implementing mitigation actions?
- Are there any implementation problems, such as technical, political, legal, or coordination issues with other agencies?

- Did the outcome of mitigation actions occur as expected?

The Committee and Emergency Management Director will have six months, from the date of the evaluation meeting, to update the plan with any changes needed. The County will resubmit the plan for state and federal review every five years.

The Comanche County Commissioners, Emergency Management Director, the LEPC, and members of the Natural Hazard Mitigation Committee will evaluate the Natural Hazard Mitigation Plan every year to determine the effectiveness and/or progress of mitigation actions and the implementation of other actions.

Items covered during the evaluation process should include:

- Evaluate magnitude of risk and determine if it has changed.
- Evaluate current resources and determine if they are appropriate for implementing mitigation actions.
- Determine if there were any implementation problems, such as technical, political, legal, or coordination issued with other agencies.
- Evaluate how other agencies and partners have participated.
- Evaluate mitigation actions and determine if outcome occurred as expected.
 - Was the intended purpose of the original mitigation action met?
 - Was the mitigation action met in the proposed timeline?
 - Did the listed agencies participate in the mitigation action?
 - Did mitigation action stay within the proposed budget?

The evaluation process assesses goals, objectives, and current/expected conditions; change in the nature or magnitude of risks; current resources for implementation; mitigation action item outcomes; and whether agencies and other partners participated as originally proposed.

Changes in Jurisdictional Priorities

Since the last plan update in 2013, Comanche County has experienced numerous Natural Hazard events:

- 2015 Flood Event (DR-4222) for Public Assistance
- 2016 Flooding and Severe Storms (DR-4274) for Public Assistance
- 2021 Severe Winter Storm (DR-4547) for Public Assistance
- 2021 Severe Winter Storm (DR-4587) for Public Assistance
- 2023 Severe Storm, Tornadoes, and Straight-line Winds (DR-4721) for Individual and Public Assistance

This also includes numerous wildfire outbreaks and States of Emergency. As the population continues to increase in the Comanche County Planning Area, the level of vulnerability to infrastructure, people, and property has increased. Those hazards such as Wildfire, Dam Failure, and Severe Winter Storm all pose an increasing risk. The focus has shifted to

increasing wildfire mitigation and preparedness in light of the expanding population in unincorporated Comanche County, which has cascading effects to all municipalities who provide fire protection services in these areas. This combined with a lack of targeted planning, the Planning Area has prioritized Community Outreach and Education through Fire Wise, the development of a Community Wildfire Protection Plan, the development of a dedicated planning and zoning office with applicable regulations, and hazardous fuel mitigation projects. Comanche County Lawton Emergency Management Office is actively pursuing the USDA Community Wildfire Defense Grant, which will fund the development of a countywide Community Wildfire Protection Plan (CWPP). This CWPP will provide foundational data for the development of targeted mitigation projects which can be funded through internal and external funds.

5.3 Status of Previous Mitigation Action Items

Action Items Accomplished

Action Item	Hazard Mitigated	Jurisdiction Impacted
Incorporate Base Level Engineering Data into Zone A mapping	Flooding	Unincorporated Comanche County

Ongoing Action Items Not Accomplished

Action Item	Hazard Mitigation	Jurisdiction Impacted	Reason Not Complete	Action Relevant?
Develop All-Hazard Public Information, Education, Awareness Program	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Lack of funding	Y
Educate the public on the importance of a family disaster plan and supply kit.	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Ongoing	Y
Develop an inventory, registry and database of Special needs population.	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Ongoing	Y
Acquire and distribute NOAA Weather Radios to all Critical Facilities and the public	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Ongoing	Y
Post-Event Debris Management Program	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Lack of Funding	Y
Individual Backup Generator Program	Flood, High Wind, Tornado, Wildfire, Severe Weather	All	Ongoing	Y
Alternate Power Source	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Ongoing	Y
Above Ground fuel Pump with Back Up Generator	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Ongoing	Y
Protective Window Film	Severe Weather	All	Ongoing	Y
Tree Trimming and Branch Removal Program	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Ongoing	Y
Public School critical Facilities Safe Room	Severe Weather	All	Ongoing	Y

Emergency Exercise Training	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Ongoing	Y
Lightning Detection Systems	Lightning	All	Lack of Funding	Y
Provide Covered Parking	Severe Weather	All	Ongoing	Y
Cooling Stations	Extreme Heat	All	Ongoing	Y
Community Shelter	Flood, Extreme Heat, Earthquake, Dam Failure, Drought, Winter Storm, Severe Weather, Wildfire	All	Lack of Training	Y

Current Action Items

Mitigation Project A	Public education and awareness campaign.
Hazard(s) Addressed	Dam Failure, Drought, Earthquake, Extreme Heat, Flood, Severe Thunderstorms, Winter Storms, Wildfire
Jurisdiction	Comanche County, City of Lawton
Action	Educate the public about various dangers associated with natural hazards. Education can be accomplished by sponsoring professional programs, school poster contests, essays, and other activities through workshops, public meetings, and various support groups (child care, senior citizens centers, public schools, 4-H, etc.). Have brochures available at rodeos, county fairs, health fairs, etc.
Responsible Party	Comanche County Lawton Emergency Management
Potential Implementation Timeline	Annually for five years - High Priority
Cost	\$3,000/per year for five years
Potential Funding Sources	Capital Improvement Plan, Annual Budget

Mitigation Project B	Installation of NOAA receivers in public facilities.
Hazard(s) Addressed	Flood, Severe Thunderstorm, Winter Storms
Jurisdiction	Comanche County
Action	Purchase and install NOAA Weather Radio receivers in public facilities.
Responsible Party	Comanche County Lawton Emergency Management
Timeline	Ongoing – Medium Priority
Cost	\$3,460
Potential Funding Sources	County, city, school, and town budgets, private donations, service clubs, HMPG

Mitigation Project C	Update storm warning system.
Hazard(s) Addressed	Severe Thunderstorm
Jurisdiction	City of Lawton
Action	Install, upgrade, and /or expand storm warning systems.
Responsible Party	Comanche County Lawton Emergency Management
Potential Implementation Timeline	1 Year – High Priority
Cost	\$735,000
Potential Funding Sources	Capital Improvement, HMPG, REAP Grants

Mitigation Project D	Development and Implementation of a Community Wildfire Protection Plan
Hazard(s) Addressed	Wildfires
Jurisdiction	All Comanche County HMP Planning Area jurisdictions.
Action	Develop a comprehensive CWPP which addresses mitigation to reduce impact of wildfires for all jurisdictions.
Responsible Party	Comanche County Lawton Emergency Management
Potential Implementation Timeline	36 months – High Priority
Cost	\$250,000
Potential Funding Sources	USDA Forest Service, Grants

Mitigation Project E	Hazardous Fuels Mitigation and Removal
Hazard(s) Addressed	Wildfire
Jurisdiction	All Comanche County HMP Planning Area jurisdictions.
Action	Conduct hazardous fuel mitigation activities through education, development of prescribed burns, and training of Volunteer Fire Departments.
Responsible Party	Comanche County Lawton Emergency Management
Potential Implementation Timeline	36 Months – Medium Priority
Cost	\$250,000
Potential Funding Sources	Oklahoma Department of Agriculture, HMGP

Mitigation Project F	Expand and improve notification system, develop and distribute evacuation route maps
Hazard(s) Addressed	High Hazard Potential Dam
Jurisdiction	All Comanche County HMP Planning Area jurisdictions.
Action	Expand and improve notification system to citizens in inundation zones in the event of potential dam failure. The expansion and improvement of the notification system consists of: reverse 911, ReGroup, social media, and television and radio media. Also included is development and distribution of evacuation routes.
Responsible Party	Comanche County Lawton Emergency Management
Potential Implementation Timeline	24 months – Low Priority
Costs	\$150,000
Potential Funding Sources	Oklahoma Water Resources Board, HMPG, Capital Improvement Plan

Mitigation Project G	Training and equipment for swift water rescue
Hazard(s) Addressed	High Hazard Potential Dam, Flood

Jurisdiction	All Comanche County HMP Planning Area jurisdictions.
Action	Provide training to rescue teams and purchase equipment for swift water rescue for Public Safety agencies.
Responsible Party	Comanche County Lawton Emergency Management
Potential Implementation Timeline	24 months – Medium Priority
Costs	\$150,000
Potential Funding Sources	State of Oklahoma Fire Services, EMPG

Mitigation Project H	Improve NFIP Compliance
Hazard(s) Addressed	Flood
Jurisdiction	Town of Faxon, Town of Indiahoma, Town of Sterling
Action	Identify and appoint dedicated Floodplain Administrator and identify, adopt or update Floodplain Regulations/Ordinances for each jurisdiction.
Responsible Party	Jurisdiction having Authority
Potential Implementation Timeline	24 months – Medium Priority
Costs	\$1000
Potential Funding Sources	Capital Improvement Planning, OWRB Grants

Mitigation Project I	Public Safe Room/Storm Shelter Grant Program
Hazard(s) Addressed	Severe Thunderstorms
Jurisdiction	All Comanche County HMP Planning Area jurisdictions.
Action	Apply and implement Safe Room Grant Program for the citizens of Comanche County.

Responsible Party	Comanche County Lawton Emergency Management
Potential Implementation Timeline	24 months – Medium Priority
Costs	\$250,000
Potential Funding Sources	HMGP

5.4 Plan Updating

The plan will continue to be evaluated annually during the five-year cycle process and anytime there is a disaster. Beginning on the fourth year, the Comanche County Commissioners, Emergency Management Director, the Natural Hazard Mitigation Committee, and participating entities will make all plan revisions to be finalized and be approved by FEMA before the end of the fifth year so that the jurisdiction will maintain eligibility. The plan will be resubmitted for state and federal review every five years.

5.5 Incorporation into Existing Planning Mechanisms

While there is no officially documented instances of information from the previous plan being incorporated into existing planning mechanisms, there is some anecdotal instances of this occurring through the use of grant funding or one-time-use funding, primarily to increase capability of utility infrastructure.

When appropriate, the Comanche County Board of County Commissioner and each participating jurisdiction will establish resolutions to incorporate the natural hazard mitigation plan into all other jurisdictions planning mechanisms. The planning authority of the jurisdiction will review the natural hazard mitigation plan and if appropriate, incorporate the proposed mitigation actions into their respective planning mechanisms. The Natural Hazard Mitigation Planning Committee will request, review and recommend changes and additions of other plans to be incorporated into the Natural Hazard Mitigation Plan on an annual basis. The previous Hazard Mitigation Plan was limited to all jurisdictions with the exception of the City of Lawton. In identifying the hazard of Dam Failure in the previous plan, coupled with the City of Lawton having responsibility for two of the largest at-risk Dams in Comanche County, the Planning Committee felt it prudent to incorporate all jurisdictions under a single Hazard Mitigation Plan to better leverage planning, funding, and administrative support for this hazard due to the catastrophic potential of a dam failure.

The Comanche County HMP Planning Area currently utilizes an Emergency Operations Plan to guide recovery in the event of a natural hazard occurrence. After the Comanche County HMP Planning Area officially adopts the Natural Hazard Mitigation Plan, these existing mechanisms will have hazard mitigation strategies integrated into them.

The Comanche County HMP Planning Area currently utilizes capital improvement planning (CIP) to guide development in their respective jurisdiction. After the Natural Hazard Mitigation Plan is adopted, these existing mechanisms, which are updated annually, will have hazard mitigation strategies integrated into them.

One of the goals in the Natural Hazard Mitigation Plan directs county and local governments to protect life and property from natural disasters and hazards. The County Commissioners' office will conduct periodic review of the County's amendments and provide technical assistance to other local municipalities in implementing these requirements.

Any capital improvement planning that occurs in the future will also contribute to the goals in the Natural Hazard Mitigation Plan. The respective emergency manager will work with the capital improvement planners to secure high-hazard areas for low risk uses. Incorporating goals of other planning activities into the Natural Hazard Mitigation Plan will occur as each of these plans is updated.

Comanche County's local planning mechanisms available for incorporating the recommendations and requirements of the Hazard Mitigation Measures are listed below. Comanche County Multi-Jurisdiction Hazard Mitigation Plan will be approved and adopted by the Board of County Commissioners as a guide to County Mitigation activities. The

Emergency Management Office is responsible for seeing the implementation and integration of the Hazard Mitigation Plan. Appropriate Action Items and Mitigation Measures from the Plan will be incorporated into the following plans and codes:

- Capital Improvement Plans and planning process
- Comanche County Emergency Operations Plan
- Individual Community and School District Emergency Operations Plans
- Individual Community Building Codes and Ordinances

The process to include the adopted Mitigation Measures into other local planning mechanisms includes the annual update process by their respective committees.

The Comanche County Conservation District in Comanche County has a long-range plan that's updated annually and specifically addresses drought, flood protection, and other natural resources. This local unit of government has been, and will continue to be, active advisors to the Natural Hazard Mitigation Planning Committee.

Within six months of the formal adoption of the Natural Hazard Mitigation Plan, the policies listed above will be incorporated into the process of existing planning mechanisms.

5.5 Continued Public Participation

While the Natural Hazard Mitigation Planning Committee represents the public to some extent, the public will be able to directly comment on and provide feedback about the plan. Comanche County is dedicated to generating public interest in future updates of the Natural Hazard Mitigation Plan. Efforts to do so may include:

- Distributing information about the existence and purpose of the Natural Hazard Mitigation Plan to community groups and other public gatherings.
- A copy of the Natural Hazard Mitigation Plan will be posted to the Comanche County Website with an online portal to submit Public Comments.
- Posting information about the Natural Hazard Mitigation Plan on the ASCOG webpage, along with an email address for questions and input.
- Copies of the plan will be maintained at the Comanche County Courthouse and the Comanche County Website.

The Local Emergency Planning Committee, public meeting, will offer public comment annually. This meeting will be advertised to the public using our Comanche County Mass Notification System. These meetings will provide the public with a forum where they can express their concerns, opinions, or ideas about the plan. The Comanche County Website has a portal to allow for Public Comment regarding the Hazard Mitigation Plan. Citizens' comments and concerns will be discussed at the annual evaluation to determine if changes to the plan need to be made.

Listed below is the address and phone number of the Comanche County - Lawton Emergency Management Director who is responsible for keeping track of public comments on the plan. A copy of the plan may be reviewed at the Comanche County Clerk's Office. The public will also be invited to, and included in, the Natural Hazard Mitigation Planning Committee's annual evaluation of the plan. This meeting will provide the public with a forum for which they can express their concerns, opinions, or ideas about the plan.

Comanche County – Lawton Emergency Management
315 SW 5th Street, Room 107
Lawton, Oklahoma 73501
(580) 355-0535

**Appendix A:
Mitigation Strategies and
Projects**

Appendix A: Mitigation Action Strategies

#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	City of Lawton																	
1	Update all-hazards brochure to display and distribute at public events.	x	x	x	x	x	x	x	x	x	x	x	Public Works	FEMA Unified Hazard Mitigation Assistance Grants	2028	Develop draft brochure by March 2024 for Lawton's Home Show	H	
2	Identify, acquire, relocate, or demolish structures within SFHA (RL/SRL priority).					x						x	Public Works	FEMA Unified Hazard Mitigation Assistance Grants	2028	Develop list of potential properties to acquire. Mitigate as many properties as funds allow.	H	
3	Upgrade flood control gates at Lake Ellsworth.					x						x	Water and Wastewater	FEMA Unified Hazard Mitigation Assistance Grants	2022	Repair and replace damaged equipment	H	
4	Update and install debris catch for drainage systems within stormwater system.					x						x	Public Works	FEMA Unified Hazard Mitigation Assistance Grants	2028	Improve drainage, anchor system and reduce discharge velocity	M	
5	Evaluate the City's storm sirens and upgrade the system based on the results of the evaluation.						x		x				Emergency Management	Hazard Mitigation Grants	2020	Storm sirens are upgraded to be cost effective while also reaching the largest target audience possible.	H	
6	Apply for a FEMA Safe Room Grant that allows homeowners to be reimbursed 75% of the cost to install a storm shelter or safe room.	x					x		x				Emergency Management	Hazard Mitigation Grants	2021	The maximum allowable homeowners, as outlined in the grant, install new storm shelters or safe rooms.	H	
7	Maintain the City website to include all-hazards preparedness information.	x	x	x	x	x	x	x	x	x	x	x	Information Technology	Internal City Funds	Continuous	Refine information as needed	H	
8	Maintain City's Emergency Operations Plan, ensure that it is current, and coordinate it with the Hazard Mitigation Plan's Hazard Identification and Risk Assessment.	x	x	x	x	x	x	x	x	x	x	x	Emergency Management	Department of Homeland Security Grants	Continuous	Refine information as needed	H	
9	Identify new tools to educate the public on the hazards at most risk to the community, to include all social media outlets.	x	x	x	x	x	x	x	x	x	x	x	Information Technology	Internal City Funds	Continuous	Evaluate methods (e.g., newspaper, electronic media) to reach all intended audiences, to help direct research/identification efforts. This may include conducting a public survey.	M	
10	Maintain dedicated easements and restrict construction in those easements.	x	x	x	x	x	x	x	x	x	x	x	Public Works, AEP/PSO & Summit Energy	Internal City Funds	Continuous	Refine maintenance activities as needed.	M	
11	Enforce the City's floodplain ordinance; more specifically, prohibit critical structures from being built in the 500-year floodplain.					x						x	Public Works	Internal City Funds	Continuous	Refine enforcement requirements as needed.	H	
12	Maintain a supply of spill prevention/cleanup materials.												Fire Department	Department of Homeland Security Grants	Continuous	Determine items to acquire by 2013.	H	Ongoing. The Fire Department maintains supplies for spill prevention/cleanup. Supplies are replenished as needed. Funded through the supply cost recovery ordinance.

Appendix A: Mitigation Action Strategies

#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
13	Update the Emergency Action Plans for High Hazard Potential Dams: Lake Ellsworth, Lake Lawtonka, B-II Detention Basin Dam, and Dolese Detention Dams as needed.											x	Water/Wastewater & Engineering	FEMA Unified Hazard Mitigation Assistance Grants	2028	Develop a working group, or identify responsible parties, to conduct the updates by 2028.	M	
14	Assess current zoning ordinances and enforce to eliminate building structures below High Hazard Potential Dams.					x						x	Water/Wastewater & Engineering	Internal Department Funding	Continuous	Develop a working group, or identify responsible parties, to provide identification and enforcement.	M	
15	Update Floodgate Operation Policies for Lake Lawtonka and Lake Ellsworth as needed.					x						x	Water/Wastewater & Engineering	FEMA Unified Hazard Mitigation Assistance Grants	2028	Develop a working group, or identify responsible parties, to conduct the updates by 2028.	M	
16	Assess and evaluate emergency power capability and capacity for Lakes Lawtonka and Ellsworth and secure redundant emergency power capabilities through installment of appropriately sized emergency power infrastructure.					x						x	Water/Wastewater, Engineering, Emergency Management	FEMA Unified Hazard Mitigation Assistance Grants	2028		H	
17	Assess and evaluate four High Hazard Potential Dams located in City of Lawton jurisdictional boundaries and develop appropriate design, safety, or other upgrade plans.					x						x	Water/Wastewater & Engineering	OWRB High Hazard Potential Dam Mitigation Grant	2028	Coordinate with local water conservation district to integrate planning and upgrades of current infrastructure.	H	The City of Lawton was awarded an Oklahoma Water Resources Board Design grant to assess and develop updates to aging HHPD infrastructure.
18	Identify mission critical facilities within City of Lawton infrastructure and develop emergency power plans for each to include onsite generators, dedicated hook-ups, and/or emergency contracts for generator support.	x		x			x		x			x	Public Utilities, Emergency Management, Parks and Recreation	FEMA Hazard Mitigation Assistance Grants	2028	Develop list of priority locations through risk assessment or mission criticality.	H	
19	Identify available saferoom locations within City of Lawton infrastructure either existing or appropriate space and improve saferoom capacity.						x		x				Public Utilities, Emergency Management, Police Department	FEMA Hazard Mitigation Assistance Grants	2028		H	
20	Develop and maintain fire breaks within and around areas identified within the wildland urban interface. Improve existing firebreak locations as needed.								x				Fire Department	Internal Funding	2028		H	
21	Develop shelter-in-place and evacuation policies for civilian and inmate populations at the City of Lawton Jail.					x	x	x		x	x	x	Police Department, Emergency Management	Internal Funding	2025		H	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
22	Identify Redundant Internet, Telecommunications, and Internet/Server provider or access and accessibility to Emergency Communications Area. If redundancies exist, identify which services currently are in place with an established backup line or entry to the building with connectivity. Research Network Failover Protection capabilities to provide automatic network switching in the event of network downtime or failure.			x		x	x	x	x	x	x	x	Emergency Communications, Information Technology	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		H	
23	Research and identify limited VOIP phone capability which could be utilized if hardline phone service interruption and tie into network failover to re-establish telecommunications capabilities temporarily utilizing network systems.			x		x	x	x	x	x	x	x	Emergency Communications, Information Technology	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		M	
24	Evaluation and identification of improved wind or impact-resistant structure to house above-ground generator which services building.	x		x		x	x	x	x	x	x	x	Emergency Communications, Information Technology	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		H	
25	Establishment of back-up generator service contract or agreement with appropriate size generator to maintain continuity of operations with minimal interruption to services. This would include standby electrician services to ensure proper and safe hook-up to the building or to establish a tie-in for the generator.	x		x		x	x	x	x	x	x	x	Emergency Communications, Information Technology, Police Department	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		H	
26	Identification of alternative tower locations to host backup repeaters to ensure continuity if primary tower location is impacted. Research mobile radio tower assets or capabilities for rent or purchase as alternative, cheaper option.	x		x		x	x	x	x	x	x	x	Emergency Communications, Information Technology, Police Department	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		H	
27	Research and identification of alternative dispatch center location which would house identical emergency communications capabilities at an equal or smaller scale to include equipment, which could be utilized to maintain operations if primary dispatch location sustained a direct impact and was unsafe or inoperable.	x	x	x	x	x	x	x	x	x	x	x	Emergency Communications, Information Technology	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		H	
28	Assess and evaluate current policies and procedures for utilization of staff to support whole-city disaster response and identify personnel who can support debris clean up, logistics, and shelter operations.					x	x	x	x	x	x	x	Parks and Recreation	Internal Funding	2025		M	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status	
29	Assess and evaluate the current cemetery record system and identify digitization solutions to improve recordkeeping and continuity of operations. Update and improve plot mapping and consolidate records.					x	x	x				x	x	Parks and Recreation, Information Technology	Internal Funding, FEMA Hazard Mitigation Assistance Grants	2028	Implement a means to reconcile cemetery plot information in the event of disruption to cemetery grounds and displacement of interred persons.	H	
30	Assess current Community Shelter capability and identify strategic locations which could serve as support during mass sheltering operations.		x			x	x	x		x	x	x	Parks and Recreation, Emergency Management	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		H		
31	Establishment of back-up generator service contract or agreement with appropriate size generator to maintain continuity of operations with minimal interruption to services. This would include standby electrician services to ensure proper and safe hook-up to the building or to establish a tie-in for the generator. To support Community wide shelter operations.		x			x	x	x		x	x	x	Parks and Recreation, Emergency Management	Internal Funding, FEMA Hazard Mitigation Assistance Grants, Homeland Security Grants	2028		H		
	Assess the current prioritized list of low-water crossings and install or update signage for flood-prone areas.					x						x	Public Works	FEMA Unified Hazard Mitigation Assistance Grants	2028	Develop a prioritized list of low water crossing roads to replace by 2026. Design plans to address improvements. Oversee constructions and implementation of design.	L		
	Assess current evacuation mapping and identify routes and update or develop to meet changing infrastructure needs.					x	x	x	x	x	x	x	Public Works, Emergency Management, GIS	FEMA Unified Hazard Mitigation Assistance Grants	2028	Identify any current evacuation routes and establish all-hazards evacuation routes.	M		
	Spread sand /salt mixture on iced roadways.									x			Public Works	Internal City Funds	Continually, as needed	Ensure budget item included in annual budget for sand/salting.	L		
	Inspect key roads and bridges after an event.					x	x	x				x	Public Works	Internal City Funds	Continually, as needed	Refine inspection checklists as needed. Perform activities as needed.	L		
	Coordinate with the County to maintain a Community Wildfire Protection Plan, focusing on wildland-urban interface.							x					Fire Department	FEMA Unified Hazard Mitigation Assistance Grants	Continuous	Refine plan as needed	H		
	Maintain the current HazMat Response Team												Fire Department	Internal City Funds	Continuous	Refine capabilities as needed	H		
	Work with Comanche County and Fort Sill on vegetation control			x				x					Fire Department	Internal City Funds	Continuous	Respond to requests for resources as appropriate	L		
	Evacuate persons whose homes are in danger					x	x	x	x	x	x	x	Police Department / Fire Department	Internal City Funds/ FEMA Unified Hazard Mitigation Assistance Grants	Continuous	Identify critical points at which the decision to evacuate should occur. Develop evacuation plans and routes. Review capabilities. Obtain	H		
	Provide real time notification to citizens about hazards and road closures to be displayed on City Website.	x	x	x	x	x	x	x	x	x	x	x	GIS	FEMA Unified Hazard Mitigation Assistance Grants	Continuous	Develop online mapping system to alert citizens of hazards and road closures.	M		
	Develop electronic citizen engagement and warning software or interactive application for mobile devices.	x	x	x	x	x	x	x	x	x	x	x	Information Technology	FEMA Unified Hazard Mitigation Assistance Grants	Continuous	Develop citizen information distribution application	M		

Appendix A: Mitigation Action Strategies

#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Continue lobbying efforts to encourage City officials to gain access to the County's current and timely records.	x	x	x	x	x	x	x	x	x	x	x	City Manager, Mayor	Internal City Funds	2022	Refine information exchange procedures as needed.	M	Ongoing.
	Build upon the City's Emergency Reserve Fund by increasing the deposits into the fund by 5% each year.	x	x	x	x	x	x	x	x	x	x	x	City Manager, Mayor	Internal City Funds	Yearly	Determine potential budget items that may be able to withstand a temporary cutback.	M	Ongoing. By ordinance an 5% increase in the Emergency Reserve Fund is budgeted.
	Determine feasibility of developing a Drought Preparedness and Response Plan.				x								Public Works	FEMA Unified Hazard Mitigation Assistance Grants	Continuous	Review hazard data and evaluate available resources.	M	Ongoing. Water restrictions updated by Ordinance 15-04 on 3/24/1. LCC 22-2-218 Garver Engineering was hired to perform a study on alternative water.
	Limit development in areas of steep slope.												Community Services	Internal City Funds	Continuous	Identify all areas of steep slope within the City.	L	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Evaluate the need to retrofit existing cell towers that are not built to current wind code.								x				Community Services	Internal City Funds	Continuous	Determine requirements for retrofitting.	H	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Seek support for a statewide insurance program to cover hail damage to property and vehicles.	x											City Manager, Mayor	Internal City Funds	Continuous	Determine data collection needs in order to assess vulnerability.	M	Ongoing. Bill Phelps lobbies on behalf of the City on statewide issues.
	Evaluate glass windows in critical facilities and switch to tempered glass where appropriate.	x											Community Services	Internal City Funds	Continuous	Prioritize critical facilities list based upon hazard vulnerability and evaluate highest ranking structures first.	H	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Promote retrofitting of wiring all pre-building code structures; promote upgrade of wiring to Ground Fault Circuit Interrupter.			x									Community Services	Internal City Funds	Continuous	Compile a list of critical facilities to be retrofitted and determine estimated costs to update to GFCI.	M	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Determine if current building code design snow load requirements are sufficient or if requirements should be more stringent.								x				Community Services	Internal City Funds	Continuous	Conduct research to determine appropriate design requirements.	H	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Ensure that NRCS soil survey maps are overlayed to City of Lawton zoning regulations (i.e., maps) to ensure that new structures in areas with shrink/swell soils have appropriate foundation systems.												Community Services	FEMA Unified Hazard Mitigation Assistance Grants	Continuous	Obtain soil survey data and assign responsibilities.	L	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Consider retrofit options or changes (strengthening) to building code in earthquake hazard areas.											x	Community Services	Internal City Funds	Continuous	Determine areas vulnerable to earthquakes and evaluate existing building codes.	L	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Retrofit the Emergency Operations Center and other public critical facilities.	x	x	x	x	x	x	x	x	x	x	x	Public Works	Department of Homeland Security Grants	Continuous	Identify critical facilities to retrofit and determine what parts of the buildings to retrofit by 2012.	M	Ongoing.
	Continue / codify stronger foundation construction practices.	x	x	x	x	x	x	x	x	x	x	x	Public Works, Community Services	Internal City Funds	Continuous	Identify existing construction manuals, or guidance, and educate builders on the resources they can use when constructing foundations.	M	Ongoing. No action needed at this time. Compliant with regulation under current adopted code.
	Meadowbrook Creek Flood Control Project Area					x							Public Works	Internal City Funds	2022	Develop a list of projects to be completed in the area and schedule construction based on priority	L	Ongoing. List of projects is being developed and prioritized.
	Replace SW 52nd St. Bridge over Wolf Creek Tributary (Area #22)					x							Public Works	Internal City Funds	2022	Evaluate the structure and prioritize its reconstruction	L	Ongoing. List of projects is being developed and prioritized.

