Owasso Public Schools
Owasso Board of Education Regular Meeting
Independent School District No. 11
Tulsa County, Oklahoma

As required by Section 311, Title 25 of the Oklahoma Statutes, notice is hereby given that the Board of Education of Independent School District No. 11, Tulsa County, Oklahoma will hold Owasso Board of Education Regular Meeting on Monday, November 9, 2026, at 5:30 PM, Board of Education Conference Room of the Dale C. Johnson Education Service Center, 1501 N Ash St., Owasso, Oklahoma 74055
Meeting Link: https://youtube.com/live/w6ylBCKUBwI

I. **Call to Order and Roll Call**
II. **Special Recognition/Pledge of Allegiance** - Ms. Gina Metcalf, Ollie Anderson and Eleanor Taylor
III. **Special Recognition** - All State Jazz Chorus - Dr. Chris Barber and Ms. Mindy Bettridge
IV. **Reports to the Board**
   A. Superintendent - Dr. Margaret Coates
   B. Teaching and Learning - Mr. Mark Officer
   C. District Services - Mr. Kerwin Koerner
   D. Continuous Strategic Improvement (CSI) - Goal Area #4 Ram Resources (Mr. Kerwin Koerner)
V. **Comments from the Public Regarding Agenda Items**
   Each individual will have five (5) minutes to share their remarks related to the specific agenda item identified by the individual when signing up to speak. Board members will not respond to public comment or answer questions posed during public comment. The total time allotted to comments from the public regarding the agenda will not exceed fifteen (15) minutes.
VI. **Consent Agenda:** Board to consider and take possible action on the following consent agenda items. (Dr. Coates)
   A. Minutes of October 5, 2026
   B. Minutes of October 21, 2026
   C. Teaching and Learning
      i. Out of State Student Activity Trips
      ii. Agreement with The University of Tulsa, to provide clinical rotations in the interest of Speech Language Pathology students for the 2026-2027 school year at no cost to the District and authorize the Superintendent or designee to execute the Agreement
   D. Finance
      i. Purchase orders (encumbrances) and changes to encumbrances for October 2026
      ii. Activity Financial Report for October 2026
      iii. Activity Account Budgets
   E. Human Resources

i. Transitions

VII. **Teaching and Learning** - Mark Officer
   A. Board to consider and take possible action on the Purchase Agreement with Solution Tree for professional development on the topic of Transforming School Culture for the 2026-2027 school year at a cost of $9,200.00, as outlined in the attachment and authorize the Superintendent or designee to execute the Agreement
   B. Board to consider and take possible action on the Concurrent Enrollment Agreement with Rogers State University for Owasso HS students to participate in the Concurrent Enrollment Program for the 2026-2027 school year at a cost of $0 to the school district, as outlined in the attachment and authorize the Superintendent or designee to execute the Agreement

VIII. **District Services -** Kerwin Koerner
   A. Board to consider and take possible action on the City of Owasso Hazardous Mitigation Plan
   B. Board to consider and take possible action on the Chase Morris Sudden Cardiac Arrest Response Plans for school sites as outlined in the attachments

IX. **Finance** - Phillip Storm
   A. Board to consider and take possible action on the Treasurer's Report for October 2026
   B. Board to consider and take possible action on the proposed edits, changes, and additions to policy #4.01 as outlined in the attachment

X. **Human Resources** - Lisa Johnson
   A. Board to consider and take possible action on a Memorandum of Understanding with Owasso Education Association to add Oklahoma Teacher Empowerment Program (OTEP) grant funding to extra-duty stipends for the roles listed in the attachment for the 2026-2027 School Year

XI. **New Business**

XII. **Vote to Adjourn**

This agenda was posted prior to 5:30p.m. on Friday, November 6, 2026, at the entrance of the Board of Education Room, located in the Dale C. Johnson Education Service Center, Owasso Public Schools, 1501 N. Ash, Owasso, Oklahoma.

OWASSO PUBLIC SCHOOL BOARD OF EDUCATION

Renae Klein, Clerk

Owasso Board of Education
Regular Meeting
Monday, October 5, 2026 5:30 PM

Board of Education Conference Room of the Dale C. Johnson Education Service Center
1501 N Ash St.
Owasso, Oklahoma 74055

I. **Call to Order and Roll Call**
Attendance Taken at 5:30 PM.

Brent England:	Absent
Neal Kessler:	Present
Rhonda Mills:	Present
Stephanie Ruttman:	Present
Forrest Turpen:	Present

II. **Special Recognition/Pledge of Allegiance** - Mr. Matt Roberts, Harlan Leedy and Hugh Barber

III. **Special Recognition** - Owasso Varsity Cheer - Competitive State Champions - Mr. Zach Duffield

IV. **Reports to the Board**

A. Superintendent - Dr. Margaret Coates

B. Teaching and Learning - Mr. Mark Officer

C. District Services - Mr. Kerwin Koerner

D. Continuous Strategic Improvement (CSI) - Goal Area #3 Ram Community and Culture - Mr. Zach Duffield

V. **Comments from the Public Regarding Agenda Items**
Each individual will have five (5) minutes to share their remarks related to the specific agenda item identified by the individual when signing up to speak. Board members will not respond to public comment or answer questions posed during public comment. The total time allotted to comments from the public regarding the agenda will not exceed fifteen (15) minutes.
There were no comments from the public regarding agenda items.

VI. **Consent Agenda:** Board to consider and take possible action on the following consent agenda items. (Dr. Coates)
Motion to approve Consent Agenda items. This motion, made by Stephanie Ruttman and seconded by Forrest Turpen, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

A. Minutes of September 14, 2026 Regular Meeting

B. Teaching and Learning

i. Out of State Student Activity Trips

ii. Field Placement Affiliation Agreement with Grand Canyon University to provide Student Teaching Internships for the 2026-2027 school year at no cost, as outlined in the attachment and authorize the Superintendent or designee to execute the Agreement

C. Finance

i. Purchase orders (encumbrances) and changes to encumbrances for September 2026
2026-2027 General Fund #664-789 (Vendors) $113,705.81
2026-2027 Building Fund #70 (Vendors) $4,000.00
2026-2027 Child Nutrition Fund #33-35 (Vendors) $17,800.00
2026-2027 Bond Fund 31 #206-228 (Vendors) $215,663.78
2026-2027 Bond Fund 05-BOK #60-62 (Vendors) $45,312,308.79

ii. Activity Financial Report for September 2026

iii. Activity Account Budgets

iv. Advertising Agreement with Dental Depot for the 2026-2027 school year at a donation of $2,000, as outlined in the attachment and authorize the Superintendent or designee to execute the Agreement

v. License Agreement with Pel Industries, Inc. for a non-exclusive license to print our school logo on merchandise and to sell such merchandise to retail customers for the 2026-27 school year at a cost of a 10% royalty on net sales price, as outlined in the attachment and authorize the Superintendent or designee to execute the License Agreement

D. Human Resources

i. Transitions

VII. **Communications/Superintendent** - Dr. Margaret Coates

A. Board to consider and take possible action on the 2027 School Board Election Resolution
Motion to approve the 2027 School Board Election Resolution. This motion, made by Neal Kessler and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

VIII. **Teaching and Learning** -Mark Officer

A. Board to consider and take possible action on the proposed edits, changes and additions to Policy #5.46 as outlined in the attachment

Motion to approve the proposed edits, changes and additions to Policy #5.46 as outlined in the attachment. This motion, made by Stephanie Ruttman and seconded by Forrest Turpen, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

B. Board to consider and take possible action on the Contract with ARUX for SPARK enrollment and tuition processing software for the 2026-2027 school year at a cost of $849 per month, as outlined in the attachment and authorize the Superintendent or designee to execute the Contract

Motion to approve the Contract with ARUX for SPARK enrollment and tuition processing software for the 2026-2027 school year at a cost of $849 per month, as outlined in the attachment and authorize the Superintendent or designee to execute the Contract. This motion, made by Forrest Turpen and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

C. Board to consider and take possible action on the Memorandum of Understanding with Youth Medical Membership, Inc. to speak with students to support career exploration and student awareness of health professions and pathways for the 2026-2027 school year at a cost of $-0-, as outlined in the attachment and authorize the Superintendent or designee to execute the MOU

Motion to approve the Memorandum of Understanding with Youth Medical Mentorship, Inc. to speak with students to support career exploration and student awareness of health professions and pathways for the 2026-2027 school year at a cost of $-0-, as outlined in the attachment and authorize the Superintendent or designee to execute the MOU. This motion, made by Neal Kessler and seconded by Forrest Turpen, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

IX. **Technology** - Dr. Michelle Baker

A. Board to consider and take possible action on the Owasso Public Schools Distance Learning Framework to be utilized as the virtual instructional plan if the need arises within the 2027-2028 school year
Motion to approve the Owasso Public Schools Distance Learning Framework to be utilized as the virtual instructional plan if the need arises within the 2027-2028 school year. This motion, made by Stephanie Ruttman and seconded by Forrest Turpen, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

X. **Finance** - Phillip Storm

A. Board to consider and take possible action on the Treasurer's Report for September 2026
Motion to approve the Treasurer's report for September 2026. This motion, made by Forrest Turpen and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

B. Board to consider and take possible action on the proposed Operating Budget for fiscal year 2026-27 as presented in the attachment
Motion to approve the proposed Operating Budget for fiscal year 2026-27 as presented in the attachment. This motion, made by Neal Kessler and seconded by Forrest Turpen, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

C. Board to consider and take possible action on the proposed edits, changes, and additions to policy #4.04 as outlined in the attachment

Motion to approve the proposed edits, changes, and additions to policy #4.04 as outlined in the attachment. This motion, made by Neal Kessler and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

D. Board to review Policy #4.01 for first reading. Edits, changes, and additions to the policy are outlined in the attachment

XI. **New Business**

There was no new business.

XII. **Vote to Adjourn**

Motion to adjourn at 6:31p.m. This motion, made by Neal Kessler and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Yea

Yea: 4, Nay: 0, Absent: 1

Owasso Board of Education
Special Meeting
Wednesday, October 21, 2026 1:00 PM

Board of Education Conference Room of the Dale C. Johnson Education Service Center
1501 N Ash St.
Owasso, Oklahoma 74055

I. **Call to Order and Roll Call**

Attendance Taken at 1:00 PM.

Brent England:	Absent
Neal Kessler:	Present
Rhonda Mills:	Present
Stephanie Ruttman:	Present
Forrest Turpen:	Absent

II. **Executive Session**

A. Vote to convene into executive session to hear evidence and discuss the suspension of a minor student whereby disclosure of any additional information would violate the Family Educational Rights and Privacy Act (FERPA) authorized by Okla.Stat.Tit.25§307(B)(5) and (B)(7)

Motion at 1:08p.m. to convene into executive session to hear evidence and discuss the suspension of a minor student whereby disclosure of any additional information would violate the Family Educational Rights and Privacy Act (FERPA). This motion, made by Neal Kessler and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Absent

Yea: 3, Nay: 0, Absent: 2

B. Acknowledge return to Open Session

Acknowledge return to Open Session at 2:16p.m.

C. Statement of Executive Session Minutes

During the executive session, the members of the Board of Education who were present were Rhonda Mills, Neal Kessler and Stephanie Ruttman. Also present during the executive session was Dr. Margaret Coates, Mr. Mark Officer, Ms. Tiffany Cooper and Ms Gina Hailey. During the executive session board members discussed the suspension of a minor student. Nothing else was discussed and no votes were taken. This will constitute the minutes of the executive session.

III. Board to consider and take possible action to accept, reject or amend the recommendation of the administration with regard to the suspension of minor student A.

Motion to accept the recommendation of the administration with regard to the suspension of minor student A. This motion, made by Neal Kessler and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Absent

Yea: 3, Nay: 0, Absent: 2

IV. **Vote to Adjourn**

Motion to adjourn at 2:17p.m. This motion, made by Neal Kessler and seconded by Stephanie Ruttman, passed.

Brent England:	Absent
Neal Kessler:	Yea
Rhonda Mills:	Yea
Stephanie Ruttman:	Yea
Forrest Turpen:	Absent

Yea: 3, Nay: 0, Absent: 2

November 9, 2026 Overnight/Out of State Student Activity Requests

- **November 12-13, 2026 - OSSAA Cheer Gameday State - OHS Varsity Cheer - Moore, OK**
- **November 12-13, 2026 - OSSAA Pom Gameday State - OHS Varsity Pom - Moore, OK**
- **December 10-13, 2026 - Women of Ironman Wrestling Tournament - OHS Girls Wrestling - Cuyohoga Falls, OH**
- **December 17-19, 2026 - Kansas City Stampede Wrestling Tournament - OHS Varsity Wrestling - Kansas City, MO**
- **February 5-6, 2027 - University of Arkansas Saxophone Workshop - OHS Saxophone Ensemble - Fayetteville, AR**
- **February 18-20, 2027 - OSSAA 6A Swim State - OHS Swim - Edmond, OK**

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CLINICAL ROTATION AGREEMENT

between

OWASSO PUBLIC SCHOOLS

and

THE UNIVERSITY OF TULSA

THIS AGREEMENT is made and entered into as of **November 01, 2026** between The University of Tulsa (the "School"), and **Owasso Public Schools**, (the "Facility").

1. Clinical Rotations. The School shall arrange clinical rotation experience ("Clinical Rotations") for Speech Language Pathology students ("Students") at the Facility. The School and the Facility shall mutually determine the scope of the Clinical Rotation programs, the schedule of student assignments and the number of Students who may participate in the Clinical Rotations.

2. Term. The term of this Agreement shall be for the period of the Clinical Rotations, approximately one (1) year, commencing **Novemer 1, 2026** and ending **June 30, 2027** unless terminated earlier as provided in this Agreement. After the initial term, this Agreement shall continue in effect for additional periods of one year each unless one party notifies the other at least 90 days prior to the end of the initial term or any extended term of its intent to terminate this Agreement at the end of such term, in which event this Agreement shall terminate at the end of the then-current term. However, notification by a party of its intent not to renew shall not affect students currently enrolled and participating in Clinical Rotations.

3. Responsibilities of the School.

a. The School shall designate a School employee or another individual retained by the School (the "Clinical Instructor") to serve as the coordinator for the Clinical Rotations to work directly with Facility personnel and coordinate all the activities of Students.

b. The School shall designate one or more of its instructors or faculty members ("Instructors") to instruct and supervise Students during the Clinical Rotations.

c. The School shall provide a roster of the names of the Clinical Instructors, Instructors and Students (the "Roster"), along with a rotation schedule, to the coordinator at the Facility before the Clinical Rotations begin.

d. For each Instructor and Student who will participate in the Clinical Rotations, the School shall provide to the Facility verification of the following immunizations and tests: (i) a complete Hepatitis B vaccination series (series of three or waiver); (ii) negative PPD or chest x-ray; (iii) MMR vaccination(s) or positive titer(s); (iv) a written verification of varicella history,

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varicella vaccination or a varicella titer by a physician or a physician's designee; (v) influenza vaccination or waiver, (vi) tdap immunization, (vii) a background check, (viii) negative drug screening, and (ix) depending on the COVID-19 positivity rate in our community, student may be required to show proof of COVID-19 vaccination or negative test within the 10 days until further notice.

d. The School shall require that each Student and Instructor before beginning the Clinical Rotations have current CPR certification that meets standards acceptable to the Facility.

e. The School shall instruct Students that they are not permitted to accept orders from physicians or other health care professional in person or by telephone or call a physician or physician's office to obtain an order.

f. The School shall require Students to have transportation to and from the Facility, to arrive and depart promptly, and to park in areas designated by the Facility.

g. The School shall be responsible for all actions, activities and affairs of Students, the Clinical Instructor and all Instructors during the Clinical Rotations to the extent required by law.

h. The School shall be responsible for planning and implementing the educational program, including administration, programming, curriculum content, books and materials, faculty appointments, eligibility and admission criteria, Student selection, matriculation, promotion, graduation, Student performance evaluation, Instructor performance evaluation, references and all academic aspects of the Clinical Rotation programs.

4. Responsibilities of the Facility.

a. The Facility shall designate a Facility employee to serve as its coordinator (the "Facility Coordinator") for the Clinical Rotations and to work directly with the Clinical Instructor and Instructors to plan and coordinate the Clinical Rotations. The Facility may also designate one or more employees to serve as Clinical Instructors.

b. The Facility shall provide the Clinical Instructor with copies of the Facility's policies, rules, regulations and procedures that are applicable to Students' and Instructors' participation in the Clinical Rotations.

c. The Facility shall provide an orientation to the Clinical Instructor that includes a tour of the Facility and addresses any facilities or procedures of a particular Facility department pertinent to the Clinical Rotations.

d. The Facility shall permit Students and Instructors to assist in the provision of Speech Language Pathology or other ancillary health care services to Facility patients, but the Facility may restrict their activities, including any patient care activities, at the Facility.

e. The Facility shall provide parking in designated areas for Students and Instructors.

Docusign Envelope ID: FFA9C3C4-AF65-8C53-805E-04E039B08422

f. The Facility shall permit the School and its accreditation agencies to visit, tour and inspect the Facility's facilities and records relating to the Clinical Rotations on reasonable notice during the Facility administration's regular business hours, subject to requirements of patient confidentiality, legal compliance requirements of the Facility, and minimizing disruption or interference with Facility operations, including patient care activities.

g. The Facility shall make its classrooms, conference rooms and library facilities available to the School for the Clinical Rotations, without charge, subject to availability and Facility policies regarding use of its facilities.

h. The Facility shall make available emergency care and treatment to Students and Instructors, as necessary, subject to its usual charges.

5. Conflicts and Removal of Students or Instructors. If a conflict arises between an employee of the Facility, on the one hand, and an Instructor or Student, on the other, the Clinical Instructor and Facility Coordinator shall intervene in an attempt to resolve the matter. The Facility may require that the School immediately remove a Student or Instructor from a Clinical Rotation when the Facility believes that the individual exhibits inappropriate behavior, is disruptive, does not comply with Facility rules or policies, or poses a threat to the health, safety or welfare of a patient, employee or any other person.

6. Representations and Warranties of the School. The School represents and warrants to, and covenants with, the Facility as follows:

a. Each Student is currently enrolled at the School. Students who are under 18 years of age have obtained written permission of a parent or guardian to participate in the Clinical Rotation; if the Student is an emancipated minor, then the Student has furnished written authorization to participate in the Clinical Rotation.

b. Students are required to wear uniforms with name badges issued by the School, be well-groomed and make a neat appearance while at the Facility.

c. A Student may perform duties and procedures for which he or she has been prepared academically, but not any others.

d. The School shall continuously monitor and evaluate the competence and performance of each Student and shall remove from a Clinical Rotation any Student who is not competent or qualified to participate in the Clinical Rotation.

e. The Instructors are duly licensed to practice Speech Language Pathology in Oklahoma; the license of each Instructor is unrestricted; and each Instructor must keep his or her license current, in good standing and unrestricted during the entire term of this Agreement.

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f. The Instructors are experienced, qualified and currently competent to provide the services that are required of them for the Clinical Rotations and any services required of them under this Agreement.

g. The School has provided the Clinical Instructor, Instructors and Students with training on the Facility's policies and procedures with respect to protected health information that is necessary and appropriate for them to carry out the activities contemplated by this Agreement as required by applicable provisions of the Health Information Portability and Accountability Act of 1996 and regulations.

h. The School has not been excluded, debarred, or otherwise made ineligible to participate in any federal healthcare program as defined in 42 USC § 1320a-7b(f).

i. All information that has been furnished to the Facility concerning the School, Students and Instructors is true and correct in all respects.

j. All representations and warranties in this Agreement shall remain true and correct during the term of this Agreement. If any of the representations and warranties become inaccurate in any way, the School shall immediately notify the Facility.

7. Employees of the School. Other than any Facility employee designated as an Instructor as permitted in this Agreement, the School, and not the Facility, is the employer of the Instructors and Clinical Instructors. The School shall be responsible for (a) the compensation and benefits payable and made available to the Instructors and Clinical Instructors, and (b) withholding any applicable federal and state taxes and other payroll deductions as required by law.

8. Insurance Coverage.

a. Institutions That Are Not State-Operated. This provision is applicable to Schools that are not owned and operated by the State of Oklahoma. During the term of this Agreement, the School shall continuously maintain for itself and for Students and Instructors professional liability insurance in the minimum amount of $1,000,000 per occurrence and $3,000,000 in the aggregate, and with such coverages as may be acceptable to the Facility. Upon request, the School shall provide a certificate of insurance to the Facility evidencing such coverage and shall notify the Facility immediately if any adverse change in coverage occurs for any reason. The policy shall provide that it may not be cancelled or terminated without giving the Facility at least 30 days advance notice of cancellation or termination. The Facility shall maintain insurance in amounts sufficient to cover its responsibilities under this Agreement.

9. Termination.

a. Termination for Cause. The Facility may immediately terminate this Agreement for cause upon notice to the School upon the occurrence of any of the following events: (i) the failure of the School to maintain insurance coverage as required by this Agreement;

Docusign Envelope ID: FFA9C3C4-AF65-8C53-805E-04E039B08422

or (ii) the School fails to bar a Student from participating in a Clinical Rotation after the Facility has informed the School to remove a Student for reasons permitted under this Agreement.

b. Termination for Material Breach. If either party defaults by the failure to comply in all material respects with the terms of this Agreement, the other party may terminate this Agreement by giving at least 30 days prior written notice to the defaulting party, specifying in reasonable detail the nature of the default, unless the defaulting party remedies the default within the 30 day period. This provision shall not constitute an election of remedies by either party, and each party shall have and retain all rights and remedies that may be available at law or in equity in the event of breach or default by the other party.

10. Responsibility for Actions. Each party shall be responsible for its own acts and omission and the acts and omissions of its employees, officers, directors and affiliates. A party shall not be liable for any claims, demands, actions, costs expenses and liabilities, including reasonable attorneys' fees, which may arise in connection with the failure of the other party or its employees, officers, directors, or agents to perform any of their obligations under this Agreement. If the School is an agency or institution of the State of Oklahoma, the School's liability shall be governed by the Oklahoma Governmental Tort Claims Act.

11. Disclaimer of Intent to Become Partners. The Facility and the School shall not by virtue of this Agreement be deemed to be partners or joint venturers. Neither party shall incur any financial obligation on behalf of the other.

12. Notices. Any and all notices, consents or other communications by one party intended for the other shall be deemed to have been properly given if in writing and personally delivered, transmitted by electronic means, or deposited in the United States first class mails, postpaid, to the addresses or numbers set forth below the signatures of the parties.

13. Confidentiality. The School shall, and the School must require Clinical Instructors, Instructors and Students to, keep confidential and not divulge to anyone else any of the proprietary, confidential information of the Facility, including patient information, unless such information (a) is or becomes generally available to the public other than as a result of disclosure by the School or any of the Students, or (b) is required to be disclosed by law or by a judicial, administrative or regulatory authority. The School, Clinical Instructors, Instructors and Students shall not use such information except as required to provide patient care services in the Clinical Rotations.

14. HIPAA Compliance.

a. The School must, and the School shall require the Clinical Instructors, Instructors and Students to, appropriately safeguard the protected health information of patients, in accordance with applicable provisions of the Health Insurance Portability and Accountability Act of 1996, as it may be amended from time to time ("HIPAA") and applicable law. Instructors and Students may use and disclose protected health information solely for the education and treatment purposes contemplated by this Agreement.

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b. With respect to information obtained or received from the Facility, the School shall: (i) not use or further disclose the information other than as permitted or required by this Agreement or as required by law; (ii) use appropriate safeguards to prevent use or disclosure of the information other than as provided for by this Agreement; (iii) report to the Facility any use or disclosure of the information not provided for by this Agreement of which the School becomes aware; and (iv) require that any agents, including a subcontractor, to whom the School provides protected health information received from, or created or received by the School on behalf of, the Facility agrees to the same restrictions and conditions that apply to the Facility with respect to such information.

15. FERPA. In the course of this Agreement, the Provider Institution may have access to records of the COLLEGE that are "education records" as defined by and protected under the Family Educational Rights and Privacy Act, 20 U.S.C. 1232g, et seq., and the regulations promulgated there under ("FERPA"). Such records are confidential. To the extent that the Provider Institution or its personnel have access to "education records" under this Agreement, they are deemed a "school official," as each of these terms are defined under FERPA. The Provider Institution agrees not to use education records for any purpose other than in the performance of this Agreement. Except as required by law, the Provider Institution will not disclose or share education records with any third party unless permitted by the terms of this Agreement.

16. Rights in Property. All supplies, fiscal records, patient charts, patient records, medical records, X-rays, computer-generated reports, pharmaceutical supplies, drugs, drug samples, memoranda, correspondence, instruments, equipment, furnishings, accounts and contracts of the Facility shall remain the sole property of the Facility.