Appendix A: Mitigation Action Strategies

#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Spread sand /salt mixture on iced roadways.									x			Public Works	Internal City Funds	Continually, as needed	Ensure budget item included in DPW annual budget for sand/salting.	L	Ongoing. Sand/salting is budgeted for and applied as needed.
	Assess and evaluate the Stormwater Master plan for effectiveness and ensure that it meets current best practices and/or national standards. Activities may include design planning, construction, or implementing of updated plans.					x							Public Works, Stormwater Management	Internal City Funds	Continually, as needed		M	
	Assess, evaluate and update the Drainage Master plan to identify, prioritize, and propose projects to address aging infrastructure and flood prone areas. Activities may include design planning, construction, or implementing of updated plans.					x							Public Works, Stormwater Management	Internal City Funds	Continually, as needed		M	

Appendix A: Mitigation Action Strategies

#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	City of Cache																	
	Coordinate with Western District County Barn and County Floodplain Manager to identify mitigation activities such as debris clearing and removal for Crater Creek and other impactful waterways.					x							Floodplain Manager Western District Foreman	Internal City Funds, Floodplain Management Grant, Hazard Mitigation Grant	2028 or As Needed		M	
	Assess and evaluate current Stormwater Management program and identify policy, ordinances, or other enforcement mechanism in accordance with City Planning.					x							Stormwater/Floodplain Management Office	Internal City Funds, Floodplain Management Grant, Hazard Mitigation Grant	2028		H	
	(Ref #6) Continue to Manage Saferooms within City of Cache, assess and prioritize upgrades or expansion to ensure most current building & fire codes are being followed.	x					x			x			Emergency Management City of Cache	Internal City Funds, Floodplain Management Grant, Hazard Mitigation Grant	2028	Assessing Saferoom capabilities will be an ongoing process to ensure that as the community and population expand so does appropriate sheltering options	H	This may align as part of the overall saferoom grant program
	(Ref #9) Increase public outreach to educate and inform citizens and community on emergency preparedness and response activities.	x	x	x	x	x	x	x	x	x	x	x	City of Cache Emergency Management	Internal City Funds, Hazard Mitigation Grant	2025		H	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Town of Indiahoma																	
	(Ref #19) Identify potential shelter locations which exist to be assessed for structural integrity. Identify potential consulting entity to review identified locations and provide recommendations for enhanced safety. Once shelter or saferooms have been identified, develop a list of location(s) to be provided to community.	x		x			x		x				Town of Indiahoma Emergency Management	Internal City Funds, Hazard Mitigation Grant	2028	In coordination with Emergency Management, the Town of Indiahoma will develop a Community Shelter Operations plan to ensure sheltering for the community and citizens during disaster or critical infrastructure failure.	H	
	(Ref #18) Assess current town hall facilities and identify if the building has external generator capability or hook-up to maintain continuity of operations with minimal interruptions to services. This may include establishment of generator service agreement with appropriate size generator to include standby electrician services to ensure proper and safe hook-up or to establish a tie-in for the building. May also include permanent installation of an appropriate sized generator.	x	x	x		x	x	x	x	x		x	Town of Indiahoma Emergency Management American Red Cross	Internal City Funds, Hazard Mitigation Grant	2028	Establishment of a redundant back up power system for the Town Hall facilities.	H	
	Develop Community Emergency Response Team within community to support community shelter operations and create capability to house and shelter community residents in the event of a disaster or critical infrastructure failure.	x	x	x		x	x	x	x	x		x	Town of Indiahoma Emergency Management	Internal City Funds, Hazard Mitigation Grant	2026		M	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Comanche County Health Department																	
	(Ref #1) Update and develop Public Information and Safety Messaging to provide the public with pertinent public health related information during inclement weather, disaster, or critical infrastructure failure.	x	x	x	x					x			Comanche County Health Department	Internal Budget Hazard Mitigation Grant	2026	Review and update existing materials for pertinency and consolidate messaging for consistency.	M	
	Update aging HVAC infrastructure to ensure continuity of operations and maintenance of climate controlled critical operations such as vaccine storage and cold-chain.		x	x			x					x	Comanche County Health Department	American Rescue Plan Act Hazard Mitigation Grant	2024	identify vendors, develop request for proposal and accept bids.	M	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Lawton Public Schools																	
	Evaluate and assess current virtual education options for all students. Identify best practice, research-based curriculum and most current technology and devices available for update or upgrade.												Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Utilize student media production and fine arts classes to develop Public Awareness Campaigns to keep students, staff, families and stakeholders well-informed of weather events and precautions. This includes use with district mass messaging online platforms (website, district alerts, social media, branding and media entities) to share information and PSAs.	x	x	x	x	x	x	x	x	x	x	x	Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Mitigate the risk of harm or damage to persons or property by modifying existing LPS sites and infrastructure to expand warning internal and external warning/intercom systems which meet or exceed standard safety and building codes. This expansion will allow for timely and effective communication to those at LPS events or daily operations.	x	x	x	x	x	x	x	x	x	x	x	Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Work with state and local assessment teams to inspect current conditions of structures to determine vulnerabilities. The areas identified will need to be brought up to standards and code for safety of student body, staff and stakeholders on campus.				x								Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Work with local Farmers and COOP for Soil and Water Conservation Best Practices. Once discussed, develop content and partnerships to have public service announcements produced by students. Students will need proper media equipment to produce and distribute PSA's via the district's media platforms to inform the public.				x								Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Collaborate with local partners to provide alternate food sources for LPS livestock and increase cover crop on existing LPS Ag Farm property. This process will mitigate the damage caused by the drought and impacts to livestock and erosion of property.				x								Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Work with local organizations and business to ensure landscape and can thrive in drought conditions. In addition, develop natural system protections and processes to minimize damage or loss while protecting naturally occurring eco-systems and their functions. (i.e., floodplains, waterways, etc.)				x								Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Build more natural systems protection to ensure eco-systems thrive even through drought conditions. This means building a system to monitor drought condition and impacts, protecting animals' habitat, and identify water-dependent functions and determine steps to adapt those functions if conditions worsen.				x								Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Build system to collect, store and utilize rain water when drought conditions make negative impacts to the property.				x								Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Assess and evaluate all LPS Buildings and facilities to identify buildings which may need retrofitting, upgrades, or design. Develop a list of prioritized facilities are up to code and begin to address those that need repair and/or maintenance.											x	Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Develop an plan to create a multipurpose building for student use indoors. This alternative plan will ensure students can continue their normal activities in an different environment.		x										Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Work with Service partners to develop a preventative maintenance policy to provide timely and adequate service repairs to vehicles and ensure longevity of fleet.		x										Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		M	
	Educate the community on the importance of having a well-staffed transportation team. Shortage of drivers hinders ability to effectively transport students.			x									Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	
	Develop a process to perform wellness checks on students and staff with known health conditions and provide additional resources during these extreme temps to include independent mini split units.		x										Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	
	Identify Redundant Internet, Telecommunications, and Internet/Server provider or access and accessibility to Emergency Communications Area. If redundancies exist, identify which services currently are in place with an established backup line or entry to the building with connectivity. Research Network Failover Protection capabilities to provide automatic network switching in the event of network downtime or failure.	x		x			x		x				Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Continue to maintain the structure and integrity of safe rooms at each site and the structures of other parts of the buildings	x		x			x		x				Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	
	Develop alerts and messaging policy to identify key thresholds and triggers which would prompt early pickup and dismissal.	x		x			x		x				Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	
	Develop policy and process to identify key triggers and thresholds to relocate critical assets like vehicles and busses to shelter in place.	x		x			x		x				Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	
	Integrate into the Comanche County - Lawton Wildland Urban Interface plan and identify most vulnerable locations.												Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	
	Ensure that LPS insurance policies are up to date and are adequate to replace all structures and assets in the event of a total loss.												Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	
	Assess current evacuation and relocation policies and procedures and identify if updates are needed for those facilities identified as most vulnerable.					x	x	x					Lawton Public Schools	Internal Budget Hazard Mitigation Grant	2024		H	

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#	Project Description	Hail	Extreme Heat	Lightning	Drought	Flood	Tornado	Wildfire	High Wind	Winter Storm	Dam Failure	Earthquake	Lead & Support Agency	Funding Source	Target Completion Date	Interim Measure of Success	Priority	Status
	Comanche County - Multi-Jurisdictional																	
	Multi-use, standalone Incident Command Post, in the form of a trailer, or other appropriate vehicle to support extended Search and Rescue Operations during times of disaster, critical infrastructure failure, or mass casualty events.	x	x	x	x	x	x	x	x	x	x	x	Comanche County SAR Team Emergency Management	Hazard Mitigation Grants, REAP Grants, Other Grants	2024	This equipment will be utilized by credentialed, certified, trained individuals in the performance of duties for search and rescue operations for Comanche County.	M	
	Equipment to be used by trained, certified individuals in performance of Woodland Search and Rescue Operations.	x	x	x	x	x	x	x	x	x	x	x	Comanche County SAR Team Emergency Management	Hazard Mitigation Grants, Other Grants	2024	This equipment will be utilized by credentialed, certified, trained individuals in the performance of duties for search and rescue operations for Comanche County.	M	See Itemized List for additional information
	Equipment to be used by trained, certified individuals in performance of Structural Collapse Search and Rescue Operations and Technical Rescue Operations.	x	x	x	x	x	x	x	x	x	x	x	Comanche County SAR Team Emergency Management	Hazard Mitigation Grants, Other Grants	2024	This equipment will be utilized by credentialed, certified, trained individuals in the performance of duties for search and rescue operations for Comanche County.	M	See Itemized List for additional information
	Equipment to be used by trained, certified individuals in performance of Rock Search and Rescue Operations and Technical Rescue Operations.	x	x	x	x	x	x	x	x	x	x	x	Comanche County SAR Team Emergency Management	Hazard Mitigation Grants, Other Grants	2024	This equipment will be utilized by credentialed, certified, trained individuals in the performance of duties for search and rescue operations for Comanche County.	M	See Itemized List for additional information
	Equipment to be used by trained, certified individuals in performance of Search and Rescue Operations and Swift Water Technical Rescue Operations.	x	x	x	x	x	x	x	x	x	x	x	Comanche County SAR Team Emergency Management	Hazard Mitigation Grants, Other Grants	2024	This equipment will be utilized by credentialed, certified, trained individuals in the performance of duties for search and rescue operations for Comanche County.	M	See Itemized List for additional information
	Equipment to be used by trained, certified individuals in performance of Search and Rescue Operations and Dive Team Operations.	x	x	x	x	x	x	x	x	x	x	x	Comanche County SAR Team Emergency Management	Hazard Mitigation Grants, Other Grants	2024	This equipment will be utilized by credentialed, certified, trained individuals in the performance of duties for search and rescue operations for Comanche County.	M	See Itemized List for additional information
	To promote preparedness through public involvement through public education and outreach. Utilize strategic marketing campaigns over multiple platforms to share critical information with the public to increase preparedness, response, and recovery efficiency. Increase active participation of Emergency Management Office in community and planned events and bolster alert and notification system for information sharing and warnings.	x	x	x	x	x	x	x	x	x	x	x	Comanche County - Lawton Emergency Management	Hazard Mitigation Grants, Other Grants	2025	Development of Public Service Announcements (PSA), materials, handouts, and other media. Develop and maintain relationships with Public Affairs, Public Information, and other Community facing outlets to provide timely information and notifications to the citizens of Comanche County.	H	

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	Increase Disaster Preparedness within Comanche County & City of Lawton through validation of current plans through hazard & risk assessments and conduct targeted exercises designed to test existing policies and procedures and engagement of Community-wide leaders and stakeholders and facilitate multi-disciplinary planning.	x	x	x	x	x	x	x	x	x	x	x	Comanche County - Lawton Emergency Management	Hazard Mitigation Grants, Other Grants	2028	Design, organize, and facilitate multi-agency exercises to validate existing plans, policies, and procedures.	M	
	Enhance County-wide First Responder Capability, Capacity, and Safety through targeted initiatives and projects. Expand and enhance Emergency Medical Response capability by departments and licensing, training and equipment opportunities to all volunteer fire departments, and improving radio communication and interoperability through infrastructure and equipment upgrades. Improve scene management and safety through education and training of Incident Command System principles and practices for all first response agencies within Comanche County.	x	x	x	x	x	x	x	x	x	x	x	Comanche County - Lawton Emergency Management	Hazard Mitigation Grants, Other Grants	2024	An Incident Command System software has been purchased but has not been implemented yet but should be fully implemented by end of 2023.	M	
	Assess and evaluate capability to develop a comprehensive volunteer program, including Shelter Operations training and partnering with local churches and municipalities to manage and staff shelter operations across Comanche County.	x	x	x	x	x	x	x	x	x	x	x	Comanche County - Lawton Emergency Management	Hazard Mitigation Grants, Other Grants	2024		M	
	Engage in pre-planning and coordination to identify ADA-compliant facilities. Shelter Operations training to ensure that designated shelters are properly staffed and equipped. Integrate and engage Medical Reserve Corps to assist with providing medical aid and/or mental health support.	x	x	x	x	x	x	x	x	x	x	x	Comanche County - Lawton Emergency Management	Hazard Mitigation Grants, Other Grants	2024		H	
	Include businesses, faith-based organizations, public safety, and media stakeholders in the planning process to ensure accurate and timely information dissemination. Identify areas in which at-risk populations congregate to provide more targeted messaging.	x	x	x	x	x	x	x	x	x	x	x	Comanche County - Lawton Emergency Management	Hazard Mitigation Grants, Other Grants	2025		M	
	Identify, assess, and prioritize all existing bridge structures within unincorporated Comanche County for erosion, subsidence, and hazards related to flooding, drought, earthquake, or dam failure to prevent bridge failure. Consolidate findings into a Construction Bridge plan to be executed based upon available funding, need, and priority.				x	x	x	x		x	x	x	Eastern District County Barn, Western District County Barn, Comanche County Board of County Commissioners, Oklahoma Department of Transportation	Hazard Mitigation Grants, Other Grants	2026	Completed list of all bridge structures within Comanche County with identified priorities.	H	

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	Seek funding for complete bridge replacement and/or site improvements to mitigate effects of identified hazards.				x	x		x				x	Eastern District County Barn, Western District County Barn, Comanche County Board of County Commissioners, Oklahoma Department of Transportation	Hazard Mitigation Grants, Other Grants	2026	Identify funding sources to apply towards bridge replacement and rehabilitation based upon	H	
	Provide new shelters for county, city, town, and school owned vehicles and vital equipment to protect from hail and winter storm damage.	x		x			x	x		x			All Comanche County HMP Planning Area jurisdictions.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2026		M	
	Place generators at each critical facility and make available to rural water districts to maintain water for agriculture, domestic consumption, and fire protection in rural areas.	x		x			x	x	x	x			All Comanche County HMP Planning Area jurisdictions.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2026		H	
	Educate the public about various dangers associated with natural hazards. Education can be accomplished by sponsoring professional programs, school poster contests, essays, and other activities through workshops, public meetings, and various support groups (childcare, senior citizens centers, public schools, 4-H, etc.). Have brochures available at rodeos, county fairs, health fairs, etc.	x	x	x	x	x	x	x	x	x	x	x	All Comanche County HMP Planning Area jurisdictions.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2028		M	
	Drill additional water wells, ensuring that an adequate water supply is available for residents.				x							x	All Comanche County HMP Planning Area jurisdictions.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2026		L	
	Jurisdictions will continue to review the existing floodplain management program and regulations in order to continue to provide up-to-date information to its citizens. All vulnerable jurisdictions will continue to issue permits.					x							All Comanche County HMP Planning Area jurisdictions.	Hazard Mitigation Grants, Other Grants, Internal Budgets	Continual		H	
	Install protective film on windows of critical facilities to reduce heat and potential breakage.	x	x				x		x			x	All Comanche County HMP Planning Area jurisdictions.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2025		M	
	Purchase and install NOAA Weather Radio receivers in public facilities.	x		x			x	x	x	x	x	x	Comanche County, City of Cache, Town of Chattanooga, City of Elgin, Town of Faxon, Town of Fletcher, City of Geronimo, Towns of Indianola, Town of Medicine Park, Town of Sterling.	Hazard Mitigation Grants, Other Grants, Internal Budgets	Continual		M	
	Install, upgrade, and/or expand outdoor warning systems within established jurisdictional communities.	x		x			x		x				Comanche County, City of Cache, Town of Chattanooga, City of Elgin, Town of Faxon, Town of Fletcher, City of Geronimo, Towns of Indianola, Town of Medicine Park, Town of Sterling.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2025		H	

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	Implement Firewise Program Countywide							x					Comanche County, City of Cache, Town of Chattanooga, City of Elgin, Town of Faxon, Town of Fletcher, City of Geronimo, Towns of Indianola, Town of Medicine Park, Town of Sterling.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2026		M	
	Construct reservoirs for water holding structures (cistern, blivet, or tank), specifically for the purpose of firefighting storage.							x					Comanche County, City of Cache, Town of Chattanooga, City of Elgin, Town of Faxon, Town of Fletcher, City of Geronimo, Towns of Indianola, Town of Medicine Park, Town of Sterling.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2026		M	
	Install lightning detection systems for outdoor activities for Public School systems countywide.			x									Lawton Public Schools, Cache Public Schools, Chattanooga Public Schools, Elgin Public Schools, Fletcher Public Schools, Flower Mound Public School, Geronimo Public Schools, Great Plains Technology Center, Indianola Public Schools, Sterling Public Schools.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2025		H	
	Install lightning protection and suppression systems to protect computers and other electrical equipment			x									Lawton Public Schools, Cache Public Schools, Chattanooga Public Schools, Elgin Public Schools, Fletcher Public Schools, Flower Mound Public School, Geronimo Public Schools, Great Plains Technology Center, Indianola Public Schools, Sterling Public Schools.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2026		L	
	Install Safe Rooms in rooms on school campuses							x					Lawton Public Schools, Cache Public Schools, Chattanooga Public Schools, Elgin Public Schools, Fletcher Public Schools, Flower Mound Public School, Geronimo Public Schools, Great Plains Technology Center, Indianola Public Schools, Sterling Public Schools.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2025		H	

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	Expand and improve notification systems to citizens in inundation zones in the event of potential dam failure. The expansion and improvement of the notification system consists of reverse 911, Mass Notification, social media, and television and radio media. Also included is development and distribution of evacuation routes.												Comanche County, City of Lawton, City of Cache, Town of Medicine Park	Hazard Mitigation Grants, Other Grants, Internal Budgets	2025		L	
	Install low flow faucets in all facilities.				x								All Comanche County HMP Planning Area jurisdictions.	Hazard Mitigation Grants, Other Grants, Internal Budgets	2025		L	

Appendix B:
Participation Documentation



Comanche County / Lawton Local Emergency Planning Committee (LEPC)

4500 SW Lee Blvd, Building 900, Lawton, OK 73541

Meeting Minutes for December 7, 2021

CALL TO ORDER

Clint Langford called the meeting to order at 10:07 am

IN ATTENDANCE

Jared Williams

Jessica Carter

Rick Franz

Rebecca Villa-Winsett

Kim O'Brien

Rachael Huey

Clint Langford

Erica Ramirez

Amy Hawkins

Elizabeth Woods

Alana Pack

Sam Talamantez

ACCEPTANCE OF MINUTES

Jessica Carter made a motion to accept the minutes from the September 1, 2021 meeting. Alana Pack seconded the motion. The minutes were unanimously approved as distributed.

AGENDA ITEMS

LEPC Membership: Clint Langford discussed merging the city/county/LPS/All Schools & municipalities and the need for updating members and additional LEPC members.

County Emergency Operations Plan (EOP) 2021: Clint Langford advised that the EOP has been approved. The Next EOP will be a joint EOP with City of Lawton and Lawton Public Schools.

2022 Hazard Mitigation Plan (HMP): Clint Langford discussed that core members need to be identified. Emergency Management is meeting with Matt Rollins from ODEMHS about the Hazard Mitigation Plan process. He stated that we need a commitment from all core members so show up at each meeting and participate.

Are Quarterly Meetings Enough?: Jared Williams suggested that quarterly meetings are sufficient now until the time comes that we need to meet more frequently. Clint Langford made a motion to meet quarterly for now. Alana Pack seconded the motion. The motion carried unanimously.

TRAINING

Clint Langford asked what training needs we have. Jared Williams suggested a type 4 Incident Management Team (IMT) City/County (2 teams, 3 deep) to better manage incidents. Clint Langford will look into implementation.

PROPOSED MEETING DATES FOR 2022

Rebecca Villa-Winsett made the motion that we keep the same schedule consisting of the 1st Wednesday of each quarter: March 2, 2022, June 1, 2022, September 7, 2022 and December 7, 2022 at 10:00 am in the Comanche County EOC at 4500 SW Lee Blvd, Bldg 900. Kim O'Brien seconded the motion. The motion carried unanimously.

Sam Talamantez suggested changing the meeting time from 10am to noon during the lunch hour and using the LEPC money for food, if allowed. Clint Langford will look into the ability to use LEPC funds for that purpose.

COVID-19 UPDATE

Rebecca Villa-Winsett gave a COVID-19 update:

In Comanche County: Age 12 and up 68.5% have received 1 vaccine. 56.6% are fully vaccinated. Age 65 and up 82.2% are fully vaccinated. We are the 3rd highest vaccinated rate in the state of OK. She stated that she would email stats on Herd Immunity.

MERC UPDATE

Alana Pack gave a MERC Update. Clint Langford suggested a demo for the App: RAVE Collaborate that MERC uses, to see if it will fit with the City of Lawton and Comanche County for mass notifications and to build situational awareness and a common operating picture for incidents.

ADJOURNMENT

Jessica Carter made a motion to adjourn. Alana seconded the motion. They ayes were unanimous. Meeting adjourned at 11:42 am.

Next Meeting, March 2, 2022 at the Comanche County Emergency Operations Center (EOC), 4500 SW Lee Blvd, Building 900, Lawton, OK 73501

Good afternoon,

Welcome to the Hazard Mitigation Planning Committee. As we dive into the 2022-2023 year, we are undertaking the update of the Hazard Mitigation Plan (HMP), and you are a key component to our success in making our county a safer, more prepared place to live.

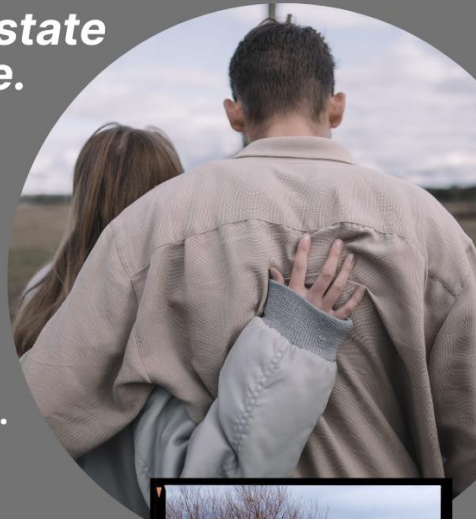
The most common question is “What is the Hazard Mitigation Plan?” Quite simply, hazard mitigation describes actions taken to help reduce or eliminate long-term risks caused by hazards or disasters, such as flooding, earthquakes, wildfires, tornadoes, or dam failure. This plan helps us, and communities become more resilient before a disaster strikes. Being a member of the HMP committee will assist you in being eligible for mitigation grants in your jurisdiction that can be used for things like storm sirens, generators, weather radios, flood acquisition projects, and much more.

We will be having a kickoff meeting on April 28th, 2022, at 10 a.m. at the Business Development Center at Great Plains Technology Center. It’s imperative that if you cannot attend that you send a representative on your behalf. We look forward to working with each one of you and working together to make a safer and more secure Comanche County.

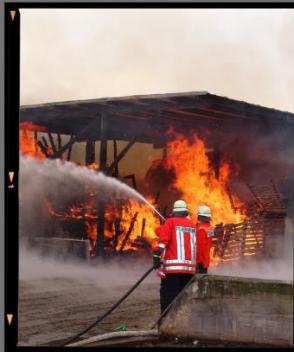
HAZARD MITIGATION PLAN

Natural disasters can devastate anyone, anytime, anywhere.

The Comanche County Hazard Mitigation Plan is being updated to help the county reduce its vulnerability to events such as flooding, winter storms, & tornados. Please join us.



Date: April 28, 2022
Time: 10 a.m.
Location: Business Development Center, Great Plains Tech Center



Comanche County ★ Lawton
**EMERGENCY
MANAGEMENT**

December 1, 2021

LEPC Meeting

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Jared Williams	LFD	580-581-3289	jared.williams@lawtonok.gov
Jessica Carter	911	580 581 3492	jessica.carter@lawtonok.gov
Rick Franz	911	580 581 3492	richard.franz@lawtonok.gov
Rebecca Vilk-Wins	ct Comanche CHD	580 682-1572	rebecca@health.ok.gov
Kim O'Brien	Red Cross	580-461-1780	kimberly.obrien@redcross.org
Alana Pack	Merc		
Rachael Hney	Com		Rachael.Hney@comanchecounty.us
Clint Langford	com		C.Langford@comanchecounty.us
Erin Ramsey	Indianoma		
Amy Hawkins	COM PD		ahawkins@comanchecounty.us
Lizzy Wads	MERC		

April 13, 2022

Mitigation Plan Extraordinary Circumstances Extension Letter
(DAM MEETING)

Location – EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Natalie Orbesen	OWRB	405-530-9800	natalie.orbesen@owrb.ok.gov
Emma Moradi	OWRB	405-530-8800	emma.moradi@owrb.ok.gov
Kim Jenson	OEM	405-590-0066	Kim.jenson@oem.ok.gov
Zach Bradley	OWRB	405-530-8800	Zachary.bradley@owrb.ok.gov
Carl Gray	COL - P.W.	405-351-0085	Carl.gray@lawtonok.gov
DAVID HASTINGS	COL - Pub. UTIL	580-512-7884	DAVID.HASTINGS@LAWTONOK.GOV
Zach Hollandsworth	OWRB	405-530-8800	Zachary.hollandsworth@owrb.ok.gov
Cynthia Williams	COL - Public Works	580-581-3478	Cynthia.williams@Lawtonok.gov
Matthew Rollins	OEM/MS	405-496-3004	Matthew.rollins@oem.ok.gov
Clint Langford	EM	580-351-8980	c.langford@comanchecounty.us
RACHAEL HUEY	CCEM	580-355-0535	rachael.huey@comanchecounty.us

April 28, 2022

HMP Meeting

[Handwritten signature]

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Sam Talamantez	OKTMDHS		
Donya Haden	Comanche Nation		
Bill Haden	Comanche Nation		
Christi Chambers	OK Blood Institute	⁵⁸⁰ 583-8992	christi.chambers@obi.org
JOE PAINTER	CITY OF LAWTON	405-919-2350	JOSEPH.PAINTER@LAWTONOK.GOV
Pam LaRoche	CC Assessor		
RAMON Adams	Goodyear	512-2038	RAMON.ADAMS@Goodyear.COM
CRAIG TRACTT	Fletcher PWA		
Bob Hanefield	Camerson University	580-581-8072	
Michelle Cox	OSDH	580-729-0140	michelle.cox@health.ok.gov
Michael Ottinger	Cotton Electric	580-875-3351	mottinger@cottonelectric.com

April 28, 2022

HMP Meeting

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Steve Gluck	Ft. Sill BM		
Jessie Nash	Geronimo	580-585-0898	
Trevor Vaughn	OSU Extension	940-223-2893	trevor.w.vaughn@okstate.edu
Eric Steinhilber	Lamarche County JDC	580-357-2250	LamarcheCountyJDC@gmail.com
Alvin Craig	District 3 Comm		
Erica Ramirez	Indianoma	580 246-3572	
Billy Sizemore	OSDH	405- 580-343-2454	billy.Sizemore@health.ok.gov
Brent Bassett	Lawton Fire	680	
Jared Williams	Lawton Fire	581-3280	
Sheila Hank	Juvenile Bureau		
Cynthia Williams	Lawton PW		

April 28, 2022

HMP Meeting

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Carrie Tubbs	County Clerk		countyclerk@comanchecounty.us
Dayle Tosh	CCSO		
Kenny Mike	District 1		
Catherine Krantz	Connected Nation		ckrantz@connectednation.org
Amber Zimmerman	UDFWS		amber-zimmerman@fws.gov
Jack Duthier	Pecan Valley RWD	580-454-9858	pecanvalleyRWD@gmail.com



LOCAL EMERGENCY PLANNING COMMITTEE

4500 SW Lee Blvd, Bldg 900 Suite 1A, Lawton, OK 73505, 580-355-0535

Meeting Agenda

Wednesday, September 7, 2022

Time: 10:00am

Emergency Operations Center

THE COMANCHE COUNTY/LAWTON LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WILL MEET FOR THEIR QUARTERLY MEETING AT THE EMERGENCY OPERATIONS CENTER.