17. Non-Discrimination. Except to the extent permitted by law, the Facility, the School, Instructors and Students shall not discriminate on the basis of race, color, creed, sex, age, religion, national origin, disability or veteran's status in the performance of this Agreement. As applicable to the School, the provisions of Executive Order 11246, as amended by EO 11375 and EO 11141 and as supplemented in Department of Labor regulations (41 CFR Part 60 et. Seq.) are incorporated into this Agreement and must be included in any subcontracts awarded involving this Agreement. The School represents that, except as permitted by law, all services are provided without discrimination on the basis of, race, color, creed, sex, age, religion, national origin, disability or veteran's status; that it does not maintain nor provide for its employees any segregated facilities, nor will the School permit its employees to perform their services at any location where segregated facilities are maintained. In addition, the School agrees to comply with Section 504 of the Rehabilitation Act and the Vietnam Era Veteran's Assistance Act of 1974, 38 U.S.C. Section 4212.

18. Facility Policies and Procedures. The School shall, and the School must require Instructors and Students to, comply with the policies, rules, and regulations of the Facility as provided to the School by the Facility.

19. Severability. The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision.

Docusign Envelope ID: FFA9C3C4-AF65-8C53-805E-04E039B08422

20. No Assignment. Neither party may assign its rights or delegate its duties under this Agreement without the prior written consent of the other.

21. Binding Effect. This Agreement shall be binding upon, and shall inure to the benefit of, the parties and their respective legal representatives, successors and permitted assigns.

22. Governing Law. This Agreement shall be governed by, and construed in accordance with, the laws of the State of Oklahoma.

23. Rights Cumulative; No Waiver. No right or remedy conferred in this Agreement upon or reserved to the Facility is intended to be exclusive of any other right or remedy. Each and every right and remedy shall be cumulative and in addition to any other right or remedy provided in this Agreement. The failure by either the Facility or the School to insist upon the strict observance or performance of any of the provisions of this Agreement or to exercise any right or remedy shall not impair any such right or remedy or be construed as a waiver or relinquishment with respect to subsequent defaults.

24. No Third-Party Beneficiaries. This Agreement is not intended to confer any right or benefit upon, or permit enforcement of any provision by, anyone other than the parties to this Agreement.

25. Entire Agreement. This Agreement constitutes the entire understanding and agreement of the parties with respect to its subject matter and cannot be changed or modified except by another agreement in writing signed by the parties.

Docusign Envelope ID: FFA9C3C4-AF65-8C53-805E-04E039B08422

Executed and agreed to this _____ day of _____, 20____.

SCHOOL:

The University of Tulsa

Signed by:
By Ron Walker
3B5C8949AA2741D...
Ron Walker, Dean
Oxley College of Health and Natural Sciences
800 S. College Ave, OH 118
Tulsa, OK 74104
Email: ron-walker@utulsa.edu

FACILITY:

Owasso Public Schools

By_____

By_____

CERTIFICATE OF APPROVAL

November 9, 2026

Purchase Orders to be approved by the Board of Education:

2026-2027 General Fund

		P.O. Nos.	
VENDORS		790-943	260,467.33
VENDORS	Change Orders		
			$ 260,467.33

2026-2027 Building Fund

		P.O. Nos.	
VENDORS		71-72	35,344.60
VENDORS	Change Orders		0.00
			$ 35,344.60

2026-2027 Child Nutrition Fund

		P.O. Nos.	
VENDORS		36-38	19,000.00
VENDORS	Change Orders		0.00
			$ 19,000.00

2026-2027 Bond Fund 31

		P.O. Nos	
VENDORS		229-241	136,078.07
VENDORS	Change Orders		0.00
			$ 136,078.07

2026-2027 Bond Fund 32

		P.O. Nos	
VENDORS			
VENDORS	Change Orders		0.00
			$ -

2026-2027 Bond Fund 35

		P.O. Nos.	
VENDORS			
VENDORS	Change Orders		0.00
			$ -

2026-2027 Jennifer Gibson Memorial Fund 51

		P.O. Nos.	
VENDORS			
VENDORS	Change Orders		0.00
			$ -

2026-2027 Bond Fund 05-BOK

		P.O Nos.	
VENDORS		63-70	89,147.23
VENDORS	Change Orders		0.00
			$ 89,147.23

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 11 - GENERAL, Date Range: 10/1/2026 - 11/4/2026, PO Range: 790 - 943, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
790	A	10/01/2026	11709	WESTCO LAMINATOR SERVICE	REPAIR AND PARTS FOR LAMINATOR	300.00
791	A	10/05/2026	84393	KATHLEEN WEHMEYER	OTI Conference Per Diem 10/5-10/7	137.50
792	A	10/05/2026	85318	VANESSA C BORDERS	OTI Conference Per Diem 10/6/26 - 10/7/26	82.80
793	A	10/05/2026	87616	SUSANNA J FITZGERALD	OTI Conference Per Diem 10/6/26 - 10/7/26	82.50
794	A	10/05/2026	84434	SUSAN LUSK OLSON	OTI Conference Per Diem 10/6/26 - 10/7/26	82.50
795	A	10/05/2026	11351	AMAZON	Headphones and Earmuffs for students	540.00
796	A	10/05/2026	11351	AMAZON	FACS - Classroom Supplies	104.00
797	A	10/05/2026	11351	AMAZON	SCIENCE - 2nd Qtr	323.00
798	A	10/05/2026	11351	AMAZON	Door locks, color copy paper, tape dispensers, etc	100.00
799	A	10/05/2026	11351	AMAZON	Jenga game, buckles for straps, etc	50.00
800	A	10/05/2026	11351	AMAZON	1st & 3rd STEAM Supplies	225.00
801	A	10/05/2026	20598	HANNAH BACCUS	Rejoice - Per Diem Reimbursement	604.42
802	A	10/05/2026	11351	AMAZON	LEANDER/CLASSROOM PROJECT SUPPLIES	300.00
803	A	10/05/2026	276	WALMART #168	LEANDER/CLASS FOOD LAB SUPPLIES	1,000.00
804	A	10/05/2026	11351	AMAZON	SMITH/CLASS PROJECT SUPPLIES	600.00
805	A	10/05/2026	16164	SIMPLICITY PATTERN CO. INC.	SMITH/SEWING PATTERNS	400.00
806	A	10/06/2026	13141	BARTLESVILLE CYCLE SPORTS,LLC	Repair of the Warehouse Four Wheeler	5,000.00
807	A	10/06/2026	14537	THEODORE REA	New camera systems in buses and repairs	25,000.00
808	A	10/06/2026	359	HOBBY LOBBY STORES INC	Christmas decorations for a gift basket	100.00
809	A	10/06/2026	11771	SUPERNAW'S	Cultural Craft Supplies	125.00
810	A	10/07/2026	11351	AMAZON	Metal Stop Sign for when we help at the crosswalk	100.00
811	A	10/07/2026	11351	AMAZON	supplies for classrooms	40.00
812	A	10/07/2026	11351	AMAZON	RED RIBBON WEEK SUPPLIES OCT 26-30	53.00
813	A	10/07/2026	4999	OFFICE DEPOT	Various Supplies for Bailey Elementary	142.00
814	A	10/07/2026	18996	LITERACY RESOURCES, LLC	Bridge the Gap Intervention Curriculm-4 books	415.00
815	A	10/07/2026	11351	AMAZON	EZ Grader Scoring Charts	32.04
816	A	10/07/2026	20604	AUSTEN HOOVER	REJOICE - Professional Development	500.00
817	A	10/07/2026	10501	TULSA TECHNOLOGY CENTER	Career Acdemy Tuition	1,750.00

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 11 - GENERAL, Date Range: 10/1/2026 - 11/4/2026, PO Range: 790 - 943, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
818	A	10/07/2026	1980	CCOSA	REJOICE - Professional Development	199.00
819	A	10/07/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	64.09
820	A	10/07/2026	11351	AMAZON	Potty chair with steps for PreK	40.00
821	A	10/07/2026	6813	AASA REGISTRATION/EXPOEXCHANGE	Conference On Education Registration	3,000.00
822	A	10/07/2026	11351	AMAZON	LOCK FOR EAP ROOM FOR SECURITY	9.00
823	A	10/07/2026	13170	KATHY SAMPLEY	After-school Language Instruction	1,200.00
824	A	10/07/2026	16641	SCHOLASTIC SALES, INC.	JOM Student Cap & Gown Assistance	2,200.00
825	A	10/07/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	410.34
826	A	10/07/2026	19985	TOWER GARDEN LLC	Supplies for Enrichment Lab	90.00
827	A	10/07/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	493.06
828	A	10/07/2026	3357	PIECES OF LEARNING	Materials for Enrichment Lab	35.00
829	A	10/07/2026	20618	THE NAT COUNCIL OF TEACHERS OF MATH	NCTM Conference - Denver CO	2,336.00
830	A	10/07/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	543.83
831	A	10/07/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	587.49
832	A	10/07/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	999.96
833	A	10/12/2026	19788	ELITE SYSTEMS INC	Blanket PO for Service and Maintenance	5,000.00
834	A	10/12/2026	11351	AMAZON	Screenbeam 960 Receiver- Bailey Elementary	339.00
835	A	10/12/2026	276	WALMART #168	ONN 55" Google TV for Bailey Elementary	537.00
836	A	10/12/2026	154	SAIED MUSIC CO	Lanser - District Honor Choir Music	2,000.00
837	A	10/12/2026	18354	SCHOOL SPECIALTY LLC	Construction Paper	1,370.75
838	A	10/12/2026	11709	WESTCO LAMINATOR SERVICE	Laminator	3,495.00
839	A	10/12/2026	276	WALMART #168	3rd Grade STEM Supplies	70.00
840	A	10/12/2026	20101	NANCY SHANNON COLE	2nd Grade Birds of Prey	200.00
841	A	10/12/2026	15917	SPEARS TRAVEL - BARTLESVILLE	NCTM Conference - Airfare	2,432.00
842	A	10/12/2026	18996	LITERACY RESOURCES, LLC	Phonics Curriculum	101.00
843	A	10/12/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	283.35
844	A	10/12/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	198.20

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 11 - GENERAL, Date Range: 10/1/2026 - 11/4/2026, PO Range: 790 - 943, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
845	A	10/12/2026	11351	AMAZON	Supplies and Materials for Enrichment Lab	705.28
846	A	10/12/2026	2922	BUREAU OF EDUCATION & RESEARCH	Rejoice - Virtual PD Session	595.00
847	A	10/12/2026	11351	AMAZON	Rinas - Folders & Stamp	75.00
848	A	10/14/2026	4987	KAGAN PUBLISHING INC	REJOICE - Professional Development	1,258.00
849	A	10/14/2026	20617	WELARM LAND, LLC	Hotel - NCTM Conference	3,236.00
850	A	10/14/2026	13982	SWEETWATER EDUCATION TECH DIVISION	Green - Boom/Mic Stands	850.00
851	A	10/14/2026	11351	AMAZON	Stamp pad, door locks, etc	50.00
852	A	10/14/2026	11351	AMAZON	ODAA Grant	680.20
853	A	10/14/2026	11351	AMAZON	Bands for students to release energy at class	25.00
854	A	10/20/2026	80815	STACY L FRY	Per Diem - NCTM Conference - Denver, CO	360.00
855	A	10/20/2026	86654	ASHLEY NICOLE COOK	Per Diem - NCTM Conference - Denver, CO	360.00
856	A	10/20/2026	84850	SHARON C WENDEL	Per Diem - NCTM Conference - Denver, CO	360.00
857	A	10/20/2026	81289	TRICIA C SMITH	Per Diem - NCTM Conference - Denver, CO	360.00
858	A	10/20/2026	151	SCHOOL HEALTH CORPORATION	Adaptive supplies for students	860.00
859	A	10/20/2026	20592	MED-EL CORPORATION	Adaptive Supplies Audio Link	759.00
860	A	10/20/2026	1498	MAZZIO'S LLC	JOM HS Student Field Trip Lunch	150.00
861	A	10/20/2026	18987	ELIZABETH SEVENOAKS	Cultural Craft Instruction	300.00
862	A	10/20/2026	16011	CRYSTAL HANNA	Cultural Craft Instruction	300.00
863	A	10/20/2026	276	WALMART #168	Cultural Crafts and Presentations	150.00
864	A	10/20/2026	6650	LOWE'S HOME CENTER, INC.	Cultural Craft Tools	225.00
865	A	10/20/2026	166	QUILL CORPORATION LLC	MAIN OFFICE/OPEN PO/GENERAL OFFICE SUPPLIES	500.00
866	A	10/20/2026	19070	AMBUTECH INC	Adaptive supplies for VI Student	61.85
867	A	10/20/2026	19719	DANNY MCCARTER	Cultural Instruction	200.00
868	A	10/20/2026	11351	AMAZON	Various Office Supplies for Bailey Elementary	108.00
869	A	10/20/2026	18354	SCHOOL SPECIALTY LLC	Construction papers	180.00
870	A	10/20/2026	134	FLINN SCIENTIFIC, INC.	Copper Sulfate- supplies for Science Halloween	25.00
871	A	10/20/2026	11351	AMAZON	Supplies for drama	300.00
872	A	10/20/2026	11351	AMAZON	supplies for office	225.00
873	A	10/20/2026	11613	OK ASSOC FOR TECHNOLOGY IN EDU	BAKER/OKATE CONFERENCE REGISTRATION	200.00
874	A	10/20/2026	195	FELKINS ENTERPRISES, LLC	ROBERTS/NOTARY STAMP	35.00
875	A	10/20/2026	11351	AMAZON	Science Supplies for Halloween	375.00
876	A	10/20/2026	11351	AMAZON	shelving for science department	200.00

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 11 - GENERAL, Date Range: 10/1/2026 - 11/4/2026, PO Range: 790 - 943, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
877	A	10/20/2026	11351	AMAZON	MARTIN/ADJUSTABLE KEYBOARD TRAY	119.99
878	A	10/20/2026	11351	AMAZON	COPELAND/KEYBOARD AND MOUSE	39.99
879	A	10/21/2026	18983	CHALK SPINNER INC	ODAA Grant	27.00
880	A	10/21/2026	5732	SAM'S CLUB	Cleaning Supplies	43.92
881	A	10/21/2026	86670	REBECCA LYNN KEITH	Rejoice - Per Diem Reimbursement	225.17
882	A	10/26/2026	444	BROKEN ARROW HIGH SCHOOL	Galoob - Speech Tournament	250.00
883	A	10/26/2026	1452	BISHOP KELLEY HIGH SCHOOL	Galoob - Speech Tournament	250.00
884	A	10/26/2026	304	MUSKOGEE HIGH SCHOOL	Galoob - Speech Tournament	250.00
885	A	10/26/2026	11709	WESTCO LAMINATOR SERVICE	Service Call	200.00
886	A	10/26/2026	10483	SAM'S CLUB	Binders for Weekly Curriculmn in SPED	40.00
887	A	10/26/2026	11351	AMAZON	puzzles/shape color sort/timers/ etc	350.00
888	A	10/26/2026	11351	AMAZON	Office of the Princ & STEM Spls., PD Book,	464.00
889	A	10/26/2026	4999	OFFICE DEPOT	Classroom Supplies - Blanket PO	600.00
890	A	10/26/2026	2629	FROSTY TURPEN	Per Diem OSSBA Education Leadership	45.00
891	A	10/26/2026	276	WALMART #168	SCIENCE - 2nd Qtr Classroom Supplies	177.00
892	A	10/26/2026	276	WALMART #168	Blanket PO - FACS, food for class labs	1,000.00
893	A	10/26/2026	5732	SAM'S CLUB	Paper Goods & Plasticware for Teachers' Lounge	250.00
894	A	10/27/2026	71462	EQUIPOINT PARTNERS, LLC	CORRECTIONS - PAYROLL	1,520.00
895	A	10/27/2026	20623	BYRON TROY DELARZELERE	Mailbox repair	300.00
896	A	10/27/2026	20610	SCANMARKER INC	Adaptive supplies for students	530.00
897	A	10/27/2026	3387	ZEECRAFT TECH	buzzer system for academic team	450.00
898	A	10/27/2026	11351	AMAZON	supplies for office~tubs and keyboards	100.00
899	A	10/27/2026	5545	CONTINENTAL PRESS	ELD - Curriculum Materials	2,490.32
900	A	10/27/2026	359	HOBBY LOBBY STORES INC	Cultural Craft Supplies	100.00
901	A	10/27/2026	18584	La Union Dos Inc.	Cultural Craft Supplies	150.00
902	A	10/27/2026	20371	DEVIN PITTS	Cultural Food Demonstration	200.00
903	A	10/27/2026	276	WALMART #168	ROBISON/SCIENCE CLASS PROJECT SUPPLIES	300.00
904	A	10/27/2026	11709	WESTCO LAMINATOR SERVICE	LAMINATOR SERVICE REPAIR FOR EAST CAMPUS	400.00
905	A	10/27/2026	359	HOBBY LOBBY STORES INC	SMITH/FACS CLOTHING LAB SUPPLIES	1,000.00
906	A	10/27/2026	134	FLINN SCIENTIFIC, INC.	ROBISON/SCIENCE CLASS SUPPLIES	3,500.00

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 11 - GENERAL, Date Range: 10/1/2026 - 11/4/2026, PO Range: 790 - 943, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
907	A	10/30/2026	11351	AMAZON	PD Books for Business Services Team	140.00
908	A	10/30/2026	11351	AMAZON	SPED-Mod Noise Cancelling Headphones	85.00
909	A	10/30/2026	11709	WESTCO LAMINATOR SERVICE	Laminating Film for the laminator	600.00
910	A	10/30/2026	15236	CHICKASAW NATION TRIBAL GOVERNMENT	Cultural Videos	40.00
911	A	10/30/2026	20371	DEVIN PITTS	Cultural Food Demonstration #2	200.00
912	A	10/30/2026	11351	AMAZON	pens, folders, wipe board erasers	200.00
913	A	10/30/2026	11351	AMAZON	vibration plate for calming	75.00
914	A	10/30/2026	18354	SCHOOL SPECIALTY LLC	various colors of construction paper	350.00
915	A	11/02/2026	622	TULSA COUNTY ASSESSOR	RE-EVALUATION COST	136,481.36
916	A	11/03/2026	12183	LAZEL INC	Online resource for reading lessons	150.00
917	A	11/03/2026	11351	AMAZON	Wooden ornaments and pompom - 1st gr	80.00
918	A	11/03/2026	11351	AMAZON	Collapsible Hose for Watering Planters	50.00
919	A	11/03/2026	11351	AMAZON	Building Supplies	31.88
920	A	11/03/2026	13429	OKLAHOMA AUTISM NETWORK	Professional Dev Owasso Tulsa Tech Jan 1, 2027	800.00
921	A	11/03/2026	88665	MATTHEW BRUNK	CASE Conf - Providence , RI Per Diem 11/10-11/13	360.00
922	A	11/03/2026	84393	KATHLEEN WEHMEYER	CASE Conf - Providence , RI Per Diem 11/10-11/13	360.00
923	A	11/03/2026	85149	CHRISTINA L HUMES	CASE Conf - Providence , RI Per Diem 11/10-11/13	360.00
924	A	11/03/2026	82958	CORRIE L MEISSNER	CASE Conf - Providence , RI Per Diem 11/10-11/13	360.00
925	A	11/03/2026	86909	NAOMI ANN WOLFE JAYNES	Parking - OKATE Conference	40.00
926	A	11/03/2026	5545	CONTINENTAL PRESS	ELD - Curriculum Materials	3,425.35
927	A	11/04/2026	11351	AMAZON	small appliance	100.00
928	A	11/04/2026	11351	AMAZON	Adaptive supplies for students	150.00
929	A	11/04/2026	13429	OKLAHOMA AUTISM NETWORK	Professional Development Registration 12/9/26	1,000.00
930	A	11/04/2026	19908	THE MANDT SYSTEM, INC	Mandt RCT, Shield and Pad Training	14,110.00
931	A	11/04/2026	359	HOBBY LOBBY STORES INC	Green - PAC Christmas Tree	500.00
932	A	11/04/2026	14613	FULL COMPASS SYSTEMS	Green - Headset Replacement Cushions	100.00
933	A	11/04/2026	9873	LAKESHORE LEARNING MATERIALS	ELL Instructional Materials	397.08
934	A	11/04/2026	3837	BLAINE RAY WORKSHOPS	SPANISH - Books for Classroom A. Kennett	340.00
935	A	11/04/2026	5538	TSA	STEM - TSA State and National Membership Fees	810.00

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 11 - GENERAL, Date Range: 10/1/2026 - 11/4/2026, PO Range: 790 - 943, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
936	A	11/04/2026	18537	CHASE/STUDENT TRAVEL EXPENSES	MARTIN/SEWELL- FUEL FOR BUS	45.50
937	A	11/04/2026	11351	AMAZON	ROBISON/SCIENCE CLASS SUPPLIES.	400.00
938	A	11/04/2026	7704	CAROLINA BIOLOGICAL SUPPLY CO	ROBISON/SCIENCE CLASS SUPPLIES.	300.00
939	A	11/04/2026	359	HOBBY LOBBY STORES INC	LEANDER/CLASSROOM SUPPLIES	300.00
940	A	11/04/2026	19894	OKLAHOMA TECHNOLOGY STUDENT ASSOC	RUPE/TECHNOLOGY STUDENT ASSOC ANNUAL MEMBERSHIP	810.00
941	A	11/04/2026	11351	AMAZON	RUPE/AVIATION SUPPLIES	137.61
942	A	11/04/2026	16044	REV ROBOTICS LLC	RUPE/DRIVER HUB BATTERIES, 12V BATTERIES	327.00
943	A	11/04/2026	71462	EQUIPOINT PARTNERS, LLC	CORRECTIONS - PAYROLL	588.00
					Non-Payroll Total:	**$260,467.33**
					Payroll Total:	**$0.00**
					Report Total:	**$260,467.33**

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 21 - BUILDING, Date Range: 10/1/2026 - 11/4/2026, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
71	A	10/12/2026	19788	ELITE SYSTEMS INC	Blanket for Extinguisher and Fire Inspections	5,000.00
72	A	11/03/2026	15842	HD SUPPLY FACILITIES MAINTENANCE	Blanket PO for Paper Towels for the District	30,344.60

Non-Payroll Total:	**$35,344.60**
Payroll Total:	**$0.00**
Report Total:	**$35,344.60**

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 22 - CHILD NUTRITION, Date Range: 10/1/2026 - 11/4/2026, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
36	A	10/27/2026	19528	DNR SERVICE LLC	Blanket PO-District Refrigeration Service	7,000.00
37	A	10/27/2026	2281	HAGAR RESTAURANT SERVICE, INC.	Blanket PO-Kitchen Equip Repairs	7,000.00
38	A	10/27/2026	20140	VEND-UCATION LLC	Blanket-Repairs after Warranty Expiration	5,000.00

Non-Payroll Total:	**$19,000.00**
Payroll Total:	**$0.00**
Report Total:	**$19,000.00**

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 31 BOND - 2022, Date Range: 10/1/2026 - 11/4/2026, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
229	A	10/12/2026	18941	Library Journals, LLC	Library Journal Subscription District Wide	500.00
230	A	10/19/2026	20602	ACURA NEON INC	Barnes Marquee Replacement Signage	16,361.00
231	A	10/21/2026	10636	GUTENBERG INC	Handwriting Books - Bailey Elementary	608.60
232	A	10/21/2026	247	BOUND TO STAY BOUND BOOKS	Selection of Titles	1,581.12
233	A	10/21/2026	16849	MACKIN BOOK COMPANY	Selection of Titles	1,327.99
234	A	10/21/2026	20337	AD ASTRA EDUCATION LLC	Selection of Titles	1,300.00
235	A	10/26/2026	11345	MATLOCK SECURITY SERVICES	POWER SUPPLIES FOR ARUBA SWITCHES	2,000.00
236	A	10/26/2026	12013	UNITED FORD SOUTH LLC	New Warehouse Box Truck	66,153.53
237	A	10/27/2026	20003	DUVALL ELECTRIC LLC	District Wide Lighting & Electrical Upgrades	20,000.00
238	A	10/28/2026	20629	PRESIDENT AND FELLOWS HARVARD COL	PD Books for Ram teachers	272.00
239	A	10/30/2026	336	BSN SPORTS	BOND 31: BSB UNIFORMS	10,800.00
240	A	11/02/2026	19078	CARDIO PARTNERS INC	AED electrode replacements	173.83
241	A	11/04/2026	20074	LIBERTY FENCE CO INC	Athletic Fences & Gates	15,000.00

Non-Payroll Total:	**$136,078.07**
Payroll Total:	**$0.00**
Report Total:	**$136,078.07**

Owasso Public Schools

Purchase Order Register

Options: Year: 2026-2027, Fund(s): 05 BOK 2025, Date Range: 10/1/2026 - 11/4/2026, PO Type(s): A, B

PO No	PO Type	Date	Vendor No	Vendor	Description	Amount
63	A	10/05/2026	11351	AMAZON	BUCKETS FOR LIBRARY TO HOLD MISC SIZES FOR BOOKS	1,250.00
64	A	10/05/2026	11351	AMAZON	FURNITURE FOR THE LIBRARY BOND MONEY	1,433.60
65	A	10/07/2026	18658	PLAY BY DESIGN INC	various playground pieces	17,713.00
66	A	10/12/2026	19835	SECONDARY RHODES	new duct at Smith elementary	31,592.00
67	A	10/12/2026	20602	ACURA NEON INC	Front Office Logo Sign & Barnes Elem letters	6,221.25
68	A	10/20/2026	11345	MATLOCK SECURITY SERVICES	Bosch security system upgrade - TOPS	24,708.01
69	A	10/26/2026	16860	L&M OFFICE FURNITURE LLC	Bailey Elementary chairs for the conference table	4,130.86
70	A	10/26/2026	11950	TES PRODUCTIONS, INC	Wireless Mic Upgrade for Cafe Sound System	2,098.51

Non-Payroll Total:	**$89,147.23**
Payroll Total:	**$0.00**
Report Total:	**$89,147.23**

Owasso Public Schools

Cash Balances

Options: Fiscal Years: 2027, Funds: 60, As Of Date: 10/31/2026, Account Types: All

Cash By Account and Fund

AC	0110	ROGERS COUNTY BANK			
	2027	60	60 - ACTIVITY FUND		$3,827,003.77
			Total AC	0110	$3,827,003.77
					$3,827,003.77

Cash By Fund

2027	60	60 - ACTIVITY FUND	$3,827,003.77
			$3,827,003.77

Owasso Public Schools

Revenue/Expenditure Summary

Options: Fund: 60, Date Range: 7/2/2026 - 10/31/2026

	Begin Balance	Receipts	Adjusting Entries	Payments	Cash End Balance	Unpaid POs	End Balance
801 ESC ACTIVITY FUND	$269,399.42	$48,997.66	($11,873.31)	$19,987.83	$286,535.94	$20,000.47	$266,535.47
804 CN REFUND SUB ACCT	$0.00	$10,040.70	$0.00	$1,049.20	$8,991.50	$21.15	$8,970.35
805 OHS ACTIVITY	$92,142.74	$18,243.76	$15,358.51	$2,721.94	$123,023.07	$12,836.40	$110,186.67
806 HS AP	$37,048.38	$0.00	$0.00	$0.00	$37,048.38	$400.00	$36,648.38
807 HS NATIONAL HONOR SOCIETY	$14,788.88	$2,665.00	$0.00	$1,771.92	$15,681.96	$600.00	$15,081.96
808 HS STUDENT COUNCIL	$76,714.04	$34,717.93	($1,000.00)	$17,012.96	$93,419.01	$7,250.00	$86,169.01
809 HS SPEECH/DEBATE	$5,393.40	$40.00	$0.00	$0.00	$5,433.40	$0.00	$5,433.40
810 OHS - TEACHER/STAFF APPRECIATION-FOOD ONLY	$1,051.76	$0.00	$1,948.24	$666.08	$2,333.92	$700.00	$1,633.92
811 HS YOUTH ALIVE	$805.69	$0.00	$0.00	$0.00	$805.69	$750.00	$55.69
812 HS YEARBOOK	$17,995.28	$2,959.80	$0.00	$3,560.46	$17,394.62	$610.00	$16,784.62
814 HS ACADEMIC BOWL	$190.95	$0.00	$0.00	$0.00	$190.95	$0.00	$190.95
815 HS EQUALITY CLUB	$178.43	$0.00	$0.00	$0.00	$178.43	$0.00	$178.43
816 HS BAND	$426,696.37	$183,061.84	$0.00	$113,501.26	$496,256.95	$153,894.00	$342,362.95
817 5TH GRADE HONOR CHOIR-DISTRICTWIDE	$4,071.82	$0.00	$0.00	$525.35	$3,546.47	$500.00	$3,046.47
818 HS FFA	$38,100.31	$47,103.60	$0.00	$34,901.71	$50,302.20	$25,000.00	$25,302.20
819 HS EAST - THE RAM RESERVE - SCHOOL STORE	$723.70	$2,870.00	$1,000.00	$2,215.81	$2,377.89	$645.01	$1,732.88
820 HS STEM CLUB	$79.25	$0.00	$0.00	$0.00	$79.25	$0.00	$79.25
821 HS COUNSELORS	$2,857.90	$0.00	$0.00	$0.00	$2,857.90	$436.22	$2,421.68
822 HS ART	$5,693.75	$7,365.00	$0.00	$1,442.33	$11,616.42	$800.00	$10,816.42
823 ASIAN AMERICAN HERITAGE CLUB	$330.00	$0.00	$0.00	$0.00	$330.00	$0.00	$330.00
824 HS STAGECRAFT	$405.18	$0.00	$0.00	$0.00	$405.18	$0.00	$405.18
825 HS LIBRARY	$18,176.74	$2,797.30	$0.00	$2,458.00	$18,516.04	$5,409.40	$13,106.64
826 HS SENIOR CLASS	$37,618.66	$15,266.00	$0.00	$4,213.48	$48,671.18	$1,900.00	$46,771.18
827 HS UNIFIED CLUB	$458.86	$0.00	$0.00	$0.00	$458.86	$0.00	$458.86
828 HS JUNIOR CLASS	$49,259.59	$0.00	$0.00	$2,033.15	$47,226.44	$0.00	$47,226.44
830 SPARK	$459,287.37	$311,594.55	($50,000.00)	$412,604.61	$308,277.31	$67,411.34	$240,865.97
831 E-SPORTS	$1,894.81	$3,674.75	$0.00	$819.26	$4,750.30	$1,775.00	$2,975.30
834 HS FCA - FELLOWSHIP OF CHRISTIAN ATHLETES	$230.00	$0.00	$0.00	$0.00	$230.00	$0.00	$230.00
835 HS HISTORY CLUB	$1,547.07	$2,324.00	$0.00	$455.28	$3,415.79	$2,400.00	$1,015.79
836 HS WORLD TRAVEL CLUB	$605.57	$0.00	$0.00	$0.00	$605.57	$0.00	$605.57
837 HS ROBOTICS	$1,018.72	$0.00	$0.00	$0.00	$1,018.72	$0.00	$1,018.72
838 OHS LARP CLUB	$68.35	$0.00	$0.00	$0.00	$68.35	$0.00	$68.35
839 HS DRAMA/PRODUCTIONS	$30,800.88	$4,168.13	$0.00	$9,393.32	$25,575.69	$4,570.00	$21,005.69
840 8GC TEACHER/STAFF APPRECIATION-FOOD ONLY	$1,185.85	$0.00	$0.00	$442.65	$743.20	$0.00	$743.20
841 EIGHTH GRADE ACTIVITY	$19,556.78	$85.00	$3,756.81	$4,241.00	$19,157.59	$205.22	$18,952.37
842 EIGHTH GRADE STUDENT COUNCIL	$6,315.23	$1,016.00	$0.00	$610.39	$6,720.84	$1,620.86	$5,099.98
844 EIGHTH GRADE FACS	$4,030.15	$1,230.00	$0.00	$260.82	$4,999.33	$0.00	$4,999.33
845 EIGHTH GRADE YEARBOOK	$4,128.40	$0.00	$0.00	$73.68	$4,054.72	$0.00	$4,054.72
848 EIGHTH GRADE ART	$1,474.35	$1,900.00	$0.00	$0.00	$3,374.35	$2,200.00	$1,174.35
849 EIGHTH GRADE FOREIGN LANGUAGE	$2,823.65	$1,020.00	$0.00	$0.00	$3,843.65	$1,068.01	$2,775.64
851 EIGHTH GRADE ROBOTICS	$24.62	$0.00	$0.00	$0.00	$24.62	$0.00	$24.62
853 EIGHTH GRADE COMPUTER	$311.42	$70.00	$0.00	$0.00	$381.42	$0.00	$381.42
855 EIGHTH GRADE ENGLISH	$114.52	$0.00	$0.00	$0.00	$114.52	$0.00	$114.52
856 EIGHTH GRADE TEACHERS WELFARE	$1,253.12	$200.00	$0.00	$91.54	$1,361.58	$0.00	$1,361.58
857 7TH GRADE STEM	$261.50	$830.00	$0.00	$878.73	$212.77	$0.00	$212.77
858 EIGHTH GRADE FCCLA	$14,347.66	$570.00	$0.00	$1,182.24	$13,735.42	$540.00	$13,195.42
859 EIGHTH GRADE STRENGTH & CONDITIONING / PE	$483.41	$0.00	$0.00	$0.00	$483.41	$459.96	$23.45
860 EIGHTH GRADE STEM	$861.09	$100.00	$0.00	$0.00	$961.09	$0.00	$961.09
861 SEVENTH GRADE ACTIVITY	$21,991.24	$0.00	$3,650.36	$2,733.89	$22,907.71	$0.00	$22,907.71
862 SEVENTH GRADE YEARBOOK	$5,447.54	$40.00	$0.00	$3,980.67	$1,506.87	$0.00	$1,506.87
863 SEVENTH FOREIGN LANGUAGE	$534.25	$913.00	$0.00	$446.15	$1,001.10	$134.99	$866.11
864 SEVENTH GRADE STUDENT COUNCIL	$2,014.73	$1,445.00	$0.00	$1,352.00	$2,107.73	$1,540.00	$567.73

Owasso Public Schools

Revenue/Expenditure Summary

Options: Fund: 60, Date Range: 7/2/2026 - 10/31/2026

	Begin Balance	Receipts	Adjusting Entries	Payments	Cash End Balance	Unpaid POs	End Balance
865 7TH GRADE ACADEMIC TEAM	$0.00	$175.00	$0.00	$0.00	$175.00	$0.00	$175.00
866 SEVENTH GRADE SCIENCE	$137.11	$0.00	$0.00	$0.00	$137.11	$0.00	$137.11
868 SEVENTH GRADE PHYS ED	$3,723.28	$90.00	$0.00	$0.00	$3,813.28	$0.00	$3,813.28
869 7GC FACS	$1,515.85	$7,494.10	$0.00	$213.62	$8,796.33	$1,300.00	$7,496.33
870 7GC TEACHER/STAFF APPRECIATION-FOOD ONLY	$276.06	$0.00	$723.94	$344.97	$655.03	$40.00	$615.03
872 SEVENTH GRADE NATL JR HON SOC	$1,979.33	$0.00	$0.00	$0.00	$1,979.33	$0.00	$1,979.33
874 SEVENTH GRADE LIBRARY	$2,972.21	$3,209.07	$0.00	$3,349.14	$2,832.14	$800.00	$2,032.14
875 BARNES ACTIVITY	$23,489.09	$2,987.00	$2,821.08	$5,681.61	$23,615.56	$2,837.80	$20,777.76
876 BARNES ALL IN	$300.00	$1,050.90	$0.00	$636.48	$714.42	$0.00	$714.42
877 BARNES LIBRARY	$21,229.34	$4,171.38	$0.00	$4,665.15	$20,735.57	$99.43	$20,636.14
879 SEVENTH GRADE ART	$2,370.70	$3,250.00	$0.00	$2,023.91	$3,596.79	$540.00	$3,056.79
880 BARNES TEACHER/STAFF APPRECIATION-FOOD ONLY	$10.50	$0.00	$989.50	$202.00	$798.00	$200.00	$598.00
881 BARNES MUSIC	$34.30	$480.00	$0.00	$0.00	$514.30	$0.00	$514.30
882 ATOR LIBRARY	$10,917.87	$3,054.90	$0.00	$3,600.40	$10,372.37	$7,438.08	$2,934.29
883 ATOR ACTIVITY	$12,976.12	$90.00	$1,862.43	$2,929.76	$11,998.79	$650.00	$11,348.79
884 ATOR PHYSICAL EDUCATION	$1,594.70	$0.00	$0.00	$1,087.00	$507.70	$0.00	$507.70
887 MILLS ACTIVITY	$13,148.77	$1,722.00	$2,368.64	$3,053.76	$14,185.65	$2,464.51	$11,721.14
888 STUDENT LEADERSHIP	$1,397.93	$0.00	$0.00	$0.00	$1,397.93	$0.00	$1,397.93
889 MILLS TEACHER WELFARE	$3,523.10	$497.00	$0.00	$0.00	$4,020.10	$700.00	$3,320.10
890 MILLS TEACHER/STAFF APPRECIATION-FOOD ONLY	$1.78	$0.00	$998.22	$251.43	$748.57	$0.00	$748.57
891 MILLS LIBRARY	$6,621.91	$83.00	$0.00	$2,454.62	$4,250.29	$700.00	$3,550.29
892 SMITH TEACHER/STAFF APPRECIATION-FOOD ONLY	$156.13	$0.00	$843.87	$0.00	$1,000.00	$0.00	$1,000.00
893 SMITH ACTIVITY	$27,314.37	$4,491.83	$2,201.50	$1,889.57	$32,118.13	$10,067.05	$22,051.08
894 SMITH LIBRARY	$8,321.86	$2,105.15	$0.00	$1,404.63	$9,022.38	$4,000.00	$5,022.38
895 SMITH RUN CLUB	$23.00	$15.00	$0.00	$0.00	$38.00	$0.00	$38.00
897 SMITH TEACHERS WELFARE	$1,839.90	$0.00	$0.00	$602.00	$1,237.90	$1,063.00	$174.90
898 HODSON ACTIVITY	$35,306.00	$4,423.88	$2,873.40	$3,341.55	$39,261.73	$4,280.30	$34,981.43
899 HODSON TEACHER WELFARE	$18.80	$0.00	$0.00	$0.00	$18.80	$0.00	$18.80
900 HODSON TEACHER/STAFF APPRECIATION-FOOD ONLY	$15.96	$0.00	$984.04	$0.00	$1,000.00	$85.42	$914.58
901 HODSON LIBRARY	$15,978.30	$5,676.02	$0.00	$8,496.84	$13,157.48	$8,350.40	$4,807.08
902 HODSON PHYS ED	$711.87	$0.00	$0.00	$0.00	$711.87	$0.00	$711.87
903 HODSON MUSIC	$815.85	$4,023.62	$0.00	$2,410.03	$2,429.44	$570.00	$1,859.44
904 NORTHEAST TEACHER/STAFF APPRECIATION-FOOD ONLY	$768.84	$0.00	$231.16	$0.00	$1,000.00	$400.00	$600.00
905 NORTHEAST ACTIVITY	$35,265.44	$2,625.97	$2,664.16	$2,818.07	$37,737.50	$1,299.00	$36,438.50
906 NORTHEAST TEACHERS WELFARE	$96.26	$0.00	$0.00	$0.00	$96.26	$0.00	$96.26
907 NORTHEAST LIBRARY	$28,301.33	$4,791.51	$0.00	$6,712.10	$26,380.74	$4,100.00	$22,280.74
911 BAILEY ACTIVITY	$19,856.55	$1,639.40	$2,257.18	$515.12	$23,238.01	$2,385.08	$20,852.93
912 BAILEY TEACHERS WELFARE	$3,907.82	$327.00	$0.00	$1,226.74	$3,008.08	$267.00	$2,741.08
914 BAILEY LIBRARY	$6,658.04	$1,288.14	$0.00	$4,604.39	$3,341.79	$77.00	$3,264.79
915 BAILEY TEACHER/STAFF APPRECIATION-FOOD ONLY	$278.16	$0.00	$721.84	$262.78	$737.22	$51.00	$686.22
924 EIGHTH GRADE LIBRARY	$3,874.83	$1,104.57	$0.00	$928.04	$4,051.36	$1,500.00	$2,551.36
926 EIGHTH GRADE NATL JR HONOR SOC	$3,431.46	$917.00	$0.00	$0.00	$4,348.46	$2,981.16	$1,367.30
927 EIGHTH GRADE SCIENCE	$24.07	$0.00	$0.00	$0.00	$24.07	$0.00	$24.07
929 SPECIAL ED PROGRAMS	$208,668.07	$0.00	$0.00	$14,005.80	$194,662.27	$3,542.49	$191,119.78
930 ATOR TEACHER/STAFF APPRECIATION-FOOD ONLY	$29.56	$0.00	$970.44	$245.87	$754.13	$150.00	$604.13
932 SPEC OLYMPICS - DIST WIDE	$78,563.85	$2,900.00	$0.00	$2,464.80	$78,999.05	$0.00	$78,999.05
933 RAM ACADEMY	$5,314.04	$3,170.61	$359.61	$1,197.40	$7,646.86	$2,810.00	$4,836.86
934 INDIAN EDUCATION ACTIVITY	$13,284.68	$10,315.00	$0.00	$9,642.19	$13,957.49	$1,700.00	$12,257.49
937 GRANTS (EXCEPT OEF-SEE 936)	$16,742.88	$0.00	$0.00	$1,550.00	$15,192.88	$1,850.50	$13,342.38
938 STAFF APPRECIATION-DISTRICT SERVICES-FOOD ONLY	$3,144.09	$0.00	$951.31	$0.00	$4,095.40	$0.00	$4,095.40

Owasso Public Schools

Revenue/Expenditure Summary

Options: Fund: 60, Date Range: 7/2/2026 - 10/31/2026

	Begin Balance	Receipts	Adjusting Entries	Payments	Cash End Balance	Unpaid POs	End Balance
941 ATHLETICS	$478,023.53	$306,598.43	$0.00	$279,002.43	$505,619.53	$115,769.09	$389,850.44
942 RAM PARTNERS	$134,211.95	$168,445.00	$0.00	$71,500.50	$231,156.45	$61,915.61	$169,240.84
944 VIRTUAL/SUMMER SCHOOL	$37,175.00	($100.00)	$0.00	$125.00	$36,950.00	$0.00	$36,950.00
946 DISTRCT FINE ARTS	$160,806.32	$19,194.64	$0.00	$28,029.67	$151,971.29	$23,596.15	$128,375.14
947 OPERATIONS WELFARE FUND	$179.58	$0.00	$0.00	$0.00	$179.58	$0.00	$179.58
949 HEALTH SERVICES	$106.29	$0.00	$0.00	$0.00	$106.29	$0.00	$106.29
951 RAM TEACHER WELFARE	$3,688.16	$0.00	$0.00	$0.00	$3,688.16	$300.00	$3,388.16
953 HS FACS	$5,421.84	$5,957.00	$0.00	$1,852.83	$9,526.01	$3,450.62	$6,075.39
957 HS VOCAL	$53,567.48	$21,860.80	$0.00	$16,940.34	$58,487.94	$21,740.50	$36,747.44
960 STEM - 6GC	$1,677.74	$1,000.00	$0.00	$513.57	$2,164.17	$0.00	$2,164.17
962 STUDENT HOLDING ACCOUNT	$131,352.00	$50,745.20	$0.00	$0.00	$182,097.20	$0.00	$182,097.20
963 HS LIBERTY COMMITTEE	$7,782.20	$3,003.00	$0.00	$95.65	$10,689.55	$1,650.00	$9,039.55
965 HS TEACHERS WELFARE	$17,450.05	$1,621.07	$0.00	$514.56	$18,556.56	$1,015.20	$17,541.36
968 MORROW ACTIVITY	$38,531.33	$2,440.14	$3,179.24	$864.00	$43,286.71	$16,473.95	$26,812.76
969 MORROW TEACHER/STAFF APPRECIATION-FOOD ONLY	$376.65	$0.00	$623.35	$162.62	$837.38	$250.00	$587.38
970 RAM ACADEMY TEACHER/STAFF APPRECIATION-FOOD ONLY	$70.16	$0.00	$229.84	$118.89	$181.11	$125.00	$56.11
971 HS FCCLA	$4,537.66	$2,827.50	$0.00	$1,595.00	$5,770.16	$1,050.00	$4,720.16
972 MORROW TEACHER WELFARE	$5,448.06	$0.00	$0.00	$600.00	$4,848.06	$0.00	$4,848.06
973 HS FOREIGN LANGUAGE CLUB	$10,494.86	$12,773.55	$0.00	$1,887.15	$21,381.26	$7,885.00	$13,496.26
974 MORROW LIBRARY	$7,905.49	$7,433.21	$0.00	$7,246.13	$8,092.57	$1,265.00	$6,827.57
975 SIXTH GRADE ACTIVITY	$17,974.61	$2,500.00	$3,719.71	$1,641.14	$22,553.18	$600.00	$21,953.18
976 SIXTH GRADE PHYS ED	$976.98	$30.00	$0.00	$135.31	$871.67	$0.00	$871.67
977 SIXTH GRADE STUDENT COUNCIL	$4,476.43	$0.00	$0.00	$2,270.40	$2,206.03	$0.00	$2,206.03
978 SIXTH GRADE YEARBOOK	$21,378.76	$210.00	$0.00	$330.23	$21,258.53	$0.00	$21,258.53
979 SIXTH GRADE COMPUTER	$27.42	$0.00	$0.00	$0.00	$27.42	$0.00	$27.42
980 6GC TEACHER/STAFF APPRECIATION-FOOD ONLY	$339.55	$0.00	$660.45	$478.51	$521.49	$200.00	$321.49
982 SIXTH GRADE SCIENCE	$117.39	$0.00	$0.00	$0.00	$117.39	$0.00	$117.39
983 SIXTH GRADE ART	$7,335.10	$4,670.00	$0.00	$1,770.22	$10,234.88	$0.00	$10,234.88
984 SIXTH GRADE TEACHERS WELFARE	$584.40	$0.00	$0.00	$0.00	$584.40	$0.00	$584.40
988 SIXTH GRADE SOCIAL STUDIES	$2,018.55	$0.00	$0.00	$0.00	$2,018.55	$0.00	$2,018.55
989 SIXTH GRADE LIBRARY	$14,567.96	$1,468.16	$0.00	$1,336.26	$14,699.86	$4,695.00	$10,004.86
990 STONE CANYON TEACHER/STAFF APPRECIATION-FOOD ONLY	$2.89	$0.00	$997.11	$128.57	$871.43	$0.00	$871.43
993 SIXTH GRADE E.S.C.	$1,572.00	$0.00	$0.00	$0.00	$1,572.00	$0.00	$1,572.00
994 STONE CANYON ACTIVITY	$21,455.85	$4,744.00	$2,927.37	$2,363.88	$26,763.34	$6,855.00	$19,908.34
995 STONE CANYON TEACHERS WELF	$1,014.97	$0.00	$0.00	$201.01	$813.96	$0.00	$813.96
997 STONE CANYON LIBRARY	$20,984.55	$8,383.03	$0.00	$10,805.24	$18,562.34	$11,575.00	$6,987.34
998 CHROMEBOOK INS/ACCESORIES	$45,255.83	$25,895.00	$0.00	$3,840.37	$67,310.46	$40,159.63	$27,150.83
Total	**$3,568,614.93**	**$1,437,177.80**	**$0.00**	**$1,178,788.96**	**$3,827,003.77**	**$705,548.00**	**$3,121,455.77**

ACTIVITY ACCOUNT CHANGE REQUEST

ACCOUNT NUMBER 968 SITE: 150

ACCOUNT NAME Activity Fund Account

I would like to:

X **REVISE ACCOUNT BUDGET**: Proposed new budget attached.

I am (adding)/deleting: Therapy Dog Expenses - training only

_____ **ADD A NEW ACCOUNT**: I would like to **add** a new activity account.

Account Name:

The purpose of this account is:

_____ **DELETE AN ACCOUNT**: I would like to **delete** a current activity account.

Account Number/Name:

Reason for deletion:

Tyler Martin — Principal

10.22.26 — Date

Phillip Storm, CFO

10-26-26 — Date

ACTIVITY FUND ACCOUNT BUDGET

School Name Morrow **Site #** 150

Account Name Activity **Account #** 968

Fiscal Year 2026-2027

RESOURCES:

Beginning cash balance	$ 27,927.14
Budgeted Sources of Revenue:	
Fundraisers:picture/yearbooks sales, snack/food sales, product sales, spirit days	5,000.00
Fees:Field trips, admission, activities	3,000.00
Parent/family involvement, Family Nights	550.00
Commissions	200.00
Total Budgeted Revenue:	$ 36,677.14

USE OF FUNDS:

Budgeted Expenditures:	
Instructional: supplies/resources	$ 5,270.00
General office supplies	2,000.00
Fundraiser expenses	1,200.00
Dues and Fees: field trips, admission, activities, clubs, student incentives/rewards	4,000.00
Student tools/resources/supplies	3,900.00
Technology-Robots, coding, circuits, headphones, carts, chromebooks, etc.	2,700.00
Subscriptions, Memberships and Registrations	2,000.00
Scholarships	500.00
Furniture and Fixtures	4,000.00
Professional Development Expenses	1,700.00
Lego Club	100.00
Playground Equipment	5,000.00
Reimbursments	100.00
Donations	200.00
On - line Fundraising (School Store)	200.00
Therapy Dog - Training	3,800.00
Total budgeted expenditures	$ 36,670.00
Ending Budgeted Balance	$ 7.14

Signature of Teacher/Sponsor _____

Signature of Principal Tyler Martin

Date 10-26-26

Docusign Envelope ID: C16B2A0C-2B7B-8244-8080-F1E00EDBDB80

Solution Tree

Solution Tree
Purchase Agreement

Effective as of the last date of signature below, Solution Tree Inc. ("Solution Tree"), located at 555 N. Morton St., Bloomington, IN 47404, and Owasso Public Schools ("Customer"), located at 1501 N Ash Street Owasso, OK US 74055, agree as follows:

1. **Purchase Summary:** Customer will purchase and Solution Tree will provide the products and services described below. Customer will provide Solution Tree with a purchase order for the full amount due under this Agreement, including any applicable taxes. All payments will be due net 30 days from actual date of invoice with all past due invoices subject to monthly finance charges as allowed by law.