AGENDA FOLLOWS:

1. Call to Order:
2. Roll Call / Attendees:
3. Reading and Approval of the June 1, 2021 Minutes:
4. Review and possible Adoption of LEPC Bylaws:
5. Possible Nomination and Election of LEPC Officers:
6. Emergency Management Update:
 - a. New Deputy Director / Floodplain Manager
 - b. 2022 Hazard Mitigation Plan Update / CoL HHPD Amendment
 - c. Virtual EOC Capability Update
 - d. Type IV Incident Command Capability Update
7. Partner Agency Updates:
 - a. Health Department- Region 5 Update
 - b. Regional Medical Response System – Region 3 Update
8. New Business: *(Consider any matter not known about or which could not have been reasonably foreseen prior to the time of posting this agenda.)*
9. Announcements & Audience Participation:
 - a. Next LEPC Meeting: Wednesday, December 7, 2022 at 10:00am.
10. Adjourn:

Respectfully Submitted

Clint A. Langford, EM Director



**COMANCHE COUNTY / LAWTON
LOCAL EMERGENCY PLANNING COMMITTEE
MEETING MINUTES 9.7.2022**

The LEPC met in quarterly meeting at 10:00 a.m., Wednesday, September 7, 2022, at the Emergency Operations Center in Lawton, Oklahoma.

1. CALL TO ORDER:

Clint Langford called the meeting to order at 10:05 a.m.

2. ROLL CALL/ATTENDEES:

Roll Call by Alana Pack, in attendance:

STAN BOOKER – City of Lawton	RAANON ADAMS – Goodyear
ARCHIE CAMPBELL – Law/Ft. Sill Airport	CAITLIN GATLIN – City of Lawton
ALANA PACK – Comanche Co EM	JARRED BURK – KSWO
ROBERT STEWART – Region 3 Medical Emergency Response	AMY HAWKINS – Comanche Co EM
JAMIE HENNESSEE – Memorial EMS	KIM O’BRIEN – Red Cross
KASEY PITTS – Memorial EMS	BARBARA RUSSELL – Republic Paper
TREVOR VAUGHN – OSU Extension office	BILLY SIZEMORE – Comanche Co Health Dept.
NICK EIMERS-MOSIER – Memorial Hosp	JESSICA CARTER – Emergency Communications
SCOTT RAINS – Lawton Constitution	SCOTT BURROWS – CERT
TIM HUSHBECK – Public Service Oklahoma	CPT RYAN STUDEBAKER – Lawton Police Dept.

3. READING & APPROVE MINUTES FROM June 1, 2022:

Barbara Russell moved to approve minutes from June 1 meeting. Scott Rains seconded. All approved motion carried.

4. Review and possible Adoption of the LEPC Bylaws:

- Article 2 Section 1: Jamie Henneessee motioned to change ‘First Aid’ to ‘Emergency Medical Services’ as more common language. Scott Rains seconded. Motion carried.
- Article 2 Section 1: Robert Stewart motioned to change ‘Civil Defense’ to ‘Emergency Management’ for continuity. Billy Sizemore seconded. Motion carried.
- Article 2 Section 1: Alana Pack motioned to change ‘Health’ to ‘Public Health’ for more specific explanation. Seconded by Barbara Russell. Motion carried.
- Scott Burrows questioned Treasurer position, will LEPC be a 501-3c or ad hoc. Bob Stewart stated that no LEPC that he’s ever dealt with were 501-3c that all LEPC qualify as committee under county government.



**COMANCHE COUNTY / LAWTON
LOCAL EMERGENCY PLANNING COMMITTEE
MEETING MINUTES 9.7.2022**

- Barbara Russell motioned to accept Bylaws as written with exception of aforementioned changes. Robert Stewart seconded. Motion carries.

5. POSSIBLE NOMINATION & ELECTION OF LEPC OFFICERS:

Article V: Stan Booker motioned to defer voting to next meeting. Clint gave email address for recommendations for Chairperson, Vice-Chairperson, Secretary/Treasurer, Emergency Coordinator between now and next meeting. Those nominated to be presented at the next meeting. There was no second or vote.

6. EMERGENCY MANAGEMENT UPDATE:

Clint Langford introduced Alana Pack – new Deputy Director of Emergency Management. Alana Pack gave update regarding Hazard Mitigation Plan Survey results and plans going forward.

Clint Langford provided update on virtual Emergency Operations Center capabilities and Type IV Incident Command capability update.

7. PARTNER AGENCY UPDATES:

Billy Sizemore gave update on local health department and Covid Pandemic (see attached pages)

Robert Stewart provided update from Regional Medical Response System – Region 3 update. (see attached pages)

8. NEW BUSINESS: none

9. ANNOUNCEMENTS & AUDIENCE PARTICIPATION:

Next LEPC meeting Wednesday, Decemeber 7, 2022 at 10 a.m.

10. ADJOURN:

Scott Rains made motion to adjourn at 11:12 a.m. Scott Burrows seconded. Motion carries.

Comanche County Hazard Mitigation Meeting

Organizer  Clint Langford

Sent Tue 10/18/2022 1:01 PM

Time Thursday, October 20, 2022 1:00 PM-2:00 PM

Location [Comanche County EOC; 4500 SW Lee Blvd, Building 900, Lawton, OK 73505](#)

Response  Accepted [Change Response](#)

 Comanche County - City of Lawton Hazard Mitigation Plan HVA Priority.pdf
534 KB

 Structures and Assets Update.docx
51 KB

 Comanche Co-Lawton Hazard Mitigation Projects.xlsx
143 KB

Comanche County Planning Partners,

WHAT: Hazard Mitigation Planning meeting

WHEN: October 20th at 1:00 pm

WHERE: Comanche County EOC

WHO: Representatives from all Comanche County cities, townships, school districts, special districts (water districts, fire protection districts, etc) and other stakeholders.

WHY: To identify those vulnerabilities within our county and the proposed solutions. Our planning group will work together to identify which projects take priority and what the necessary steps will be to work towards completing those projects. This will begin with a quick tutorial on how to use the HMP Planning Worksheet to assist each agency in developing their mitigation projects.

The mitigation planning process is designed to encourage communities to integrate mitigation into their day-to-day decision making about land use planning, floodplain management, site design and other functions. Policies, procedures, equipment, resources, or personnel can all be forms of mitigation and should be considered as part of your planning. By completing this plan, we will continue to be eligible to receive federal funding in the form of Public Assistance disaster grants, Hazard Mitigation grants, Flood Mitigation Grants, etc.

NOTE: Attached are some documents we will utilize as tools to help everyone identify their individual agencies risk and possible mitigation to reduce or eliminate their risks. This meeting will focus on **HOW** to use these tools and what is expected of each agency.

For those unable to attend, you can call the emergency management office and we can schedule a time to meet with you individually.

Thank you again for all your contributions and continued support of this undertaking.



EMERGENCY MANAGEMENT

315 SW 5th Street Room 107, Lawton, OK 73501, 580-355-0535

Hazard Mitigation Planning Meeting

Thursday, October 20th, 2022

Time: 1:00 PM

Emergency Operations Center
4500 W. Lee Blvd., Building 900

Agenda Follows:

1. Hazard Mitigation Plan Overview
2. Community Project Tool Training
3. Discussion and Feedback
4. Moving Forward:
 - a. Dates for Submission
 - b. Next Actions

CLINT A. LANGFORD
Emergency Management Director

Oct. 20, 2022

Hazard Mitigation Meeting

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Barbara Russell	Republic Paperboard	580 510 2297	brussell@lawtonpaperboard.com
Cynthia Williams	City of Lawton	580 581 3478	Cynthia.Williams@lawtonok.gov
Amber Zimmerman	USFWS	580 445-0118	amber_zimmerman@fws.gov
DAVID HASTINGS	CITY OF LAWTON	880-512-7884	DAVID.HASTINGS@LAWTONOK.GOV
Carl Gray	LOL	580 764 5147	carl.gray@lawtonok.gov
Rebecca Villa-Winsett	Comanche CHD	580 682 1572	rebecca@health.ok.gov
Cristny Halpe-Engle	Lawton E 911	⁵⁸¹ 580 488 3493	Cristnyhalpe-engle@lawtonok.gov
Billy Sizemore	Comanche CHD	580 ⁴⁰⁵ 343-2454	billy.sizemore@health.ok.gov
Yared Williams	Lawton Fire Comanche	580-605-4217	yaredwilliams@lawtonok.us
Lynn Cordes	LPS	(580) 351-8988	lcordes@lawtonps.org
Morgan Thompson	LPS	(580) 351-2012	morgan.thompson@lawtonps.org
Alana Pack	Comanche County EM	(580) 351-8788	apack@comanche.county.us

Hazard Mitigation Planning



APack@Comanchecounty.us

To lcordes@lawtonps.org; 'morgan.thompson@lawtonps.org'

Cc 'c.langford@comanchecounty.us'; Amy Hawkins; Mina Daniels



Reply



Reply All



Forward



Thu 11/3/2022 10:48 AM

Good morning Lynn.

I wanted to touch base with you and Morgan and check in to see if there is anything we can do to assist you with the Mitigation Project tool. We are beginning to schedule meetings with our stakeholders beginning on November 14th through the 16th. Please let me know if any of those dates work for you as well as a time.

Looking forward to working with you!

Alana Pack

Emergency Management Deputy Director

Comanche County / Lawton

315 SW 5th St. Room 107

Lawton, OK 73501

Office: 580-355-0535

Cell: 580-351-8788

Fax: 580-355-9306

E-mail: apack@comanchecounty.us

CCEM Website: <https://www.comanchecounty.us/emergency-management>



LOCAL EMERGENCY PLANNING COMMITTEE

4500 SW Lee Blvd, Bldg 900 Suite 1A, Lawton, OK 73505, 580-355-0535

Meeting Agenda

Wednesday, December 7, 2022

Time: 10:00am

Emergency Operations Center

THE COMANCHE COUNTY/LAWTON LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WILL MEET FOR THIER QUARTERLY MEETING AT THE EMEGENCY OPERATIONS CENTER.

AGENDA FOLLOWS:

- 1. Call to Order:
- 2. Roll Call / Attendees:

City Elected Official	County Elected Official	
Lawton Police Dept	Comanche County Sheriff	
Lawton Fire Dept	Comanche County Volunteer Fire Dept	
Emergency Medical Service	Transportation Personnel	
Public Health	Broadcast & Print Media	
Hospital	Community Group	
Owner/Operator of Facilities w/ HazMat	Emergency Management	

- 3. Reading and Approval of the September 7, 2022 Minutes:
- 4. Nomination and Election of LEPC Officers:
- 5. Emergency Management Update:
 - a. 2022 Hazard Mitigation Plan Update / CoL HHPD Amendment
 - b. 2023 Emergency Preparedness Projects/Activities:
 - i. Virtual EOC Capability
 - ii. Type IV Incident Command Capability
 - iii. First Responder Communications (800MHz & VHF Radios)
 - iv. VFD Emergency Medical Capability
 - v. Lawton First: Active Shooter FSE
- 6. Partner Agency Updates:
 - a. Health Department- District 5 Update
 - b. Regional Medical Response System – Region 3 Update

7. Guest Speaker:
 - a. Oklahoma Blood Institute-Christi Chambers, Executive Director
8. New Business: *(Consider any matter not known about or which could not have been reasonably foreseen prior to the time of posting this agenda.)*
9. Announcements & Audience Participation:
 - a. Next LEPC Meeting: Wednesday, March 1, 2023 at 10:00am.
10. Adjourn:

Respectfully Submitted: Clint A. Langford, EM Director



LOCAL EMERGENCY PLANNING COMMITTEE

4500 SW Lee Blvd, Bldg 900 Suite 1A, Lawton, OK 73505, 580-355-0535

Meeting Minutes

Wednesday, December 7, 2022

Time: 10:00am

Emergency Operations Center

The Comanche County/Lawton Local Emergency Planning Committee (LEPC) will meet for their quarterly meeting at the emergency operations center.

1. **Call to Order:** Mr. Clint Langford called to order at 10:10 a.m.
2. **Roll Call / Attendees:**

City Elected Official Randy Warren (for Mayor)	County Elected Official
Lawton Police Dept Eric Carter	Comanche County Sheriff Doyle Tosh
Lawton Fire Dept Kyle Nyhart	Comanche County Volunteer Fire Dept
Emergency Medical Service Bruce Crowell Jessica Carter	Transportation Personnel Cliff Haggemiller
Public Health Rebecca Villa-Winslett Billy Sizemore	Broadcast & Print Media Jarred Burk Caitlin Gatlin Dalynna Wood Scott Rains
Hospital Nick Eimers-Mosier	Community Group Mary Jane Coffman
Owner/Operator of Facilities w/ HazMat Barbara Russell	Emergency Management Clint Langford Alana Pack Amy Hawkins

A. ENTITIES WHO HAVE DESIGNATED PRIMARY & 2 ALTERNATES

ENTITY	PRIMARY	ALT 1	ALT 2
Comanche Co HD	Rebecca Villa-Winslett, LERC rebeccaw@health.ok.gov 580-682-1572	Billy Sizemore, LERS Billy.sizemore@health.ok.gov 405-343-2454	Aaron Quickle, Pub Health Specialist AaronQ@health.ok.gov 580-704-9317
KSWO	Jarred Burk jarred.burk@kswo.com	Matt Walker Matt.Walker@kswo.com	Kevin Haggemiller Kevin.Haggemiller@kswo.com
CCMH	Nicholas Eimers-Mosier Nicholas.eimer-mosier@ccmhhealth.com	Heather Love Heather.love@ccmhhealth.com	Rechelle Criger Rechelle.criger@ccmhhealth.com

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Discussion regarding the positions with Mr. Clifford Haggemiller. Mr. Haggemiller felt that his place with Transportation was incorrect. It was explained that the categories are broad and encompassing according to FEMA Emergency Support Function definitions. The ESF 1 Transportation category core capabilities are:

- Monitors and reports the status of and damage to the transportation system and infrastructure. Identifies temporary alternative transportation solutions to be implemented when primary systems or routes are unavailable or overwhelmed.
- Implement appropriate air traffic and airspace management measures.
- Coordinates regulatory waivers and exemptions.
- Provides longer-term coordination of the restoration and recovery of the affected transportation systems and infrastructure if required

3. Reading and Approval of the September 7, 2022 Minutes:

Mrs. Jessica Carter moved to approve minutes from September 7th meeting. Mr. Scott Rains seconded. All approved, motion carried.

4. Nomination and Election of LEPC Officers:

CHAIRPERSON NOMINATIONS: Raanon Adams, Jared Williams, Jamie Hennessey

VICE CHAIRPERSON: Sam Talamantez, Jared Williams

SECRETARY/TREASURY: Jessica Carter, Nick Mosier, Alana Pack

PIO/EMERGENCY COORDINATOR: Scott Rains, Amy Hawkins

Mrs. Rebecca Villa-Winslett spoke regarding the position of Secretary/Treasury, that it should be someone within the office of Emergency Management. Reason was because when it comes to handing the funds that LEPC receives and the minutes, that it is better if the person is closer to the chair.

Ms. Barbara nominated Mrs. Alana Pack to Secretary/Treasury

Mr. Clifford Haggemiller nominated Mrs. Amy Hawkins to PIO/Emergency Coordinator

Mrs. Rebecca Villa-Winslett also asked that we vote on the officers that are at the meeting – i.e. Secretary/Treasury and PIO/Emergency Coordinator.

Mr. Jarred Burk motioned to table all elections to next meeting so that nominees can be informed and decide if they want to accept nomination. Mr. Eric Carter seconded. Vote: All aye, no nay.

5. Emergency Management Update:

Mr. Clint Langford introduced Mrs. Alana Pack – new Deputy Director of Emergency Management.

Mrs. Alana Pack gave update regarding Hazard Mitigation Plan Survey results and plans going forward.

Mr. Clint Langford provided update on virtual Emergency Operations Center capabilities and Type IV Incident Command capability update.

6. Partner Agency Updates:

Mr. Billy Sizemore gave update on local health department and Covid Pandemic (see attached pages)

Mr. Robert Stewart provided update from Regional Medical Response System – Region 3 update. (see attached pages)

7. Guest Speaker:

- a. Oklahoma Blood Institute-Christi Chambers, Executive Director – was unable to be in attendance

8. New Business: *(Consider any matter not known about or which could not have been reasonably foreseen prior to the time of posting this agenda.)*

- a) Vote on 2023 meeting schedule:

March 1, 2023

June 7, 2023

September 7, 2023

December 6, 2023

Motion made by Mr. Cliff Haggemiller and seconded by Scott Rains. Motion carried.

- b) EMS update from Mr. Bruce Crowell:

Staffing issues continue to plague the EMS community. We are looking for way to increase staffing in the surrounding areas, particularly by subsidizing taxes. Hopeful that Kirk's can get the new commissioners on board with this idea. Mr. Clint Langford stated that we do not have enough ambulances for the size of our service area. Mr. Bruce Crowell said that they have had 10,500 calls just for Kirks in our area.

9. Announcements & Audience Participation:

- a. Next LEPC Meeting: Wednesday, March 1, 2023, at 10:00am.

10. **Adjourn:**

Mr. Scott Rains motioned to adjourn at 11:40 a.m., Ms. Barbara Russell seconded, motion carried.

Minutes recorded by: Amy Hawkins

A. Hawkins
12/16/2022

Dec. 7, 2022

LEPC Meeting

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Bruce Crowell	Kinks EMS	580-89-6012	bcrowellpro@gmail.com
Lizzy Woods	Reg 3 BMRB	580-704-7132	elizabethh.woods@drhhealth.org
Rebecca Vila Winsett	Comanche CHD	580-682-1572	rebeccaw@health.ok.gov
DOYLE TOSH	CCSO	353-4280	dtosh@sheriff.comtuck.com
Nick Eimers-Mosior	CCMH	580-919-9250	nicholas.eimers-mosior@ccmhhealth.com
Jessica Carter	E-911	581-3492	jessica.carter@lawtonok.gov
James Burk	KSWO	591-2115	James.Burk@ksw.com
Kyle Nthart	LFD	581-3280 4010	Kyle.Nthart@lawtonok.gov
Scott Rains	Lawton Constitution	580-351- 7132	srains@swoknews.com
Berb Russell	Republic Paperboy	580-570 2297	brussell@lawtonpaperboy.com
Cliff Haggitt	COL	581-3427	cliffhaggitt@lawtonok.com

Dec. 7, 2022

LEPC Meeting

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
Caitlin Gatlin	City of Lawton	432-250-0180	Caitlin.gatlin@lawtonok.gov
Dalynna Wood	City of Lawton	580 647 8196	dalynna.wood@lawtonok.gov
Billy Sizemore	CCHD District 5	405 343-2454	billy.sizemore@health.ok.gov
Randy Warren	COL - For Mayor	580 678 4200	randy.warren@lawtonok.gov
Alana Pack	CCEM	580-351-8788	apack@comanchecounty.ok.us
Amy Hawkins	CCEM	580-351-1535	ahawkins@comanchecounty.us
Clint Langford	EM	351-8880	c.langford@comanchecounty.us
Eric Carter	LPP		
Margaret Loffman	ARC -		



EMERGENCY MANAGEMENT

315 SW 5th Street Room 107, Lawton, OK 73501, 580-355-0535

Hazard Mitigation Planning Agenda


1. Introduction and Overview of Hazard Mitigation Planning for Comanche County
 - a. Review of Identified Hazards
 - b. Review of Jurisdictional Capabilities
2. Discussion of Information Needs
 - a. Valuations
 - b. Historical Information
 - c. Potential Threats and Hazards
 - d. Current Needs
3. Project Table Development
 - a. Identification of Critical Infrastructure
 - b. Identification of Need
4. Project Development
 - a. Project Proposal
 - b. Estimated Cost
 - c. Estimated Timeline
 - d. Resources Needed for Completion
 - i. Equipment
 - ii. Personnel
 - iii. Other
 - e. Point of Contact

Google Calendar <calendar-notification@google.com> on behalf of chattyfirechief@gmail.com

Accepted: Town of Chattanooga & Chattanooga PS HMP Meeting @ Tue Nov 15, 2022 11:30am - 12:30pm (CST) (Alana Pack)

When Tuesday, November 15, 2022 11:30 AM-12:30 PM (UTC-06:00) Central Time (US & Canada).

Location Chattanooga Volunteer Fire Department 209 3rd St.

 Google Calendar has accepted this meeting on behalf of chattyfirechief@gmail.com.



chattyfirechief@gmail.com has accepted this invitation.

When

Tuesday Nov 15, 2022 · 11:30am – 12:30pm (Central Time - Chicago)

Location

Chattanooga Volunteer Fire Department 209 3rd St.

[View map](#)

Organizer

Alana Pack

apack@comcoem.org

Guests

chattyfirechief@gmail.com - creator

c.langford@comanchecounty.us

jbrown@chatty.k12.ok.us

Amy Hawkins

HMP meeting follow-up



Wed 1/25/2023 9:13 AM



ahawkins@comanchecounty.us

To town of Chatty; plhumble373@gmail.com; rondaleewhite@gmail.com; nashppc@gmail.com; bpascoe@geronimo.k12.ok.us

Cc Alana Pack

Good Morning,

It has been a few weeks since we last spoke regarding the HMP plan update. I wanted to touch base with you and see if you needed any assistance and when you might have the information ready to send to us. Please get back with me and let me know as soon as possible. We are at the tail end of this update and could be putting the stamp on this project for FEMA approval, but we can not do it without your assistance.

Arry Hawkins

EM Specialist/Public Information Officer
Comanche County/Lawton Emergency Management

ahawkins@comanchecounty.us

office: 580-355-0535

cell: 580-583-9166



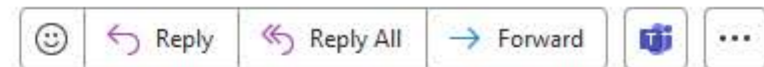
FW: HMP Chattanooga



ahawkins@comanchecounty.us

To Alana Pack

You replied to this message on 1/25/2023 9:58 AM.



Wed 1/25/2023 9:52 AM

Chatty sent back their excel document.

Amy

From: townofchatty townofchatty <townofchatty@pldi.net>

Sent: Wednesday, January 25, 2023 9:51 AM

To: ahawkins <ahawkins@comanchecounty.us>

Subject: HMP Chattanooga

I thought I sent this back in December. I'm sorry. Let me know if I need to fill out something else or if this is ok.

Thank You

Jaime Fisher

Town of Chattanooga

580-597-3390

Multi-Jurisdictional Hazard Mitigation Meeting

Organizer Emergency Management

Sent Thu 12/8/2022 3:30 PM

Time Wednesday, December 14, 2022 9:00 AM-10:00 AM

Location [801 1st St \(801 1st St, Elgin, Oklahoma 73538\); Elgin Community Center](#)

Response Accepted [Change Response](#)

This meeting is to review current information for your jurisdiction which is currently in the Comanche County Hazard Mitigation Plan and assist in developing future Mitigation Projects. Please feel free to share this invitation with any appropriate personnel so they may also attend. This meeting is scheduled to last an hour, and we will schedule additional one-on-one time as needed.

Thank you

Hazard Mitigation Community Planning



Alana Pack

To Shane Gilbreath (Sgilbreath@fletchersschools.org); agrimes@fletchersschools.org



Thu 12/8/2022 10:01 AM

Good Morning,

Our Office is working to review and update our Multi-Jurisdictional Hazard Mitigation Plan for Comanche County and all municipalities, special districts, and school districts within the county. We are scheduling time to meet with each municipality and adjoining school district to help identify what critical infrastructure & hazards and mitigation strategies, develop a project list, and update some existing information from the current Plan for your jurisdictions.

We would like schedule a meeting with representatives from Fletcher Public Schools and Town of Fletcher. This meeting would take approximately one hour and would be beneficial for all involved as we work together to create a more resilient community. This meeting will take place on December 14th at 9:00 am and is pending location. If you are unable to attend, please let us know and we will schedule a time at your convenience.

If you have any questions, please don't hesitate to reach out. My contact information is included below.

Thank you,

Alana Pack

Emergency Management Deputy Director

Comanche County / Lawton

315 SW 5th St. Room 107

Lawton, OK 73501

Office: 580-355-0535

Cell: 580-351-8788

Fax: 580-355-9306

E-mail: apack@comanchecounty.us

CCEM Website: <https://www.comanchecounty.us/emergency-management>

Dec. 14, 2022

HMP Meeting for Elgin, Fletcher, and Sterling Meeting

Location - EOC

<u>Name:</u>	<u>Agency</u>	<u>Phone #</u>	<u>Email Address</u>
John Pinkston	Sterling Schools	479-221-8608	jpinkston@sterling.k12.ok.us
CRAIG TRACHT	Fletcher PWA/FVFD	5807303338	CgTracht@gmail.com
JAMES JULIAN	STERLING POLICE	5806953091	LPDMAN.ZONE2@YAHOO.COM
Charlene Avila	Fletcher	5805496550	towngov.charlene@tds.net
Mike Baker	Elgin	580-52-7014	elginchief@cityofelginok.com
Amy Hawkins	CCLEM	580-3555335	ahawkins@comanche.co.us
Alana Pack	CCLEM	" "	APack@ComCoem.org
Clint Langford	CCLEM	" "	Clayford@Comanche.co.us
Ashley Sanders	CC Dist 1	580-492-4328	a.sanders@comanchecounty.us
PAUL Tracy	ELGIN PD	580-492-5117	pTRACY@ELGINPD.COM
Machelle Reynolds	Elgin	580-492-5777	treasurer@cityofelginok.com

HMP Follow-up



ahawkins@comanchecounty.us

To: jpinkston@sterling.k12.ok.us

Cc: Alana Pack



Reply

Reply All

Forward



Thu 1/26/2023 9:37 AM

Mr. Pinkston,

I wanted to reach out and follow-up with you regarding our Hazard Mitigation Plan update after our meeting in December. We need to get that information into our office as soon as possible so that we can move forward with finishing it up and submitting to FEMA for approval. If you do not have any new or updated information to put into the HMP, we will need a resolution from the school board stating as such.

We are here to assist you in any way that we can. Please reach out if we can help.

As a side note, the phone number we have for you was not working. Please verify the correct number for us.

Thank you,

Arny Hawkins

EM Specialist/Public Information Officer

Comanche County/Lawton Emergency Management

ahawkins@comanchecounty.us

office: 580-355-0535

cell: 580-583-9166



Hazard Mitigation Meeting - Follow up Documents



Alana Pack

To treasurer@cityofelginok.com

Reply Reply All Forward

Thu 12/15/2022 4:46 PM

Structure and Infrastructure Asset Valuation- Cities and Municipalities.docx
22 KB

Comanche Co-Lawton Hazard Mitigation Projects.xlsx
73 KB

Structure and Infrastructure Asset Valuation - School Districts.docx
18 KB

Good Afternoon,

I want to first thank each of you for your attendance yesterday. We would be unable to complete this project without each of you being willing to assist us and your willingness to participate and help us make our communities and county a more resilient place is very valuable. Attached here you will find the documents that we discussed yesterday. We would like to receive these back by the first of the year to help accelerate our process and get the plan submitted to the State and to FEMA for final approval.

Our office is available to assist you with any needs you may have, please do not hesitate to contact us. We can meet one-on-one or review any partially completed documents you may have and provide feedback and guidance. The County Assessors office is also available to assist with structure valuation information if needed.

We hope each of you have a Merry Christmas and a Happy New Year!

Respectfully,

Alana Pack

Emergency Management Deputy Director

Comanche County / Lawton

315 SW 5th St. Room 107

Lawton, OK 73501

Office: 580-355-0535

Cell: 580-351-8788

Fax: 580-355-9306

E-mail: apack@comanchecounty.us

CCEM Website: <https://www.comanchecounty.us/emergency-management>

Multi-Jurisdictional Hazard Mitigation Planning Meeting



APack@Comanchecounty.us

To dtrent@flowermound.k12.ok.us; 'hamptonh@bishop.k12.ok.us'

Cc 'c.langford@comanchecounty.us'; ahawkins@comanchecounty.us



Wed 1/25/2023 3:28 PM

Good Afternoon,

Our Office is working to review and update our Multi-Jurisdictional Hazard Mitigation Plan for Comanche County and all municipalities, special districts, and school districts within the county. We are scheduling time to meet with each municipality and adjoining school district to help identify what critical infrastructure & hazards and mitigation strategies, develop a project list, and update some existing information from the current Plan for your jurisdictions.

We would like to schedule a multi-jurisdictional meeting with representatives from your District. This meeting would take approximately one hour and would be beneficial for all involved as we work together to create a more resilient community. With the holiday season approaching, we understand that time may be limited, however, this meeting would be to verify existing information which was included in the previous Hazard Mitigation Plan which was completed in 2018.

We would like to schedule this meeting for next Thursday, February 2nd at 10:00 am. If either District has a space available to host, please let me know.