Description	Payment	Expected Invoice Date
Professional Development Services (Non-refundable 20% Deposit)	$0.00	Waived
Professional Development Services (Remainder)	$9,200.00	Incrementally after each date
Total	$9,200.00	

2. **Professional Development Services:** Solution Tree agrees to provide a presenter, Anthony Muhammad, to disseminate information for Customer on the topic of *Transforming School Culture* on January 19, 2027. Except for any pre-printed binders or other materials Solution Tree provides, Customer will reproduce any handouts and other print materials related to the services. Customer will provide a venue, audio/video equipment, and technical support capable of receiving and displaying all onsite or virtual sessions.

3. **General Terms**

3.1. **Intellectual Property:** Customer acknowledges that all tangible or electronic presentation materials, handouts, and/or program books used in conjunction with services performed under this Agreement are pre-existing and that no materials will be developed specifically for Customer. All previously owned rights will be retained, and Customer may not reproduce any materials not designated reproducible without express written permission. All audio, video, and digital recording of the services by Customer is prohibited.

3.2. **Authorization:** Customer warrants that it has gone through all required approval and procurement processes related to a purchase of this size and that Customer's signatory has the authority to bind Customer to the terms of this Agreement.

3.3. **Force Majeure:** If an event beyond the parties' control makes performance impossible, illegal, or commercially impracticable by preventing services from occurring as scheduled, the parties will use best efforts to reschedule or make substitutions for affected services or products. If performance is prevented entirely, neither party will have any further liability to the other party for the prevented performance. All unaffected obligations will remain in place.

Docusign Envelope ID: C16B2A0C-2B7B-8244-8080-F1E00EDBDB80

3.4. Termination: Solution Tree may terminate this Agreement if Customer does not provide a purchase order at least 30 days before the first scheduled date. If Customer seeks to cancel any services within 90 days of the scheduled date for any reason but Force Majeure and Solution Tree agrees to such cancellation, Customer will reimburse Solution Tree for any reasonable business expenses incurred in anticipation of performance of this Agreement that exceed the amount of the deposit.

3.5. Entire Agreement: This Agreement, any purchase orders issued pursuant to this Agreement, any RFP in place between the parties, any other written agreement executed by the parties for the same services included in this Agreement, and any exhibits attached hereto constitute the entire agreement of the parties and supersede any prior or contemporaneous written or oral understanding or agreement. No waiver or modification of any of the terms of the Agreement will be effective unless made in writing and signed by both parties, and the unenforceability, invalidity, or illegality of any provision of this Agreement will not render the other provisions unenforceable, invalid, or illegal. Any waiver by either party of any default or breach hereunder will not constitute a waiver of any provision of this Agreement or of any subsequent default or breach of the same or a different kind.

This Agreement is acknowledged and accepted by Customer and Solution Tree:

By: _____	_____	By: DocuSigned by: Sarah Thompson C208188A13FA4F5...	10/1/2026
Name:	Date	Sarah Thompson	Date
Title:		VP of Solution Design and Contract Management	
Entity: Owasso Public Schools		Solution Tree	

CONCURRENT ENROLLMENT AGREEMENT

This Concurrent Enrollment Agreement ("Agreement") is between the Board of Regents of the University of Oklahoma on behalf of Rogers State University ("University"), and Owasso Public School ("District"). "Parties" as used herein shall refer to the University and District collectively.

RECITALS

A. The University is an educational institution providing college-level, accredited courses to students and is seeking to provide such courses to eligible high school students.

B. The District is seeking to establish a relationship with the University whereby its high school students may receive credit for college-level courses while attending the District's schools.

C. The Parties are entering this Agreement to set forth their respective roles and responsibilities with respect to a Concurrent Enrollment Program ("Program") where the University will offer college-level learning to high school students who have been accepted and enrolled in the Program and meet admissions requirement at Rogers Sate University.

ARTICLE 1. PURPOSE AND SCOPE

1.1 The Program will provide the District's students, as defined in Section 2.1, the opportunity to enroll in college classes concurrently with high school classes, receive high school and college credit, and experience coursework at the college level at a reduced cost to students.

1.2 This Agreement is limited to Courses, as defined in Section 3.1, offered by the University, or as otherwise agreed and which are identified in Exhibit A.

ARTICLE 2. STUDENT ELIGBILITY

2.1 Student Defined. As used in this Agreement, "Student" means an individual enrolled at the District who:

2.1.1 Has earned sufficient credit from the District to enroll in the Eleventh (Junior) or Twelfth (Senior) Grade and is making satisfactory progress toward fulfilling applicable school graduation requirements.

2.1.2 Meets the University's eligibility requirements for admissions for concurrent students as set forth in the University's policies.

2.2 Student Eligibility. To be eligible to participate in the Program, the student must:

2.2.1 Complete the University's Concurrent Application for Admission.

2.2.2 Obtain permission from (i) a parent or guardian and (II) the District.

2.2.3 Provide other documentation as required by the University.

2.2.4 Meet all requirement set by the Oklahoma State Regents for Higher Education ("OSRHE") for concurrent enrollment.

2.2.5 Satisfy any criteria or requirements for Program participation established by the District.

2.3 Continued Participation; Re-Enrollment. To remain eligible to participate in the Program the Student (i) must remain eligible as set forth in Section 2.2 and maintain a minimum 2.0 Grade Point Average in Program Courses, (ii) complete any required applications or enrollments documents, and (iii) pay any applicable re-enrollment fees set by the University.

2.3.1 Notwithstanding anything to the contrary herein, the University and District retain the right to (i) withdraw approval for a Student's continued participation in the program entirely or (ii) limit a Student's participation on a course-by-course basis.

2.4 Selection of Students. Individual Student Eligibility is not a guarantee the Student will be admitted or re-admitted to the Program. The University shall have the final and sole authority for determining Student Eligibility.

2.5 Student Suspension/Expulsion. The Parties acknowledge that and agree that, in the event a Student is suspended, expelled, or otherwise removed from classes or extracurricular activities by the District, the Student shall not be permitted to participate in the Program, during the period of said suspension or expulsion. Under such circumstances and when applicable, the University may use its withdrawal and tuition reimbursement policies to determine whether the Student, the Student's parent or guardian, or the District is entitled to a refund of any portion of the tuition costs paid to the University.

2.6 Limitations. A Student may not enroll in more than 18 credit hours of dual credit during the academic year (summer, fall, spring). Students may only enroll in curricular areas where they have met ACT assessment requirements for college placement as set by the OSRHE.

ARTICLE 3. COURSES

3.1 Courses Defined. As used in this Agreement, "Courses" means those college-level classes set forth in **Exhibit A** or as otherwise agreed in writing by the University.

3.1.1 The University certifies all classes are college-level academic courses meeting the basic applicable standards and requirements set by the OSRHE for concurrent enrollment and credited classes.

3.1.2 No Remedial Courses. The University will not offer any remedial classes. Classes will be the same or equal to those of regular college students, including prerequisite coursework requirements, course content, grading policy, course content, grading policy, attendance requirements, course completion requirements, performance standards, and other related course information.

3.1.3 For the avoidance of doubt, the University is (i) only expected to provide any class, program, seminar, or other learning opportunity listed in Exhibit A and (ii) not required to create or provide any class, program, seminar, or other learning opportunity it does not provide in the University's normal conduct or operations.

3.2 Course Availability. The Parties shall mutually agree on Courses to include in the Program based on Instructor availability, Students numbers, classroom space, and other such matters. The Parties agree the University, in its sole discretion:

3.2.1 Will determine class size and enrollment limits.

3.2.2 Notwithstanding anything to the contrary herein, Students will be given every consideration for Course placement in a manner similar or equal to those of regular college students.

3.3 Course Termination; Cancellation. Without terminating this Agreement and in addition to other rights contained in this Agreement, either Party may terminate any Course offering for any reason with ten (10) days' notice prior to the commencement of the class. The University reserves the right to cancel any Course offering due to low enrollment.

3.4 Course Location. Courses will be provided at the University or as otherwise agreed in writing by the Parties.

3.4.1 Transportation. The University is not obligated to, and shall not be required to, transport students to and from the classroom facilities.

3.4.2 District Location. If the Parties agree in writing to offer a Course in the District's premises, buildings, or other property:

3.4.2.1 The District authorizes the University to use the designated premises, buildings, or other property and provide Instructors with appropriate access, including parking and shall provide sufficient classroom space, infrastructure, and technology for the Course.

3.4.2.2 The time classes are offered may follow established District time blocks provided that these time blocks offer sufficient Carnegie clock hours in the awarding of academic credit.

3.4.2.3 The District shall not be entitled to compensation for the use of this space and the University shall not be responsible for any damage caused to the District's property.

3.5 Course Credit. The University will award credit for completed Courses in accordance with University policy and applicable law. The University will maintain records of Student Credits as set forth in Article 8.

ARTICLE 4. UNIVERSITY DUTIES AND RESPONSIBILITIES

4.1 Unless specified in this Agreement otherwise, the University assumes full responsibility for the Course content, Program participation requirements, grading, maintenance of Course-related records and Instructor appointments.

4.2 University Representative. The University will designate a representative(s) to act as a liaison to the District and perform the University's responsibilities under this Agreement.

4.3 Admissions, Course, and Other Materials. The University is responsible for providing all necessary information, applications, or other materials relating to admissions, Courses, or other University Program responsibilities as specifically identified in this Agreement. Additionally, the University will provide students with or access to University policies and Course-related information and materials, including content, grading policy, attendance requirements, course completion requirements, performance standards, and other related course information.

4.3.1 The University's responsibility hereunder shall not include textbooks, educational materials, or other information required for Student participation in a Course.

4.4 Evaluation and Advising Services. The University shall provide the District with Evaluation and Advising Services, which shall include:

4.4.1 Course placement evaluations to ensure compliance with course prerequisites and Student Eligibility.

4.4.2 Individualized Student advisement or assessments to determine academic readiness for enrolling in a Course. The advisement or assessment may be conducted on a Course-by-Course basis or at a Program participation level and can include age requirements and other programmatic or Course-related issues.

4.4.3 Program guidance and academic support services, including admissions, enrollment, academic advisement, career counseling, enrollment/registration, tutoring, financial aid, and related services in a manner similar or equal to those regular college students. Online programs must make these services available to Students in electronic format.

4.5 Services and Facilities. The University shall provide Students with such services and access to University facilities as required by law and in accordance with University policy.

4.6 Program Progress. The University will track progress of Students participating in the Program, including academic performance, credit attainment, and other academic-related information. The University will maintain (i) an official transcript or grade report of the Students in accordance with University policy and (ii) other Student education records, including the Student's term enrollment, course/credits attempted, courses/credits completed, grades, and grade point average earned.

ARTICLE 5. DISTRICT DUTIES AND RESPONSIBILITIES

5.1 District Representative. The District will designate a representative(s) to act as a liaison to the University and perform the District's responsibilities under this Agreement.

5.2 Program Recruitment; Advertisement. The District shall advertise and provide information to students concerning Program participation during student advisement and at other times. The District shall advise potential students of the impact or other consequences to graduation, high school transcript, and other high school classes concerning failing or withdrawing from Program.

5.3 The District shall identify, designate, or otherwise recruit students that may be eligible for Program participation or who wish to enroll in the Program.

5.4 Required Material or Information. If requested by the University, the District shall provide the University with necessary Student documents, material, or other information necessary to perform its obligations under this Agreement, including furnishing official high school transcripts.

5.5 The District is responsible for reporting Course grades on Student high school transcripts.

ARTICLE 6. STUDENT AND STUDENT PARENT OR LEGAL GUARDIAN DUTIES AND RESPONSIBILITIES

6.1 Students (or their parent or legal guardian) is responsible for:

6.1.1 All applicable tuition, fees, or other costs to participate in the Program established by the Parties. Such tuition, fees, or other costs will be included in advertising, advisement, or other promotional fees. See Attachment I.

6.1.2 Purchasing textbooks, educational materials, or other information required for Student participation in a Course.

6.1.3 Arranging transportation to the Course site.

6.2 Students are subject to the University student code, academic, and administrative policies as adopted by the University.

ARTICLE 7. MUTUAL RESPONSIBILITES

7.1 The Parties shall develop and provide information and orientation materials addressing concurrent enrollment responsibilities, including academic rigor, time commitments, behavioral expectations associated with taking college-level courses, and the importance of satisfactorily completing the University credits attempted for dual credit to be awarded.

7.2 Disability Accommodation. The District recognizes the University's obligations to provide reasonable accommodations is different than that of the University and that reasonable accommodations the District makes for a Student do not require the University to provide the same or similar reasonable accommodations The Parties will work collaboratively to provide reasonable accommodations for the Student or other qualified individuals while participating in the Program. If the District has provided the Student with any software, hardware, or auxiliary aids (e.g., specialized reading equipment or software, voice recognition or other adaptive hardware or other adaptive hardware or software, recording devices, etc.), the District shall be responsible for all costs associated with providing the reasonable accommodation to the Student while participating in the Program.

7.3 Promotional Materials. The Parties agree to develop Program promotional materials addressing the educational, economic, and other benefits of higher education as well as the requirements for participation and enrollment procedures for dual enrollment to parents and students. In developing such materials and for advertising purposes, the Parties consent to the use of the other's name, text, and logos but only to the extent and for such use as necessary to advertise or promote the Program.

ARTICLE 8. RECORDS

8.1 Family Educational Rights and Privacy Act (FERPA). The Parties acknowledge and agree that any records, information, materials, or other records concerning an individual Student or may reasonably lead to a Student's identity is an "education record" as defined by FERPA. As such, the Partis will maintain these records in accordance with applicable law.

8.2 Release to Students; District. At the Student's request, the University will provide the Student or the Student's parent or legal guardian with a copy of the Student's official University transcript in accordance with the University's transcript request policy. If the Student is 18 years or older, the District shall obtain all necessary releases or documentation allowing the release of educational records as defined in FERPA to the Student's parents or legal guardian. The University will provide reports to the District as required under this Agreement or as necessary for the Program. The Parties agree that such reports are for a "legitimate education interest" as defined by FERPA and that any information included in any report will remain confidential as required by law.

8.3 Retention. The Parties shall retain all records relating to the Program in accordance with federal and state law.

ARTICLE 9. INSTRUCTORS

9.1 Instructors.

9.1.1 Definition. An Instructor is an individual qualified to teach a Course. Instructors shall satisfy applicable standard required by OSRHE, Oklahoma State Department of Education, and the Higher Learning Commission for an assigned Course.

9.1.1.1 Unless otherwise agreed in writing or allowed by law, Instructors assigned to teach a Course will hold a degree at lease one level above the Course to which they are teaching.

9.1.2 Approval. Notwithstanding anything to the contrary herein, the University shall have the sole authority to approve Instructors teaching Courses. The University will ensure that any Instructor approved to teach a Course has access to all necessary tools, programs, or other information necessary to teach and administer the Course.

9.2 District-Provided Instructors. If the Parties agree in writing to assign a District employee who is qualified to teach a Course and the employee is approved by the University, the Parties agree:

9.2.1 The District employee is not and shall not be a University employee while providing teaching services and that neither the District nor the employee is entitled to University tax withholding, workers' compensation, unemployment compensation, or any employee benefits, statutory or otherwise conferred by University upon its employees.

9.2.2 Notwithstanding anything to the contrary herein, the University agrees to and shall recognize the Instructors as having the rank and title of Adjunct Professor as set forth in the University's Academic Policies and Procedures Manual but shall not be recognized as members of the University's faculty or be granted other faculty rights, including tenure rights.

9.2.3 The District employee shall comply with University policies while engaged in teaching and concurrent enrollment courses under this Agreement. The University shall provide the Instructor with such access to Course materials and other programs as necessary to perform teaching services required for the Course.

9.3 Final Grades. The Instructors will provide the District Student final grades in a timely manner and as mutually agreed in writing between the Parties. An Individual Instructor's delay in providing final grades shall not constitute a breach of this Agreement.

ARTICLE 10. MISCELLANEOUS

10.1 Notices. All notices, consents, or other communications by one party intended for the other shall be directed to each Party's Designated Representative and be deemed to have been properly given if in writing and personally delivered, transmitted by electronic means, or deposited in the United States first class mails, postpaid, to the addresses or numbers set forth below the signatures of the parties.

10.2 Termination for Convenience. Except as otherwise provided herein, either Party may terminate this Agreement at any time without cause upon at least thirty (30) days prior written notice, provided that all Students participating in the Program at the time of notice of termination shall be given the opportunity to complete their courses, such completion not to exceed four (4) months.

10.3 Responsibility for Actions. Each Party shall be responsible for its own acts and omissions and the acts and omissions of its employees, officers, directors, invitees, and affiliates. A Party shall not be liable for any claims, demands, actions, costs expenses and liabilities, including reasonable attorneys' fees, which may arise in connection with the failure of the other Party or its Agreement. If the Party is an agency, political subdivision, or institution of the State of Oklahoma, the Party's liability shall be governed by the Oklahoma Governmental Tort Claims Act.

10.4 Discrimination, Harassment.

10.4.1 Except to the extent permitted by law, the Parties shall not discriminate on the basis of race, color, creed, sex, sexual orientation, gender identity, gender expression, age, religion, national origin, disability, or veteran's status in the performance of this Agreement. As applicable to the Parties, the provisions of Executive Order 11246, as amended by EO 11375 and EO 11141 and as supplemented in Department of Labor regulations (41 CFR Part 60 et. Seq.) are incorporated into this Agreement and must be included in any subcontracts awarded involving this Agreement. The Parties represent that, except as permitted by law, all services are provided without discrimination on the basis of race, color, creed, sex, sexual orientation, gender identity, gender expression, age, religion, national origin, disability, or veteran's status that it does not maintain nor provide for its employees any segregated facilities, nor will the parties permit its employees to perform their services at any location where segregated facilities are maintained. In addition, the Parties agree to comply with Section504 of the Rehabilitation Act and the Vietnam Era Veteran's Assistance Act of 1974, 38 U.S.C. Section 4212.

10.4.2 Cooperation. In accordance with federal law, the Parties acknowledge and agree that each may have legal obligations to investigate and remedy potential harassment or discriminatory actions taken against its students or employees while they are engaged in the

Program. The Parties agree to cooperate with each other in any such investigation and agree to take remedial actions to ensure such harassment or discrimination ceases. If either determines that the remedial action taken or proposed by the other is unacceptable, either may terminate this Agreement immediately.

10.5 Severability. The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision.

10.6 No Assignment. Neither Party may assign its rights or delegate its duties under this Agreement without the prior written consent of the other.

10.7 Binding Effect. The Addendum and Agreement shall be binding upon, and shall inure to the benefits of, the Parties and their respective legal representatives, successors and permitted assigns.

10.8 Governing Law. The Agreement shall be governed by, and construed in accordance with, the laws of the State of Oklahoma.

10.9 Rights Cumulative; No Waiver. No right or remedy conferred in this Agreement upon or reserved to the Parties is intended to be exclusive of any other right or remedy. Every right and remedy shall be cumulative and in addition to any other right or remedy provided in this Agreement. The failure by either Party to insist upon the strict observance or performance of any of the provisions of this Agreement or to exercise any right or remedy shall not impair any such right or remedy of be construed as a waiver or relinquishment with respect to subsequent defaults.

10.10 No Third-Party Beneficiaries. This Addendum and Agreement are not intended to confer any right or benefit upon, or permit enforcement of any provision by, anyone other than the Parties to this Agreement.

10.11 Entire Agreement. This Agreement along with the Addendum constitute the entire understanding and agreement of the Partis with respect to its subject matter and cannot be changed or modified except by another agreement it writing signed by the Parties.

Rogers State University

By: Don Raleigh

Signature: Don Raleigh

Title: President

Date: 10/30/2026

Owasso Public Schools

By: _____

Signature: _____

Title: _____

Date: _____

Name of District Representative (per Article 5.1)_____

Owasso Public Schools

CONCURRENT ENROLLMENT AGREEMENT

ATTACHMENT I

For the Academic Year (Summer '26, Fall '26, and Spring '27 semesters), tuition and fees will be as follows:

	Standard Rate	Waived for qualified Concurrent students	Net cost for concurrent students.
Tuition*	$183.00/credit hour	$183.00/credit hour	$0.00/credit hour
Mandatory Fees	$97.00/credit hour	$77.00/credit hour	$20.00/credit hour
Other Fees	Vary by course	$0.00/credit hour	Vary by course

Example: A qualified concurrent student taking a three-hour course will be responsible for $60 in mandatory fees plus any additional course fees. Additional course fees are disclosed by course.

*Seniors who take more than 18 hours in an academic year will be billed at the full tuition rate for all additional hours.

Juniors who take more than 9 credit hours in an academic year will be billed at the full tuition rate for all additional hours.

Exhibit A

Concurrent Courses

COURSE CODE	DESCRIPTION	CREDIT HOURS
ENGL 1113	Composition I	3
ENGL 1213	Composition II	3
SPCH 1113	Speech Communications	3
HIST 2483	American History to 1877	3
HIST 2493	American History since 1877	3
POLS 1113	American Federal Government	3
ECON 2113	Principles of Macroeconomics	3
ECON 2123	Principles of Microeconomics	3
PSY 1113	Introduction to Psychology	3
SOC 1113	Introduction to Sociology	3
CHEM 1104	Principles of Chemistry	4
CHEM 1315	General Chemistry	4
GEOL 1014	Earth Science	4
GEOL 1114	Physical Geology	4
GEOL 1124	Physical Geography	4
GEOL 1224	Historical Geology	4
PHYS 1014	Astronomy	4
PHYS 1114	General Physics	4
BIOL 1114	General Biology	4
BIOL 1134	Intro to Environmental Science	4
BIOL 1144	General Cellular Biology	4
MATH 1413	Introduction to Statistics	4
MATH 1423	Functions and Modeling	3
MATH 1503	Mathematics for Critical Thinking	3
MATH 1513	College Algebra	3
MATH 1613	Trigonometry	3
MATH 1715	Pre-Calculus	3
MATH 2264	Analytical Geometry and Calculus	5
ART 1113	Art Appreciation	3
HUM 1113	Art Appreciation	3
COMM 2413	Theatre Appreciation	3
HUM 2413	Theatre Appreciation	3
ENGL 2613	Introduction to Literature	3
HUM 2113	Humanities I	3
HUM 2223	Humanities II	3
HUM 2893	Cinema	3
MUSC 2573	Music Appreciation	3
HUM 2573	Music Appreciation	3
PHIL 1113	Introduction to Philosophy	3
GEOG 2243	Human Geography	3
GERM 1113	Beginning German	3
HIST 2013	World Civilization I	3

HIST 2023	World Civilization II	3
LANG 1113	Foundations of World Languages	3
NAMS 1143	Native Americans of North America	3
NAMS 2503	Cherokee	3
PHIL 1313	Values and Ethics	3
SPAN 1113	Beginning Spanish	3

Summary of the Owasso 2025–2030 Hazard Mitigation Plan

The HMP is a joint effort between the **City of Owasso** and **Owasso Public Schools (OPS)** to reduce risks from natural and human-caused hazards. It identifies vulnerabilities (flooding, tornadoes, severe storms, drought, wildfire, earthquakes, etc.), sets goals, and outlines action plans for mitigation. Adoption of the plan keeps both the City and OPS eligible for FEMA hazard mitigation assistance funding .

Key strategies include:

- Strengthening building codes and infrastructure.
- Expanding safe rooms and protective facilities.
- Improving emergency operations and communications.
- Protecting critical facilities, schools, and lifelines.
- Aligning land use, zoning, and capital projects with hazard reduction goals.
- Ensuring educational continuity during disasters.

Owasso Public Schools' Responsibilities

OPS has specific roles and projects in the plan to safeguard students, staff, and facilities:

Emergency Preparedness & Safety

- Maintain a district-wide **Emergency Operations Plan**, including cardiac emergency response, CPR/AED training, and severe weather alert systems .
- Conduct **regular emergency drills** per state requirements.
- Subscribe to Perry Weather® for lightning and severe weather warnings.

Infrastructure & Facilities

OPS is responsible for several major mitigation projects:

1. **Safe Rooms** – Construct FEMA/ICC500-compliant safe rooms at all campuses .
2. **Communications System** – Expand a district-wide mass notification system.
3. **Emergency Power** – Install backup generators at key sites.
4. **Roofing Upgrades** – Replace and harden roofs against hail, wind, and severe storms.
5. **Protective Walkways** – Covered connections between buildings for weather safety
6. **Xeriscaping & Water Saving** – Drought-tolerant landscaping and water conservation features.
7. **Energy Efficient Windows & IT Upgrades** – Improve energy use and ensure digital continuity.
8. **Hail Guards on HVAC** – Protect systems from storm damage.

Floodplain & Land Use Compliance

- OPS must:
    - Obtain permits for construction in Special Flood Hazard Areas.
    - Coordinate with the City's Floodplain Administrator for compliance .
    - Harden access roads to ensure transportation continuity during floods .