If you have any questions, don't hesitate to reach out. My contact information is included below.

Thank you,

Alana Pack

Emergency Management Deputy Director

Floodplain Manager

Comanche County / Lawton

315 SW 5th St. Room 107

Lawton, OK 73501

Office: 580-355-0535

Cell: 580-351-8788

Fax: 580-355-9306

E-mail: apack@comanchecounty.us

CCEM Website: <https://www.comanchecounty.us/emergency-management>

Comanche County Lawton Emergency Management



Emergency Management Orientation & Hazard Mitigation Project Update

City of Lawton Directors Meeting

January 23, 2023

<u>Name:</u>	<u>Department:</u>	<u>Phone #</u>	<u>Email Address:</u>
Brent Baggett	fire	581-3280 4012	matthew.baggett@lawtonok.gov
Jared Williams	fire	jared.williams@lawtonok.gov
Cynthia Williams	PW	580-581-3478	Cynthia.williams@lawtonok.gov
DAVID HASTINGS	P. U.	580-512-7884	DAVID.HASTINGS@LAWTONOK.GOV
Jessica Carter	911	580-581-3492	jessica.carter@lawtonok.gov
LARRY WOLCOTT	PUBLIC WORKS	580-581-3410	LARRY.WOLCOTT@LAWTONOK.GOV
Christine James	Parks & Rec	580-581-3400	Christine.JAMES@lawtonok.gov
RON SERATTE	Police	580-581-3200	rondell.seratte@lawtonok.gov
W. Rusty Whisenant	Public Utilities	580-581-3400	Willie.Whisenant@Lawtonok.gov
JOE DON DUNHAM	Finance	580-581-3328	joe.dunham@lawtonok.gov

Comanche County Lawton Emergency Management



Emergency Management Orientation & Hazard Mitigation Project Update

City of Lawton Directors Meeting

January 23, 2023

<u>Name:</u>	<u>Department:</u>	<u>Phone #</u>	<u>Email Address:</u>
Judy Franco	ITS	581-3338	jfranco@lawtonok.gov
Dewayne Burk	City Manager	581-3301	dewayne larry.burk@lawtonok.gov
Amy Hawkins	EM Specialist	355-0535	ahawkins@ComancheCounty.us
Alana Pauc	Deputy Director ^{CCEM}	355-0535	apauc@Comcsem.org
Clint Langford			
Clint Langford	Director ^{CCEM}		clangford@Comcsem.org

Multi-Jurisdictional Hazard Mitigation Meeting



Emergency Management

Required Emergency Management; APack@Comanchecounty.us

Optional c.langford@comanchecounty.us; Amy Hawkins; Yolonda Ramos; Tom Crawford; Rickey Snider; rthomas@cachegov.com; chad.hance@cachepts.org; tammie.reynolds@cachepts.org; John Bowers; indiahomaclerk@gmail.com; Chris Jones; David McCoy; Alana Pack; Mina Daniels

No Response Required

Tue 1/31/2023 10:42 AM

We couldn't find this meeting in the calendar. It may have been moved or deleted.

Comanche Co-Lawton Hazard Mitigation Projects.xlsx
69 KB

Structure and Infrastructure Asset Valuation - School Districts.docx
15 KB

Structure and Infrastructure Asset Valuation- Cities and Municipalities.docx
18 KB

HMP Multi-Jurisdictional Meeting Agenda.pdf
134 KB

Wednesday, February 1, 2023 1:00 PM-2:00 PM Medicine Park Event Center (19001 Highway 49, Medicine Park, OK 73557, United States)

1 PM	
2 PM	

Good Morning,

Due to the continuing threat of inclement weather, this meeting is being postponed out of concern for the safety of all attendees. A follow up email with the new date and time will be sent out by weeks' end. You will receive a cancellation notice in addition to this email.

Thank you,

Alana Pack
 Emergency Management Deputy Director
 Floodplain Manager
 Comanche County / Lawton
 315 SW 5th St. Room 107
 Lawton, OK 73501
 Office: 580-355-0535
 Cell: 580-351-8788
 Fax: 580-355-9306
 E-mail: apack@comanchecounty.us
 CCEM Website: <https://www.comanchecounty.us/emergency-management>

Comanche County Lawton Emergency Management



Multi-Jurisdictional Hazard Mitigation Meeting at Medicine Park Event Center

February 8, 2023

<u>Name:</u>	<u>Department:</u>	<u>Phone #</u>	<u>Email Address:</u>
ANDY ANDERSON	MEDICINE PARK	580-585-7606	SHOVELHEAD381@GMAIL.COM
Chris Jones	Indianhome Fire	580-351-7712	
Tom Crawford	MEDICINE PARK PD	580-678-8076	mppd120@medicinepark.com
RODNEY WHALEY	MED PARK PWA VFD	580.458.2596	rodney.whaley@medicinepark.com
YOLONDA RAMOS	MED PARK	580-647-6740	treasurer@medicinepark.com
DAVID MCCOY	MPFD	580-574-8819	DAVIDMCCOY8819@GMAIL.COM
Clint Langford	CCEM		c.langford@comanchecounty.us
Alana Pack	CCEM		apack@comanchecounty.us

Hazard Mitigation Planning Documents



Alana Pack

To ○ 'Code Enforcement'

Reply Reply All Forward

Tue 2/7/2023 10:30 AM

Comanche Co-Lawton Hazard Mitigation Projects.xlsx
73 KB

Hazard Mitigation Assistance Eligible Activities.pdf
318 KB

Structure and Infrastructure Asset Valuation- Cities and Municipalities.docx
22 KB

Paul,

It was great speaking with you today and I look forward to meeting you and working with you.

Alana Pack

Emergency Management Deputy Director

Comanche County / Lawton

315 SW 5th St. Room 107

Lawton, OK 73501

Office: 580-355-0535

Cell: 580-351-8788

Fax: 580-355-9306

E-mail: apack@comanchecounty.us

CCEM Website: <https://www.comanchecounty.us/emergency-management>

Fwd: Multi-Jurisdictional Hazard Mitigation Planning Meeting



Alana Pack <apack@comanchecounty.us>

To don.wise@indiahomaps.org



Thu 1/26/2023 8:52 AM

Mr. Wise,

I wanted to make sure that you received a copy of the email that I have sent out. We are in the final planning stages and wanted to ensure that Indianhoma school district was included in the planning.

Please let me know if you have any questions.

Good Afternoon,

Our Office is working to review and update our Multi-Jurisdictional Hazard Mitigation Plan for Comanche County and all municipalities, special districts, and school districts within the county. We are scheduling time to meet with each municipality and adjoining school district to help identify what critical infrastructure & hazards and mitigation strategies, develop a project list, and update some existing information from the current Plan for your jurisdictions.

We would like to schedule a multi-jurisdictional meeting with representatives from your jurisdiction. This meeting would take approximately one hour and would be beneficial for all involved as we work together to create a more resilient community. With the holiday season approaching, we understand that time may be limited, however, this meeting would be to verify existing information which was included in the previous Hazard Mitigation Plan which was completed in 2018.

We would like to schedule this meeting for next **Wednesday, February 1st at 1:00 pm.** We are still looking for location to hold this meeting and we'd like to keep it centrally located for all attendees. If anyone has a space that could be utilized and would like to offer, please let me know.

If you have any questions, please don't hesitate to reach out. My contact information is included below.

Thank you,

Alana Pack

Emergency Management Deputy Director

Floodplain Manager

Comanche County / Lawton

315 SW 5th St. Room 107

Lawton, OK 73501

Office: 580-355-0535

Cell: 580-351-8788

Fax: 580-355-9306

E-mail: apack@comanchecounty.us

CCEM Website: <https://www.comanchecounty.us/emergency-management>

Hazard Mitigation Planning



APack@Comanchecounty.us

To indiahomaclerk@gmail.com

Reply Reply All Forward

Mon 2/13/2023 10:07 AM

Comanche Co-Lawton Hazard Mitigation Projects.xlsx
72 KB

fema-mitigation-ideas_02-13-2013.pdf
4 MB

Mitigation Action Types.pdf
182 KB

Structure and Infrastructure Asset Valuation- Cities and Municipalities.docx
22 KB

Jodee,

Here are the documents we discussed on the phone, please let me know if you need any assistance or have any questions. I will see you tomorrow at 9:30.

Thank you,

Alana Pack

Emergency Management Deputy Director

Floodplain Manager

Comanche County / Lawton

315 SW 5th St. Room 107

Lawton, OK 73501

Office: 580-355-0535

Cell: 580-351-8788

Fax: 580-355-9306

E-mail: apack@comanchecounty.us

CCEM Website: <https://www.comanchecounty.us/emergency-management>

SPAM Public Utilities HMP



David Hastings <david.hastings@lawtonok.gov>

To: APack@Comanchecounty.us

 You forwarded this message on 3/7/2023 9:03 AM.



Comanche Co-Public Utilities Lawton Hazard Mitigation Projects.xlsx
71 KB



Thu 2/23/2023 7:45 AM

Please see an attempt to fill this form with some information from the Lawton HMP from 2019.

I tried to tailor to Public Utilities but also put in some overall Lawton information.

Let me know how it looks and if we need to add more detail, remove items, etc.

I really want this to be correct and relevant.

Thank you,

David Hastings

City of Lawton

Wastewater Plant Superintendent

P: (580) 529-2703

C: (580) 512-7884

GoTo: 2410

david.hastings@lawtonok.gov

Hazard Mitigation Plan Tool



APack@Comanchecounty.us

To rondell.seratte@lawtonok.gov; Eric Carter (Eric.Carter@lawtonok.gov)
Cc c.langford@comanchecounty.us

Reply Reply All Forward

Fri 2/17/2023 1:44 PM

Comanche Co-Lawton Hazard Mitigation Projects - LPD.xlsx 74 KB	Comanche County Seismic Risk.pdf 825 KB	fema_bara-new-checklist_10-4-2017.pdf 3 MB
tornado-protection_selecting-refuge-area-in-buildings.pdf 9 MB	FEMA 431 - Tornado Protection.pdf 12 MB	

Sirs,

Attached is your completed Project Tool for your review. I included the items that we discussed on Monday on the tool and tried to articulate the proposed actions as best I could. Please feel free to adjust the language or send back over suggestions for revision. I also included some documents for a bit of light reading on identifying saferooms and a checklist that can be completed to help assess building risks. Additionally I've included a GIS map which was generated from the Resilience Analysis and Planning Tool (RAPT) which FEMA provides to identify areas which fall within certain seismic zones or other hazardous impact trends. This map includes both hazards which we discussed (earthquake and tornado) and provides some historical and geological information to assist you in decision-making.

If there is anything else I can do to be of assistance please don't hesitate to reach out.

Have a great weekend,

Alana Pack
Emergency Management Deputy Director
Floodplain Manager
Comanche County / Lawton
315 SW 5th St. Room 107
Lawton, OK 73501
Office: 580-355-0535
Cell: 580-351-8788
Fax: 580-355-9306
E-mail: apack@comanchecounty.us
CEM Website: <https://www.comanchecounty.us/emergency-management>



LOCAL EMERGENCY PLANNING COMMITTEE

4500 SW Lee Blvd, Bldg 900 Suite 1A, Lawton, OK 73505, 580-355-0535

Meeting Agenda

Wednesday, April 5th, 2023

Time: 1:00 PM

Emergency Operations Center

THE COMANCHE COUNTY/LAWTON LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WILL MEET FOR THEIR QUARTERLY MEETING AT THE EMERGENCY OPERATIONS CENTER.

AGENDA FOLLOWS:

1. Call to Order:
2. Roll Call / Attendees:

City Elected Official	County Elected Official	
Lawton Police Dept	Comanche County Sheriff	
Lawton Fire Dept	Comanche County Volunteer Fire Dept	
Emergency Medical Service	Transportation Personnel	
Public Health	Broadcast & Print Media	
Hospital	Community Group	
Owner/Operator of Facilities w/ HazMat	Emergency Management	

3. Reading and Approval of the December 7, 2022, Minutes:
4. Guest Speaker:
 - a. Matthew Wormus, Oklahoma Department of Environmental Quality
5. Emergency Management Update:
 - a. 2022 Hazard Mitigation Plan Update
 - b. 2023 Emergency Preparedness Projects/Activities:
 - i. Lawton First: Active Shooter FSE
 - ii. EM Volunteer Program
6. Partner Agency Updates:
 - a. Comanche County Health Department
 - b. Region 3 RMRS
7. Nomination and Election of LEPC Officers

8. New Business: *(Consider any matter not known about or which could not have been reasonably foreseen prior to the time of posting this agenda.)*
9. Announcements & Audience Participation:
 - a. Next LEPC Meeting: Wednesday, June 7th, 2023, at 10:00am.
10. Adjourn:

Respectfully Submitted: Clint A. Langford, EM Director

Comanche County Lawton Emergency Management



Local Emergency Planning Committee (LEPC) Meeting

April 5th, 2023

<u>Name:</u>	<u>Department:</u>	<u>Phone #</u>	<u>Email Address:</u>
Leslie Burrows	CERT	5039564288	leslieburrows73507@gmail.com
Scott Burrows	CERT	5034737251	sburrows97211@comcast.net
Clint Langford	Emergency Management	355-0535	clangford@comanchecountyok.gov
Lizzy Woods	Reg 3 RMRS	580-574-2500	lizzywoods@okhealth.org
Barbara Russell	Industry	580-510-2297	brussell@lantzpaperboard.com
Billy Sizemore	Comanche Health	405343-2454	billy.sizemore@health.ok.gov
Bruce Crowell	Rates	580-819-0012	bcrowellp70@gmail.com
Robert Stewart	AMRS	580-280-0260	Robert.Stewart@okhealth.org
Kenny Curry	Comanche #11	5803518182	Kenny Mike Curry @ Gmail.com
Scott Rains	CEMgmt	580-351-7132	srains@swoknews.com

Comanche County Lawton Emergency Management



Local Emergency Planning Committee (LEPC) Meeting

April 5th, 2023

<u>Name:</u>	<u>Department:</u>	<u>Phone #</u>	<u>Email Address:</u>
Jeff Brewer	Red Cross	580-917-2053	rjs rentals @ MSN. com
Jared Williams	Lawton Fire	580-625-0117	
Matt Warmus	ODEG		
Dalynna Wood	City of Lawton		dalynna.wood@lawtonok.gov
Caitlin Gattin	City of Lawton		caitlin.gattin@lawtonok.gov
Alana Pack	CCEM		apack@comanchecountyok.gov
Clint Langford	CCEM		clangford@comanchecountyok.gov



LOCAL EMERGENCY PLANNING COMMITTEE

4500 SW Lee Blvd, Bldg 900 Suite 1A, Lawton, OK 73505, 580-355-0535

Meeting Agenda

Wednesday, June 7th, 2023

Time: 10:00 AM

Emergency Operations Center

THE COMANCHE COUNTY/LAWTON LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WILL MEET FOR THEIR QUARTERLY MEETING AT THE EMERGENCY OPERATIONS CENTER.

AGENDA FOLLOWS:

1. Call to Order:
2. Roll Call / Attendees:

City Elected Official	County Elected Official	
Lawton Police Dept	Comanche County Sheriff	
Lawton Fire Dept	Comanche County Volunteer Fire Dept	
Emergency Medical Service	Transportation Personnel	
Public Health	Broadcast & Print Media	
Hospital	Community Group	
Owner/Operator of Facilities w/ HazMat	Emergency Management	

3. Reading and Approval of the April 5, 2023, Minutes:
4. Emergency Management Update:
 - a. New EM Specialist: Thad Hulbert
 - b. 2022 Hazard Mitigation Plan Update
 - c. 2023 Emergency Preparedness Projects/Activities:
 - i. Lawton First: Active Shooter FSE
 - ii. ARPA Projects
5. Partner Agency Updates:
 - a. Comanche County Health Department- Rebecca Villa-Winsett
 - b. Region 3 RMRS- Lizzy Woods
6. Funds/Budget:
 - a. \$1,000.00 received from DEQ for Tier II reports
 - b. Utilization
7. Review of current LEPC bylaws

8. Committee Goals/ Future Projects (open discussion)

New Business: *(Consider any matter not known about or which could not have been reasonably foreseen prior to the time of posting this agenda.)*

9. Announcements:
 - a. Next LEPC Meeting: September 7th, 2023
10. Adjourn:

Prepared by: Nick Eimers-Mosier, LEPC Secretary



LOCAL EMERGENCY PLANNING COMMITTEE

4500 SW Lee Blvd, Bldg 900 Suite 1A, Lawton, OK 73505, 580-355-0535

Meeting Agenda

Wednesday, Dec. 5th, 2023

Time: 10:00 AM

Emergency Operations Center

THE COMANCHE COUNTY/LAWTON LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WILL MEET FOR THEIR QUARTERLY MEETING AT THE EMERGENCY OPERATIONS CENTER.

AGENDA FOLLOWS:

1. Call to Order:
2. Roll Call / Attendees:

City Elected Official	County Elected Official	
Lawton Police Dept	Comanche County Sheriff	
Lawton Fire Dept	Comanche County Volunteer Fire Dept	
Emergency Medical Service	Transportation Personnel	
Public Health	Broadcast & Print Media	
Hospital	Community Group	
Owner/Operator of Facilities w/ HazMat	Emergency Management	

3. Discussion and Review of June meeting
4. Nomination and Election of LEPC Secretary
5. Emergency Management Update:
 - a. 2023 Hazard Mitigation Plan Update
 - b. 2023/2024 Emergency Preparedness Projects/Activities:
 - i. IAP Software
 - ii. EM Volunteer Program
6. Partner Agency Updates:
 - a. Comanche County Health Department
 - b. Region 3 RMRS

7. New Business: *(Consider any matter not known about or which could not have been reasonably foreseen prior to the time of posting this agenda.)*
8. Announcements & Audience Participation:
 - a. Next LEPC Meeting: Wednesday, March 6th, 2024, at 10:00am.
9. Adjourn:

Respectfully Submitted: Clint A. Langford, EM Director



EMERGENCY MANAGEMENT

315 SW 5th Street Room 107, Lawton, OK 73501, 580-355-0535

Emergency Management Update

1. 2022 HMP Update
 - a. First Draft has been submitted to ODEMHS for review. Our Office received recommendations and is currently working on those updates and changes for resubmission.
2. 2023 Emergency Preparedness Projects
 - a. Emergency Management Volunteer Program has been officially launched as part of the Emergency Management Office. They will be supporting Emergency Management with EOC Operations, Field Operations, and other special projects.
 - b. Radio Interoperability Project: Radios have been delivered to Emergency Management and have been inventoried and are being prepared for programming by Stolz. Once they have been programmed, we will be scheduling time for installation.
 - c. VFD EMS Initiative: 17 of 19 VFD Departments are either licensed, awaiting their licenses, or awaiting their inspections.
 - d. Disaster Declaration DR-4721: Emergency Management is currently processing damages from both Comanche County and City of Lawton and working with FEMA.
3. Emergency Management Office Updates: We have added 2 New Employees to the EM Office
 - a. Jerry Smith – Emergency Management Specialist (Training and Exercise Coordinator)
 - b. Thad Hulbert – Emergency Management Specialist (Public Education and Outreach Coordinator)
4. Virtual EOC Update
 - a. IAPSoftware Implementation Countywide: Emergency Management hosted ICS-220 Training in lieu of IAPSoftware Training. IAPSoftware provides a Common Operating Picture, Incident Management, Resource Management and Accountability, and documentation generation.

Comanche County Lawton Emergency Management



LEPC Meeting

Dec. 6, 2023

<u>Name:</u>	<u>Department:</u>	<u>Phone #</u>	<u>Email Address:</u>
Leslie Burrows	CERT	5039564288	leslieburrows73507@gmail.com
Scott Burrows	CERT	5034737251	sburrows97211@comcast.net
✓ Robert Stewart	RMRs Res3 MERE	580 280 0260	Robert.Stewart@drhhealth.org
✓ Samuel Talamante	ODEMHS	405 206 810	Samuel.talamante@ocem.ok.gov
✓ Clint Langford	CCLEM	(580) 357-8780	clangford@comanche-county-ok.gov
✓ Heather Love	CCMH	580-704-8380	heather.love@ccmhhealth.com
✓ Billy Sizemore	ODEMHS	405 213 5318	billy.sizemore@ocem.ok.gov
✓ Jared Williams	LFD	580-665-4017	
✓ Kannon Adams	Goodyear	550 576-2372	
✓ Jarred Burk	KSWO	580 511 2115	
✓ JOSH POWERS	COMANCHE COUNTY COMMISSIONERS	580 695 8340	

Comanche County Lawton Emergency Management



LEPC Meeting

Dec. 6, 2023

<u>Name:</u>	<u>Department:</u>	<u>Phone #</u>	<u>Email Address:</u>
✓ John Bordelon	District 1	(580) 678-2870	
✓ Aaron Pickle	OSDH	(580) 704-9317	aaronq@health.ok.gov
✓ Scott Rain	Lawton Constitution	580-351-7132	srains@jwooknews.com
✓ Mina Daniels	CCEM	580 355-0535	mdaniels@comanchecountyok.gov
✓ Clint Langford	CCEM	580 355-0535	clangford@comanchecountyok.gov
✓ Alana Pack	CCEM	580 355-0535	apack@comanchecountyok.gov
✓ Jerry Smith	Sterling VFD/CCEM	580 355-0536	

Hazard Mitigation Project 2022-2023

Hazard Mitigation Plans are prepared and adopted by communities with the primary purpose of identifying, assessing, and reducing the long-term risk to life and property from hazard events. Effective mitigation planning can break the cycle of disaster damage, reconstruction, and repeated damage. Hazard mitigation plans can address a range of natural and human-caused hazards.

They typically include four key elements: 1) a risk assessment, 2) capability assessment, 3) mitigation strategy, and 4) plan maintenance procedures.

Plans can be developed for a single community or as a multi-jurisdictional plan that includes multiple communities across a county or larger multi-county planning region. While most hazard mitigation plans are prepared as stand-alone documents, they can also be developed as an integrated component of a community's local comprehensive plan.

The Hazard Mitigation planning Committee will meet monthly over the next year & a half to revise and edit the current Hazard Mitigation Plan that was adopted in 2018.

The Committee is comprised of over 60 federal, state, and local officials.

On this page, we are asking for residents to share any issues or concerns with regards to the hazards, risks, preparedness, and overall how your town or your county can better serve you during a disaster. Please think large scale tornado, flooding, and the like.

Share your thoughts

First Name

Last Name

Email *

Message

Phone

Submit

Appendix C
Jurisdiction Adoption
Signature Page

Hazard Mitigation Plan

(Name of Jurisdiction) Comanche / Sterling / Sterling Public School
(Governing Body) Comanche/ Sterling / Sterling School Board
(Address) 400 S Tiger St, Sterling / Comanche / Sterling Public Schools

RESOLUTION

WHEREAS, Sterling Public Schools, with the assistance from the Hazard Mitigation Planning Team, has gathered information and prepared the Sterling Hazard Mitigation Plan; and

WHEREAS, the Sterling Hazard Mitigation Plan has been prepared in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, Comanche / Sterling / Sterling Public Schools is a local unit of government that has afforded the citizens an opportunity to comment and provide input in the Plan and the actions in the Plan; and

WHEREAS, Comanche / Sterling / Sterling Public School have reviewed the Plan and affirms that the Plan will be updated no less than every five years;

NOW THEREFORE, BE IT RESOLVED by Comanche / Sterling / Sterling School Board that Comanche / Sterling / Sterling Public School adopts the Sterling Hazard Mitigation Plan as this jurisdiction's Natural Hazard Mitigation Plan.

ADOPTED this 9th day of (September), 2025 at the meeting of the Comanche / Sterling / Sterling Public Schools School Board.

(Commissioner) or (Mayor) or (Superintendent)

(Clerk)

Committees

2025-2026

Safe and Healthy School

Trent Parrish (Admin)
Tonya Jordan (ES)
Steve Laughly (Police)
Landry Curry (Student)
Marty Curry (Admin)
Amanda Lewis (HS)
Cooper Harris (HS)
Tisha Break (HS)
Tasha Garrett (HS)
Mike Moore (Comm. Member)
Chandra Monroe (ES)
Stacey Jay (Cafeteria Person)
Kiel Rowan (HS)
Kylee Birdwell (HS)
Courtney Lile (Parent)
Todd Davis (ES)
Tisha Break (Comm. Member)

Technology

Landry Curry
Janie Ingram
Lori King
Jacob Wilson
Taylor Break
Marty Curry
Chris Wilson

Gifted and Talented

Amanda Lewis
Janie Ingram
Kelley Bridges
Lacey Clements
Todd Davis
Tasha Garrett
Jessica Smart
Malesa Hardzog
Jennifer Taylor

CLEP

Trent Parrish
Kiel Rowan
Maranda Milam
Chris Wilson
Mike Moore
Janie Ingram Chairwoman
Kylee Birdwell
Taylor Break
Zoe Forehand

Professional Development

Trent Parrish
Zoe Forehand
Madison Bradshaw
Gina Barrett
Tasha Garrett

Sierra Dodson
Michelle Anderson
Jennifer Taylor

Reading Sufficiency

Trent Parrish
Tonya Jordan
Chandra Monroe
Gina Barrett
Malesa Hardzog
Michele Woolbright
Raegan Jackson
Madison Woolbright
Casey Johnson
Miranda Milam
Michelle Anderson

Title 1

Michele Woolbright
Trent Parrish
Kelly Bridges
Casey Johnson
Raegan Jackson
Marty Curry
Lacey Clements
Jessica Smart
Sierra Dodson



The Title I, Part A Schoolwide Program Plan template was designed to ensure each school site plan is fully developed according to the requirements in [ESEA Section 1114](#). The Title I, Part A Schoolwide Program Plan must be reviewed and submitted annually to the Oklahoma State Department of Education (OSDE) as a part of the Consolidated Application.

1. In the space below, enter the school year (Example 2024-2025) the plan will be implemented.

2025-2026

2. In the space below, enter the date (month, date, year) the plan was last reviewed. The date should be within the current calendar year.

August 1, 2025

3. In the table below, enter the requested information for the district.

District Information	
District Name:	Sterling
District Number:	I003
County Name:	Comanche
County Number:	16
Superintendent Name:	Trent Parrish
Email Address:	tparrish@sterling.k12.ok.us

4. In the table below, enter the requested information for the school site.

School Information	
School Name:	Sterling Schools
School Site Code:	105
Principal Name:	Trent Parrish
Email Address:	tparrish@sterling.k12.ok.us
*School Poverty Rate:	67

*Required for the school to report. Please consult with district personnel regarding the rate reported in the Consolidated Application (Grants Management System).

Instructions

The template is composed of five sections. Each section has three parts.

- The first part outlines the relevant passages in ESEA and contains a check box where the school principal will certify that the legal requirements have been met.
- The second part describes the expectations for the narratives.
- The third part is a text box where the narrative responses are to be entered. There is no word or character limit, and the text box will expand.



1. Parent and Community Stakeholder Involvement

- By checking this box, the school principal certifies that:
- the plan is developed with the involvement of parents and other members of the community to be served and individuals who will carry out such plan, including teachers, principals, other school leaders, paraprofessionals present in the school, administrators (including administrators of programs described in other parts of this title), the local educational agency, to the extent feasible, tribes and tribal organizations present in the community, and, if appropriate, specialized instructional support personnel, technical assistance providers, school staff, if the plan relates to a secondary school, students, and other individuals determined by the school. [ESEA Section 1114\(b\)\(2\)](#)
 - the plan is available to the local educational agency, parents, and the public, and the information contained in such plan shall be in an understandable and uniform format and, to the extent practicable, provided in a language that the parents can understand. [ESEA Section 1114\(b\)\(4\)](#)
 - the school meets the requirements of Section 1116 of ESEA, including the development and implementation of a parent and family engagement policy that includes a school-parent compact outlining shared responsibility for high student academic achievement. [ESEA Section 1116 \(b-g\)](#)

Expectations

- Specific strategies to increase family and community stakeholder involvement, particularly among those who represent the most at-risk students, based upon results of the needs assessment have been identified and implemented.
- Parents and community stakeholders who reflect the demographic composition of the school, including those who represent the most at-risk students, are included as decision makers in a broad spectrum of school decisions, including the development and monitoring of the Title I schoolwide plan.
- The school vision and mission for student success are collaboratively developed based on the beliefs and values of the school community, including families and community stakeholders who represent the most at-risk students.
- The Title I schoolwide plan, as well as all communication regarding its development, evaluation, and revision processes, are available in languages and formats accessible for every family and community stakeholder of the school.

Addressing the above expectations, describe in the box below the strategies to increase family and community stakeholder involvement.

Enhancing Family and Community Engagement at Sterling Public School

- Strategies to Increase Family and Community Stakeholder Involvement:**
Based on the needs assessment, Sterling Public School has identified and implemented specific strategies to increase family and community stakeholder involvement, particularly among those who represent the most at-risk students. These strategies include:
 - Hosting regular family and community engagement events, such as workshops, information sessions, and collaborative problem-solving meetings, to address the unique needs and concerns of families with at-risk students.
 - Partnering with local community organizations, social service agencies, and faith-based groups to reach underrepresented families and provide resources and support tailored to their needs.



- Implementing a multilingual outreach campaign, utilizing various communication channels (e.g., newsletters, social media, home visits) to ensure all families, regardless of their primary language, are informed and encouraged to participate.
 - Providing transportation assistance and flexible scheduling options to accommodate the diverse needs and schedules of families, especially those with the most at-risk students.
1. **Inclusive Decision-Making Process:**
Parents and community stakeholders who reflect the demographic composition of the school, including those who represent the most at-risk students, are included as decision-makers in a broad spectrum of school decisions, such as the development and monitoring of the Title I schoolwide plan. The school has established a representative advisory council that meets regularly to provide input, feedback, and oversight on key initiatives and program evaluations.
 2. **Collaborative Development of Vision and Mission:**
The school's vision and mission for student success have been collaboratively developed based on the beliefs and values of the school community, including families and community stakeholders who represent the most at-risk students. This process involved a series of facilitated discussions, surveys, and feedback sessions to ensure the vision and mission align with the needs and aspirations of the entire school community.
 3. **Accessibility of Title I Schoolwide Plan:**
The Title I schoolwide plan, as well as all communication regarding its development, evaluation, and revision processes, are available in languages and formats accessible for every family and community stakeholder of the school. The school has made a concerted effort to translate all relevant documents and provide interpreters at all family and community engagement events to ensure equitable access and participation.

By implementing these strategies, Sterling Public School is committed to fostering a strong partnership with families and community stakeholders, particularly those representing the most at-risk students, to collectively work towards the success and well-being of all students.

2. Comprehensive Needs Assessment

By checking this box, the school principal certifies that the schoolwide plan was developed based on a comprehensive needs assessment of the entire school that took into account information on the academic achievement of children in relation to the challenging state academic standards, particularly the needs of those children who were failing, or were at-risk of failing, to meet the challenging state academic standards and any other factors as determined by the local educational agency. [ESEA Section 1114\(b\)\(6\)](#)

Expectations

1. Includes a variety of data, including performance (e.g., local and state student assessment data) and non-performance student data (e.g., student attendance), and process data about the school's system (e.g., diagnostic review) and perception data, gathered from several sources.
2. Includes detailed analysis of performance and non-performance data for each student subgroup identified in 1111(c)(2) of ESEA (economically disadvantaged students, students from major racial and ethnic groups, children with disabilities, and English learners).
3. Examines student, teacher, school and community strengths and needs.



4. School leadership, in collaboration with families and community stakeholders, identifies a manageable number of priorities, at the right level of magnitude and aligned with the needs assessment, for school improvement.
5. Evidence shows that the school’s Title I schoolwide plan and cycle of continuous improvement has improved outcomes for all students, particularly those most at-risk.

Addressing the above expectations, describe the outcomes of the school’s comprehensive needs assessment, as well as a description of the data sources used in the process. The results should include detailed analysis of all student subgroups; an examination of student, teacher, school and community strengths and needs; and a summary of priorities that will be addressed in the schoolwide program.

Comprehensive Needs Assessment at Sterling Public School

1. Variety of Data Sources:

The comprehensive needs assessment at Sterling Public School includes a variety of data sources, both performance and non-performance, as well as process and perception data. This includes:

- Local and state student assessment data (e.g., CRT, Accelerated Reader, Accelerated Math, STAR Math, STAR Reading, IOWA Tests of Basic Skills, ELQA)
- Student attendance and behavior data
- Diagnostic reviews of the school's systems and processes
- Perception data gathered from surveys, focus groups, and interviews with students, teachers, parents, and community stakeholders

1. Detailed Analysis of Subgroup Data:

The needs assessment includes a detailed analysis of performance and non-performance data for each student subgroup identified in ESEA 1111(c)(2), including economically disadvantaged students, students from major racial and ethnic groups, children with disabilities, and English learners. This analysis has revealed specific areas of strength and need for each subgroup, informing the development of targeted strategies and interventions.

2. Examination of Strengths and Needs:

The comprehensive needs assessment has examined the strengths and needs of students, teachers, the school, and the broader community. Key findings include:

- Students: Strengths in reading comprehension and problem-solving skills; needs in math fluency and written expression
- Teachers: Strengths in content knowledge and instructional strategies; needs in effectively integrating technology and differentiating instruction
- School: Strengths in a collaborative school culture and strong family-community partnerships; needs in updating technology infrastructure and expanding enrichment opportunities
- Community: Strengths in a supportive network of local organizations and businesses; needs in addressing barriers to regular school attendance and access to social-emotional support services

1. Prioritization of Improvement Efforts:

In collaboration with families and community stakeholders, the school leadership team has identified



a manageable number of priorities aligned with the needs assessment findings. These priorities include:

- Improving math fluency and problem-solving skills, particularly for economically disadvantaged students and students with disabilities
- Enhancing written expression and language arts skills, with a focus on English learners and students from underrepresented racial/ethnic groups
- Increasing the integration of technology into instruction to support personalized learning and student engagement
- Expanding social-emotional learning programs and community partnerships to address non-academic barriers to student success

1. Continuous Improvement and Outcomes:

Evidence shows that the school's Title I schoolwide plan and cycle of continuous improvement have led to improved outcomes for all students, particularly those most at-risk. This includes:

- Steady increases in overall student proficiency on state assessments, with narrowing achievement gaps between subgroups
- Improved attendance rates and reductions in disciplinary incidents
- Increased student and family engagement, as measured by participation in school events and programs
- Positive feedback from teachers, students, and community stakeholders on the school's responsiveness to their needs and the effectiveness of the improvement strategies

By maintaining a comprehensive, data-driven, and collaborative approach to needs assessment and school improvement, Sterling Public School is committed to ensuring the success of all students, with a particular focus on supporting the most vulnerable populations.

3. Schoolwide Plan Strategies

By checking this box, the school principal certifies that the schoolwide plan includes a description of the strategies that the school will be implementing to address school needs, including a description of how such strategies will –

- provide opportunities for all children, including each of the subgroups of students (as defined in [ESEA Section 1111\(c\)\(2\)](#)) to meet the challenging state academic standards;
- use methods and instructional strategies (consider evidence-based strategies as defined in [ESEA Section 8101\(21\)](#)) that strengthen the academic program in the school, increase the amount and quality of learning time, and help provide an enriched and accelerated curriculum, which may include programs, activities, and courses necessary to provide a well-rounded education;
- address the needs of all children in the school, but particularly the needs of those at risk of not meeting the challenging state academic standards; [ESEA Section 1114\(b\)\(7\)\(A\)\(iii\)](#)
- provide professional development (as defined in [ESEA Section 8101\(42\)](#)) and other activities for teachers, paraprofessionals, and other school personnel to improve instruction and use of data from academic assessments, and to recruit and retain effective teachers, particularly in high need subjects.

Additional factors to consider when selecting strategies to be included in the schoolwide program -



- preschool programs [ESEA Section 1114\(c\)](#)
- delivery of services by nonprofit or for-profit external providers [ESEA Section 1114\(d\)](#)
- dual or concurrent enrollment programs [ESEA Section 1114\(e\)](#)

Expectations

1. Strategies provide a detailed, enriched, and accelerated curriculum for all students, including each of the subgroups, according to their needs.
2. The school provides multiple opportunities and evidence-based interventions for students in need and address the outcomes of the comprehensive needs assessment in a way that will result in significant improvements in student learning.
3. Timely, effective and additional assistance is provided for students experiencing difficulty mastering the state’s standards through activities which may include: counseling, school-based mental health programs, specialized instructional support services, mentoring services, postsecondary education preparation, transition from preschool to local elementary school programs.
4. The school uses clear criteria and processes for student participation in a tiered model to prevent and address behavior problems and early intervention services.
5. The school uses clear criteria and processes for making decisions regarding level and length of student participation in tiered supports.
6. The school offers a range of extended learning opportunities within and beyond the school day and the school year.
7. Professional development and other activities are offered for teachers, paraprofessionals, and other school personnel to improve instruction and use of data from academic assessments.
8. The school uses clear, diverse strategies to recruit and retain effective teachers, particularly in high need subjects.



Addressing the above expectations, describe in the box below the strategies the school will use to upgrade the entire educational program in order to improve the achievement of the lowest performing students, including how and when these strategies will be implemented. These strategies should be linked to areas identified in the comprehensive needs assessment and the site budget.

Strategies to Upgrade the Educational Program at Sterling Public School

1. Enriched and Accelerated Curriculum:

To provide a detailed, enriched, and accelerated curriculum for all students, including each subgroup, Sterling Public School will:

- Implement a rigorous, standards-aligned curriculum with a focus on depth of understanding and critical thinking skills
- Utilize differentiated instructional strategies and flexible grouping to meet the diverse learning needs of students
- Offer accelerated learning opportunities, such as advanced coursework, STEM enrichment, and gifted and talented programs, to challenge high-performing students

1. Evidence-Based Interventions and Tiered Supports:

The school will provide multiple opportunities and evidence-based interventions for students in need, addressing the outcomes of the comprehensive needs assessment. This includes:

- Implementing a multi-tiered system of support (MTSS) to identify and address the academic, behavioral, and social-emotional needs of students
- Offering targeted, small-group interventions in reading and math, with frequent progress monitoring and data-driven adjustments
- Providing school-based mental health services, counseling, and mentoring programs to support the holistic development of students

1. Timely and Effective Assistance:

To ensure timely and effective assistance for students experiencing difficulty mastering state standards, the school will:

- Offer extended learning opportunities, such as after-school tutoring, summer school, and Saturday academies
- Implement a comprehensive early warning system to identify and provide support for students at risk of academic or behavioral challenges
- Collaborate with community partners to connect students and families with specialized instructional support services, postsecondary preparation, and transition programs

1. Tiered Behavioral Support:

The school will use clear criteria and processes for student participation in a tiered model to prevent and address behavior problems and provide early intervention services. This includes:

- Implementing a school-wide positive behavioral interventions and supports (PBIS) framework



- Providing training for teachers and staff on classroom management strategies and trauma-informed practices
- Establishing a data-driven decision-making process for determining the appropriate level and duration of behavioral interventions

1. Extended Learning Opportunities:

To expand learning opportunities beyond the school day and year, Sterling Public School will offer:

- Before- and after-school enrichment programs, including academic support, STEM activities, and extracurricular clubs
- Summer learning programs focused on academic skill-building, project-based learning, and social-emotional development
- Partnerships with community organizations to provide expanded learning opportunities, such as field trips, guest speakers, and service-learning projects

1. Professional Development and Recruitment:

The school will invest in high-quality professional development and other activities to improve instruction and the use of data from academic assessments. Additionally, the school will implement clear, diverse strategies to recruit and retain effective teachers, particularly in high-need subjects, such as:

- Offering competitive compensation and benefits packages
- Providing ongoing, job-embedded professional learning opportunities
- Implementing a comprehensive induction and mentoring program for new teachers
- Collaborating with local universities and alternative certification programs to build a pipeline of qualified candidates

By implementing these research-based strategies, Sterling Public School is committed to upgrading the entire educational program to improve the achievement of the lowest-performing students, as identified in the comprehensive needs assessment. These efforts will be funded through the school's Title I budget and coordinated with other federal, state, and local resources to ensure a comprehensive and sustainable approach to school improvement.

4. Coordination and Integration

Select only one box.

By checking this box, the school principal certifies that, if appropriate and applicable, the schoolwide plan was developed in coordination and integration with other federal, state, and local services, resources, and programs, and the schoolwide plan outlines the ways in which funds are to be braided (in project 511). [ESEA Section 1114\(b\)\(5\)](#)

OR

By checking this box, the school principal certifies that, if state, local and other federal programs are to be consolidated in project 785, then the schoolwide plan outlines the ways in which funds will be used to meet the intent and purpose of each program that was consolidated. [ESEA Section 1114\(b\)\(7\)\(B\)](#)



<p>Expectations</p> <ol style="list-style-type: none"> 1. Leverages sufficient resources (i.e., fiscal, human, time) to improve student outcomes. 2. Leverages funding streams to connect the reform strategies developed. 3. Outlines how the school will meet the intents and purposes of each funding source. 4. Outlines how funds from Title I and other state and federal education programs will be used to meet the intent and purpose of the programs.
<p>Addressing the above expectations, describe in the box below the ways in which funds (e.g., Title III, Part A, donations, competitive grants) are to be braided in the Title I schoolwide program.</p>
<p>Leveraging Resources and Funding Streams at Sterling Public School</p> <ol style="list-style-type: none"> 1. Sufficient Resources to Improve Outcomes: Sterling Public School is committed to leveraging sufficient fiscal, human, and time resources to effectively implement the strategies outlined in the school's Title I schoolwide program and improve student outcomes. This includes: <ul style="list-style-type: none"> • Dedicating a portion of the school's Title I, Part A allocation to support the implementation of evidence-based interventions, extended learning opportunities, and professional development • Utilizing state and local funding sources, such as general education funds and grants, to supplement and enhance the Title I program • Strategically allocating staff time and expertise to ensure the effective coordination and delivery of services to students 1. Braiding Funding Streams: To connect the reform strategies developed through the comprehensive needs assessment, Sterling Public School will braid funding from multiple sources, including: <ul style="list-style-type: none"> • Title I, Part A: Providing supplemental academic support, extended learning opportunities, and professional development • Title II, Part A: Enhancing teacher and leader effectiveness through high-quality professional learning • Title III, Part A: Supporting the language acquisition and academic achievement of English learners • Title IV, Part A: Offering a well-rounded education, including STEM enrichment and social-emotional learning • Individuals with Disabilities Education Act (IDEA): Delivering specialized instructional support services for students with disabilities • State and local funding: Addressing facility upgrades, technology infrastructure, and other school-level priorities 1. Aligning to Funding Intents and Purposes: The school will ensure that funds from each of these sources are used in alignment with the intents and purposes of the respective programs. This includes: <ul style="list-style-type: none"> • Title I, Part A: Improving the academic achievement of disadvantaged students and closing achievement gaps • Title II, Part A: Increasing the quality and effectiveness of teachers and school leaders



- Title III, Part A: Ensuring that English learners attain English proficiency and meet academic standards
 - Title IV, Part A: Providing students with access to a well-rounded education and improving school conditions for student learning
 - IDEA: Ensuring the provision of a free appropriate public education for students with disabilities
1. **Coordinated Use of Funds:**
The school leadership team, in collaboration with the district, will develop a comprehensive plan for the coordinated use of Title I and other state and federal education program funds. This plan will outline specific strategies, activities, and resource allocations to meet the intents and purposes of each funding source, ensuring a cohesive and impactful approach to school improvement.

By leveraging sufficient resources and braiding funding streams, Sterling Public School will be able to effectively implement the strategies outlined in the Title I schoolwide program, address the needs identified in the comprehensive needs assessment, and ultimately improve student outcomes for all learners, including those from the most vulnerable subgroups.

5. Evaluation and Plan Revision

By checking this box, the school principal certifies that the plan will be regularly monitored and revised as necessary based on student needs to ensure that all students are provided opportunities to meet the challenging state academic standards. [ESEA Section 1114\(b\)\(3\)](#)

Expectations

1. School leadership, including families and community stakeholders, regularly monitors and adjusts implementation of the Title I schoolwide plan based on short- and long-term goals for student outcomes, as well as measures to evaluate high-quality implementation.
2. The monitoring and revising of the Title I schoolwide plan includes regular analysis of multiple types of data (i.e., student learning, demographic, process, perception) and necessary adjustments are made to increase student learning.
3. School leadership, including families and community stakeholders, and instructional staff regularly analyze interim and summative assessment data to evaluate instructional practices, determine patterns of student achievement, growth, and changes in growth gaps across classrooms, grade levels, and content areas.

Addressing the above expectations, describe in the box below how the school, with assistance from the LEA, will annually evaluate the implementation of, and results achieved by, the schoolwide program, using data from the state’s annual assessments and other indicators of academic achievement to determine whether the schoolwide program has been effective in increasing the achievement of students in meeting the state’s academic standards, particularly for those students who had been furthest from achieving the standards; and how the school will revise the plan, as necessary, based on the results of the evaluation, to ensure continuous improvement of students in the schoolwide program.



Monitoring, Evaluating, and Revising the Title I Schoolwide Program at Sterling Public School

1. Continuous Monitoring and Adjustment:

At Sterling Public School, the school leadership team, which includes families and community stakeholders, will regularly monitor and adjust the implementation of the Title I schoolwide plan based on short- and long-term goals for student outcomes, as well as measures to evaluate high-quality implementation. This process will involve:

- Establishing a schedule for regular progress monitoring, including monthly and quarterly reviews
- Engaging in collaborative discussions to analyze data, identify successes and challenges, and make necessary adjustments to the plan
- Incorporating feedback from teachers, students, families, and community partners to inform the monitoring and revision process

1. Data-Driven Decision Making:

The monitoring and revising of the Title I schoolwide plan at Sterling Public School will include a regular analysis of multiple types of data, such as student learning, demographic, process, and perception data. This data-driven approach will enable the school to:

- Evaluate the effectiveness of instructional practices and interventions in improving student learning
- Identify patterns of student achievement, growth, and changes in growth gaps across classrooms, grade levels, and content areas
- Determine necessary adjustments to the schoolwide plan to increase student learning and close achievement gaps

1. Ongoing Evaluation and Continuous Improvement:

With the assistance of the local educational agency (LEA), Sterling Public School will annually evaluate the implementation and results of the schoolwide program. This evaluation process will include:

- Analyzing data from the state's annual assessments and other indicators of academic achievement to determine whether the schoolwide program has been effective in increasing the achievement of students, particularly those who had been furthest from achieving the standards
- Engaging in collaborative discussions with school leadership, instructional staff, families, and community stakeholders to review the evaluation findings and identify areas for improvement
- Revising the schoolwide plan as necessary, based on the results of the evaluation, to ensure continuous improvement of student learning and achievement in the schoolwide program

By implementing this comprehensive monitoring, evaluation, and revision process, Sterling Public School will ensure that the Title I schoolwide program remains responsive to the evolving needs of students and continues to drive significant improvements in student learning and achievement, particularly for the most vulnerable subgroups. This ongoing cycle of data analysis, stakeholder engagement, and plan adjustment will be a cornerstone of the school's commitment to continuous improvement and the success of all students.

STERLING PUBLIC SCHOOLS

Emergency Operations Site Plan

Chase Morris Sudden Cardiac Arrest Response Plan



CHASE MORRIS ACT

Oklahoma Statutes Citationized

Title 70. Schools

Chapter 1 - School Code of 1971

Article Article XXIV - Miscellaneous Provisions

Section 24-156 - Chase Morris Sudden Cardiac Arrest Prevention Act

Cite as: 70 O.S. § 24-156 (OSCN 2024)

- A. This act shall be known and may be cited as the “Chase Morris Sudden Cardiac Arrest Prevention Act”.
- B. As used in the Chase Morris Sudden Cardiac Arrest Prevention Act, “athletic activity” means any sport sanctioned and offered in grades seven through twelve by a school district.
- C. The State Department of Health and the State Department of Education shall jointly develop and post on their publicly accessible websites guidelines and other relevant materials to inform and educate students participating in or desiring to participate in an athletic activity, their parents, and their coaches about the nature and warning signs of sudden cardiac arrest including the risks associated with continuing to play or practice after experiencing one or more symptoms of sudden cardiac arrest including unexplained fainting, difficulty breathing, chest pains, dizziness, and abnormal racing heart rate. In developing the guidelines and materials, the State Department of Health and the State Department of Education may utilize existing materials developed by other entities or organizations.
- D. A student participating in or desiring to participate in an athletic activity and the student’s parent, or guardian shall, each school year and prior to participation by the student in an athletic activity, sign and return to the student’s school an acknowledgement of receipt and review of a sudden cardiac arrest symptoms and warning signs information sheet jointly developed by the State Department of Health and the State Department of Education.
- E. A school may hold an informational meeting prior to the start of each athletic season for all ages of competitors regarding the symptoms and warning signs of sudden cardiac arrest. In addition to students, parents, coaches, and other school officials, informational meetings may include physicians, pediatric cardiologists, and athletic trainers.
- F. A student who collapses or faints without a concurrent head injury while participating in an athletic activity shall be removed by the coach from participation at that time.
- G. A student removed or prevented from participating in an athletic activity pursuant to subsection F of this section shall not return to participation until the student is evaluated and cleared for return to participation in writing by a health care provider as defined in Section 3090.2 of Title 63 of the Oklahoma Statutes.
- H. Once each year, a coach of an athletic activity, school nurses, and athletic trainers shall complete: 1. The sudden cardiac arrest training course offered by a provider approved by the State Department of Health; and 2. Training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator. The training shall follow guidelines set by a nationally recognized, guidelines-based organization focused on emergency cardiovascular care.
- A coach of an athletic activity shall not coach the athletic activity until the coach completes the training course required under this subsection.
- I. Each public school in this state shall develop a sudden cardiac emergency response plan. The plan shall be formulated by a school site administrator and presented to the school district board of education. The plan shall:**
- 1. Establish and provide for membership of a sudden cardiac emergency response team for each school site. Each team shall include a school site administrator;**
 - 2. Activate the team in response to a sudden cardiac arrest;**

- 3. Implement automated external defibrillator (AED) placement and routine maintenance within the school as needed and dictated by the plan and in accordance with guidelines set by a nationally recognized, guidelines based organization focused on emergency cardiovascular care. The plan shall provide for implementation of clearly marked and easily accessible AED placement;**
 - 4. Provide for communication and dissemination of the plan throughout the school campus;**
 - 5. Require the response team to practice the plan by conducting periodic drills;**
 - 6. Provide for coordination with emergency medical service providers that serve the area in which the school is located;**
 - 7. Address athletic events and athletic facilities at each middle school and high school site provided:
 - a. an AED shall be placed at each athletic venue or be accessible within one to three minutes of each venue where athletic practices or competitions are held, or**
 - b. a mobile AED device shall be on the premises in accordance with guidelines set by a nationally recognized, guidelines-based organization focused on emergency cardiovascular care;****
 - 8. Provide for appropriate school staff to be trained in first aid, cardiopulmonary resuscitation, and the use of an AED in accordance with guidelines set by a nationally recognized, guidelines-based organization focused on emergency cardiovascular care. The plan shall stipulate the appropriate staff to receive training which shall include, but not be limited to, athletic coaches, school nurses, and athletic trainers; and**
 - 9. Be reviewed by the school district board of education and sudden cardiac emergency response team members and updated annually.**
- J. The sponsors of youth athletic activities not associated with a school are encouraged to follow the guidance stated in the Chase Morris Sudden Cardiac Arrest Prevention Act.
- K. Nothing in the Chase Morris Sudden Cardiac Arrest Prevention Act shall be construed to create, establish, expand, reduce, contract, or eliminate any civil liability on the part of any school or school employee.
- L. The State Board of Health and the State Board of Education shall promulgate rules to implement the provisions of the Chase Morris Sudden Cardiac Arrest Prevention Act.

Historical Data

Laws 2015, SB 239, c. 272, § 1, emerg. eff. July 1, 2015; Amended by Laws 2024, SB 1921, c. 451, § 1, emerg. eff. July 1, 2024 ([superseded document available](#))

STERLING PUBLIC SCHOOLS

CHASE MORRIS ACT COMPLIANCE SITE PLAN

STERLING HIGH SCHOOL has developed a sudden cardiac emergency response plan. The district has collaborated with the local/responding EMT **COMANCHE COUNTY EMS** on **8-05-2024**.

SUDDEN CARDIAC EMERGENCY RESPONSE TEAM:

The team MUST include a school administrator. The school or administrator will determine other team members and number to be on the team.

Team Member	Role
Marty Curry	Retrieve AED
Trent Parrish	Retrieve AED
Todd Davis	Start CPR
Cooper Harris	Start CPR
Kylee Birdwell	Apply AED Pads
Stephanie Miller	Call 911
Tisha Break	Call 911
Steve Laughy (SRO)	Emergency Management
Chris Holden (fire chief)	Direct EMS/Ambulance to Victim

IDENTIFY APPROPRIATE SCHOOL STAFF TO BE TRAINED IN FIRST AID, CARDIOPULMONARY RESUSCITATION, AND THE USE OF AN AED

Currently all staff at Sterling Public Schools is trained in first aid, CPR, and AED. All staff holds certifications from Red Cross for 2 years. We will be re-certified in 2025.

HOW TO ACTIVATE THE TEAM:

The team will be activated using cell phones and possibly the intercom system.

HOW WILL THE PLAN BE COMMUNICATED AND DISSEMINATED THROUGHOUT THE SCHOOL?

Staff meetings. Coaches will also cover the information with their respective teams, regarding location specific details.

DOCUMENT PERIODIC DRILLS FOR PRACTICING THE PLAN:

**These drills are NOT required to be entered on the School Security Website

<i>Date of Drill</i>	<i>Notes</i>
<i>Sept 10, 2025</i>	
<i>Jan 10, 2026</i>	

IDENTIFY EMERGENCY MEDICAL PROVIDERS THAT SERVE YOUR AREA

**Example: Local Ambulance, Fire Department, Police Department, Sheriff Department

***Identify who on your team will contact these providers

<i>Name of Provider</i>	<i>Contact Information</i>
<i>Comanche County Dispatch</i>	<i>911</i>
<i>Sterling Police Department</i>	<i>Brad Alexander</i>
<i>Sterling Fire Department</i>	<i>Chris Holden</i>

DATE UPDATED AND REVIEWED BY THE SCHOOL BOARD

**Must be updated and reviewed by the school board annually

Date of update and school board review: September 9, 2025

In addition,

1. We, the undersigned, duly elected, qualified and acting officers of the Board of Education of the aforesaid School District located wholly or in major area in the County and State aforesaid, do hereby certify that, at regular session begun at the time provided by law, we carefully considered the reports submitted by the several officers and employees as required by 68 O. S. 2001 Section 3004, carefully considered the statements and estimate of needs heretofore prepared for the purpose of ascertaining any additional or emergency levy necessary for the ensuing fiscal year and revised, corrected or amended the same to disclose the true fiscal condition as of June 30, 2025, and to provide for the needs of the District for the ensuing fiscal year as now ascertained; and we do hereby certify that the within statement of the financial condition is true and correct, and that the within estimates for all purposes for the ensuing fiscal year are reasonably necessary for the proper conduct of the affairs of said School District, and that the statement of Estimated Income from sources other than ad valorem taxes is not in excess of the lawfully authorized ratio of the actual collections from such sources during the previous fiscal year.
2. We further certify that any cash fund balance reported in our Building Fund is required for immediate or cumulative program of construction unless there be attached within a verified copy of a resolution signed by a majority of the members of this Board to the effect the program of building has been completed or abandoned. If attached, then the Excise Board is directed to apply said Balance to reduce Levies in accordance with 62 O. S. 2001, Section 333.
3. We also certify that a levy of 15.000 Mills over and above the number of mills allocated by the County Excise Board will be reasonably necessary for the proper conduct of the affairs of said school district during the fiscal year 2025-2026.
4. We also certify that, after due and legal notice of an election thereon, an emergency levy of 5.000 Mills, over and above the number of mills provided by Law and allocated by the County Excise Board in addition thereto for school purposes, were made permanent by election.
5. We also certify that, after due and legal notice of an election thereon, a local support levy of 10.000 Mills, in addition to the levies hereinbefore provided, were made permanent by election.
6. We also certify that, after due and legal notice of an election thereon, pursuant to Article 10, Section 10, of the Constitution of Oklahoma, an additional levy of 5.000 Mills, were made permanent by election.

 Clerk of Board of Education  President of Board of Education  Treasurer of Board of Education

Subscribed and sworn to before me this  day of , 2025.


Notary Public


My Commission Expires

Affidavit of Publication

State of Oklahoma, County of Comanche

I, [redacted], the undersigned duly qualified and acting Clerk of the Board of Education of Sterling Public Schools, School District No. I-3, County and State aforesaid, being first duly sworn according to law, hereby depose and say:

1. That I complied with 68 O. S. 2001 Section 3002, (both independent and dependent) by having the within Financial Statement and Estimate of Needs which was prepared at the time and in the manner provided by law, published as required by law, in a legally-qualified newspaper of general circulation in the district, there being no legally-qualified newspaper published in the school district, as evidenced by a copy of such published statement and estimate together with proof of publication thereof attached hereto marked Exhibit No. 1 and made a part hereof (strike inapplicable phrases).

2. That I complied with currently effective statutes, by having the Notice of Emergency Levy Election and the call for such Election on the date hereinbefore certified by the Governing Board, the Itemized Statements and the Itemized Estimate of the amount necessary for the ensuing fiscal year requiring such emergency levy for the current expense purposes as prepared by the Board of Education duly published or posted, as the case may be, in full compliance with law for this class of school district, and as provided by law duly made public in the manner and at the time provided by law, for this class of district and in all respects according to law, in relation to said election on such emergency levy as hereinbefore certified by said Governing Board.