Plan Adoption & Implementation

- The **OPS Board of Education must adopt the HMP by resolution**, direct staff to pursue mitigation projects, and submit the resolution with the City's to FEMA/Oklahoma for final approval .
- Adoption commits OPS to implementing assigned actions, as funding allows.

✅ **In short:** Owasso Public Schools is responsible for safeguarding students and facilities through structural projects (safe rooms, roofing, generators), compliance with floodplain rules, maintaining emergency operations and communication systems, training staff/students, and formally adopting and pursuing the HMP's priorities.

A RESOLUTION ADOPTING THE HAZARD MITIGATION PLAN FOR OWASSO PUBLIC SCHOOLS

WHEREAS, Owasso Public Schools recognizes the threat that natural and human-caused hazards pose to students, staff, property, and educational continuity; and

WHEREAS, the development and maintenance of a hazard mitigation plan will make the district eligible to receive federal hazard mitigation assistance funding; and

WHEREAS, Owasso Public Schools has participated in the preparation of a multi-jurisdictional hazard mitigation plan in cooperation with the City of Owasso, in accordance with the Disaster Mitigation Act of 2000 and FEMA requirements; and

WHEREAS, the plan identifies mitigation goals and actions to reduce future risk from hazards and will serve as a guide for school safety, facility planning, and emergency management decisions; and

WHEREAS, adoption by the Board of Education demonstrates the District's commitment to mitigation and implementation of the plan's priorities;

NOW, THEREFORE, BE IT RESOLVED by the Owasso Board of Education:

1. The **Owasso Hazard Mitigation Plan** is hereby recognized as an official plan of the City of Owasso.
2. The Board directs the Superintendent and designated staff to pursue the actions identified in the plan, subject to available funding.
3. The Board Clerk is authorized to forward this resolution, together with the companion resolution adopted by the Owasso City Council, to the Oklahoma Water Resources Board (OWRB) and FEMA Region VI for final approval.

ADOPTED this ___ day of _____, 2026.

_____
President, Owasso Board of Education

ATTEST:

_____
Board Clerk

HAZARD MITIGATION PLAN FOR THE CITY OF OWASSO, OKLAHOMA AND OWASSO PUBLIC SCHOOLS 2025-2030

OWASSO
PUBLIC SCHOOLS

Table of Contents

Chapter 1: Introduction

1.1 Plan Purpose and Scope 6

1.2 Geography 6

1.2.1 Historical Background 7

1.2.2 Geographic and Environmental Context 7

1.2.3 3 City Size and Demographics 7-8

1.3 Climate 9

1.4 Demography 9

1.4.1 Population Characteristics 10

1.4.2 Demographic Insights 10

1.4.3 Vulnerable Populations 10-11

1.4.4 Strategies for Equitable Planning 11

1.5 Land Use and Housing 11

1.5.1 Residential Development Plans 11-12

1.5.2 Homeownership vs. Renting 12

1.5.3 Importance of Demographic Profile in Planning 12

1.5.4 Integrating Land Use and Demographics into Hazard Mitigation 12-13

1.5.5 Individuals Living Below the Federal Poverty Line 13

1.5.6 Factors Increasing Vulnerability 14

1.5.7 Recovery Challenges 14

1.5.8 Disproportionate Impacts and the Need for Equity 14-15

1.5.9 Multilingual Public Education and Hazard Outreach 15

1.5.10 Educational Attainment and Community Preparedness 15

1.5.11 Racially Marginalized Populations 16

1.5.12 People with Disabilities 16-17

1.5.13 Unhoused Population 18

1.5.14 Social Vulnerability Index (SoVI) 18-19

Chapter 2: The Planning Process

2.1 Planning Process Activities, Timeline and Milestones 20

2.2 Involvement and Coordination with Agencies and Stakeholders 20-24

2.3 Community Involvement 24

2.4 Bibliography of Literature Used in Planning 24-28

Chapter 3: Hazard Identification and Risk Assessment

3.1 Hazard Overview and List of Declared Events 29

3.2 Probability and Risk Analysis Criteria Element 29-32

3.2.1 Owasso Disaster Declarations 2012-2022 32

3.3 Hazard Profiles Elements 32-33

3.3.1 Dam Failure 33-40

3.3.2 Drought 41-46

3.3.3 Extreme Heat 46-50

3.3.4 Flooding… 50-58

3.3.5 Floodplain Management Framework 58

3.3.6 Mitigation Action Inventory 58-59

3.3.7 Status of Prior Plan Actions 60

3.3.8 Plan Integration Mechanisms & Process 60

3.3.9 High Winds 60-63

3.3.10 Severe Storms 63-64

3.3.11 Soil Hazards 64-68

3.3.12 Tornado 68-72

3.3.13 Wildfire 72-77

3.3.14 Winter Storms 77-80

3.4 Risk Assessment of State Facilities, Estimated Potential Losses, and Vulnerability of Jurisdictions 81

3.4.1 Methodology 81

3.4.2 Critical Facility Exposure and Vulnerability 81-82

3.4.3 Estimated Potential Losses 82

3.4.4 Vulnerability of Jurisdictions 83

3.4.5 Roads, Highways, and Bridges 83

3.4.6 Ongoing Street Projects 83

3.4.7 Additional Transportation Facilities 84

3.4.8 Utilities and Infrastructure 84

3.4.9 Key Findings 84

3.4.10 Summary Table 85-86

3.4.11 Plan Revision Due to Changes in Community Priorities 87-89

3.4.12 Mitigation Actions Summary 89-91

Chapter 4: Mitigation Strategies and Priorities

4.1 Goals to Reduce/Avoid Long-Term Vulnerabilities from Identified Hazards 92

4.2 Equity and Inclusion in Hazard Mitigation 92-93

4.3 Process Used to Prioritize Mitigation Actions 93-94

4.3.1 Mitigation Project Selection 94-97

4.4 Hazard Mitigation Actions Funding Sources 97-101

4.4.1 Mitigation Action Items 101-119

4.5 Integration of Mitigation Actions into Local Planning Mechanisms 119-120

Chapter 5: Capabilities

5.1 Capabilities for Hazard Mitigation 121

5.1.1 Capital Improvement Plan 121

5.1.2 Oklahoma Department of Agriculture-Forestry Division 121

5.1.3 Economic Development Plan 121

5.1.4 Emergency Operations Plan 121-122

5.1.5 Building and Construction Codes 122

5.1.6 Zoning Ordinances 122

5.1.7 National Flood Insurance Program Participation 122

5.1.8 Administrative and Technical Capabilities 122-123

5.2 Funding Capabilities 123-124

5.3 Federal Emergency Management Agency (FEMA) Grants 125

5.3.1 U.S. Department of Housing and Urban Development (HUD) 125-126

5.3.2 Department of Agriculture (USDA) Programs 126

5.3.3 Economic Development Administration (EDA) 127

5.3.4 Environmental Protection Agency (EPA) 127

5.3.5 Department of Interior Programs 127-128

5.3.6 Other Notable Programs 128

5.3.7 Oklahoma Conservation Commission Programs 128
5.3.8 Oklahoma Department of Agriculture, Food, and Forestry 128-129
5.3.9 Oklahoma Water Resources Board (OWRB) 129
5.3.10 Oklahoma Department of Wildlife Conservation 129
5.4 Obstacles, Challenges, and Proposed Solutions Related to City Capabilities 129-130
5.5 Capability Changes Since Previous Plan Approval 130-131

Chapter 6: Local Coordination and Mitigation Capabilities

6.1 Method and Schedule for Monitoring, Evaluating, and Updating the Plan 132-133
6.2 System for Tracking Mitigation Action Items and Plan Goals 133
6.2.1 Tracking System Components 134-135
6.2.3 Adaptive Management 135
6.2.4 Owasso Mitigation Actions 2025-2030 135-137
6.3 Summary of Local Programs to Accomplish Hazard Mitigation 137-138

Chapter 7: Adoption and Assurances

7.1 Plan Adoption 139
7.2 Assurances 139-143

Appendix

Appendix 1: Critical Facilities 144-155
Appendix 2: Meeting and Minutes 156-196
Appendix 3: Public Hearing 197-212
Appendix 4: HMP Survey 213-226


OWASSO
REAL People • REAL Character • REAL Community

Chapter 1: Introduction

1.1 Plan Purpose and Scope

The purpose of this plan is to systematically identify, assess, and develop strategies to mitigate the risks posed by both natural and human-caused hazards that threaten the safety, health, and welfare of the Owasso community. By conducting a thorough evaluation of existing vulnerabilities and community capabilities, this plan aims to strengthen local resilience, minimize potential property and life losses, and promote sustainable development practices that support long-term community well-being.

This document functions as a strategic framework to guide policy decisions and coordinate mitigation efforts across various municipal departments, agencies, and community stakeholders. It ensures alignment with state and federal planning requirements, including those mandated by the Federal Emergency Management Agency (FEMA) through the Disaster Mitigation Act of 2000, thereby qualifying the city for related funding and technical support.

The scope of the plan encompasses the following key components:

- **Comprehensive Hazard Assessment:** Identification and detailed analysis of all natural and human-caused hazards with the potential to affect the jurisdiction, including but not limited to severe weather events, flooding, tornadoes, earthquakes, and technological incidents.
- **Evaluation of Local Capabilities:** Review of existing resources, infrastructure, emergency response capacity, community programs, and policies that support hazard mitigation and disaster response.
- **Prioritization of Mitigation Strategies:** Development and ranking of actionable mitigation projects and policies designed to reduce risk, protect vulnerable populations, and enhance overall community resilience.
- **Stakeholder Engagement:** Inclusive involvement of local government officials, emergency management personnel, community organizations, businesses, and residents to ensure broad community input and ownership of the plan's objectives.
- **Monitoring and Updating Procedures:** Establishment of a clear schedule and methodology for regular review, assessment, and revision of the plan to incorporate new data, lessons learned, and changing community conditions.

This plan is applicable to all geographic areas within the jurisdictional boundaries and addresses potential impacts to residential neighborhoods, commercial zones, institutional facilities, and public infrastructure. It serves as a critical tool for local government leaders, emergency managers, urban planners, and community partners committed to proactive hazard mitigation and building a safer, more resilient Owasso.

1.2 Geography

Owasso and the Owasso Public Schools district span both Tulsa and Rogers Counties in northeastern Oklahoma, located approximately 20 miles northeast of Downtown Tulsa. This location places Owasso within a dynamic region influenced by urban growth and suburban development linked closely to the Tulsa metropolitan area.

1.2.1 Historical Background

At the dawn of the 20th century, the Atchison, Topeka, and Santa Fe Railroad line terminated in a field northeast of Tulsa. This railroad terminus spurred the development of the surrounding area, initially known as Elm Creek, named after the nearby tributary of Bird Creek. The community later adopted the name Owasso, derived from the Osage Indian word meaning "the end" or "turnaround," reflecting its status as a railroad endpoint.

Owasso was first incorporated as a town in 1881 under the laws of Indian Territory, situated within the Cooweescoowee District of the Cherokee Nation. Its original town site was formally platted and renamed from Elm Creek to Owasso on March 6, 1904, following approval by the United States Secretary of the Interior. The early layout consisted of three streets running north-south and eight streets running east-west. The city later received its official charter under the State of Oklahoma on September 28, 1972, marking its transition into a modern municipality.

1.2.2 Geographic and Environmental Context

Owasso is part of the Osage Cuestas sub-region within the Great Plains ecoregion as defined by the U.S. Environmental Protection Agency (EPA). This ecoregion is characterized by gently rolling plains and low hills composed of sandstone, shale, and limestone formations. While much of the area is now developed, the native ecosystems historically consisted of grass prairies and oak-hickory forests, providing important natural habitats and green space.

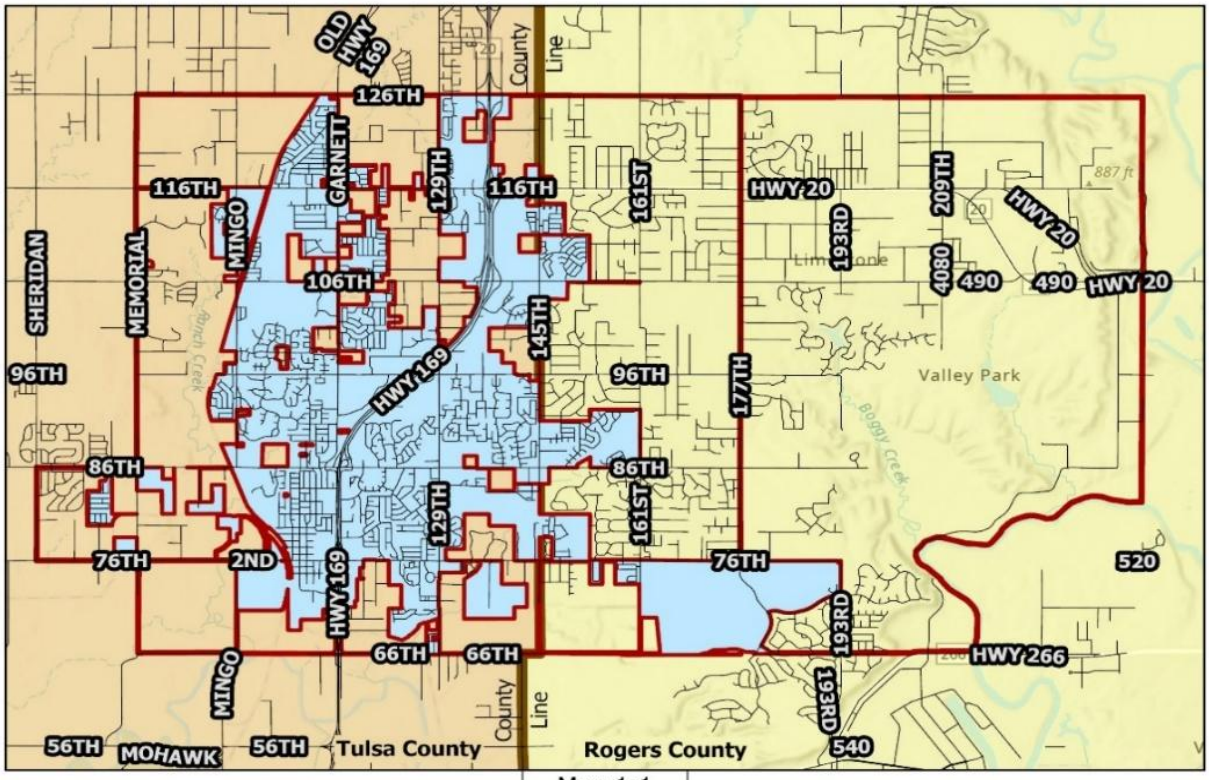
1.2.3 City Size and Demographics

Currently, Owasso covers an incorporated area of approximately 16.82 square miles, with an additional 58.53 square miles included within its fence-line jurisdiction. This expansive geographic footprint makes Owasso the third largest city by area within the Cherokee Nation. Additionally, Owasso ranks sixth in terms of the number of Cherokee individuals residing within its limits, with a Cherokee population of 5,710, reflecting the city's significant cultural and historical ties to the Cherokee Nation.

Summary

Owasso's rich historical roots, geographic location, and evolving community profile position it as a key city in northeastern Oklahoma. Its blend of suburban growth, cultural heritage, and ecological landscape shapes both its development trajectory and its ongoing planning efforts. The city's incorporation within two counties and its role within the Cherokee Nation also underscore the complexity and diversity of its governance and community identity.

City of Owasso
City Limits and Fenceline



Map 1:1

Owasso Area Statistics

Owasso encompasses an incorporated area of 16.82 square miles (as of February 2024).

Owasso fenceline encompasses 58 square miles.

Legend

- City Limits with Fenceline
- Streets

N

0 1 2 4 Miles

Map compiled by Michelle Mount, GIS Analyst, City of Owasso. Map derived from data provided by the City of Owasso, INCOG, Tulsa County, and ESRI.

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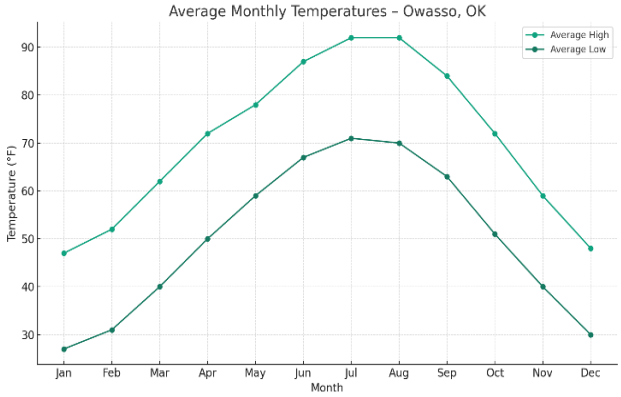
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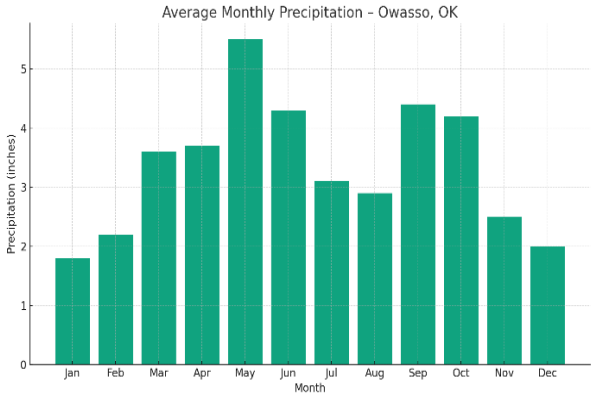
This product has been produced by the City of Owasso for the sole purpose of geographic reference. No warranty is made by the City of Owasso regarding specific accuracy or completeness

1.3 Climate

Owasso, Oklahoma, experiences a humid subtropical climate, characterized by hot, humid summers and mild to cool winters. This climate type results in a wide range of seasonal weather patterns that influence the city's vulnerability to various natural hazards.

Annual temperatures in the region range from lows in the mid-20s (°F) during winter months to highs exceeding 95°F in summer. The area typically receives an average of 40 to 45 inches of precipitation annually, most of which falls during the spring and early summer months. Periods of intense rainfall can lead to flash flooding, particularly in low-lying areas and along creeks and drainage channels.





Severe weather is a defining feature of Owasso's climate. The region lies within "Tornado Alley," making it highly susceptible to severe thunderstorms, tornadoes, large hail, and damaging straight-line winds, particularly between March and June. The city also experiences winter storms, including freezing rain, sleet, and snow, which can disrupt transportation, damage infrastructure, and cause widespread power outages.

Drought is another recurring climatic concern. Extended periods of below-average precipitation, especially during summer, can affect water supply, agriculture, and increase the risk of grass and wildfires.

Climate trends and projections indicate a potential increase in extreme heat events, more intense rainfall episodes, and greater variability in seasonal weather, all of which may intensify local hazard vulnerabilities in the coming decades. These factors highlight the importance of adaptive planning and mitigation strategies that address both current and future climate conditions.

1.4 Demographics

The City of Owasso, situated in northeastern Oklahoma, is experiencing rapid growth and development, making it one of the dynamic communities in the region. With an estimated population of around 40,000 residents, Owasso has seen a consistent upward trend in population over the last two decades, driven primarily by its close proximity to Tulsa, attractive quality of life, and expanding economic opportunities.

1.4.1 Population Characteristics

- **Total Population:** Approximately 40,000 residents
- **Population Growth Rate (Past 10 Years):** Roughly 20% increase, indicating strong and sustained growth
- **Median Age:** About 35 years, reflecting a relatively young demographic with a significant number of young families
- **Average Household Size:** 2.8 persons per household, pointing to family-oriented living arrangements
- **Median Household Income:** Approximately $80,000, suggesting a relatively affluent community with economic stability
- **Poverty Rate:** Around 6%, which is below the national average, but still a vital consideration for community planning

1.4.2 Demographic Insights

Owasso's population is characterized by a youthful and family-centered demographic structure. A large proportion of the community consists of residents under 18 years old, highlighting the importance of schools, recreational facilities, and family services in the city's infrastructure planning. Additionally, the strong presence of working-age adults fuels the local economy and drives demand for housing, commercial development, and transportation improvements.

This growing population diversity necessitates continuous updates to community resources and hazard mitigation planning to ensure safety, resilience, and equitable access to services for all residents as the city expands.

1.4.3 Vulnerable Populations

Effective hazard mitigation and emergency planning require identifying and understanding the specific needs of populations that are disproportionately impacted by disasters. In Owasso, several groups have been recognized as particularly vulnerable due to factors such as age, health, economic status, language barriers, and housing stability. Addressing their unique challenges is critical to ensuring equitable safety and resilience across the community.

Key Vulnerable Groups

- **Elderly Residents (Age 65 and Over):**
  Older adults often face mobility limitations, chronic health conditions, and social isolation, which can hinder their ability to evacuate, access emergency services, or recover after a disaster. Ensuring their needs are met requires specialized transportation options, accessible shelter facilities, and health support during emergencies.
- **Individuals with Disabilities:**
  People with physical, sensory, cognitive, or other disabilities may require alternative methods for receiving emergency warnings, assistance with evacuation, and continuous access to medical devices or medications. Communication accessibility (e.g., sign language, Braille, simplified instructions) and barrier-free shelters are critical components of planning.
- **Low-Income Households:**
  Economic challenges can limit the ability of low-income residents to prepare for disasters, recover from damage,

or relocate if needed. Substandard housing, lack of insurance, and limited transportation compound these risks. Programs that provide financial assistance, emergency supplies, and targeted outreach help reduce disparities.

- **Non-English Speaking Populations:**
  Language barriers can obstruct timely access to critical emergency information and services. Owasso must ensure multilingual communication strategies, culturally appropriate outreach, and translation services during disaster response to reach these populations effectively.
- **Renters and Mobile Home Residents:**
  Renters often lack control over property modifications that improve hazard resistance. Mobile homes, in particular, are vulnerable to wind and flooding hazards. Outreach efforts tailored to these residents, including education on preparedness and evacuation, are essential.

1.4.4 Strategies for Equitable Planning

Recognizing these vulnerable populations allows Owasso to implement targeted measures, such as:

- **Tailored Outreach:**
  Developing educational materials and programs suited to the specific needs of each group, using accessible formats and diverse communication channels.
- **Accessible Sheltering:**
  Ensuring shelters accommodate mobility aids, service animals, language needs, and medical requirements, while also being located to serve vulnerable neighborhoods effectively.
- **Inclusive Communication:**
  Utilizing multiple languages, clear signage, and alternative communication methods to ensure all residents receive timely warnings and guidance.
- **Coordination with Community Partners:**
  Working with local nonprofits, health providers, advocacy groups, and faith-based organizations to reach vulnerable populations and deliver support before, during, and after disasters.

By integrating these considerations into hazard mitigation and emergency response plans, Owasso commits to protecting its most vulnerable residents and promoting community-wide resilience through inclusive, equitable approaches.

1.5 Land Use and Housing

Owasso's land use reflects a well-balanced blend of residential, commercial, and public infrastructure, shaped by ongoing suburban growth that continues to influence the city's physical and social landscape. This diverse land use pattern supports a range of community functions, from housing and employment to recreation and public services, forming the foundation for sustainable development and resilience.

1.5.1 Residential Development Trends

In recent years, housing development has accelerated significantly, accommodating a growing population through a variety of dwelling types, including:

- **Single-family homes:** Predominantly owner-occupied, these provide the primary housing stock in Owasso's suburban neighborhoods, often characterized by moderate to larger lot sizes.

- **Multi-family dwellings:** Apartments, townhomes, and condominiums offer more affordable and flexible housing options, supporting a portion of the population that may include younger adults, small families, and seniors.
- **Senior living communities:** Specialized housing facilities designed to meet the needs of elderly residents, including assisted living and independent living options, are increasingly present to support the aging population.

This diversity in housing types ensures options for various socioeconomic groups but also introduces different levels of vulnerability to hazard impacts, particularly for renters and elderly populations who may have fewer resources or mobility challenges.

1.5.2 Homeownership vs. Renting

While homeownership remains the dominant form of residence for most Owasso residents, it is estimated that 25–30% of the population are renters. Renters often face distinct vulnerabilities compared to homeowners, including:

- Limited ability to modify or retrofit their homes for hazard resistance (e.g., securing windows, reinforcing structures)
- Reduced access to emergency preparedness information tailored to rental housing
- Potential instability related to housing tenure, which may affect recovery and relocation after disaster events
- Financial constraints that limit resources for preparedness and recovery

These factors highlight the necessity for hazard mitigation strategies that are inclusive and equitable, addressing the particular needs of both homeowners and renters alike.

1.5.3 Importance of Demographic Profile in Planning

Understanding the age distribution of Owasso's population is fundamental to crafting effective hazard mitigation and emergency response plans. The community includes:

- **Youth:** Children and teenagers who require specialized education and outreach programs to foster awareness of hazards and preparedness behaviors. Schools and youth centers serve as key venues for such efforts.
- **Working-age adults:** This group represents the primary workforce and caregivers. Protection of their livelihoods and support for their emergency responsibilities (e.g., childcare, elder care) is vital during hazard events.
- **Seniors:** Older adults, especially those with mobility or health challenges, require targeted support, including accessible evacuation assistance, medical care continuity, and social services.

By analyzing population age data, the City can better allocate resources and design mitigation initiatives that effectively protect these distinct groups. For example, youth-centered educational campaigns can build long-term community resilience, while specialized programs for seniors can ensure their safety and well-being during emergencies.

1.5.4 Integrating Land Use and Demographics into Hazard Mitigation

Owasso's hazard mitigation planning recognizes the interplay between land use patterns and demographic characteristics. As the city continues to grow and diversify, mitigation efforts will focus on:

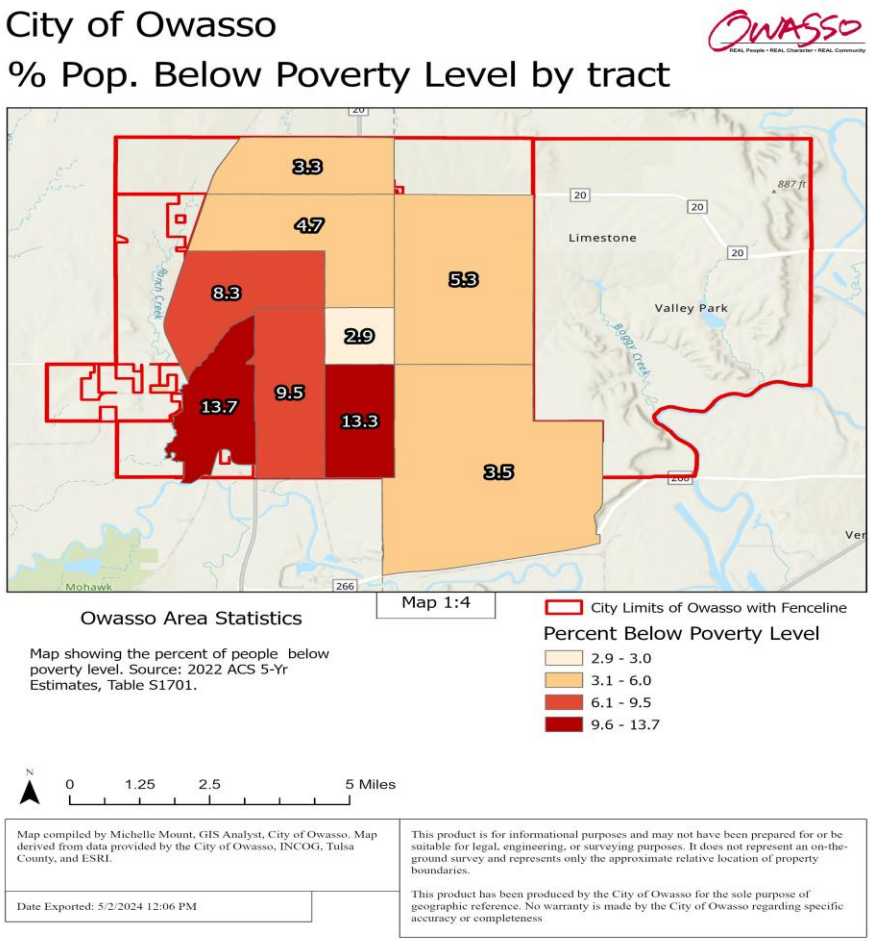
- Promoting safe building practices and land use controls that reduce risks in vulnerable areas

- Enhancing access to emergency information and preparedness resources for renters and low-income households
- Developing outreach and support programs tailored to the needs of youth, working adults, and seniors
- Coordinating with housing developers and property managers to integrate hazard resilience into new and existing housing stock

In conclusion, Owasso's land use and housing dynamics, coupled with its demographic profile, form critical components of a comprehensive hazard mitigation approach. Prioritizing inclusive strategies that address the diverse needs of the community's residents will strengthen the city's capacity to prepare for, respond to, and recover from disaster events effectively.

1.5.5 Individuals Living Below the Federal Poverty Line

Individuals and families living below the federal poverty level often face a range of challenges that elevate their vulnerability to natural hazards and complicate recovery efforts. According to the U.S. Census Bureau's 2022 American Community Survey (ACS) 5-Year Estimates (Table S1701), approximately 2,646 residents in Owasso, or about 7.1% of the total population, live below the poverty threshold.



1.5.6 Factors Increasing Vulnerability

- **Substandard Housing and Infrastructure:**
  Low-income households are more likely to reside in older, poorly maintained, or inadequately constructed housing that may not meet current building codes or hazard-resistant standards. These homes are often less resilient to extreme weather events such as tornadoes, hailstorms, floods, or earthquakes, resulting in a higher likelihood of structural damage and increased risk to occupants.
- **Location in High-Risk Areas:**
  Economic constraints may force low-income residents to live in neighborhoods more prone to natural hazards, such as floodplains, areas with limited drainage infrastructure, or locations near industrial sites. These areas may also lack adequate emergency infrastructure and services, increasing residents' exposure and reducing their capacity to respond to disasters.
- **Limited Access to Preparedness Resources:**
  Financial hardship often restricts access to emergency supplies, hazard mitigation measures (such as storm proofing or flood-proofing homes), and transportation needed to evacuate when necessary. Additionally, awareness campaigns and preparedness programs may not effectively reach these populations, especially if language barriers, literacy levels, or mistrust of authorities exist.
- **Health and Social Services Barriers:**
  Low-income populations frequently face challenges in accessing healthcare, mental health services, and social supports before and after disaster events. Chronic health conditions, disabilities, or lack of insurance can worsen disaster impacts and delay recovery.

1.5.7 Recovery Challenges

- **Prolonged Recovery Periods:**
  Financial limitations reduce the ability to quickly repair or rebuild damaged property, replace lost belongings, or temporarily relocate. Many low-income families rely on limited savings, and may have difficulty accessing insurance or disaster assistance programs due to application complexities or eligibility issues. This can result in longer displacement periods and increased economic instability.
- **Economic and Employment Disruption:**
  Disasters can interrupt employment opportunities, particularly for those in low-wage or hourly jobs without paid leave or job security. This loss of income further exacerbates financial strain during recovery.

1.5.8 Disproportionate Impacts and the Need for Equity

Research consistently shows that low-income populations, especially when intersecting with communities of color, bear disproportionate burdens during and after disasters. These groups often live in older, denser, and higher-risk neighborhoods with poorer housing quality and reduced access to essential services, leading to increased vulnerability to:

- Property damage
- Injury and illness
- Psychological trauma
- Loss of life

Recognizing these disparities underscores the critical importance of incorporating equity into hazard mitigation and emergency planning. This means:

- Prioritizing investments in infrastructure and hazard-resistant improvements in vulnerable neighborhoods
- Ensuring emergency communication and preparedness education are accessible, culturally appropriate, and effectively disseminated
- Facilitating access to financial assistance and recovery resources for low-income residents
- Engaging these populations directly in planning processes to address their unique needs and barriers

Conclusion

Addressing the vulnerabilities faced by individuals living below the poverty line is essential for building a safer, more resilient Owasso. Equitable hazard mitigation strategies that intentionally focus on the needs of low-income populations can reduce risks, improve preparedness and response outcomes, and foster a more inclusive recovery process that benefits the entire community.

1.5.9 Multilingual Public Education and Hazard Outreach

Residents who speak a language other than English may require multilingual outreach to understand hazard warnings and respond effectively. According to the U.S. Census Bureau's 2022 ACS 5-Year Estimates (Table S0601), 7.4% of Owasso's population over the age of five speaks a language other than English at home. Among children under the age of five, 2.2% were reported to speak English "less than very well." These figures highlight the importance of providing hazard communication and emergency information in multiple languages. Incorporating multilingual outreach into Owasso's hazard mitigation planning ensures that all residents, including non-English speakers, have access to critical safety guidance and can take appropriate actions during emergencies. underscore the importance of inclusive communication strategies in emergency preparedness and response planning.

Multilingual Hazard Communication

- **Issue:** Residents who speak a language other than English may not fully understand hazard warnings.
- **Data:** 7.4% of Owasso residents over age five speak a non-English language at home; 2.2% of children under five speak English "less than very well" (2022 ACS).
- **Action:** Develop multilingual outreach materials for hazard warnings, emergency alerts, and preparedness guidance.
- **Expected Outcome:** All residents, including non-English speakers, can understand and respond effectively to hazards, improving community resilience.

1.5.10 Educational Attainment and Community Preparedness

Educational attainment in Owasso reflects a well-educated population relative to state and national averages. According to the U.S. Census Bureau's 2022 American Community Survey (ACS) 5-Year Estimates, approximately 86% of residents aged 25 and older have earned a high school diploma or higher, while around 32% hold a bachelor's degree or higher. The city is served by the Owasso Public School District, which offers a range of educational programs from pre-kindergarten through high school. Several nearby institutions of higher education also contribute to the community's access to post-secondary opportunities. Educational attainment influences residents' access to information, risk awareness, and ability to respond to emergency communications, making it an important factor in hazard mitigation planning.

1.5.11 Racially Marginalized Populations

- **Intersection with Other Vulnerabilities:**
  Racially marginalized groups often face compounded challenges that increase their vulnerability during disasters and emergencies. These challenges frequently overlap with other socioeconomic factors identified by the planning team, including:
  - **Poverty:** Economic hardship can limit access to safe housing, transportation, healthcare, and recovery resources.
  - **Limited Educational Opportunities:** Lower educational attainment can reduce awareness of hazard risks, preparedness measures, and available assistance programs.
- **Historical and Systemic Barriers:**
  Longstanding systemic inequalities and historical marginalization have led to reduced access to critical resources and services for many racial minorities. This may include:
  - Limited economic opportunities
  - Reduced political representation and influence
  - Barriers to healthcare and social services
  - Housing in higher-risk or underserved neighborhoods
- **Impact on Mitigation and Recovery Efforts:**
  Due to historical experiences and ongoing disparities, some racially marginalized populations may exhibit:
  - **Distrust of Authorities:** Past injustices and discrimination can foster mistrust toward government agencies or emergency responders, which may hinder participation in mitigation programs, evacuation orders, or recovery initiatives.
  - **Communication Barriers:** Language differences or lack of culturally appropriate messaging can limit the effectiveness of hazard communications and emergency alerts.
- **Community Strengths and Resources:**
  Despite these challenges, many racially marginalized communities, including Native American Tribal citizens, possess unique cultural strengths and community networks that can be valuable assets in reducing vulnerability and supporting resilience:
  - Tribal governments and organizations often have established emergency plans and mutual aid agreements tailored to their community's specific needs.
  - Strong inter-community ties can facilitate rapid sharing of information and resources during disasters.
  - Traditional knowledge and practices may contribute to sustainable land and hazard management.
- **Planning Implications:**
  Effective hazard mitigation planning should:
  - Recognize and address the historic and systemic inequities faced by racially marginalized populations.
  - Engage these communities in planning processes through trusted community leaders and culturally sensitive outreach.
  - Ensure emergency communications are accessible, multilingual, and culturally relevant.
  - Partner with tribal governments and organizations to leverage their resources and expertise.

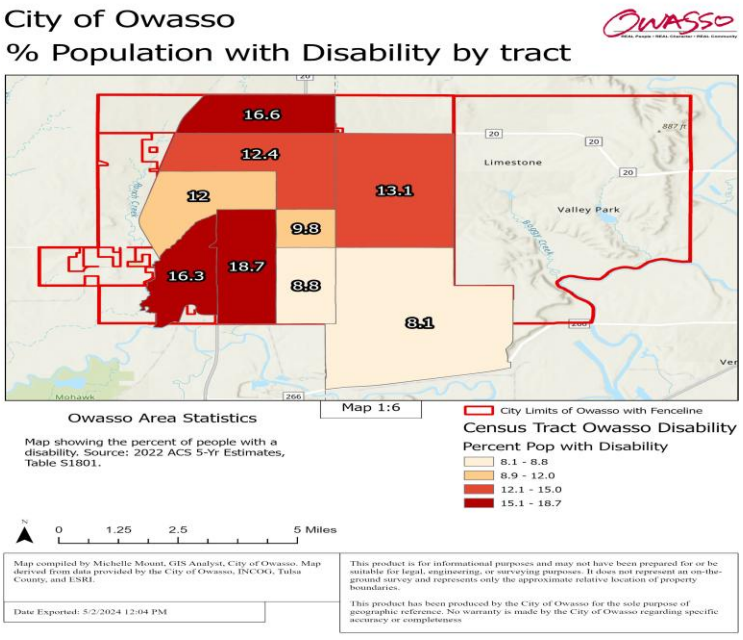
This comprehensive approach can help reduce disparities in disaster impacts and improve equitable access to mitigation, preparedness, and recovery resources across all populations in Owasso.

1.5.12 People with Disabilities

- **Definition of Disability:**
  According to the American Community Survey (ACS), disability includes a range of functional difficulties such as:
  - Hearing impairments

  - Vision impairments
  - Ambulatory (mobility) challenges
  - Cognitive limitations
  - Difficulties with self-care
  - Challenges with independent living
- **Population Estimates:**
  - Based on the U.S. Census Bureau's 2022 ACS 5-Year Estimates (Table 1810), approximately **4,934 individuals** in the City of Owasso are reported to have a disability.
  - This number represents about **13.1%** of Owasso's total population.
- **Emergency Support Needs:**
  People with disabilities may require specialized support during emergencies, including but not limited to:
  - **Alternative Warning Systems:** Standard emergency alerts may not be accessible to all; some individuals may need visual, auditory, or tactile alerting methods.
  - **Assistance During Isolation:** During disasters, people with disabilities might face challenges related to isolation or mobility that necessitate additional care or communication.
  - **Continuous Power Supply:** Many individuals rely on life-sustaining medical or assistive equipment that requires uninterrupted electricity. Power outages can pose severe risks.
  - **Evacuation Assistance:** Evacuation plans must account for those with mobility or cognitive challenges, ensuring accessible transportation and support during evacuation procedures.
- **Planning Considerations:**
  Emergency preparedness and response efforts in Owasso should incorporate the needs of people with disabilities to enhance safety and resilience, including:
  - Inclusive communication strategies
  - Coordination with disability service organizations
  - Training of emergency personnel on disability awareness
  - Accessible shelters and resources

This overview highlights the importance of inclusive emergency planning that addresses the unique vulnerabilities and needs of individuals with disabilities within the community.



1.5.13 Unhoused Population

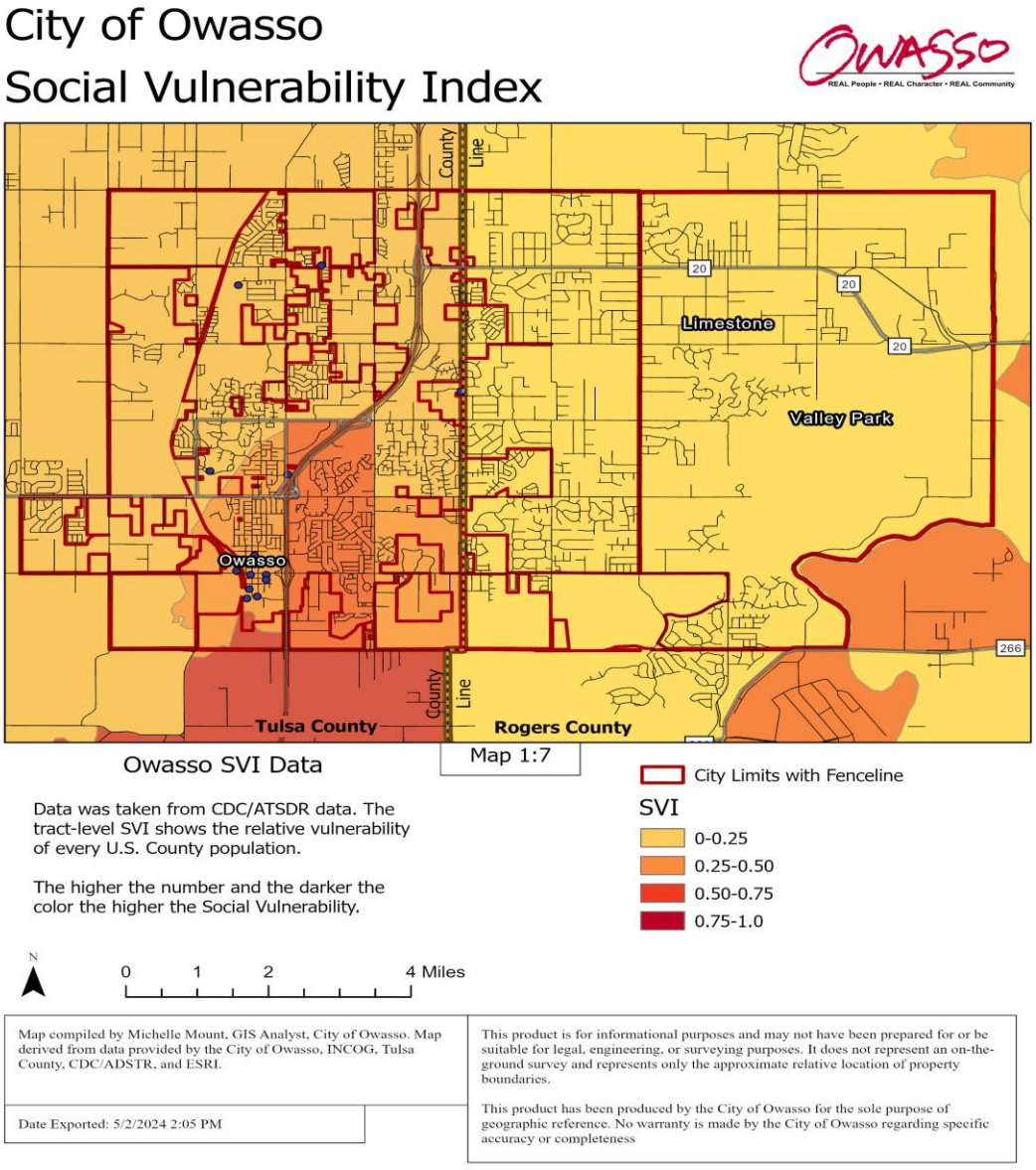
- **Estimated Number:** Approximately 80 individuals in Owasso are estimated to be unhoused.
- **Data Source and Methodology:**
  - This estimate is based on data from the U.S. Department of Housing and Urban Development (HUD).
  - The percentage of unhoused persons in Tulsa County was applied proportionally to Owasso's population to arrive at this figure.
- **Limitations of Estimate:**
  - The figure may be overstated due to the differences in the urban characteristics of Tulsa County compared to Owasso's predominantly suburban setting.
  - Additionally, there is no specific data for Rogers County, which is more rural and includes parts of Owasso's city limits, potentially affecting accuracy.
  - Despite these limitations, this estimate represents the best available determination based on current data.
- **Risks for Unhoused Individuals:**
  - They face heightened risks during disasters due to:
    - Limited access to safe shelter and stable housing.
    - Reduced availability of reliable transportation options.
    - Challenges in receiving timely and accurate emergency information.
  - These factors contribute to increased exposure to environmental hazards and limited access to healthcare and recovery resources.
  - Both immediate disaster response and long-term recovery efforts are more difficult for this vulnerable group.

1.5.14 Social Vulnerability Index (SoVI)

- **Definition:**
  Social vulnerability refers to the characteristics of a community that influence its capacity to prepare for, respond to, and recover from disasters. It encompasses a range of social factors that affect how populations experience and cope with hazards.
- **Key Social Factors Considered:**
  - Age
  - Race and ethnicity
  - Gender
  - Education levels
  - Access to transportation
  - Crowded or inadequate housing conditions
  - Disabilities
  - Financial resources
  - Housing status
- **Importance of Social Vulnerability:**
  - Populations with higher social vulnerability are at increased risk during public health emergencies and disasters.
  - They often have fewer resources and less capacity to mitigate harm or recover quickly.
- **Social Vulnerability Index (SoVI):**
  - Developed by the U.S. Centers for Disease Control and Prevention (CDC) in collaboration with the Department of Health and Human Services.

- Utilizes Census data to measure and rank social vulnerability at the U.S. Census tract level based on 15 social factors.
- SoVI is a comparative tool that highlights geographic variations in social vulnerability across counties and regions.

- **Uses of SoVI:**
  - Helps policymakers and emergency management practitioners identify areas with uneven preparedness and response capacity.
  - Guides allocation of resources to communities where vulnerability is highest and mitigation efforts are most needed.
  - Serves as an indicator for differential recovery rates among communities post-disaster, assisting in targeted recovery planning.



Chapter 2:
The Planning Process

2.1 Planning Process Activities, Timeline and Milestones

The City of Owasso and Owasso Public Schools Hazard Mitigation Planning Team was formed to provide guidance and review during the preparation of this plan. The initial plan was adopted in August of 2004. An updated version of the plan was adopted in July, 2014.

A series of meetings were held during the period from April, 2019 to September, 2019 to work on plan updates. Public outreach was also conducted during that period to solicit input from citizens. Appendix 2 contains meeting attendance records and minutes for this period. A public survey was also placed on the City's website. Two Hundred and Twenty-five responses were received. Results of this survey are included as Appendix 3.

Prior to the development of a draft updated plan in 2019, the Covid-19 Pandemic swept across the United States and the ability to continue in-person meetings was suspended. While most of the time and efforts of the planning team members were devoted to the everyday management of the pandemic, some members did manage to continue to keep refreshed on the plan contents. During this period, the planning team experienced changes in personnel as did the partnering and stakeholder organizations.

Beginning in 2021, the City of Owasso's Emergency Management met individually with selected stakeholders and planning team members to re-start the process of research and plan drafting.

In September, 2023, the Planning Team was rejuvenated and began diligent work on this revised plan. The steps outlined in Federal Emergency Management Agency (FEMA) publication *Local Mitigation Planning Handbook May 2023* were followed in the development of this plan. A series of meetings were held during the period from February, 2024 to September, 2024 to work on plan updates. Public outreach was also conducted during that period to solicit input from citizens. Appendix 2 contains meeting attendance records and minutes for this period. A public survey was also placed on the City's website. Two Hundred and Twenty-five responses were received. Results of this survey are included as Appendix 4.

2.2 Involvement and Coordination with Agencies and Stakeholders during the Planning Process

The Owasso Emergency Management contacted City Department Directors, their deputies/assistants, and key staff members and invited them along with School representatives to a briefing which was held on February 8, 2024. This briefing presented an overview of the existing plan and processes that had been previously implemented as well as current planning requirements and capabilities. Members were given the opportunity to update the jurisdiction and identify hazards and their impact on the community.

2024 Planning Team Members and their contributions to the process are listed in the following table:

Name	Organization	Position	How they contributed to the planning process
Atchison, Jeff	City of Owasso	Risk Management Director	Participated in planning team meetings, providing input on hazards and risk management. Provided information on critical city facilities
Beemer, Alexa	City of Owasso	Planning Manager	Attended Planning Team meetings. Provided planning and zoning information.
Blundell, Travis	City of Owasso	Assistant Public Works Director	Attended Planning Team meetings; provided input on Hazards/Severity Ranking and action items.
Boatman, Nick	City of Owasso	Police Lieutenant	Attended Planning Team meetings; provided input on Hazards/Severity Ranking and action items.
Coates, Dr. Margaret	Owasso Public Schools	Superintendent of Schools	Provided school policy guidance. Shepherded the plan through the adoption process by the School Board.
Croft, Paul	Owasso Public Schools	Director of Safety and Security	Attended Planning Team meetings; provided input on Hazards/Severity Ranking and action items.
Dempster, Brian	City of Owasso	Community Development Director	Attended Planning Team meetings, facilitate briefing and input from City Planning Com-mission; provided input on hazard/risk assessment and strategy.
Dossett, JJ	City of Owasso	Assistant to City Manager	Attended planning Team meetings; assisted with outreach to and input from civic groups and the public.
Fowler, Jerry	City of Owasso	Strong Neighborhoods Coordinator	Attended planning Team meetings; assisted with outreach to and input from neighborhood groups.
Garrett, Chris	City of Owasso	City Manager	Provided city policy guidance. Shepherded the plan through the adoption process by the City Council.
Goldstein, Arami	City of Owasso	Assistant Fire Chief	Attended Planning Team meetings; provided input on Hazards/Severity Ranking and action items.
Haddaway, Art	City of Owasso	Marketing & Communication Specialist	Provided input on strategy and served as a link to community organizations & citizens.
Henderson, Dwayne	City of Owasso	City Engineer, Floodplain Manager	Attended Planning Team Meetings; provided assistance and information related to floodplains and floodplain management; assisted with strategy development
Hinkle, Marilyn	City of Owasso	Historical Museum Coordinator	Provided information on cultural and historical properties in the planning area.