3. That I complied with the statute by having published or posted (if required for this class of district) the notice of local support levy election, and the call for such election on the date hereinbefore certified by the Board of Education. That the Estimate of Needs as prepared by the Board of Education required such local support levy in addition to other tax levies, to fully meet the current expense purposes of the school district for the ensuing year.

4. That in conformity to resolution by said Board of Education, I caused Notice of Building Fund Levy Election under the provisions of Article 10, Section 10, Oklahoma Constitution, and the Call of such Election on the date hereinbefore certified by the Governing Board, together with Itemized Statements and an Estimate of the amount necessary for the ensuing fiscal year requiring such levy for the purpose of erecting, remodeling or repairing school buildings, and for purchasing school furniture, in said District, published or posted to contain such Notice and Call, fixing the number of voting places and particularly describing each and every such place or places, and fixing the day on which such election should be had after the expiration of such notice, duly published or posted as is required by law for this class of district.

[redacted]

Clerk, Board of Education

Subscribed and sworn to before me this [redacted] day of [redacted], 2025.

[redacted]

Notary Public

[redacted]

My Commission Expires

Secretary and Clerk of Excise Board
Comanche County, Oklahoma



BLEDSON, HEWETT & GULLEKSON
CERTIFIED PUBLIC ACCOUNTANTS, PLLLP

Eric M. Bledsoe, CPA
Jeffrey D. Hewett, CPA
Christopher P. Gullekson, CPA

P.O. BOX 1310 • 121 E. COLLEGE ST. • BROKEN ARROW, OK 74013 • (918) 449-9991 • (800) 522-3831 • FAX (918) 449-9779

August 20, 2025

Honorable Board of Education
Sterling Independent School District, I-003
Comanche County, Oklahoma

Management is responsible for the accompanying financial statements and supporting information of the District as of and for the year ended June 30, 2025, which comprise of the 2025-26 estimate of needs and financial statements for the fiscal year ended June 30, 2025, included in the accompanying form (SAI Form 2661R06) and the publication sheet (SAI Form 2662R06) prescribed by the Oklahoma State Auditor and Inspector per 68 OS § 3003.B as defined by rules promulgated by the Oklahoma State Department of Education per 70 OS § 5-134.1.D. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the American Institute of Certified Public Accountants. We did not audit or review the financial statements included in the accompanying prescribed form nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by management. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on these financial statements and supporting information included in the prescribed form.

Other Matters

The financial statements, estimate of needs and publication sheet included in the accompanying prescribed forms are presented in accordance with the requirements prescribed by Office of the Oklahoma State Auditor and Inspector per 68 OS § 3003.B as defined by rules promulgated by the Oklahoma State Department of Education per 70 OS § 5-134.1.D, and are not intended to be a complete presentation in accordance with accounting principles generally accepted in the United States of America.

This report is intended solely for the information and use of management, the Oklahoma State Department of Education, the County Excise Board, and for filing with the Oklahoma State Auditor and Inspector and is not intended to be and should not be used by anyone other than these specified parties.

Eric, Jeff & Chris

Bledsoe, Hewett & Gullekson CPAs, PLLLP
Broken Arrow, OK

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GENERAL FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'A'

Schedule 1: Current Balance Sheet for June 30, 2025	
	Amount
ASSETS:	
Cash Balances	\$713,026.02
Investments	\$0.00
TOTAL ASSETS	\$713,026.02
LIABILITIES AND RESERVES:	
Warrants Outstanding	\$69,405.92
Reserve for Interest on Warrants	\$0.00
Reserves From Schedule 8	\$3,590.14
TOTAL LIABILITIES AND RESERVES	\$72,996.06
CASH FUND BALANCE JUNE 30, 2025	\$640,029.96
TOTAL LIABILITIES, RESERVES AND CASH FUND BALANCE	\$713,026.02

Schedule 2: Revenue and Requirements, 2024-2025		
REVENUE:	Estimated Budget	Actual Revenue & Expenditures
Revenues, Non-Revenue Receipts & Cash Balances (Schedule 6)	\$3,712,962.18	\$3,813,665.69
LESS: REQUIREMENTS:		
Expenditures (Schedule 8)	\$3,712,962.18	\$3,173,635.73
CASH FUND BALANCE JUNE 30, 2025	\$0.00	\$640,029.96

Schedule 3: General Fund Cash Accounts of Current and all Prior Years				
CURRENT AND ALL PRIOR YEARS	2024-25	2023-24	PRE-2023	Total
Cash Balance Reported to Excise Board 6-30-24	\$0.00	\$364,610.86	\$0.00	\$364,610.86
REVENUES, NON-REVENUE RECEIPTS & CASH BALANCE				
Revenues/Non-Rev (Sch 6 Source Codes 1000 to 5999)	\$3,513,746.25	\$0.00	\$0.00	\$3,513,746.25
Cash Balances Transferred (Sch 6 Source Code 6110)	\$299,919.44	-\$299,919.44	\$0.00	\$0.00
Prior Year Lapsed Appropri (Sch 6 Source Code 6130)	\$0.00	\$0.00	\$0.00	\$0.00
Estopped Warrants (Sch 6 Source Code 6140)	\$0.00	\$0.00	\$0.00	\$0.00
Interfund Transfers (Sch 6 Source Code 6200)	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL REVENUES, NON-REVENUE RECEIPTS & CASH BALANCE	\$3,813,665.69	-\$299,919.44	\$0.00	\$3,513,746.25
Warrants Paid of Year in Caption	\$3,100,639.67	\$64,691.42	\$0.00	\$3,165,331.09
TOTAL DISBURSEMENTS	\$3,100,639.67	\$64,691.42	\$0.00	\$3,165,331.09
CASH & INVESTMENTS BALANCE JUNE 30, 2025	\$713,026.02	\$0.00	\$0.00	\$713,026.02
Reserve for Warrants Outstanding (Schedule 4)	\$69,405.92	\$0.00	\$0.00	\$69,405.92
Reserve for Encumbrances (Schedule 8)	\$3,590.14	\$0.00	\$0.00	\$3,590.14
TOTAL LIABILITIES AND RESERVE	\$72,996.06	\$0.00	\$0.00	\$72,996.06
DEFICIT:	\$0.00	\$0.00	\$0.00	\$0.00
CASH FUND BAL FORWARD TO SUCCEEDING YEAR	\$640,029.96	\$0.00	\$0.00	\$640,029.96

Schedule 4: General Fund Warrant Accounts of Current and all Prior Years				
CURRENT AND ALL PRIOR YEARS	2024-25	2023-24	PRE-2023	Total
Warrants Outstanding 6-30 of Year in Caption	\$0.00	\$62,209.30	\$0.00	\$62,209.30
Warrants Registered During Year	\$3,170,045.59	\$2,482.12	\$0.00	\$3,172,527.71
TOTAL	\$3,170,045.59	\$64,691.42	\$0.00	\$3,234,737.01
Warrants Paid During Year	\$3,100,639.67	\$64,691.42	\$0.00	\$3,165,331.09
Warrants Covered to Bonds or Judgments	\$0.00	\$0.00	\$0.00	\$0.00
Warrants Estopped by Statute/Canceled	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL WARRANTS RETIRED	\$3,100,639.67	\$64,691.42	\$0.00	\$3,165,331.09
BALANCE WARRANTS OUTSTANDING JUNE 30, 2025	\$69,405.92	\$0.00	\$0.00	\$69,405.92

Schedule 5: 2024 Ad Valorem Tax Account		
ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025	37.850 Mills	Amount
2024 Net Valuation Certified to County Excise Board		\$13,245,462.00
Total Proceeds of Levy as Certified		\$500,474.70
Additions:		\$0.00
Deductions:		\$0.00
Gross Balance Tax		\$500,474.70
Less Reserve for Delinquent Tax		\$45,497.70
Reserve for Protests Pending		\$0.00
Balance Available Tax		\$454,977.00
Deduct 2024 Tax Apportioned		\$457,177.95
Net Balance 2024 Tax in Process of Collection		\$0.00
Excess Collections		\$2,200.95

GENERAL FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'A'

Schedule 6: Revenue, Non-Revenue Receipts & Cash Balances		
SOURCE	2024-25 Account	
	AMOUNT ESTIMATED	ACTUALLY COLLECTED
1000 DISTRICT SOURCES OF REVENUE:		
1100 TAXES LEVIED/ASSESSED		
1110 Ad Valorem Tax Levy (Current Year)	\$454,977.00	\$457,177.95
1120 Ad Valorem Tax Levy (Prior Years)	\$3,316.05	\$30,113.95
1130 Revenue In Lieu Of Taxes	\$0.00	\$4,279.10
1140 Revenue From Local Governmental Units Other Than Leas	\$0.00	\$0.00
1190 Other Taxes	\$0.00	\$0.00
TOTAL TAXES LEVIED/ASSESSED	\$458,293.05	\$491,571.00
1200 Tuition & Fees	\$0.00	\$0.00
1300 Earnings on Investments and Bond Sales	\$0.00	\$3,250.78
1400 Rental, Disposals and Commissions	\$0.00	\$450.00
1500 Reimbursements	\$0.00	\$26,221.75
1600 Other Local Sources of Revenue	\$0.00	\$11,731.21
1700 Child Nutrition Programs	\$40,404.53	\$43,571.30
1800 Athletics	\$0.00	\$0.00
TOTAL DISTRICT SOURCES OF REVENUE	\$498,697.58	\$576,796.04
2000 INTERMEDIATE SOURCES OF REVENUE:		
2100 County 4 Mill Ad Valorem Tax	\$47,000.41	\$52,572.41
2200 County Apportionment (Mortgage Tax)	\$7,178.66	\$9,994.04
2300 Resale of Property Fund Distribution	\$0.00	\$0.00
2900 Other Intermediate Sources of Revenue	\$0.00	\$0.00
TOTAL INTERMEDIATE SOURCES OF REVENUE	\$54,179.07	\$62,566.45
3000 STATE SOURCES OF REVENUE:		
3100 STATE DEDICATED SOURCES OF REVENUE		
3110 Gross Production Tax	\$400.00	\$310.25
3120 Motor Vehicle Collections	\$140,000.00	\$130,528.10
3130 Rural Electric Cooperative Tax	\$85,000.00	\$90,012.21
3140 State School Land Earnings	\$55,000.00	\$56,568.15
3150 Vehicle Tax Stamps	\$200.00	\$230.09
3160 Farm Implement Tax Stamps	\$0.00	\$0.00
3170 Trailers and Mobile Homes	\$0.00	\$0.00
3190 Other Dedicated Revenue	\$0.00	\$0.00
TOTAL STATE DEDICATED SOURCES OF REVENUE	\$280,600.00	\$277,648.80
3200 STATE AID - NONCATEGORICAL		
3210 Foundation and Salary Incentive Aid	\$1,676,049.00	\$1,699,391.06
3220 Mid-Term Adjustment For Attendance	\$0.00	\$0.00
3230 Teacher Consultant Stipend	\$0.00	\$0.00
3240 Disaster Assistance	\$0.00	\$0.00
3250 Flexible Benefit Allowance	\$275,000.00	\$293,827.94
TOTAL STATE AID - NONCATEGORICAL	\$1,951,049.00	\$1,993,219.00
3300 State Aid - Competitive Grants - Categorical	\$0.00	\$0.00
3400 State - Categorical	\$182,786.89	\$187,900.36
3500 Special Programs	\$0.00	\$0.00
3600 Other State Sources of Revenue	\$2,000.00	\$5,686.57
3700 Child Nutrition Program	\$1,500.00	\$1,699.06
3800 State Vocational Programs - Multi-Source	\$33,720.00	\$33,720.00
TOTAL STATE SOURCES OF REVENUE	\$2,451,655.89	\$2,499,873.79
4000 FEDERAL SOURCES OF REVENUE:		
4100 Grants-In-Aid Direct From The Federal Government	\$46,588.00	\$46,887.00
4200 Disadvantaged Students	\$60,000.00	\$63,307.75
4300 Individuals With Disabilities	\$71,395.28	\$75,309.02
4400 No Child Left Behind	\$10,000.00	\$46,420.93
4500 Grants-In-Aid Passed Through Other State/Intermediate Sources	\$0.00	\$0.00
4600 Other Federal Sources Passed Through State Dept Of Education	\$75,526.92	\$0.00
4700 Child Nutrition Programs	\$130,000.00	\$124,813.85
4800 Federal Vocational Education	\$0.00	\$0.00
TOTAL FEDERAL SOURCES OF REVENUE	\$393,510.20	\$356,738.55
5000 NON-REVENUE RECEIPTS:		
TOTAL NON-REVENUE RECEIPTS	\$15,000.00	\$17,771.42
6000 BALANCE SHEET ACCOUNTS:		
6100 CASH ACCOUNTS		
6110 Cash Forward	\$299,919.44	\$299,919.44
6130 Prior-Year Lapsed Appropriations (Schedule 6)	\$0.00	\$0.00
6140 Estopped Warrants by Statute	\$0.00	\$0.00
TOTAL CASH ACCOUNTS	\$299,919.44	\$299,919.44
6200 Interfund Transfers	\$0.00	\$0.00
TOTAL BALANCE SHEET ACCOUNTS	\$299,919.44	\$299,919.44
GRAND TOTAL	\$3,712,962.18	\$3,813,665.69

GENERAL FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'A'

Schedule 6: Revenue, Non-Revenue Receipts & Cash Balances (Continued)				
SOURCE	2024-25 Account	BASIS AND LIMIT OF ENSUING	ESTIMATED BY GOVERNING BOARD	APPROVED BY EXCISE BOARD
	OVER/UNDER			
1000 DISTRICT SOURCES OF REVENUE:				
1100 TAXES LEVIED/ASSESSED				
1110 Ad Valorem Tax Levy (Current Year)	\$2,200.95	103.92%	\$475,094.19	\$475,094.19
1120 Ad Valorem Tax Levy (Prior Years)	\$26,797.90	90.00%	\$27,102.56	\$27,102.56
1130 Revenue In Lieu Of Taxes	\$4,279.10	93.48%	\$4,000.00	\$4,000.00
1140 Revenue From Local Governmental Units Other Than Leas	\$0.00	0.00%	\$0.00	\$0.00
1190 Other Taxes	\$0.00	0.00%	\$0.00	\$0.00
TOTAL TAXES LEVIED/ASSESSED	\$33,277.95		\$506,196.75	\$506,196.75
1200 Tuition & Fees	\$0.00	0.00%	\$0.00	\$0.00
1300 Earnings on Investments and Bond Sales	\$3,250.78	92.29%	\$3,000.00	\$3,000.00
1400 Rental, Disposals and Commissions	\$450.00	111.11%	\$500.00	\$500.00
1500 Reimbursements	\$26,221.75	95.34%	\$25,000.00	\$25,000.00
1600 Other Local Sources of Revenue	\$11,731.21	42.62%	\$5,000.00	\$5,000.00
1700 Child Nutrition Programs	\$3,166.77	95.00%	\$41,392.74	\$41,392.74
1800 Athletics	\$0.00	0.00%	\$0.00	\$0.00
TOTAL DISTRICT SOURCES OF REVENUE	\$78,098.46		\$581,089.49	\$581,089.49
2000 INTERMEDIATE SOURCES OF REVENUE:				
2100 County 4 Mill Ad Valorem Tax	\$5,572.00	90.00%	\$47,315.17	\$47,315.17
2200 County Apportionment (Mortgage Tax)	\$2,815.38	100.00%	\$9,994.04	\$9,994.04
2300 Resale of Property Fund Distribution	\$0.00	0.00%	\$0.00	\$0.00
2900 Other Intermediate Sources of Revenue	\$0.00	0.00%	\$0.00	\$0.00
TOTAL INTERMEDIATE SOURCES OF REVENUE	\$8,387.38		\$57,309.21	\$57,309.21
3000 STATE SOURCES OF REVENUE:				
3100 STATE DEDICATED SOURCES OF REVENUE:				
3110 Gross Production Tax	-\$89.75	100.00%	\$310.25	\$310.25
3120 Motor Vehicle Collections	-\$9,471.90	100.00%	\$130,528.10	\$130,528.10
3130 Rural Electric Cooperative Tax	\$5,012.21	100.00%	\$90,012.21	\$90,012.21
3140 State School Land Earnings	\$1,568.15	100.00%	\$56,568.15	\$56,568.15
3150 Vehicle Tax Stamps	\$30.09	100.00%	\$230.09	\$230.09
3160 Farm Implement Tax Stamps	\$0.00	0.00%	\$0.00	\$0.00
3170 Trailers and Mobile Homes	\$0.00	0.00%	\$0.00	\$0.00
3190 Other Dedicated Revenue	\$0.00	0.00%	\$0.00	\$0.00
TOTAL STATE DEDICATED SOURCES OF REVENUE	-\$2,951.20		\$277,648.80	\$277,648.80
3200 STATE AID - NONCATEGORICAL				
3210 Foundation and Salary Incentive Aid	\$23,342.06	100.99%	\$1,716,269.03	\$1,716,269.03
3220 Mid-Term Adjustment For Attendance	\$0.00	0.00%	\$0.00	\$0.00
3230 Teacher Consultant Stipend	\$0.00	0.00%	\$0.00	\$0.00
3240 Disaster Assistance	\$0.00	0.00%	\$0.00	\$0.00
3250 Flexible Benefit Allowance	\$18,827.94	101.28%	\$297,579.00	\$297,579.00
TOTAL STATE AID - NONCATEGORICAL	\$42,170.00		\$2,013,848.03	\$2,013,848.03
3300 State Aid - Competitive Grants - Categorical	\$0.00	0.00%	\$0.00	\$0.00
3400 State - Categorical	\$5,113.47	62.90%	\$118,180.62	\$118,180.62
3500 Special Programs	\$0.00	0.00%	\$0.00	\$0.00
3600 Other State Sources of Revenue	\$3,686.57	70.34%	\$4,000.00	\$4,000.00
3700 Child Nutrition Program	\$199.06	95.00%	\$1,614.11	\$1,614.11
3800 State Vocational Programs - Multi-Source	\$0.00	100.00%	\$33,720.00	\$33,720.00
TOTAL STATE SOURCES OF REVENUE	\$48,217.90		\$2,449,011.56	\$2,449,011.56
4000 FEDERAL SOURCES OF REVENUE:				
4100 Grants-In-Aid Direct From The Federal Government	\$299.00	100.90%	\$47,307.00	\$47,307.00
4200 Disadvantaged Students	\$3,307.75	94.78%	\$60,000.00	\$60,000.00
4300 Individuals With Disabilities	\$3,913.74	92.72%	\$69,824.04	\$69,824.04
4400 No Child Left Behind	\$36,420.93	99.71%	\$46,286.31	\$46,286.31
4500 Grants-In-Aid Passed Through Other State/Intermediate Sources	\$0.00	0.00%	\$0.00	\$0.00
4600 Other Federal Sources Passed Through State Dept Of Education	-\$75,526.92	0.00%	\$0.00	\$0.00
4700 Child Nutrition Programs	-\$5,186.15	95.00%	\$118,573.16	\$118,573.16
4800 Federal Vocational Education	\$0.00	0.00%	\$0.00	\$0.00
TOTAL FEDERAL SOURCES OF REVENUE	-\$36,771.65		\$341,990.51	\$341,990.51
5000 NON-REVENUE RECEIPTS:				
TOTAL NON-REVENUE RECEIPTS	\$2,771.42	84.41%	\$15,000.00	\$15,000.00
6000 BALANCE SHEET ACCOUNTS:				
6100 CASH ACCOUNTS				
6110 Cash Forward	\$0.00	213.40%	\$640,029.96	\$640,029.96
6130 Prior-Year Lapsed Appropriations (Schedule 6)	\$0.00	0.00%	\$0.00	\$0.00
6140 Estopped Warrants by Statute	\$0.00	0.00%	\$0.00	\$0.00
TOTAL CASH ACCOUNTS	\$0.00		\$640,029.96	\$640,029.96
6200 Interfund Transfers	\$0.00	0.00%	\$0.00	\$0.00
TOTAL BALANCE SHEET ACCOUNTS	\$0.00		\$640,029.96	\$640,029.96
GRAND TOTAL	\$100,703.51		\$4,084,430.73	\$4,084,430.73

GENERAL FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'A'

Schedule 7: Report of Prior Year Warrants Issued From Reserves			
FISCAL YEAR ENDING JUNE 30, 2024			
	RESERVES 06-30-2024	WARRANTS ISSUED SINCE	BALANCE LAPSED
TOTAL PRIOR YEAR RESERVES	\$2,482.12	\$2,482.12	\$0.00

Schedule 8: Report of Current Year Expenditures			
FISCAL YEAR ENDING JUNE 30, 2025			
APPROPRIATED ACCOUNTS	APPROPRIATIONS		
	ORIGINAL	SUPPLEMENTAL ADJUSTMENTS	FINAL APPROPRIATIONS
1000 INSTRUCTION	\$1,827,407.30	\$0.00	\$1,827,407.30
2000 SUPPORT SERVICES:			
2100 Support Services - Students	\$159,928.36	\$0.00	\$159,928.36
2200 Support Services - Instructional Staff	\$24,727.35	\$0.00	\$24,727.35
2300 Support Services - General Administration	\$175,799.82	\$0.00	\$175,799.82
2400 Support Services - School Administration	\$243,523.04	\$0.00	\$243,523.04
2500 Support Services - Business	\$59,428.04	\$0.00	\$59,428.04
2600 Operations And Maintenance of Plant Services	\$322,108.14	\$0.00	\$322,108.14
2700 Student Transportation Services	\$110,835.77	\$0.00	\$110,835.77
TOTAL SUPPORT SERVICES	\$1,096,350.52	\$0.00	\$1,096,350.52
3000 OPERATION OF NON-INSTRUCTION SERVICES:			
3100 Child Nutrition Programs Operations	\$231,980.82	\$0.00	\$231,980.82
3200 Other Enterprise Service Operations	\$0.00	\$0.00	\$0.00
3300 Community Services Operations	\$17,625.67	\$0.00	\$17,625.67
TOTAL OPERATION OF NON-INSTRUCTIONAL SERVICES	\$249,606.49	\$0.00	\$249,606.49
4000 FACILITIES ACQUISITION & CONSTRUCTION SERVICES:			
4200 Land Acquisition Services	\$0.00	\$0.00	\$0.00
4300 Land Improvement Services	\$0.00	\$0.00	\$0.00
4400 Architecture and Engineering Services	\$0.00	\$0.00	\$0.00
4500 Educational Specifications Development Services	\$0.00	\$0.00	\$0.00
4600 Building Acquisition and Construction Services	\$0.00	\$0.00	\$0.00
4700 Building Improvement Services	\$0.00	\$0.00	\$0.00
TOTAL FACILITIES ACQUISITION & CONST. SERVICES	\$0.00	\$0.00	\$0.00
5000 OTHER OUTLAYS:			
5100 Debt Service	\$271.42	\$0.00	\$271.42
5200 Fund Transfer/Reimbursement (Child Nutrition Fund)	\$0.00	\$0.00	\$0.00
5300 Clearing Account	\$0.00	\$0.00	\$0.00
5400 Indirect Cost Entitlement	\$0.00	\$0.00	\$0.00
5500 Private Nonprofit Schools	\$0.00	\$0.00	\$0.00
5600 Correcting Entry	\$0.00	\$0.00	\$0.00
5800 Charter School Reimbursement	\$0.00	\$0.00	\$0.00
5900 Arbitrage	\$0.00	\$0.00	\$0.00
TOTAL OTHER OUTLAYS	\$271.42	\$0.00	\$271.42
7000 OTHER USES / UNBUDGETED ITEMS:	\$539,326.45	\$0.00	\$539,326.45
8000 REPAYMENTS:	\$0.00	\$0.00	\$0.00
TOTAL GENERAL FUND 2024-25 FISCAL YEAR	\$3,712,962.18	\$0.00	\$3,712,962.18

GENERAL FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'A'

Schedule 8: Report of Current Year Expenditures (Continued)				2024-2025
FISCAL YEAR ENDING JUNE 30, 2025				EXPENDITURES FOR CURRENT EXPENSE PURPOSES
APPROPRIATED ACCOUNTS	WARRANTS ISSUED	RESERVES	LAPSED BALANCE KNOWN TO BE UNENCUMBERED	
1000 INSTRUCTION:	\$1,826,014.67	\$1,392.63	\$0.00	\$1,827,407.30
2000 SUPPORT SERVICES:				
2100 Support Services - Students	\$159,928.36	\$0.00	\$0.00	\$159,928.36
2200 Support Services - Instructional Staff	\$40,213.22	\$0.00	-\$15,485.87	\$40,213.22
2300 Support Services - General Administration	\$160,313.95	\$0.00	\$15,485.87	\$160,313.95
2400 Support Services - School Administration	\$243,523.04	\$0.00	\$0.00	\$243,523.04
2500 Support Services - Business	\$59,428.04	\$0.00	\$0.00	\$59,428.04
2600 Operations And Maintenance of Plant Services	\$321,135.90	\$972.24	\$0.00	\$322,108.14
2700 Student Transportation Services	\$110,573.03	\$262.74	\$0.00	\$110,835.77
TOTAL SUPPORT SERVICES	\$1,095,115.54	\$1,234.98	\$0.00	\$1,096,350.52
3000 OPERATION OF NON-INSTRUCTION SERVICES:				
3100 Child Nutrition Programs Operations	\$231,018.29	\$962.53	\$0.00	\$231,980.82
3200 Other Enterprise Service Operations	\$0.00	\$0.00	\$0.00	\$0.00
3300 Community Services Operations	\$17,625.67	\$0.00	\$0.00	\$17,625.67
TOTAL OPERATION OF NON-INSTRUCTIONAL SERVICES	\$248,643.96	\$962.53	\$0.00	\$249,606.49
4000 FACILITIES ACQUISITION & CONSTRUCTION SERVICES:				
4200 Land Acquisition Services	\$0.00	\$0.00	\$0.00	\$0.00
4300 Land Improvement Services	\$0.00	\$0.00	\$0.00	\$0.00
4400 Architecture and Engineering Services	\$0.00	\$0.00	\$0.00	\$0.00
4500 Educational Specifications Development Services	\$0.00	\$0.00	\$0.00	\$0.00
4600 Building Acquisition and Construction Services	\$0.00	\$0.00	\$0.00	\$0.00
4700 Building Improvement Services	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL FACILITIES ACQUISITION & CONST. SERVICES	\$0.00	\$0.00	\$0.00	\$0.00
5000 OTHER OUTLAYS:				
5100 Debt Service	\$0.00	\$0.00	\$271.42	\$0.00
5200 Fund Transfer/Reimbursement (Child Nutrition Fund)	\$0.00	\$0.00	\$0.00	\$0.00
5300 Clearing Account	\$0.00	\$0.00	\$0.00	\$0.00
5400 Indirect Cost Entitlement	\$0.00	\$0.00	\$0.00	\$0.00
5500 Private Nonprofit Schools	\$0.00	\$0.00	\$0.00	\$0.00
5600 Correcting Entry	\$271.42	\$0.00	-\$271.42	\$271.42
5800 Charter School Reimbursement	\$0.00	\$0.00	\$0.00	\$0.00
5900 Arbitrage	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL OTHER OUTLAYS	\$271.42	\$0.00	\$0.00	\$271.42
7000 OTHER USES / UNBUDGETED ITEMS:	\$0.00	\$0.00	\$539,326.45	\$0.00
8000 REPAYMENTS:	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL GENERAL FUND 2024-25 FISCAL YEAR	\$3,170,045.59	\$3,590.14	\$539,326.45	\$3,173,635.73

ESTIMATE OF NEEDS FOR THE FISCAL YEAR 2025-26	Estimate of Needs by Governing Board	Approved by County Excise Board
PURPOSE:		
Current Expense	\$4,084,430.73	\$4,084,430.73
Pro rata share of County Assessor's Budget as determined by County Excise Board	\$0.00	\$0.00
GRAND TOTAL - Home School	\$4,084,430.73	\$4,084,430.73

BUILDING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'C'

Schedule 1: Current Balance Sheet for June 30, 2025		Amount
ASSETS:		
Cash Balances		\$253,345.67
Investments		\$0.00
TOTAL ASSETS		\$253,345.67
LIABILITIES AND RESERVES:		
Warrants Outstanding		\$12,163.39
Reserve for Interest on Warrants		\$0.00
Reserves From Schedule 8		\$5,000.00
TOTAL LIABILITIES AND RESERVES		\$17,163.39
CASH FUND BALANCE JUNE 30, 2025		\$236,182.28
TOTAL LIABILITIES, RESERVES AND CASH FUND BALANCE		\$253,345.67

Schedule 2: Revenue and Requirements, 2024-2025		
REVENUE:	Estimated Budget	Actual Revenue & Expenditures
Revenues, Non-Revenue Receipts & Cash Balances (Schedule 6)	\$359,070.38	\$445,318.07
LESS: REQUIREMENTS:		
Expenditures (Schedule 8)	\$359,070.38	\$209,135.79
CASH FUND BALANCE JUNE 30, 2025	\$0.00	\$236,182.28