Hurst, David	City of Owasso	Fire Chief	Attended Planning Team meetings; provided input on Hazards/Severity Ranking and action items
Lynch, Donald	City of Owasso	Emergency Management	Team Leader; led discussion of the planning process and team actions/input; author of the plan document.
Knowlton, Mark	Owasso Public Schools	Director of Construction	Attended Planning meetings and provided input on Mitigation actions and projects for schools.
Kramer, Wendy	City of Owasso	City Planner	Attended Planning team Meetings. Provided land use data and other technical data and input on projects
Mount, Michelle	City of Owasso	GIS Specialist	Provided mapping and GIS technical assistance.
Neyman, Andrew	City of Owasso	Information Technology Director	Attended Planning Team meetings; providing input and technical assistance on technology hazards/impacts.
Novozinsky, Carly	City of Owasso	Finance Director	Attended Planning Team meetings and provided input on financial considerations for projects.
Stevens, Julieann	City of Owasso	City Clerk	Attended Planning Team meetings, provided assistance with scheduling and recording public meetings.
Stevens, Roger	City of Owasso	Public Works Director	Attended Planning Team Meetings, provided input on Hazards/Severity Ranking and action Items.
Trout-Lombardi, Julie	City of Owasso	City Attorney	Provided legal review of document
Yancey, Daniel	City of Owasso	Police Chief	Attended Planning Team meetings; provided input on Hazards/Severity Ranking and action items.
Yokley, Brad	Owasso Public Schools	Director of Operations	Attended Planning Team meetings; provided input on Hazards/Severity Ranking and action items.

The Planning Team Coordinator contacted neighboring communities, Native American tribes, local, State, and Federal agencies, businesses, private, and non-profit organizations, hereinafter referred to as Stakeholders. Representatives of these organizations were invited to review their existing studies, reports, technical information, goals, and needs and provide input to the draft plan.

The following agencies were requested to provide subject matter regarding their existing studies and information for their own hazard profiles:

Name	Organization	Position	How they Were Invited	How they contributed to the planning process
Browning, Savannah	Medxcel (Ascension St. John's Hospital - Owasso Campus)	Safety Officer	E-Mail Invitation	

Cowling, Randy	Owasso Community Resources	Executive Director	E-mail Invitation	
Davis, Keith	Owasso Mission Center	Missions Pastor	E-Mail Invitation	
Dunbar, Cole	Bailey Medical Center	Operations Specialist	E-Mail Invitation	
Fowler, Daren	Medxcel (Ascension St. John's Hospital - Owasso Campus)	Regional Emergency Management Officer	E-Mail Invitation	
Gardner, Dwayne	Tulsa Technology Center Owasso Campus	Assistant Director	E-Mail Invitation	
Krilachek, Joe	Tulsa Area Emergency Management Agency	Executive Director	E-Mail Invitation	Provided a copy of their plan for review and consultation.
Levo-Feary, Chelsea	Owasso Chamber of Commerce	President and CEO	E-Mail Invitation	.
McGeady, Kendra	Pelivan Transit	Transit Director	E-Mail Invitation	
Stokes, Scotty	Rogers County Emergency Management	Director	E-Mail Invitation	Provided a copy of their plan for review and consultation.
Tanner, Amy	Cherokee Nation of Oklahoma	Emergency Management Director	Personal Contact	Provided information on tribal strategies and a copy of their plan.
Waters, Rev. Chris	St. Paul's Anglican Church of Owasso	Pastor	E-Mail Invitation	Provided outreach to Owasso Ministerial Association and consulted on strategy as an Owasso citizen

The following State and Federal Officials were contacted to contribute to the planning process:

Name	Title	Agency Represented	How They Were Contacted	Contributions to the Plan
Sugang, Yohannes	NFIP State Coordinator	Oklahoma Water Resources Board	Telephone Call	Provided list of High-Hazard Dams affecting the jurisdiction and copies of certain dam breach emergency action plans not currently on file

Cox, Shel	Chief of Emergency Management	Tulsa District, U.S. Army Corps of Engineers	Personal Contact by EM	Supplied updated Dam Breach Emergency Action Plans for Corps of Engineers Projects Also provided input on review of strategy.
Calianese, Ed	Warning Coordination Meteorologist	Tulsa National Weather Service Forecast Office	Personal Contact by EM	Provided/Reviewed information on weather hazards Also provided input on review of strategy as a citizen of our community.

2.3 Community Involvement

During the 2024 period, the public was invited to attend the Planning Team meetings. All public meetings were designed to encourage and invite input from private citizens and local officials. The public was invited to attend through postings on the city website and at City Hall. Attendance rosters and minutes from these meetings is included as Appendix 2.

A presentation was made to the Owasso Strong Neighborhoods Initiative. The plan background and hazard analysis were discussed, and an invitation was issued to those in attendance to participate in the Planning Team meetings and/or provide input to the team. No feedback was received.

A public survey was placed on the City of Owasso's website in 2024.

The public was invited to participate in the process via a page posted on the City's Emergency Management website, where they could take a survey about how hazards had affected their neighborhood; review the draft plan; contribute pictures for use in the draft; and learn about public meetings they could attend. Continuing to solicit public feedback is a critical component of plan implementation. Citizens of Owasso and patrons of Owasso Public schools shall be invited to comment on the plan and shall be given an opportunity for on-line feedback as well as contact information for the Emergency Management. Social media, newsletters, and websites will be used to invite the public to participate. Planning Team meetings will be open to the public. Meeting notices will be published through the City Clerk's Office in accordance with the Oklahoma Open Meetings Act when those meetings are held.

2.4 Bibliography of Literature Used in Planning

References and Source Materials

A wide range of literature and resources were consulted to identify mitigation measures for each hazard. These references include both items directly used in preparing this plan and materials of potential interest to the Planning Team. The inclusion of a resource does not imply endorsement.

1. Birch Lake Dam Emergency Action Plan. Tulsa District, U.S. Army Corps of Engineers, Tulsa, OK. June 2022.
This Emergency Action Plan was reviewed to understand dam safety protocols and potential downstream inundation. Information on inundation zones supported the dam failure hazard profile and reinforced Owasso's planning for

cascading impacts on utilities and transportation routes.
Sections: 3.3.1 Dam Failure Profile

2. City of Tulsa Hazard Mitigation Plan. City of Tulsa, Tulsa, OK. 2024.
The Tulsa HMP provided regional context for hazard trends and best practices in mitigation actions. Owasso's plan integrated lessons learned on stormwater management and community outreach for flooding and tornado hazards.
Sections: 3.3.4 and 3.3.7

3. Cleveland County Hazard Mitigation Plan. Cleveland County, Norman, OK. 2020.
This plan informed the comparative hazard ranking approach and methodology used in Owasso's Risk Assessment. Hazard definitions and vulnerability assessment techniques were adapted for local use.
Sections: 3.3.5

4. Disaster Mitigation Guide for Business and Industry (FEMA-190). FEMA, Washington, DC. 1990.
Although dated, this guide provided examples of private-sector preparedness and continuity planning. Elements were incorporated into mitigation actions encouraging business resilience.
Sections: 4.4 Mitigation Actions

5. FEMA Region 6 Oklahoma Mitigation Assistance Resource Guide. FEMA Region 6, Denton, TX. November 2020.
This guide outlined funding mechanisms available to Oklahoma communities. It was used to identify potential grant opportunities for priority projects.
Sections: 4.4 Mitigation Actions

6. Flood Insurance Rate Maps (FIRMs) and Risk MAP Products. FEMA, Washington, DC. Accessed 2023.
FIRMs and Risk MAP depth grids were incorporated directly into the flood hazard profile. Floodplain boundaries and base flood elevations supported exposure analysis of critical facilities and vulnerable populations.
Sections: 3.3.4

7. GrOwasso 2035 Land Use Master Plan. City of Owasso, Owasso, OK. August 2022.
Future land use designations were overlaid with hazard layers to evaluate where growth may intersect with floodplains and severe weather exposure. This shaped mitigation actions addressing resilient growth management.

8. Hazard Identification and Risk Assessment. Cleveland County Health Department, Norman, OK. 2021.
This assessment provided methodological insight for hazard profiling and public health considerations. It informed the approach to Owasso's hazard analysis, particularly for extreme heat and infectious disease hazards.
Sections: Chapter 3

9. Hazard Mitigation Planning Guide. American Planning Association, Washington, DC. 2020.
This guide reinforced best practices for linking hazard mitigation planning with comprehensive planning. It influenced integration of mitigation strategies with zoning, subdivision, and land use regulations.
Sections 2.1

10. Hazard Mitigation Policy Guide. APA, Washington, DC. July 2020.
Policy recommendations helped align Owasso's plan with national mitigation priorities and guided policy recommendations on resilient development standards.
Sections/Figures: 7.1

11. Lifestyle Owasso Magazine. Owasso Chamber of Commerce, Owasso, OK. 2021.
Provided insights into community character and economic drivers, informing the vulnerability assessment of local businesses and cultural assets.

12. Local Mitigation Planning Handbook. FEMA, Washington, DC. May 2023.
Served as the primary federal reference for plan structure and review requirements, guiding both the planning process and risk assessment framework.

13. Local Mitigation Planning Policy Guide. FEMA, Washington, DC. April 11, 2025.
The 2025 policy guide provided current guidance for federal compliance, influencing Section 5.0 Mitigation Strategy formatting.

14. Mitigation: Federal Interagency Operational Plan. FEMA, Washington, DC. August 2016.
Provided a federal interagency perspective on mitigation coordination, reflected in the stakeholder engagement process.

15. Mitigation Ideas. FEMA, Washington, DC. 2013.
Served as a source for developing Owasso's menu of potential mitigation actions, particularly for flood, severe weather, and drought hazards.
Sections: 3.3.2

16. Oklahoma Mitigation Assistance Resource Guide. FEMA, Washington, DC. November 2020.
Used to identify state-level technical assistance and financial support options, guiding prioritization of projects for HMGP and BRIC funding.
Sections: 7.1

17. Oologah Lake Dam Emergency Action Plan. Tulsa District, U.S. Army Corps of Engineers, Tulsa, OK. February 2023.
Reviewed for downstream inundation potential and emergency response coordination.
Sections/Figures: 3.3.1 Dam Failure Profile; Fig. 3.3.1

18. Owasso Capital Improvement Plan. City of Owasso, Owasso, OK. 2022.
Cross-referenced to align proposed mitigation projects with capital priorities, improving feasibility of flood and drainage actions.
Sections: 5.1.2

19. Owasso Economic Development Strategy. City of Owasso, Owasso, OK. February 2018.
Highlighted economic growth areas and business priorities, informing vulnerability assessment of critical economic facilities.
Sections: 5.1.3

20. Owasso Master Drainage Plan. City of Owasso, Owasso, OK. October 2019.
Hydraulic modeling provided baseline data for local flood profiles; peak flow estimates compared against FIRMs for exposure analysis.
Sections: 5.5.4

21. Owasso Subdivision Regulations. City of Owasso, Owasso, OK. 2023.
Evaluated existing resilience criteria; recommendations propose enhanced subdivision design standards.
Sections: 5.1.5

22. Owasso Transportation Master Plan. City of Owasso, Owasso, OK. August 2015.
Transportation infrastructure priorities cross-checked against hazard maps to identify lifeline vulnerabilities.
Sections: 5.1.1

23. Owasso Zoning Code. City of Owasso, Owasso, OK. 2023.
Zoning districts overlaid with hazard layers to assess land use compatibility with hazard zones.
Sections/Figures: 5.1.6

24. Regional Hazards & Vulnerabilities Assessment. Region 7 Health Care Coalition, Tulsa, OK. December 2021.
Identified vulnerabilities of healthcare facilities, integrated into lifeline vulnerability assessment.
Sections: 4.1

25. Rogers County Hazard Mitigation Plan. Rogers County Emergency Management, Claremore, OK. 2019.
Provided neighboring hazard priorities and mitigation actions for regional consistency and partnership opportunities.
Sections: 4.1

26. Simple Planning Tool for Oklahoma Climate Hazards. Southern Climate Impacts Planning Program, Norman, OK. January 2023.
Provided climate projections and hazard data, informing extreme heat and drought hazard sections.
Sections/Figures: 1.3

27. Skiatook Lake Dam Emergency Action Plan. Tulsa District, U.S. Army Corps of Engineers, Tulsa, OK. July 2023.
Reviewed for dam failure hazard implications and emergency response protocols.
Sections: 3.3.1

28. State of Oklahoma Hazard Mitigation Plan. Oklahoma Department of Emergency Management, Oklahoma City, OK. January 2024.
Provided statewide hazard profiles and mitigation priorities, aligning Owasso's plan with state goals.

29. Stone Canyon Lake Dam Emergency Action Plan. Kellogg Engineering, Tulsa, OK. December 2018.
Consulted for dam hazard identification in northern Owasso; informed potential inundation impacts.
Sections: 3.3.1

30. Tribal Hazard Mitigation Plan. Cherokee Nation of Oklahoma, Tahlequah, OK. January 2023.
Reviewed to ensure coordination with tribal jurisdictions and culturally-appropriate mitigation strategies.

31. Understanding Your Risks: Identifying Hazards and Estimating Losses (FEMA 386-2). FEMA, Washington, DC. August 2001.
Provided risk assessment methodology; concepts of hazard probability, magnitude, and vulnerability applied in hazard ranking.

32. Virtual Local Hazard Mitigation Planning Workshop Student Manual. FEMA, Washington, DC. August 2023.
Provided updated training content on local hazard mitigation planning, influencing outreach and stakeholder

engagement.
Sections 2.1

33. Yahola Lake Dam Emergency Action Plan. City of Tulsa, Tulsa, OK. December 2021.
Reviewed for dam hazard assessment; inundation mapping helped identify downstream risks affecting Owasso.
Sections: 3.3.1



Chapter 3:
Hazard Identification and Risk Assessment

3.1 Hazard Overview and List of Declared Events

Through the planning process it was decided the following natural hazards would be profiled in the City Plan:

Dam Failure	*Severe Storms (Hail, Lightning)*
Drought	*Soil Hazards (Earthquake, Landslides, Expansive Soils/Soil Subsidence)*
Extreme Heat	*Tornado*
Flooding	*Wildfire*
High Winds	*Winter Storms (Freezing Rain, Ice, and Snow)*

These hazards are listed in alphabetical order, and not prioritized in order of risk and vulnerability. Included within certain hazard profiles are generally accepted methods in various disciplines of that hazard's measurement, impact, or scale. Probability and occurrence data were retrieved for each hazard and was considered to best reflect the hazard and its periodicity to the planning area. Specific events and occurrences were included in certain profiles as a benchmark to reference occurrences of that hazard.

3.2 Probability and Risk Analysis Criteria Element

Each hazard in the City Plan was analyzed using probability, severity, warning time, and duration data to calculate the Calculated Priority Risk Index (CPRI). This multi-faceted approach enables users of the City Plan to prioritize the effects of each hazard in a more complete way.

Calculated Priority Risk Index (CPRI)

The vulnerability assessment builds upon the previously developed hazard information by identifying the community assets and development trends and intersecting them with the hazard profiles to assess the potential amount of damage that could be caused by each hazard event.

CPRI Formula

CPRI = (Probability Score x .45) + (Magnitude Severity Score x .30) + (Warning Time Score x .15) + (Duration Score x .10)

Definitions of CPRI Categories

Probability – a guide to predict how often a random event will occur. Annual probabilities are expressed between 0.001 or less (unlikely) up to 1 (highly likely). An annual probability of 1 predicts that a natural hazard will occur at least once per year. Assigned weighting factor is 45%.
Impact – indicates the impact to a community through potential fatalities, injuries, property loss, and/or losses of services. The vulnerability assessment gives information that is helpful in making this determination for each community. Assigned weighting factor is 30%.

Warning Time – plays a factor in the ability to prepare for a potential disaster and to warn the public. The assumption is that more warning time allows for more emergency preparations and public information. Assigned weighting is 15%.

Duration – relates to the span of time local, state, and/or federal assistance will be necessary to prepare, respond, and recover from a potential disaster event. Assigned weighting factor is 10%.

Probability

Score	Description	Explanation
1	Unlikely	Less than 10% probability in any given year (below 1 in 10 chance of occurring), history of events is less than 10% likely or the event is unlikely but there is a possibility of its occurrence.
2	Possible	Between 10% and 19% probability in any given year (less than 1 in 5 chance of occurring), history of events is greater than or equal to 10% but less than 20%, or the event is possible to occur
3	Likely	Between 20% and 33% probability in any given year (up to 1 in 3 chance of occurring), history of events is greater than or equal to 20% and but less than 33%, or the event is likely to occur
4	Highly Likely	More than 33% probability in any given year (event has up to a 1 in 1 chance of occurring), history of events is greater than 33% likely or the event is highly likely to occur.

Impact

Score	Description	Explanation
1	Negligible	Less than 10% of property severely damaged, shutdown of facilities and services for less than 24 hours, and/or injuries/illnesses treatable with first aid
2	Limited	10% to 25% of property severely damaged, shutdown of facilities and services for more than a week, and/or injuries/illnesses that do not result in permanent disability

3	Critical	More than 25% and up to 50% of property severely damaged, shutdown of facilities and services for at least 2 weeks, and/or injuries/illnesses that result in permanent disability.
4	Catastrophic	More than 50% of property severely damaged, shutdown of facilities and services for more than 30 days, and/or multiple deaths

Warning Time

Score	Description
1	More than 24 hours warning time
2	12 to up to 24 hours warning time
3	6 to up to 12 hours warning time
4	Minimal or no warning (Less than 6 hours warning)

Duration

Score	Description
1	6 hours or less
2	Up to 1 day
3	Up to 1 week
4	More than 1 week

Overall Hazard Ranking

Low: The event has a minimal impact on the planning area.

Moderate: The event's impacts on the planning area are noticeable but not devastating.

High: The criteria consistently fall in the high classifications and the event is likely/highly likely to occur with severe strength over a significant to extensive portion of the planning area.

Natural Hazard	Probability	CPRI	Overall Ranking*
Dam Failure	Unlikely	2.50	Low

Drought	Likely	2.80	High
Extreme Heat	Likely	2.30	High
Flood	Highly Likely	3.75	High
High Wind	Possible	1.85	Moderate
Severe Storm	Highly Likely	3.05	High
Soil Hazards	Possible	1.90	Low
Tornado	Possible	2.15	Moderate
Wildfire	Possible	2.10	Moderate
Winter Storm	Possible	1.95	Moderate

*The overall hazard ranking was compiled by utilizing the probability score, CPRI and discussion between the Owasso Hazard Mitigation Planning Team Meetings.

3.2.1 Owasso Disaster Declarations 2012-2022

Disaster#	Declaration Date	Incident Type
EM-3308	01/30/2010	Severe Winter Storm
DR-1876	02/25/2010	Severe Winter Storm
DR-1883	-3/05/2010	Severe Winter Storm
DR-1985	5/13/2011	Winter snow Storm
EM-3316	22/2011	Winter Storm
DR-4222	5/26/2015	Tornado=Flooding
DR-4315	7/7/2017	Severe Storms, Tornadoes, Flooding
DR-4438	6/1/2019	Severe Storms, Straight-line Winds, Tornadoes, and Flooding
EM-3411	5/25/2019	Flooding
DR-4530	04/05/2020	Covid-19 Pandemic
EM-3555	02/17/21	Severe Winter Storm
DR-4721	09/07/2023	Severe Storms, Straight-Line Winds, and Tornadoes

3.3 Hazard Profiles Elements

The following data will be discussed in each hazard profile:

HAZARD PROFILE ELEMENTS	DATA TO BE DISCUSSED
DESCRIPTION	A brief explanation of each hazard.
LOCATION	A description of which areas of the city experience this hazard. When needed, maps will accompany the narrative description.
PREVIOUS OCCURRENCES	Previous occurrence events that are relevant and information of the hazard.
PROBABILITY AND RISK CALCULATION	A summary of the probability, impact, warning time, and duration of the event. Narrative regarding if the risk from the hazard is expected to increase or decrease in the future.
VULNERABILITY AND IMPACT	A summary of jurisdictions and/or regions most threatened by each hazard and a summary of jurisdictions most susceptible to damage and loss from hazard events related to population and assets (such as infrastructure, critical facilities, systems, and potential dollar losses).

3.3.1 Dam Failure

For all dams profiled in this document, potential impacts would extend to both the City of Owasso and Owasso Public Schools.

Description

The Federal Emergency Management Agency (FEMA) defines a dam as "an artificial barrier that has the ability to impound water, wastewater, or any liquid-borne material for the purpose of storage or control of water." Dams typically are constructed of earth, rock, concrete, or tailings (chaff) from mining operations. A dam failure is the collapse, breach, or other failure resulting in downstream flooding. The amount of water impounded in the reservoir behind a dam is measured in acre-feet. As a function of upstream topography, even a very small dam may impound or detain many acre-feet or millions of gallons of water.

A break in a dam produces an extremely dangerous flood situation because of the high velocities and large volumes of water. In the event of a dam failure, the potential energy of the water stored behind even a small dam can cause great property damage, as well as loss of life if there are people downstream from the dam. The extent of this inundation may be minimal to uninhabited farmland or catastrophic in an urban environment.

Dam failures are most likely to happen for one of these reasons:

• Overtopping caused by water spilling over the top of a dam

• Structural failure of materials used in dam construction

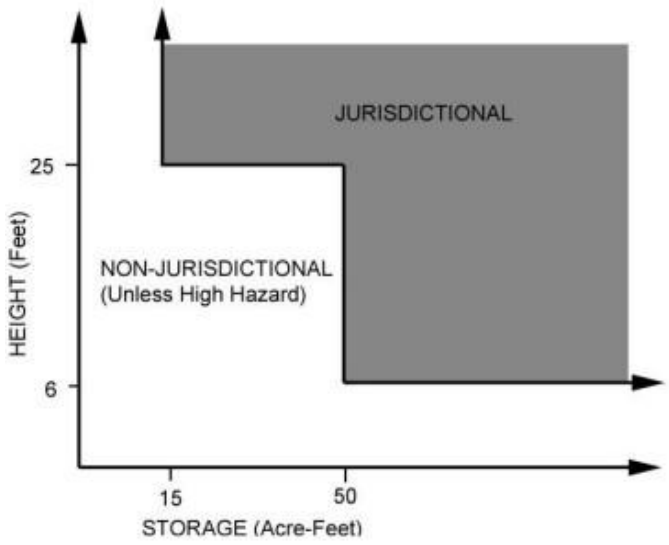
• Cracking caused by movements like the natural settling of a dam

• Inadequate maintenance and upkeep.

• Piping when seepage through a dam is not properly filtered and soil particles continue to progress and form sinkholes in the dam.

• Geological instability caused by changes to water levels during filling or poor surveying.

• Human, computer or design error.



OWRB Jurisdictional Sizes of Dams

Flooding can occur downstream from a dam without the structure being breached. Sometimes, to prevent overtopping and catastrophic failure, dams are forced to make emergency releases of large amounts of water, which can cause downstream flooding.

Any dam that has a height of 25 feet or more from the natural streambed and/or 50 acre-feet or more of storage capacity, is under the jurisdiction of the Oklahoma Water Resources Board (OWRB).

The OWRB also classifies dams as high hazard, significant-hazard, and low hazard, depending on the downstream populations and infrastructure. The hazards are based on first, potential for loss of life from a breach and secondly from the level of economic damage that will occur downstream from a breach. *Figure 1* identifies the risk and required inspection frequency for these dams.

Location

The inundation zones for these dams affect the planning area.

Skiatook Lake Dam is located on Hominy Creek in Osage County approximately 4 miles west of the town of Skiatook or 14 miles upstream from the confluence of Hominy Creek and Bird Creek.

Oologah Lake Dam is located on the Verdigris River in Rogers County approximately 1.5 miles southeast of the town of Oologah.