Schedule 3: Building Fund Cash Accounts of Current and all Prior Years				
CURRENT AND ALL PRIOR YEARS	2024-25	2023-24	PRE-2023	Total
Cash Balance Reported to Excise Board 6-30-24	\$0.00	\$237,011.98	\$0.00	\$237,011.98
REVENUES, NON-REVENUE RECEIPTS & CASH BALANCE				
Revenues/Non-Rev (Sch 6 Source Codes 1000 to 5999)	\$211,546.56	\$0.00	\$0.00	\$211,546.56
Cash Balances Transferred (Sch 6 Source Code 6110)	\$233,771.51	-\$233,771.51	\$0.00	\$0.00
Prior Year Lapsed Appropri (Sch 6 Source Code 6130)	\$0.00	\$0.00	\$0.00	\$0.00
Estopped Warrants (Sch 6 Source Code 6140)	\$0.00	\$0.00	\$0.00	\$0.00
Interfund Transfers (Sch 6 Source Code 6200)	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL REVENUES, NON-REVENUE RECEIPTS & CASH BALANCE	\$445,318.07	-\$233,771.51	\$0.00	\$211,546.56
Warrants Paid of Year in Caption	\$191,972.40	\$3,240.47	\$0.00	\$195,212.87
TOTAL DISBURSEMENTS	\$191,972.40	\$3,240.47	\$0.00	\$195,212.87
CASH & INVESTMENTS BALANCE JUNE 30, 2025	\$253,345.67	\$0.00	\$0.00	\$253,345.67
Reserve for Warrants Outstanding (Schedule 4)	\$12,163.39	\$0.00	\$0.00	\$12,163.39
Reserve for Encumbrances (Schedule 8)	\$5,000.00	\$0.00	\$0.00	\$5,000.00
TOTAL LIABILITIES AND RESERVE	\$17,163.39	\$0.00	\$0.00	\$17,163.39
DEFICIT:	\$0.00	\$0.00	\$0.00	\$0.00
CASH FUND BAL FORWARD TO SUCCEEDING YEAR	\$236,182.28	\$0.00	\$0.00	\$236,182.28

Schedule 4: Building Fund Warrant Accounts of Current and all Prior Years				
CURRENT AND ALL PRIOR YEARS	2024-25	2023-24	PRE-2023	Total
Warrants Outstanding 6-30 of Year in Caption	\$0.00	\$3,240.47	\$0.00	\$3,240.47
Warrants Registered During Year	\$204,135.79	\$0.00	\$0.00	\$204,135.79
TOTAL	\$204,135.79	\$3,240.47	\$0.00	\$207,376.26
Warrants Paid During Year	\$191,972.40	\$3,240.47	\$0.00	\$195,212.87
Warrants Converted to Bonds or Judgments	\$0.00	\$0.00	\$0.00	\$0.00
Warrants Estopped by Statute/Canceled	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL WARRANTS RETIRED	\$191,972.40	\$3,240.47	\$0.00	\$195,212.87
BALANCE WARRANTS OUTSTANDING JUNE 30, 2025	\$12,163.39	\$0.00	\$0.00	\$12,163.39

Schedule 5: 2024 Ad Valorem Tax Account		
ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025	5.410 Mills	Amount
2024 Net Valuation Certified to County Excise Board		\$13,245,462.00
Total Proceeds of Levy as Certified		\$71,527.93
Additions:		\$0.00
Deductions:		\$0.00
Gross Balance Tax		\$71,527.93
Less Reserve for Delinquent Tax		\$6,502.54
Reserve for Protests Pending		\$0.00
Balance Available Tax		\$65,025.39
Deduct 2024 Tax Apportioned		\$65,339.67
Net Balance 2024 Tax in Process of Collection		\$0.00
Excess Collections		\$314.28

BUILDING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'C'

Schedule 6: Revenue, Non-Revenue Receipts & Cash Balances		
SOURCE	2024-25 Account	
	AMOUNT ESTIMATED	ACTUALLY COLLECTED
1000 DISTRICT SOURCES OF REVENUE:		
1100 TAXES LEVIED/ASSESSED		
1110 Ad Valorem Tax Levy (Current Year)	\$65,025.39	\$65,339.67
1120 Ad Valorem Tax Levy (Prior Years)	\$273.48	\$4,304.18
1130 Revenue In Lieu Of Taxes	\$0.00	\$44.25
1140 Revenue From Local Governmental Units Other Than Leas	\$0.00	\$0.00
1190 Other Taxes	\$0.00	\$0.00
TOTAL TAXES LEVIED/ASSESSED	\$65,298.87	\$69,688.10
1200 Tuition & Fees	\$0.00	\$0.00
1300 Earnings on Investments and Bond Sales	\$0.00	\$1,049.64
1400 Rental, Disposals and Commissions	\$0.00	\$0.00
1500 Reimbursements	\$0.00	\$0.00
1600 Other Local Sources of Revenue	\$0.00	\$5,000.00
1700 Child Nutrition Programs	\$0.00	\$0.00
1800 Athletics	\$0.00	\$0.00
TOTAL DISTRICT SOURCES OF REVENUE	\$65,298.87	\$75,737.74
2000 INTERMEDIATE SOURCES OF REVENUE		
2100 County 4 Mill Ad Valorem Tax	\$0.00	\$0.00
2200 County Apportionment (Mortgage Tax)	\$0.00	\$0.00
2300 Resale of Property Fund Distribution	\$0.00	\$0.00
2900 Other Intermediate Sources of Revenue	\$0.00	\$0.00
TOTAL INTERMEDIATE SOURCES OF REVENUE	\$0.00	\$0.00
3000 STATE SOURCES OF REVENUE:		
3100 STATE DEDICATED SOURCES OF REVENUE		
3110 Gross Production Tax	\$0.00	\$0.00
3120 Motor Vehicle Collections	\$0.00	\$0.00
3130 Rural Electric Cooperative Tax	\$0.00	\$0.00
3140 State School Land Earnings	\$0.00	\$0.00
3150 Vehicle Tax Stamps	\$0.00	\$0.00
3160 Farm Implement Tax Stamps	\$0.00	\$0.00
3170 Trailers and Mobile Homes	\$0.00	\$0.00
3190 Other Dedicated Revenue	\$0.00	\$0.00
TOTAL STATE DEDICATED SOURCES OF REVENUE	\$0.00	\$0.00
3200 STATE AID - NONCATEGORICAL		
3210 Foundation and Salary Incentive Aid	\$0.00	\$0.00
3220 Mid-Term Adjustment For Attendance	\$0.00	\$0.00
3230 Teacher Consultant Stipend	\$0.00	\$0.00
3240 Disaster Assistance	\$0.00	\$0.00
3250 Flexible Benefit Allowance	\$0.00	\$0.00
TOTAL STATE AID - NONCATEGORICAL	\$0.00	\$0.00
3300 State Aid - Competitive Grants - Categorical	\$0.00	\$0.00
3400 State - Categorical	\$50,000.00	\$103,702.72
3500 Special Programs	\$0.00	\$0.00
3600 Other State Sources of Revenue	\$0.00	\$607.10
3700 Child Nutrition Program	\$0.00	\$0.00
3800 State Vocational Programs - Multi-Source	\$0.00	\$0.00
TOTAL STATE SOURCES OF REVENUE	\$50,000.00	\$104,309.82
4000 FEDERAL SOURCES OF REVENUE:		
4100 Grants-In-Aid Direct From The Federal Government	\$10,000.00	\$31,499.00
4200 Disadvantaged Students	\$0.00	\$0.00
4300 Individuals With Disabilities	\$0.00	\$0.00
4400 No Child Left Behind	\$0.00	\$0.00
4500 Grants-In-Aid Passed Through Other State/Intermediate Sources	\$0.00	\$0.00
4600 Other Federal Sources Passed Through State Dept Of Education	\$0.00	\$0.00
4700 Child Nutrition Programs	\$0.00	\$0.00
4800 Federal Vocational Education	\$0.00	\$0.00
TOTAL FEDERAL SOURCES OF REVENUE	\$10,000.00	\$31,499.00
5000 NON-REVENUE RECEIPTS:		
TOTAL NON-REVENUE RECEIPTS	\$0.00	\$0.00
6000 BALANCE SHEET ACCOUNTS		
6100 CASH ACCOUNTS		
6110 Cash Forward	\$233,771.51	\$233,771.51
6130 Prior-Year Lapsed Appropriations (Schedule 6)	\$0.00	\$0.00
6140 Estopped Warrants by Statute	\$0.00	\$0.00
TOTAL CASH ACCOUNTS	\$233,771.51	\$233,771.51
6200 Interfund Transfers	\$0.00	\$0.00
TOTAL BALANCE SHEET ACCOUNTS	\$233,771.51	\$233,771.51
GRAND TOTAL	\$359,070.38	\$445,318.07

BUILDING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'C'

Schedule 6: Revenue, Non-Revenue Receipts & Cash Balances (Continued)				
SOURCE	2024-25 Account	BASIS AND LIMIT OF ENSUING	ESTIMATED BY GOVERNING BOARD	APPROVED BY EXCISE BOARD
	OVER/UNDER			
1000 DISTRICT SOURCES OF REVENUE:				
1100 TAXES LEVIED/ASSESSED				
1110 Ad Valorem Tax Levy (Current Year)	\$314.28	103.92%	\$67,900.35	\$67,900.35
1120 Ad Valorem Tax Levy (Prior Years)	\$4,030.70	88.58%	\$3,812.50	\$3,812.50
1130 Revenue In Lieu Of Taxes	\$44.25	1129.94%	\$500.00	\$500.00
1140 Revenue From Local Governmental Units Other Than Leas	\$0.00	0.00%	\$0.00	\$0.00
1190 Other Taxes	\$0.00	2259.89%	\$1,000.00	\$1,000.00
TOTAL TAXES LEVIED/ASSESSED	\$4,389.23		\$73,212.85	\$73,212.85
1200 Tuition & Fees	\$0.00	0.00%	\$0.00	\$0.00
1300 Earnings on Investments and Bond Sales	\$1,049.64	0.00%	\$0.00	\$0.00
1400 Rental, Disposals and Commissions	\$0.00	0.00%	\$0.00	\$0.00
1500 Reimbursements	\$0.00	0.00%	\$0.00	\$0.00
1600 Other Local Sources of Revenue	\$5,000.00	0.00%	\$0.00	\$0.00
1700 Child Nutrition Programs	\$0.00	0.00%	\$0.00	\$0.00
1800 Athletics	\$0.00	0.00%	\$0.00	\$0.00
TOTAL DISTRICT SOURCES OF REVENUE	\$10,438.87		\$73,212.85	\$73,212.85
2000 INTERMEDIATE SOURCES OF REVENUE				
2100 County 4 Mill Ad Valorem Tax	\$0.00	0.00%	\$0.00	\$0.00
2200 County Apportionment (Mortgage Tax)	\$0.00	0.00%	\$0.00	\$0.00
2300 Resale of Property Fund Distribution	\$0.00	0.00%	\$0.00	\$0.00
2900 Other Intermediate Sources of Revenue	\$0.00	0.00%	\$0.00	\$0.00
TOTAL INTERMEDIATE SOURCES OF REVENUE	\$0.00		\$0.00	\$0.00
3000 STATE SOURCES OF REVENUE:				
3100 STATE DEDICATED SOURCES OF REVENUE:				
3110 Gross Production Tax	\$0.00	0.00%	\$0.00	\$0.00
3120 Motor Vehicle Collections	\$0.00	0.00%	\$0.00	\$0.00
3130 Rural Electric Cooperative Tax	\$0.00	0.00%	\$0.00	\$0.00
3140 State School Land Earnings	\$0.00	0.00%	\$0.00	\$0.00
3150 Vehicle Tax Stamps	\$0.00	0.00%	\$0.00	\$0.00
3160 Farm Implement Tax Stamps	\$0.00	0.00%	\$0.00	\$0.00
3170 Trailers and Mobile Homes	\$0.00	0.00%	\$0.00	\$0.00
3190 Other Dedicated Revenue	\$0.00	0.00%	\$0.00	\$0.00
TOTAL STATE DEDICATED SOURCES OF REVENUE	\$0.00		\$0.00	\$0.00
3200 STATE AID - NONCATEGORICAL				
3210 Foundation and Salary Incentive Aid	\$0.00	0.00%	\$0.00	\$0.00
3220 Mid-Term Adjustment For Attendance	\$0.00	0.00%	\$0.00	\$0.00
3230 Teacher Consultant Stipend	\$0.00	0.00%	\$0.00	\$0.00
3240 Disaster Assistance	\$0.00	0.00%	\$0.00	\$0.00
3250 Flexible Benefit Allowance	\$0.00	0.00%	\$0.00	\$0.00
TOTAL STATE AID - NONCATEGORICAL	\$0.00		\$0.00	\$0.00
3300 State Aid - Competitive Grants - Categorical	\$0.00	0.00%	\$0.00	\$0.00
3400 State - Categorical	\$53,702.72	48.21%	\$50,000.00	\$50,000.00
3500 Special Programs	\$0.00	0.00%	\$0.00	\$0.00
3600 Other State Sources of Revenue	\$607.10	1647.18%	\$10,000.00	\$10,000.00
3700 Child Nutrition Program	\$0.00	0.00%	\$0.00	\$0.00
3800 State Vocational Programs - Multi-Source	\$0.00	0.00%	\$0.00	\$0.00
TOTAL STATE SOURCES OF REVENUE	\$54,309.82		\$60,000.00	\$60,000.00
4000 FEDERAL SOURCES OF REVENUE:				
4100 Grants-In-Aid Direct From The Federal Government	\$21,499.00	0.00%	\$0.00	\$0.00
4200 Disadvantaged Students	\$0.00	0.00%	\$0.00	\$0.00
4300 Individuals With Disabilities	\$0.00	0.00%	\$0.00	\$0.00
4400 No Child Left Behind	\$0.00	0.00%	\$0.00	\$0.00
4500 Grants-In-Aid Passed Through Other State/Intermediate Sources	\$0.00	0.00%	\$0.00	\$0.00
4600 Other Federal Sources Passed Through State Dept Of Education	\$0.00	0.00%	\$0.00	\$0.00
4700 Child Nutrition Programs	\$0.00	0.00%	\$0.00	\$0.00
4800 Federal Vocational Education	\$0.00	0.00%	\$0.00	\$0.00
TOTAL FEDERAL SOURCES OF REVENUE	\$21,499.00		\$0.00	\$0.00
5000 NON-REVENUE RECEIPTS:				
TOTAL NON-REVENUE RECEIPTS	\$0.00		\$0.00	\$0.00
6000 BALANCE SHEET ACCOUNTS				
6100 CASH ACCOUNTS				
6110 Cash Forward	\$0.00	101.03%	\$236,182.28	\$236,182.28
6130 Prior-Year Lapsed Appropriations (Schedule 6)	\$0.00	0.00%	\$0.00	\$0.00
6140 Estopped Warrants by Statute	\$0.00	0.00%	\$0.00	\$0.00
TOTAL CASH ACCOUNTS	\$0.00		\$236,182.28	\$236,182.28
6200 Interfund Transfers	\$0.00	0.00%	\$0.00	\$0.00
TOTAL BALANCE SHEET ACCOUNTS	\$0.00		\$236,182.28	\$236,182.28
GRAND TOTAL	\$86,247.69		\$369,395.13	\$369,395.13

BUILDING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'C'

Schedule 7: Report of Prior Year Warrants Issued From Reserves			
FISCAL YEAR ENDING JUNE 30, 2024			
	RESERVES 06-30-2024	WARRANTS ISSUED SINCE	BALANCE LAPSED
TOTAL PRIOR YEAR RESERVES	\$0.00	\$0.00	\$0.00

Schedule 8: Report of Current Year Expenditures			
APPROPRIATED ACCOUNTS	FISCAL YEAR ENDING JUNE 30, 2025		
	APPROPRIATIONS		
	ORIGINAL	SUPPLEMENTAL ADJUSTMENTS	FINAL APPROPRIATIONS
1000 INSTRUCTION:	\$932.67	\$0.00	\$932.67
2000 SUPPORT SERVICES:			
2100 Support Services - Students	\$0.00	\$0.00	\$0.00
2200 Support Services - Instructional Staff	\$0.00	\$0.00	\$0.00
2300 Support Services - General Administration	\$0.00	\$0.00	\$0.00
2400 Support Services - School Administration	\$0.00	\$0.00	\$0.00
2500 Support Services - Business	\$0.00	\$0.00	\$0.00
2600 Operations And Maintenance of Plant Services	\$148,986.88	\$0.00	\$148,986.88
2700 Student Transportation Services	\$0.00	\$0.00	\$0.00
TOTAL SUPPORT SERVICES	\$148,986.88	\$0.00	\$148,986.88
3000 OPERATION OF NON-INSTRUCTION SERVICES:			
3100 Child Nutrition Programs Operations	\$0.00	\$0.00	\$0.00
3200 Other Enterprise Service Operations	\$0.00	\$0.00	\$0.00
3300 Community Services Operations	\$0.00	\$0.00	\$0.00
TOTAL OPERATION OF NON-INSTRUCTIONAL SERVICES	\$0.00	\$0.00	\$0.00
4000 FACILITIES ACQUISITION & CONSTRUCTION SERVICES:			
4200 Land Acquisition Services	\$0.00	\$0.00	\$0.00
4300 Land Improvement Services	\$0.00	\$0.00	\$0.00
4400 Architecture and Engineering Services	\$0.00	\$0.00	\$0.00
4500 Educational Specifications Development Services	\$0.00	\$0.00	\$0.00
4600 Building Acquisition and Construction Services	\$11,870.00	\$0.00	\$11,870.00
4700 Building Improvement Services	\$47,346.24	\$0.00	\$47,346.24
TOTAL FACILITIES ACQUISITION & CONST. SERVICES	\$59,216.24	\$0.00	\$59,216.24
5000 OTHER OUTLAYS:			
5100 Debt Service	\$0.00	\$0.00	\$0.00
5200 Fund Transfer/Reimbursement (Child Nutrition Fund)	\$0.00	\$0.00	\$0.00
5300 Clearing Account	\$0.00	\$0.00	\$0.00
5400 Indirect Cost Entitlement	\$0.00	\$0.00	\$0.00
5500 Private Nonprofit Schools	\$0.00	\$0.00	\$0.00
5600 Correcting Entry	\$0.00	\$0.00	\$0.00
5800 Charter School Reimbursement	\$0.00	\$0.00	\$0.00
5900 Arbitrage	\$0.00	\$0.00	\$0.00
TOTAL OTHER OUTLAYS	\$0.00	\$0.00	\$0.00
7000 OTHER USES / UNBUDGETED ITEMS:	\$149,934.59	\$0.00	\$149,934.59
8000 REPAYMENTS:	\$0.00	\$0.00	\$0.00
TOTAL BUILDING FUND 2024-25 FISCAL YEAR	\$359,070.38	\$0.00	\$359,070.38

BUILDING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT 'C'

Schedule 8: Report of Current Year Expenditures (Continued)				
FISCAL YEAR ENDING JUNE 30, 2025				
APPROPRIATED ACCOUNTS	WARRANTS ISSUED	RESERVES	LAPSED BALANCE KNOWN TO BE UNENCUMBERED	2024-2025 EXPENDITURES FOR CURRENT EXPENSE PURPOSES
1000 INSTRUCTION:	\$932.67	\$0.00	\$0.00	\$932.67
2000 SUPPORT SERVICES:				
2100 Support Services - Students	\$0.00	\$0.00	\$0.00	\$0.00
2200 Support Services - Instructional Staff	\$0.00	\$0.00	\$0.00	\$0.00
2300 Support Services - General Administration	\$0.00	\$0.00	\$0.00	\$0.00
2400 Support Services - School Administration	\$0.00	\$0.00	\$0.00	\$0.00
2500 Support Services - Business	\$0.00	\$0.00	\$0.00	\$0.00
2600 Operations And Maintenance of Plant Services	\$143,986.88	\$5,000.00	\$0.00	\$148,986.88
2700 Student Transportation Services	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL SUPPORT SERVICES	\$143,986.88	\$5,000.00	\$0.00	\$148,986.88
3000 OPERATION OF NON-INSTRUCTION SERVICES:				
3100 Child Nutrition Programs Operations	\$0.00	\$0.00	\$0.00	\$0.00
3200 Other Enterprise Service Operations	\$0.00	\$0.00	\$0.00	\$0.00
3300 Community Services Operations	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL OPERATION OF NON-INSTRUCTIONAL SERVICES	\$0.00	\$0.00	\$0.00	\$0.00
4000 FACILITIES ACQUISITION & CONSTRUCTION SERVICES:				
4200 Land Acquisition Services	\$0.00	\$0.00	\$0.00	\$0.00
4300 Land Improvement Services	\$0.00	\$0.00	\$0.00	\$0.00
4400 Architecture and Engineering Services	\$0.00	\$0.00	\$0.00	\$0.00
4500 Educational Specifications Development Services	\$0.00	\$0.00	\$0.00	\$0.00
4600 Building Acquisition and Construction Services	\$11,870.00	\$0.00	\$0.00	\$11,870.00
4700 Building Improvement Services	\$47,346.24	\$0.00	\$0.00	\$47,346.24
TOTAL FACILITIES ACQUISITION & CONST. SERVICES	\$59,216.24	\$0.00	\$0.00	\$59,216.24
5000 OTHER OUTLAYS:				
5100 Debt Service	\$0.00	\$0.00	\$0.00	\$0.00
5200 Fund Transfer/Reimbursement (Child Nutrition Fund)	\$0.00	\$0.00	\$0.00	\$0.00
5300 Clearing Account	\$0.00	\$0.00	\$0.00	\$0.00
5400 Indirect Cost Entitlement	\$0.00	\$0.00	\$0.00	\$0.00
5500 Private Nonprofit Schools	\$0.00	\$0.00	\$0.00	\$0.00
5600 Correcting Entry	\$0.00	\$0.00	\$0.00	\$0.00
5800 Charter School Reimbursement	\$0.00	\$0.00	\$0.00	\$0.00
5900 Arbitrage	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL OTHER OUTLAYS	\$0.00	\$0.00	\$0.00	\$0.00
7000 OTHER USES / UNBUDGETED ITEMS:	\$0.00	\$0.00	\$149,934.59	\$0.00
8000 REPAYMENTS:	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL BUILDING FUND 2024-25 FISCAL YEAR	\$204,135.79	\$5,000.00	\$149,934.59	\$209,135.79

ESTIMATE OF NEEDS FOR THE FISCAL YEAR 2025-26	Estimate of Needs by Governing Board	Approved by County Excise Board
PURPOSE:		
Current Expense	\$369,395.13	\$369,395.13
Pro rata share of County Assessor's Budget as determined by County Excise Board	\$0.00	\$0.00
GRAND TOTAL - Home School	\$369,395.13	\$369,395.13

SINKING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "E"

Schedule 1: Detail of Bond and Coupon Indebtedness as of June 30, 2025 - Not Affecting Homesteads (New)					
PURPOSE OF BOND ISSUE:					2022 Building Bonds (A)
Date Of Issue					7/1/2022
Date Of Sale By Delivery					7/1/2022
HOW AND WHEN BONDS MATURE:					
Uniform Maturities:					
Date Maturity Begins					7/1/2024
Amount Of Each Uniform Maturity					\$ 60,000.00
Final Maturity Otherwise:					
Date of Final Maturity					7/1/2029
Amount of Final Maturity					\$ 70,000.00
AMOUNT OF ORIGINAL ISSUE					\$ 60,000.00
Cancelled, In Judgement Or Delayed For Final Levy Year					\$ 0.00
Basis of Accruals Contemplated on Net Collections or Better in Anticipation:					
Bond Issues Accruing By Tax Levy					\$ 60,000.00
Years To Run					1
Normal Annual Accrual					\$ 0.00
Tax Years Run					1
Accrual Liability To Date					\$ 60,000.00
Deductions From Total Accruals:					
Bonds Paid Prior To 6-30-2024					\$ 0.00
Bonds Paid During 2024-2025					\$ 60,000.00
Matured Bonds Unpaid					\$ 0.00
Balance Of Accrual Liability					\$ 0.00
TOTAL BONDS OUTSTANDING 6-30-2025:					
Matured					\$ 0.00
Unmatured					\$ 0.00
Coupon Computation:	Coupon Date	Unmatured Amount	% Int.	Months	Interest Amount
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Bonds and Coupons				Mo.	\$ 0.00
Requirement for Interest Earnings After Last Tax-Levy Year:					
Terminal Interest To Accrue					\$ 0.00
Years To Run					0
Accrue Each Year					\$ 0.00
Tax Years Run					0
Total Accrual To Date					\$ 0.00
Current Interest Earned Through 2025-2026					\$ 0.00
Total Interest To Levy For 2025-2026					\$ 0.00
INTEREST COUPON ACCOUNT:					
Interest Earned But Unpaid 6-30-2024:					
Matured					\$ 0.00
Unmatured					\$ 4,020.00
Interest Earnings 2024-2025					\$ 0.00
Coupons Paid Through 2024-2025					\$ 4,020.00
Interest Earned But Unpaid 6-30-2025:					
Matured					\$ 0.00
Unmatured					\$ 0.00

SINKING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "E"

Schedule 1: Detail of Bond and Coupon Indebtedness as of June 30, 2025 - Not Affecting Homesteads (New)						
PURPOSE OF BOND ISSUE:						2022 Building Bonds (B)
Date Of Issue						7/1/2022
Date Of Sale By Delivery						7/1/2022
HOW AND WHEN BONDS MATURE:						
Uniform Maturities:						
Date Maturity Begins						7/1/2024
Amount Of Each Uniform Maturity						\$ 60,000.00
Final Maturity Otherwise:						
Date of Final Maturity						7/1/2029
Amount of Final Maturity						\$ 70,000.00
AMOUNT OF ORIGINAL ISSUE						\$ 350,000.00
Cancelled, In Judgement Or Delayed For Final Levy Year						\$ 0.00
Basis of Accruals Contemplated on Net Collections or Better in Anticipation:						
Bond Issues Accruing By Tax Levy						\$ 350,000.00
Years To Run						5
Normal Annual Accrual						\$ 70,000.00
Tax Years Run						1
Accrual Liability To Date						\$ 70,000.00
Deductions From Total Accruals:						
Bonds Paid Prior To 6-30-2024						\$ 0.00
Bonds Paid During 2024-2025						\$ 0.00
Matured Bonds Unpaid						\$ 0.00
Balance Of Accrual Liability						\$ 70,000.00
TOTAL BONDS OUTSTANDING 6-30-2025:						
Matured						\$ 0.00
Unmatured						\$ 350,000.00
Coupon Computation:	Coupon Date	Unmatured Amount	% Int.	Months	Interest Amount	
Bonds and Coupons	7/1/2026	\$ 70,000.00	3.350%	12 Mo.	\$ 2,345.00	
Bonds and Coupons	7/1/2027	\$ 70,000.00	3.350%	12 Mo.	\$ 2,345.00	
Bonds and Coupons	7/1/2028	\$ 70,000.00	3.350%	12 Mo.	\$ 2,345.00	
Bonds and Coupons	7/1/2029	\$ 70,000.00	3.350%	12 Mo.	\$ 2,345.00	
Bonds and Coupons				Mo.	\$ 0.00	
Bonds and Coupons				Mo.	\$ 0.00	
Bonds and Coupons				Mo.	\$ 0.00	
Bonds and Coupons				Mo.	\$ 0.00	
Bonds and Coupons				Mo.	\$ 0.00	
Bonds and Coupons				Mo.	\$ 0.00	
Requirement for Interest Earnings After Last Tax-Levy Year:						
Terminal Interest To Accrue						\$ 0.00
Years To Run						0
Accrue Each Year						\$ 0.00
Tax Years Run						0
Total Accrual To Date						\$ 0.00
Current Interest Earned Through 2025-2026						\$ 9,380.00
Total Interest To Levy For 2025-2026						\$ 9,380.00
INTEREST COUPON ACCOUNT:						
Interest Earned But Unpaid 6-30-2024:						
Matured						\$ 0.00
Unmatured						\$ 23,450.00
Interest Earnings 2024-2025						\$ 11,725.00
Coupons Paid Through 2024-2025						\$ 29,312.50
Interest Earned But Unpaid 6-30-2025:						
Matured						\$ 0.00
Unmatured						\$ 5,862.50

SINKING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "E"

Schedule 1: Detail of Bond and Coupon Indebtedness as of June 30, 2025 - Not Affecting Homesteads (New)		Total All Bonds
PURPOSE OF BOND ISSUE:		
HOW AND WHEN BONDS MATURE:		
Uniform Maturities:		
Amount Of Each Uniform Maturity		\$ 120,000.00
Final Maturity Otherwise:		
Amount of Final Maturity		\$ 140,000.00
AMOUNT OF ORIGINAL ISSUE		\$ 410,000.00
Cancelled, In Judgement Or Delayed For Final Levy Year		\$ 0.00
Basis of Accruals Contemplated on Net Collections or Better in Anticipation:		
Bond Issues Accruing By Tax Levy		\$ 410,000.00
Normal Annual Accrual		\$ 70,000.00
Accrual Liability To Date		\$ 130,000.00
Deductions From Total Accruals:		
Bonds Paid Prior To 6-30-2024		\$ 0.00
Bonds Paid During 2024-2025		\$ 60,000.00
Matured Bonds Unpaid		\$ 0.00
Balance Of Accrual Liability		\$ 70,000.00
TOTAL BONDS OUTSTANDING 6-30-2025:		
Matured		\$ 0.00
Unmatured		\$ 350,000.00
Requirement for Interest Earnings After Last Tax-Levy Year:		
Terminal Interest To Accrue		\$ 0.00
Accrue Each Year		\$ 0.00
Total Accrual To Date		\$ 0.00
Current Interest Earned Through 2025-2026		\$ 9,380.00
Total Interest To Levy For 2025-2026		\$ 9,380.00
INTEREST COUPON ACCOUNT:		
Interest Earned But Unpaid 6-30-2024:		
Matured		\$ 0.00
Unmatured		\$ 27,470.00
Interest Earnings 2024-2025		\$ 11,725.00
Coupons Paid Through 2024-2025		\$ 33,332.50
Interest Earned But Unpaid 6-30-2025:		
Matured		\$ 0.00
Unmatured		\$ 5,862.50

SINKING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "E"

Schedule 2: Detail of Judgment Indebtedness as of June 30, 2025 - Not Affecting Homesteads (New)						
Judgments For Indebtedness Originally Incurred After January 8, 1937. (New)						
IN FAVOR OF						TOTAL ALL JUDGMENTS
BY WHOM OWNED						
PURPOSE OF JUDGMENT						
Case Number						
NAME OF COURT						
Date of Judgment						
Principal Amount of Judgment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest Rate Assigned by Court	0.00%	0.00%	0.00%	0.00%	0.00%	
Tax Levies Made	0	0	0	0	0	
Principal Amount Provided for to June 30, 2024	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Principal Amount Provided for in 2024-2025	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
PRINCIPAL AMOUNT NOT PROVIDED FOR	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AMOUNT TO PROVIDE BY TAX LEVY FISCAL YEAR 2025-2026						
Principal 1/3	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
FOR ALL JUDGMENTS REPORTED						
LEVIED FOR BUT UNPAID JUDGMENT OBLIGATIONS						
OUTSTANDING JUNE 30, 2024						
Principal	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
JUDGMENT OBLIGATIONS SINCE LEVIED FOR:						
Principal	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
JUDGMENT OBLIGATIONS SINCE PAID:						
Principal	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
LEVIED BUT UNPAID JUDGMENT OBLIGATIONS						
OUTSTANDING JUNE 30, 2025						
Principal	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

Schedule 3: Prepaid Judgments as of June 30, 2025						
Prepaid Judgments On Indebtedness Originating After January 8, 1937						
NAME OF JUDGMENT						TOTAL ALL PREPAID JUDGMENTS
CASE NUMBER						
NAME OF COURT						
Principal Amount of Judgment	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Tax Levies Made	0	0	0	0	0	
Unreimbursed Balance At June 30, 2024	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Reimbursement By 2024-2025 Tax Levy	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Annual Accrual On Prepaid Judgments	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Stricken By Court Order	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Asset Balance	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

SINKING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "E"

Schedule 4: Sinking Fund Cash Statement		
Revenue Receipts and Disbursements (Fund 41)	SINKING FUND	
	Detail	Extension
Cash on Hand June 30, 2024		\$ 86,426.73
Investments Since Liquidated	\$ 0.00	
COLLECTED AND APPORTIONED:		
Contributions From Other Districts	\$ 0.00	
2023 and Prior Ad Valorem Tax	\$ 5,802.68	
2024 Ad Valorem Tax	\$ 78,648.55	
Miscellaneous Receipts	\$ 981.86	
TOTAL RECEIPTS		\$ 85,433.09
TOTAL RECEIPTS AND BALANCE		\$ 171,859.82
DISBURSEMENTS:		
Coupons Paid	\$ 33,332.50	
Interest Paid on Past-Due Coupons	\$ 0.00	
Bonds Paid	\$ 60,000.00	
Interest Paid on Past-Due Bonds	\$ 0.00	
Commission Paid to Fiscal Agency	\$ 0.00	
Judgments Paid	\$ 0.00	
Interest Paid on Such Judgments	\$ 0.00	
Investments Purchased	\$ 0.00	
Judgments Paid Under 62 O.S. 1981, Sect 435	\$ 0.00	
TOTAL DISBURSEMENTS		\$ 93,332.50
CASH BALANCE ON HAND JUNE 30, 2025		\$78,527.32

Schedule 5: Sinking Fund Balance Sheet		
	SINKING FUND	
	Detail	Extension
Cash Balance on Hand June 30, 2025		\$ 78,527.32
Legal Investments Properly Maturing	\$ 0.00	
Judgments Paid to Recover by Tax Levy	\$ 0.00	
TOTAL LIQUID ASSETS		\$ 78,527.32
DEDUCT MATURED INDEBTEDNESS:		
a. Past-Due Coupons	\$ 0.00	
b. Interest Accrued Thereon	\$ 0.00	
c. Past-Due Bonds	\$ 0.00	
d. Interest Thereon After Last Coupon	\$ 0.00	
e. Fiscal Agent Commission On Above	\$ 0.00	
f. Judgements and Interest Levied for But Unpaid	\$ 0.00	
TOTAL Items a. Through f. (To Extension Column)		\$ 0.00
BALANCE OF ASSETS SUBJECT TO ACCRUALS		\$ 78,527.32
DEDUCT ACCRUAL RESERVES IF ASSETS SUFFICIENT:		
g. Earned Unmatured Interest	\$ 5,862.50	
h. Accrual on Final Coupons	\$ 0.00	
i. Accrued on Unmatured Bonds	\$ 70,000.00	
TOTAL Items g. Through i. (To Extension Column)		\$ 75,862.50
EXCESS OF ASSETS OVER ACCRUAL RESERVES		\$ 2,664.82

Schedule 6: Estimate of Sinking Fund Needs		
	SINKING FUND	
	Computed By Governing Board	Provided By Excise Board
Interest Earnings on Bonds	\$ 9,380.00	\$ 9,380.00
Accrual on Unmatured Bonds	\$ 70,000.00	\$ 70,000.00
Annual Accrual on "Prepaid" Judgments	\$ 0.00	\$ 0.00
Annual Accrual on Unpaid Judgments	\$ 0.00	\$ 0.00
Interest on Unpaid Judgments	\$ 0.00	\$ 0.00
Participating Contributions (Annexations):	\$ 0.00	\$ 0.00
For Credit to School Dist. No.	\$ 0.00	\$ 0.00
For Credit to School Dist. No.	\$ 0.00	\$ 0.00
For Credit to School Dist. No.	\$ 0.00	\$ 0.00
For Credit to School Dist. No.	\$ 0.00	\$ 0.00
Annual Accrual From Exhibit KK	\$ 0.00	\$ 0.00
TOTAL SINKING FUND PROVISION	\$ 79,380.00	\$ 79,380.00

SINKING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "E"

Schedule 7: Ad Valorem Tax Account - Sinking Funds			
ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025		6.505 Mills	
Gross Value	\$	Net Value	\$
	0.00		13,245,462.00
Total Proceeds of Levy as Certified			\$ 86,158.58
Additions:			\$ 0.00
Deductions:			\$ 0.00
Gross Balance Tax			\$ 86,158.58
Less Reserve for Delinquent Tax			\$ 4,102.79
Reserve for Protests Pending			\$ 0.00
Balance Available Tax			\$ 82,055.79
Deduct 2024 Tax Apportioned			\$ 78,648.55
Net Balance 2024 Tax in Process of Collection			\$ 3,407.24
Excess Collections			\$ 0.00

Schedule 8: Sinking Fund Contributions From Other Districts Due To Boundary Changes			
SCHOOL DISTRICT CONTRIBUTIONS		SINKING FUND	
		Actually Received	Provided For in Budget of Contributing School District
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
From School District No.		\$ 0.00	\$ 0.00
TOTALS		\$ 0.00	\$ 0.00

SINKING FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "E"

Schedule 10: Miscellaneous Revenue	2024-25 ACCOUNT
Source	Amount
1000 DISTRICT SOURCES OF REVENUE:	
1200 Tuition & Fees	\$ 0.00
1300 EARNINGS ON INVESTMENTS AND BOND SALES	
1310 Interest Earnings	\$ 176.14
1320 Dividends on Insurance Policies	\$ 0.00
1330 Premium on Bonds Sold	\$ 0.00
1340 Accrued Interest on Bond Sales	\$ 0.00
1350 Interest on Taxes	\$ 0.00
1360 Earnings From Oklahoma Commission on School Funds Management	\$ 0.00
1370 Proceeds From Sale of Original Bonds	\$ 0.00
1390 Other Earnings on Investments	\$ 0.00
TOTAL EARNINGS ON INVESTMENTS AND BOND SALES	\$ 176.14
1400 RENTAL, DISPOSALS AND COMMISSIONS	
1410 Rental of School Facilities	\$ 0.00
1420 Rental of Property Other Than School Facilities	\$ 0.00
1430 Sales of Building and/or Real Estate	\$ 0.00
1440 Sales of Equipment, Services and Materials	\$ 0.00
1450 Bookstore Revenue	\$ 0.00
1460 Commissions	\$ 0.00
1470 Shop Revenue	\$ 0.00
1490 Other Rental, Disposals and Commissions	\$ 0.00
TOTAL RENTAL, DISPOSALS AND COMMISSIONS	\$ 0.00
1500 Reimbursements	\$ 0.00
1600 Other Local Sources of Revenue	\$ 0.00
1700 Child Nutrition Programs	\$ 0.00
1800 Athletics	\$ 0.00
TOTAL DISTRICT SOURCES OF REVENUE	\$ 176.14
2000 INTERMEDIATE SOURCES OF REVENUE:	
2100 County 4 Mill Ad Valorem Tax	\$ 0.00
2200 County Apportionment (Mortgage Tax)	\$ 0.00
2300 Resale of Property Fund Distribution	\$ 0.00
2900 Other Intermediate Sources of Revenue	\$ 0.00
TOTAL INTERMEDIATE SOURCES OF REVENUE	\$ 0.00
3000 STATE SOURCES OF REVENUE:	
3100 Total Dedicated Revenue	\$ 0.00
3200 Total State Aid - General Operations - Non-Categorical	\$ 0.00
3300 State Aid - Competitive Grants - Categorical	\$ 0.00
3400 State - Categorical	\$ 0.00
3500 Special Programs	\$ 0.00
3600 Other State Sources of Revenue	\$ 805.72
3700 Child Nutrition Program	\$ 0.00
3800 State Vocational Programs - Multi-Source	\$ 0.00
TOTAL STATE SOURCES OF REVENUE	\$ 805.72
4000 FEDERAL SOURCES OF REVENUE:	
TOTAL FEDERAL SOURCES OF REVENUE	\$ 0.00
5000 NON-REVENUE RECEIPTS:	
TOTAL NON-REVENUE RECEIPTS	\$ 0.00
GRAND TOTAL	\$ 981.86

CAPITAL PROJECT FUNDS BY ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "G"

Schedule 1: Current Balance Sheet - June 30, 2025	Bond	Fund 31
ASSETS:		Amount
Cash Balances		\$0.00
Investments		\$0.00
TOTAL ASSETS		\$0.00
LIABILITIES AND RESERVES:		
Warrants Outstanding		\$0.00
Reserve for Interest on Warrants		\$0.00
Reserves From Schedule 8		\$0.00
TOTAL LIABILITIES AND RESERVES		\$0.00
CASH FUND BALANCE JUNE 30, 2025		\$0.00
TOTAL LIABILITIES, RESERVES AND CASH FUND BALANCE		\$0.00

Schedule 3: Capital Projects Fund 31 Cash Accounts of Current and all Prior Years		
CURRENT AND ALL PRIOR YEARS	2024-25	2024 & Prior Years
Cash Balance Reported to Excise Board 6-30 of Year in Caption	\$0.00	\$10,122.53
REVENUES, NON-REVENUE RECEIPTS & CASH BALANCES		
1000 DISTRICT SOURCES OF REVENUE (Source 1000 to 1999)	\$0.00	\$0.00
2000 INTERMEDIATE SOURCES OF REVENUE (Source 2000 to 2999)	\$0.00	\$0.00
3000 STATE SOURCES OF REVENUE (Source 3000 to 3999)	\$0.00	\$0.00
4000 FEDERAL SOURCES OF REVENUE (Source 4000 to 4999)	\$0.00	\$0.00
5000 NON-REVENUE RECEIPTS (Source 5000 to 5999)	\$0.00	\$0.00
6000 BALANCE SHEET ACCOUNTS		
6100 CASH ACCOUNTS		
6110 Cash Balances Transferred	\$10,122.53	-\$10,122.53
6130 Prior Year Lapsed Appropriations	\$0.00	
6140 Estopped Warrants	\$0.00	
TOTAL CASH ACCOUNTS	\$10,122.53	-\$10,122.53
6200 Interfund Transfers	\$0.00	
TOTAL BALANCE SHEET ACCOUNTS	\$10,122.53	-\$10,122.53
TOTAL REVENUES, NON-REV RECEIPTS & CASH BALANCES	\$10,122.53	\$0.00
Warrants Paid of Year in Caption	\$10,122.53	\$0.00
TOTAL DISBURSEMENTS	\$10,122.53	\$0.00
CASH & INVESTMENTS BALANCE JUNE 30, 2025	\$0.00	\$0.00
Reserve for Warrants Outstanding	\$0.00	\$0.00
Reserve for Interest on Warrants	\$0.00	\$0.00
Reserves From Schedule 8	\$0.00	\$0.00
TOTAL LIABILITIES AND RESERVE	\$0.00	\$0.00
DEFICIT	\$0.00	\$0.00
CASH FUND BAL FORWARD TO SUCCEEDING YEAR	\$0.00	\$0.00

Schedule 7: Report of Prior Year Warrants Issued From Reserves	FISCAL YEAR ENDING JUNE 30, 2024		
	RESERVES 6/30/24	WARRANTS SINCE ISSUED	BALANCE LAPSED APPROPRIATIONS
TOTAL PRIOR YEAR RESERVES	\$0.00	\$0.00	\$0.00

Schedule 8: Report of Current Year Expenditures	FISCAL YEAR ENDING JUNE 30, 2025		
	WARRANTS ISSUED	RESERVES	TOTAL EXPENDITURES
1000 Instruction	\$10,122.53	\$0.00	\$10,122.53
2000 Support Services	\$0.00	\$0.00	\$0.00
3000 Operation Of Non-Instruction Services	\$0.00	\$0.00	\$0.00
4000 Facilities Acquisition & Construcion Services	\$0.00	\$0.00	\$0.00
5000 Other Outlays	\$0.00	\$0.00	\$0.00
7000 Other Uses	\$0.00	\$0.00	\$0.00
8000 Repayments	\$0.00	\$0.00	\$0.00
TOTAL EXPENDITURES 2024-25 FISCAL YEAR	\$10,122.53	\$0.00	\$10,122.53

CERTIFICATE OF EXCISE BOARD

State of Oklahoma, County of Comanche

We, do further certify that we have examined the statement of estimated needs for the current fiscal year ending June 30, 2025, as certified by the Board of Education of Sterling Public Schools, District Number I-3 of said County and State, and its financial statement for the preceding year, and in so doing we have diligently performed the duties imposed upon this Excise Board by 68 O. S. 2001 Section 3007, by (1) ascertaining that the financial statements, as to the statistics therein contained, reflect the true fiscal condition at the close of the fiscal year, or caused the same to be corrected so to show; (2) struck from the estimate of needs so submitted any items not authorized by law and reduced to the sum authorized by law any items restricted by statute as to the amount lawfully expendable therefor; (3) supplemented such estimate, after appropriate action, by an estimate of needs prepared by this Excise Board to make provision for mandatory functions based upon statistics authoritatively submitted; (4) computed the total means available to each fund in the manner provided, applying the Governing Board's estimate of revenue to be derived from surplus tax of the immediately preceding year and from sources other than ad valorem tax, or reduced such estimate to not less than the lawfully authorized ratio of the several sums realized from such sources during the preceding fiscal year or to such lesser sum as may reasonably be anticipated under altered law or circumstance and using for such determination the basic collections of the preceding year and the ratios on which distribution or apportionment must be made during the ensuing or current year.

To the several and specific purposes of the estimated needs as certified, we have and do hereby appropriate the surplus balances of cash on hand of the prior year, estimates of income from sources other than ad valorem taxation within the limitation fixed by law, and the proceeds of ad valorem tax levy within the number of mills authorized, either by apportionment by the Legislature, allocation by the excise board or by legal election, all of which appropriations are made in so far as the available surpluses, revenues, and levies will permit, except in that we have also provided that, after deducting items consisting of cash and the revenue from all sources other than the 2025 tax and the proceeds of the 2025 tax levy are in excess of the residue of such appropriations, by a sum included for delinquent tax, computed at .0% of such residue. And provided further, if said School District has been ascertained to be a well defined State Aid District, the local budget, as approved and appropriated for, has been applied wholly to its operating accounts.

We further certify that the amount required to be raised from tax, excluding Homesteads, for General Revenue Fund purposes as approved, requires a total ad valorem tax levy of 35.000 Mills. Said levy is within the statutory limit, and if in excess, is within the constitutional limit and has been authorized by a vote of the people of said district, as shown by certificate of the School Board to-wit:

To this District, with valuations shown below, the Excise Board allocated 5.000 Mills, plus 15.000 Mills authorized by the Constitution, plus an emergency levy of 5.000 Mills; plus local support levy of 10.000 Mills; for a total levy for the General Fund of 35.000 Mills.

We further certify that the amount required to be raised for building fund purposes as approved requires a tax levy of 5.000 Mills, and said levy has been certified as authorized by a vote of the people at an election held for that purpose. We further certify that Assessed Values used in computing Mill-vote levies have been applied as certified by the County Assessor.

We further certify that we have examined the within statements of account and estimated needs or requirements of the Governing Board of Sterling Public Schools, School District No. I-3 of said County and State, in relation to the Sinking Fund or Funds thereof, and after finding the same correct or having caused the same to be corrected pursuant to 68 O. S. 2001 Section 3009, have approved the requirements therefor to fulfill the conditions of Section 26 and 28 of Article 10, Oklahoma Constitution, and have made and certified a tax levy therefor to the extent of the excess of said total requirements over the total of items 2, 3, 6, and 12 of Exhibit Y and any other legal deduction, including a reserve of .0% for delinquent taxes.

CERTIFICATE OF EXCISE BOARD
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "Y"					
County Excise Board's Appropriation of Income and Revenue	General Fund	Building Fund	Co-op Fund	Child Nutrition Fund	New Sinking Fund (Exc. Homesteads)
Appropriation Approved and Provision Made	\$ 4,084,430.73	\$ 369,395.13	\$ 0.00	\$ 0.00	\$ 79,380.00
Appropriation of Revenues:					
Excess of Assets Over Liabilities	\$ 640,029.96	\$ 236,182.28	\$ 0.00	\$ 0.00	\$ 2,664.82
Unclaimed Protest Tax Refunds	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Miscellaneous Estimated Revenues	\$ 2,942,204.02	\$ 61,500.00	\$ 0.00	\$ 0.00	None
Est. Value of Surplus Tax in Process	\$ 27,102.56	\$ 3,812.50	\$ 0.00	\$ 0.00	None
Sinking Fund Contributions	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Surplus Building Fund Cash	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Total Other Than 2025 Tax	\$ 3,609,336.54	\$ 301,494.78	\$ 0.00	\$ 0.00	\$ 2,664.82
Balance Required	\$ 475,094.19	\$ 67,900.35	\$ 0.00	\$ 0.00	\$ 76,715.18
Add Allowance for Delinquency	\$ 47,509.42	\$ 6,790.04	\$ 0.00	\$ 0.00	\$ 3,835.76
Total Required for 2025 Tax	\$ 522,603.61	\$ 74,690.39	\$ 0.00	\$ 0.00	\$ 80,550.94
Rate of Levy Required and Certified	-----	-----	-----	-----	5.82 Mills

We further certify that the net assessed valuation of the Property, subject to ad valorem taxes, after the amount of all Homestead Exemptions have been deducted in the said School District as finally equalized and certified by the Board of Equalization for the current year 2025-2026 is as follows:

VALUATION AND LEVIES EXCLUDING HOMESTEADS					
County		Real	Personal	Public Service	Total
This County	Comanche	\$ 10,571,822	\$ 665,186	\$ 1,344,242	\$ 12,581,250
Joint County	Grady	\$ 735,196	\$ 138,385	\$ 1,324	\$ 874,905
Joint County	Stephens	\$ 366,124	\$ 8,482	\$ 170	\$ 374,776
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Joint County		\$ 0	\$ 0	\$ 0	\$ 0
Total Valuations, All Counties		\$ 11,673,142	\$ 812,053	\$ 1,345,736	\$ 13,830,931

The assessed valuations herein certified have been used in computing the rates of mill levies and the proceeds thereof appropriated as aforesaid; and that having ascertained as aforesaid, the aggregate amount to be raised by ad valorem taxation, be raised by ad valorem taxation, we thereupon made the above levies therefor as provided by law as follows:

CERTIFICATE OF EXCISE BOARD
ESTIMATE OF NEEDS FOR 2025-2026

EXHIBIT "Y" Continued:		Primary County And All Joint Counties				
Levies Required and Certified:		Valuation And Levies Excluding Homesteads			Total Required For 2025 Tax	
County		General Fund	Building Fund	Total Valuation	General	Building
This County	Comanche	37.85 Mills	5.41 Mills	\$ 12,581,250	\$ 476,200	\$ 68,065
Joint Co.	Grady	37.48 Mills	5.35 Mills	\$ 874,905	\$ 32,791	\$ 4,681
Joint Co.	Stephens	36.32 Mills	5.19 Mills	\$ 374,776	\$ 13,612	\$ 1,945
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Joint Co.		0.00 Mills	0.00 Mills	\$ 0	\$ 0	\$ 0
Totals				\$ 13,830,931	\$ 522,604	\$ 74,690

Sinking Fund: 5.82 Mills

We do hereby order the above levies to be certified forthwith by the Secretary of this Board to the County Assessor of said County, in order that the County Assessor may immediately extend said levies upon the Tax Rolls for the year 2025 without regard to any protest that may be filed against any levies, as required by 68 O. S. 2001, Section 2869.

Signed at _____, Oklahoma, this _____ day of _____, _____

Excise Board Member

Excise Board Chairman

Excise Board Member

Excise Board Secretary

Joint School District Levy Certification for Sterling Public Schools I-3

Career Tech District Number _____: General Fund _____

Building Fund _____

State of Oklahoma)

) ss

County of Comanche)

I, _____, Comanche County Clerk, do hereby certify that the above levies are true and correct for the taxable year 2025.

Witness my hand and seal, on _____, _____.

Comanche County Clerk

ALL FUND ACCOUNTS COVERING THE PERIOD JULY 1, 2024 TO JUNE 30, 2025
STATISTICAL DATA FOR 2025-2026

EXHIBIT "Z"

**Schedule 1: SUMMARY RECAPITULATION OF SCHOOL COSTS FOR THE FISCAL YEAR ENDING JUNE 30, 2025, AND
APPORTIONMENT THEREOF**

CLASSIFICATION	ACCUMULATION OF EXPENDITURES AND UNLIQUIDATED COMMITMENTS TO DETERMINE PER CAPITA COSTS					
	GENERAL REVENUE FUND	CHILD NUTRITION FUND	BUILDING FUND	SINKING FUND	SPECIAL REVENUE FUNDS	CAPITAL PROJECT FUNDS
Current Exp. - Educational	\$ 3,059,201.14	\$ 0.00	\$ 144,919.55	\$ 0.00	\$ 0.00	\$ 0.00
Current Exp. - Transportation	\$ 110,573.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Current Res. - Educational	\$ 3,327.40	\$ 0.00	\$ 5,000.00	\$ 0.00	\$ 0.00	\$ 0.00
Current Res. - Transportation	\$ 262.74	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Capital Exp. - Educational	\$ 0.00	\$ 0.00	\$ 59,216.24	\$ 60,000.00	\$ 0.00	\$ 0.00
Capital Exp. - Transportation	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Capital Res. - Educational	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Capital Res. - Transportation	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest Paid and Reserved	\$ 0.00	\$ 0.00	\$ 0.00	\$ 33,332.50	\$ 0.00	\$ 0.00
TOTALS	\$ 3,173,364.31	\$ 0.00	\$ 209,135.79	\$ 93,332.50	\$ 0.00	\$ 0.00

Enumeration	0.00	Average Daily Attendance	0.00	Average Daily Haul	0.00
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Expenditures and Reserves	ENTERPRISE FUNDS	ACTIVITY FUNDS	EXPENDABLE TRUST FUNDS	NON- EXPENDABLE TRUST FUNDS	INTERNAL SERVICE FUNDS
Current Expenditures - Educational	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Current Expenditures - Transportation	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Current Reserves - Educational	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Current Reserves - Transportation	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Capital Expenditures - Educational	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Capital Expenditures - Transportation	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Capital Reserves - Educational	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Capital Reserves - Transportation	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Interest Paid and Reserved	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
TOTALS	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

Per Capita Cost for:	Education	\$ 0.00	Transportation	\$ 0.00
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Expenditures and Reserves	TOTAL OF ALL APPLICABLE COSTS 2024-2025	OPERATION COSTS ONLY	TRANSPORTATION COSTS ONLY
Current Expenditures - Educational	\$ 3,204,120.69	\$ 3,204,120.69	\$ 0.00
Current Expenditures - Transportation	\$ 110,573.03	\$ 0.00	\$ 110,573.03
Current Reserves - Educational	\$ 8,327.40	\$ 8,327.40	\$ 0.00
Current Reserves - Transportation	\$ 262.74	\$ 0.00	\$ 262.74
Capital Expenditures - Educational	\$ 119,216.24	\$ 119,216.24	\$ 0.00
Capital Expenditures - Transportation	\$ 0.00	\$ 0.00	\$ 0.00
Capital Reserves - Educational	\$ 0.00	\$ 0.00	\$ 0.00
Capital Reserves - Transportation	\$ 0.00	\$ 0.00	\$ 0.00
Interest Paid and Reserved	\$ 33,332.50	\$ 33,332.50	\$ 0.00
TOTALS	\$ 3,475,832.60	\$ 3,364,996.83	\$ 110,835.77

**Sterling Public Schools
2025-26 Budget Summary
General Fund**

CODE	SOURCE	2025-26 Estimated Revenue
1110	Ad Valorem Tax-current	475,094.19
1120	Ad Valorem Tax-prior	27,102.56
1130	Revenue In Lieu of Taxes	4,000.00
1300	Interest	3,000.00
1400	Rental, Disposals, and Commissions	500.00
1500	Reimbursements	25,000.00
1600	Other Local Sources	5,000.00
1700	Child Nutrition Local Sources	41,392.74
2100	4-Mill Levy	47,315.17
2200	Mortgage Tax	9,994.04
3110	Gross Production Tax	310.25
3120	Motor Vehicle Collections	130,528.10
3130	R.E.A. Tax	90,012.21
3140	State School Land Earnings	56,568.15
3150	Vehicle Tax Stamps	230.09
3210	Foundation & Salary Incentive	1,716,269.03
3250	Flexible Benefit	297,579.00
3400	State - Categorical - Textbooks	20,180.62
3400	State - Categorical - Reading Sufficiency	6,000.00
3400	State - Categorical - Resource Officer	92,000.00
3600	Other State Sources (ACE)	4,000.00
3700	Child Nutrition State Sources	1,614.11
3800	Vocational - State	33,720.00
4100	Indian Education	12,307.00
4100	Impact Aid	2,000.00
4100	Small, Rural School Ach. Program	33,000.00
4200	Title I, Part A	50,000.00
4200	Title II, Part A	10,000.00
4300	IDEA-B Flowthrough	67,283.39
4300	IDEA-B Pre-School	2,040.65
4300	IDEA-B Prof Dev	500.00
4400	Title IV, Part A	10,000.00
4400	Title IV, Part A - Stronger Connections Grant	36,286.31
4700	Child Nutrition Federal Sources - Lunches	85,894.56
4700	Child Nutrition Federal Sources - Breakfast	31,761.26
4700	Child Nutrition Federal Sources - Other	917.34
5000	Non-Revenue Receipts	15,000.00
Total Revenue Estimates		3,444,400.77
Fund Balance, 7-01-25		640,029.96
TOTAL 2025-26 APPROPRIATIONS		\$ 4,084,430.73

Note - The above appropriation amount is the maximum amount that you can legally obligate your school district encumbrances and payments. If you exceed this amount, you must add to your appropriations.