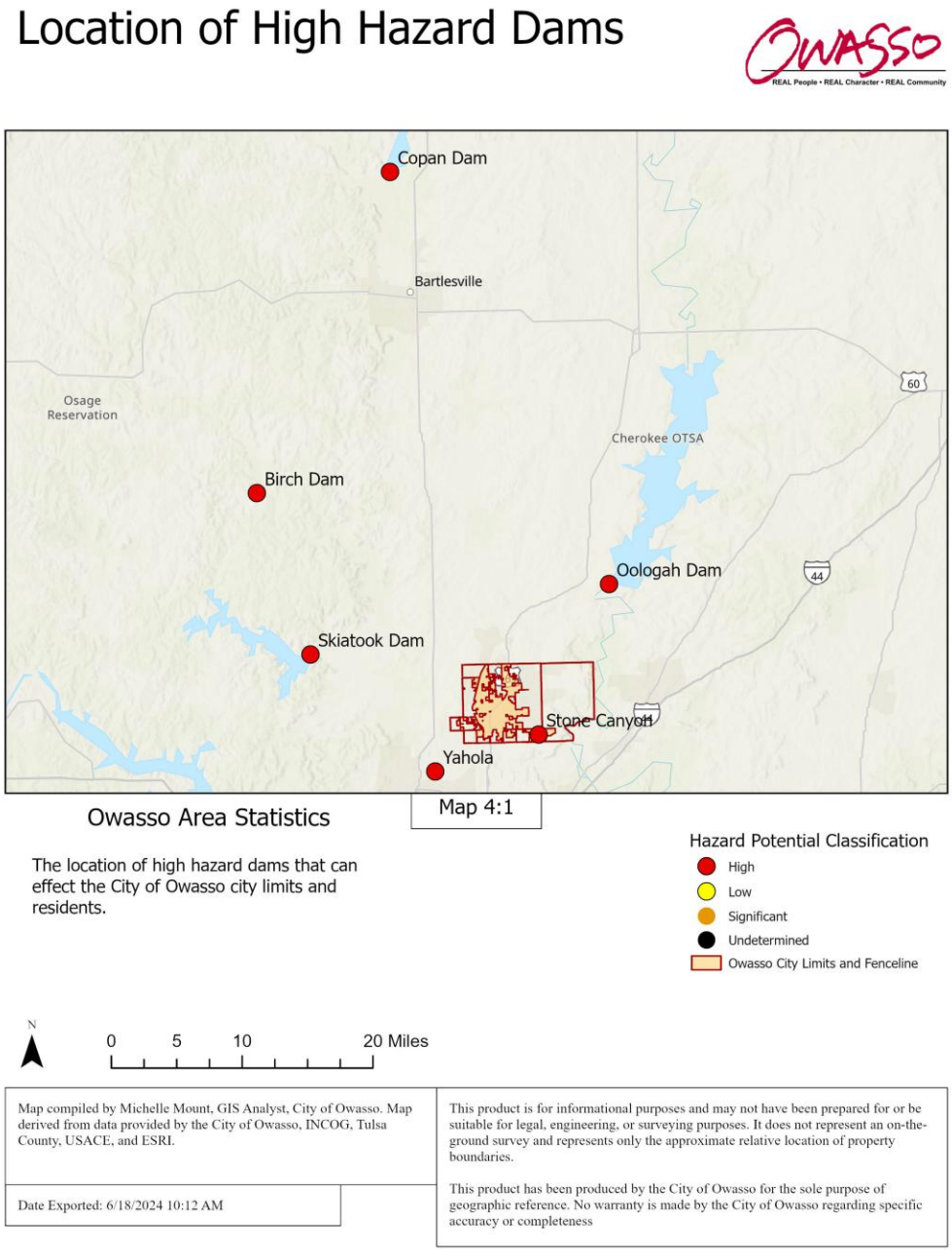
Skiatook Lake and Oologah Lake Dams are Federally regulated High Hazard dams which are operated by the U.S. Army Corps of Engineers.

Stone Canyon Dam is located on an unnamed creek in Rogers County. It is south of 76th Street North and west

of 177th East Avenue in the Stone Canyon Addition. Stone Canyon Lake Dam is a privately-owned High Hazard Dam located in the Stone Canyon Addition. Flood depth ranges are not available as no gauge is at this location.

The Tyann Dam is located in Tulsa County south of 96th Street North and West of 129th East Avenue. The Tyann Lake Dam is privately owned and the Region Detention Facility Dam .

The 96th Street Detention Facility Dam is located in Tulsa County south of 96th Street North and west of Garnett Road. Flood depth ranges are not available as no gauge is at this location.



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

SKIATOOK LAKE **Purpose:** Flood control, water quality, water supply, recreation, and fish and wildlife management.	ELEVATION	INCREMENT STORAGE		CUMULATIVE STORAGE	
	(feet)	(inches)	(acre-feet)	(inches)	(acre-feet)
Flood Control Pool:	729.00	9.41	177,692	26.43	499,099
Conservation Pool:	714.00	16.42	310,085	17.02	321,407
Inactive Pool:	657.00	.06	11,321	.06	11,321

OOLOGAH LAKE **Purpose:** Flood control, water quality, water supply, recreation, and fish and wildlife management.	ELEVATION	INCREMENT STORAGE		CUMULATIVE STORAGE	
	(feet)	(inches)	(acre-feet)	(inches)	(acre-feet)
Surcharge Pool:	666.00	2.46	299,753	13.99	1,705,142
Flood Control Pool:	661.00	7.78	948,228	11.53	1,405,388
Conservation Pool:	638.00	3.73	455,081	3.75	457,159
Inactive Pool:	592.00	.02	2,078	.02	2,078

Previous Occurrence

There is no comprehensive list of dam failures or incidents that have occurred in Owasso.

Probability and Risk Calculation

Natural Hazard	Probability	CPRI	Overall Ranking
Dam Failure	Unlikely	2.50	Low

Vulnerability and Impact

Vulnerability and Impact – City of Owasso

Structural:
The City's sewer treatment plant could be inundated by floodwaters, resulting in damage to operational equipment. City parks, municipal buildings, and public equipment may also be damaged when creek and river channels overflow. Roads, water and sewer lines, and electrical infrastructure are vulnerable to damage from moving water. Flood events could also result in the loss of power generation from any equipped dams.

Human:
Individuals residing within the floodplain who do not evacuate in time face a risk of injury or loss of life. The number of people affected depends on the population within the inundation zone, the amount of advance warning, and the level of pre-event education and preparedness. A catastrophic loss of the municipal water supply is also possible.

Social/Political:
No direct impacts identified.

Cultural/Organizational:
Flooding could lead to the loss of recreational opportunities in parks and lake areas within the city.

Resource/Informational:
Some residents may not receive evacuation notices, as no combination of communication methods can guarantee 100% coverage.

Economic:
Local businesses and commerce may experience losses due to lack of access, water damage to facilities, or disruption of utilities.

Environmental:
Damage to the sewer treatment plant could result in untreated sewage discharging into Bird Creek, impacting downstream areas including the Bird Creek and Verdigris River habitats. Severe loss of flood control and damage reduction capability is also possible.

Impact on Utilities

Electricity
The Grand River Dam Authority (GRDA) is a non-profit agency established by the Oklahoma state legislature in 1935 to control, develop, and maintain the Grand River waterway. Headquartered in Vinita, Oklahoma, GRDA is self-funded through the sale of electricity and water. According to its 2022 Annual Report, GRDA reported nearly $670 million in operating revenue, up from approximately $397 million in 2020. GRDA operates three hydroelectric facilities and two reservoirs—Grand Lake, Lake Hudson, and the Salina Pumped Storage Project, which includes Lake W. R. Holway. Additionally, GRDA owns and operates the GRDA Energy Center (formerly the Coal-Fired Complex). GRDA's service area spans 24 counties in northeastern Oklahoma, transmitting and delivering electricity through an extensive energy delivery system. It serves three main customer classes: municipals, electric cooperatives, and industries.

Gas
Transmission pipelines in the region are vulnerable to damage from natural disasters. Uprooted trees can fall onto pipelines within their dripline, and flooding or soil erosion may expose pipelines, increasing the risk of breaches.

Transportation Systems
Significant flooding resulting from dam failures or high water releases can lead to regional highway flooding, limiting access to affected areas. Bridges crossing nearby rivers and creeks are at risk of being overtopped, further restricting ground transportation. In counties such as Mayes County, virtually all major access routes—including State Highways 20, 28, 82, and U.S. Highways 69 and 412—are vulnerable to dam failure-related flooding.

Regional Electrical Service
The Southwestern Power Administration (SWPA), a federal agency within the Department of Energy established in 1943, markets hydroelectric power from 24 U.S. Army Corps of Engineers multipurpose dams across Arkansas, Kansas, Louisiana, Missouri, Oklahoma, and Texas. SWPA primarily supplies public bodies such as rural electric cooperatives and municipal utilities, serving over eight million end-use customers. The agency operates and maintains 1,380 miles of high-voltage transmission lines, substations, and a communications network that includes microwave, VHF radio, and fiber optics.

Extent

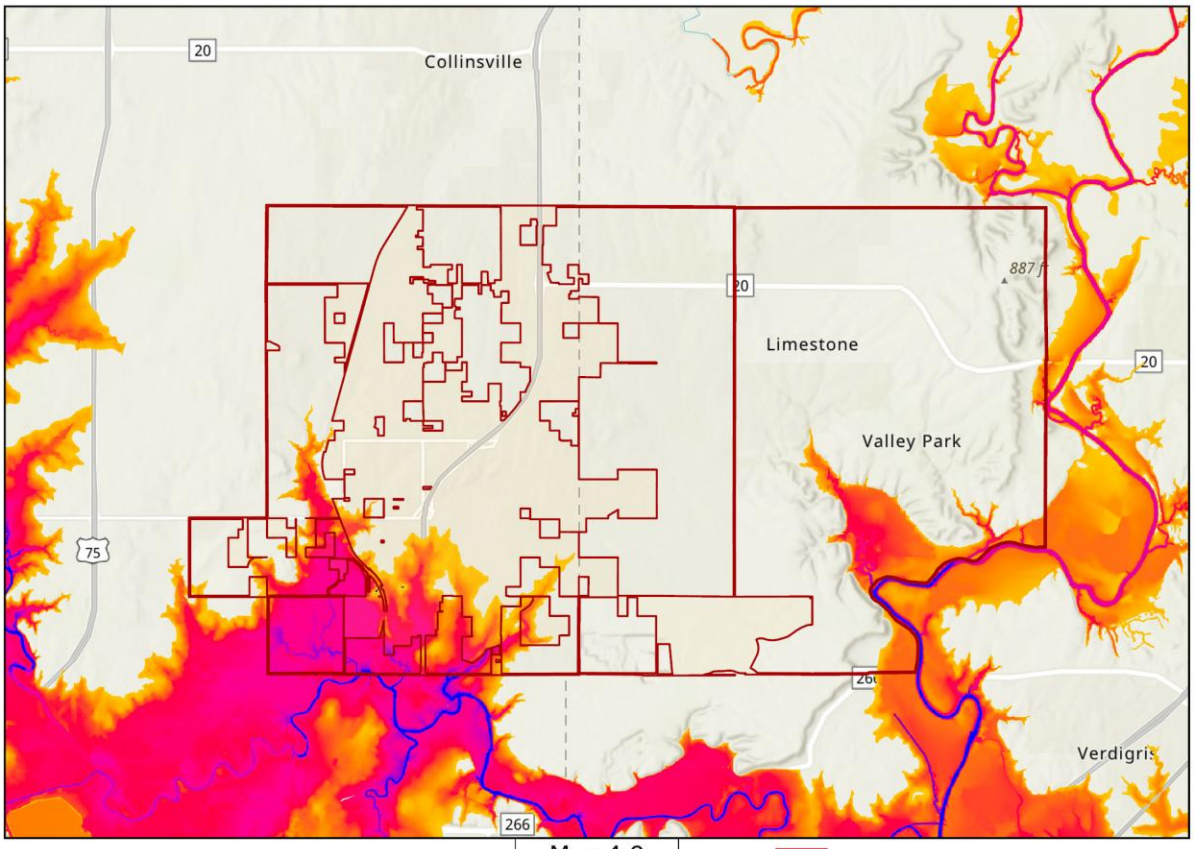
The planning area could experience a range of impacts from dam failure, including minor flooding, property damage, infrastructure damage, and potential loss of life. Based on available inundation maps and flood gauge data for each dam, flood depths in affected areas are as follows:

Dam Name	Flood Depth Range (ft)	Notes / Data Limitations	Jurisdictions Affected
Skiatook	82.5218 – 104.586	Based on inundation maps and available flood gauges	City of Owasso, Owasso PS
Oologah	74.3487 – 113.0517	Based on inundation maps and available flood gauges	City of Owasso, Owasso PS
Stone Canyon	N/A	Flood depth data unavailable due to lack of gauges and insufficient modeling	City of Owasso, Owasso PS
Tyann	N/A	Flood depth data unavailable due to lack of gauges and insufficient modeling	City of Owasso, Owasso PS

Where flood depth data are unavailable, this is due to the absence of gauge measurements or insufficient hydrologic modeling for the site.

In the event of a dam failure, the planning area could experience a range of impacts, from localized flooding and property damage to widespread structural damage and potential loss of life. The severity would depend on factors such as the size of the dam failure, the volume of water released, and the location of vulnerable development. Potential impacts would extend to both the City of Owasso and Owasso Public Schools.

MH Flood Inundation
Lake Skiatook



Map 4:9

Owasso Area Statistics

The map above represents the flooding impact to the City of Owasso and the Owasso fenceline when Lake Skiatook is at maximum high pool level (MH). The time for the inundation to arrive in the City of Owasso after the dam breach is ? hour and ?? minutes.

Owasso City Limits and Fenceline

Skiatook MH Breach

Value

113.546

3.05176

N

0 1.252.5 5 Miles

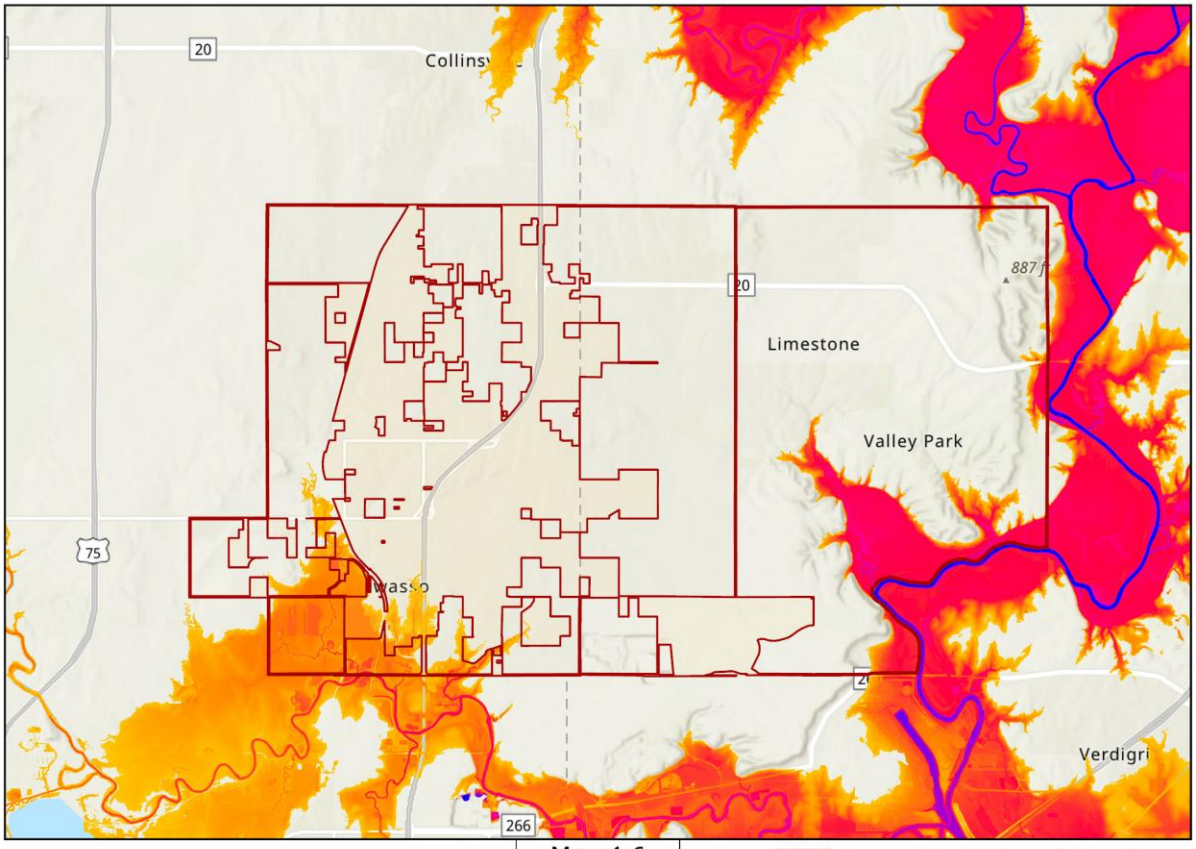
Map compiled by Michelle Mount, GIS Analyst, City of Owasso. Map derived from data provided by the City of Owasso, INCOG, Tulsa County, USACE, and ESRI.

Date Exported: 7/24/2024 11:39 AM

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

This product has been produced by the City of Owasso for the sole purpose of geographic reference. No warranty is made by the City of Owasso regarding specific accuracy or completeness

MH Flood Inundation
Lake Oologah



Map 4:6

Owasso Area Statistics

The map above represents the flooding impact to the City of Owasso and the Owasso fenceline when Lake Oologah is at maximum high pool (MH). The time for the inundation to arrive in the City of Owasso after the dam breach is 1 hour and 40 minutes.

Owasso City Limits and Fenceline

Oologah MH Breach

Value

104.586

0.000976562

N

0 1.252.5 5 Miles

Map compiled by Michelle Mount, GIS Analyst, City of Owasso. Map derived from data provided by the City of Owasso, INCOG, Tulsa County, USACE, and ESRI.

Date Exported: 7/3/2024 8:09 AM

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3.3.2 Drought

Description

A drought is defined as "a period of abnormally dry weather sufficiently prolonged for the lack of water to cause serious hydrologic imbalance in the affected area" (Glossary of Meteorology, 1959). Drought can be classified into four distinct types:

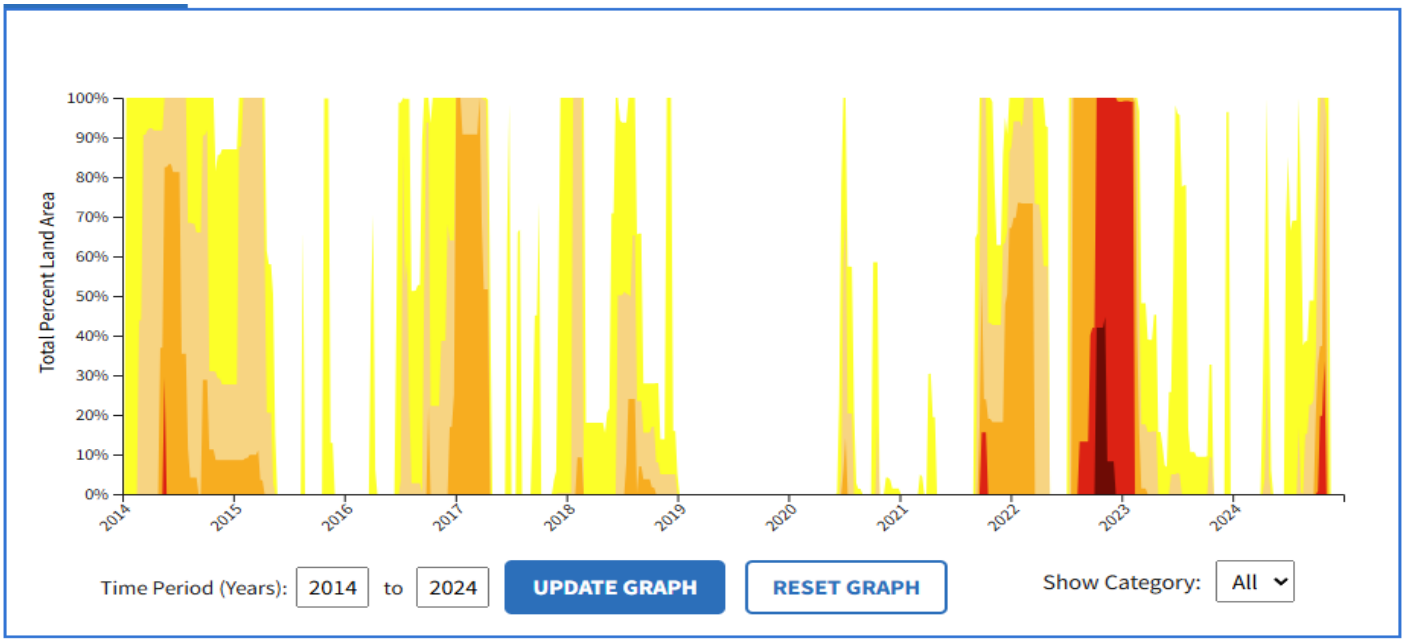
- **Meteorological Drought:** Characterized by a departure of precipitation from normal levels. Due to climatic variations, conditions considered a drought in one region may not constitute a drought in another.
- **Agricultural Drought:** Occurs when soil moisture levels fall below the requirements needed to sustain a particular crop.
- **Hydrological Drought:** Defined by below-normal surface and subsurface water supplies, such as rivers, reservoirs, and groundwater.
- **Socioeconomic Drought:** Happens when physical water shortages begin to impact human activities, affecting social and economic systems.

Location

Drought can be experienced across the city of Owasso frequently. As seen on the table below, the entire City of Owasso has seen at least one level of drought based on the U.S. Drought monitor, from 2014 to 2022.

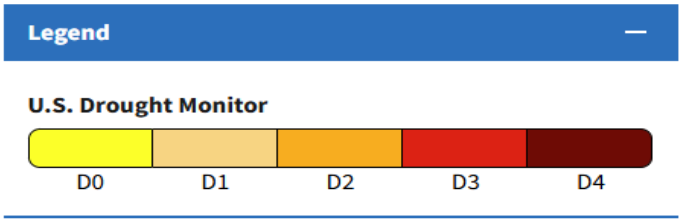
Date	Damage Scale/Intensity	Extent/Description
January – February 2014	Moderate Drought	This period was very dry and very cold across the region. Precipitation totals ranged from 0 to 5 percent of normal resulting in moderate drought conditions. Monetary estimates of the damage were not available.
April-May 2014	Severe Drought	Central and Northern Oklahoma experienced its 28th driest May on record. This led to Severe drought conditions across the planning area. Monetary estimates of the damage resulting from the drought were not available.
October 2015	Moderate Drought	Warmer and drier conditions were experienced across Oklahoma. Most stations reported less than 70% of normal rainfall. This resulted in moderate drought conditions across the planning area. Monetary estimates of the damage resulting from the drought were not available.
February 2016	Moderate Drought	This was an extremely dry period for most of Texas and Oklahoma with the area receiving between 25 and 50 percent of normal rainfall. This resulted in a moderate drought for the planning area. Monetary estimates of the damage resulting from the drought were not available.
June 2016	Extreme Drought	A warmer than normal June was experienced. Precipitation was predominantly controlled by convective activity with very dry conditions experienced across eastern Oklahoma. This resulted in extreme drought conditions across the planning area. Monetary estimates of the damage resulting from the drought were not

		available.
November-December 2016	Severe Drought	Precipitation across eastern Oklahoma was well below average during the time period with much of northeastern Oklahoma receiving below 25% of the normal average precipitation which compounded a period of below normal precipitation prior to the timeframe resulting in Severe Drought conditions. Monetary estimates of the damage resulting from the drought were not available.
February 2017	Moderate Drought	Precipitation across eastern Oklahoma o the north of Interstate Highway 40was between 25 and 50 % of the normal average. The unusually dry conditions followed a period of below normal rainfall that began in late Summer. Moderate to Severe Drought conditions persisted for the month. Monetary damage estimates resulting from the drought were not available.
September 2017	Moderate Drought	Eastern Oklahoma received 50 to 75% below its normal precipitation for the month, resulting in a moderate drought. Monetary estimates of the damage resulting from the drought were not available.
November-December 2017	Moderate Drought	Temperatures for the period were slightly above normal. Moderate drought conditions affected the area as precipitation totals fell to between 25 and 70 percent of normal. Monetary estimates of the damage resulting from the drought were not available.
May-July 2018	Severe Drought	A typical late spring- early summer weather pattern affected eastern Oklahoma with convective weather systems resulting in localized rainfall that exceeded climatological monthly averages in some areas while below average amounts were seen in other areas. Overall, much of northeastern Oklahoma received below average rainfall for the time period. Monetary estimates of damages due to the drought were not available.



The U.S. Drought Monitor (2000–present) depicts the location and intensity of drought across the country. Every Thursday, authors from NOAA, USDA, and the National Drought Mitigation Center produce a new map based on their assessments of the best available data and input from local observers. The map uses five categories: Abnormally Dry (D0), showing areas that may be going into or are coming out of drought, and four levels of drought (D1–D4). Learn more.

LATEST AVAILABLE DATA: 2025-07-08



Category	Description	Possible Impacts	Palmer Drought Severity Index (PDSI)
D0	Abnormally Dry	Going into drought: • Short-term dryness slowing planting, growth of crops or pastures Coming out of drought: • Some lingering water deficits • Pastures or crops not fully recovered	-1.0 to -1.9
D1	Moderate Drought	• Some damage to crops, pastures • Streams, reservoirs, or wells low, some water shortages developing or imminent • Voluntary water-use restrictions requested	-2.0 to -2.9
D2	Severe Drought	• Crop or pasture losses likely • Water shortages common • Water restrictions imposed	-3.0 to -3.9
D3	Extreme Drought	• Major crop/pasture losses • Widespread water shortages or restrictions	-4.0 to -4.9
D4	Exceptional Drought	• Exceptional and widespread crop/pasture losses • Shortages of water in reservoirs, streams, and wells creating water emergencies	-5.0 or less

U.S. Drought Monitor Categories. Source: National Drought Mitigation Center.

Probability and Risk Calculation

Natural Hazard	Probability	CPRI	Overall Ranking
Drought	Likely	2.80	High

Vulnerability and Impact — Drought

City of Owasso

Structural:
Older structures and infrastructure may be damaged due to soil shrinkage and substructure contraction caused by prolonged dry conditions.

Infrastructure:
Water line breaks are common during drought periods due to soil movement and stress on pipes.

Human:
Children, the elderly, and individuals with respiratory conditions are particularly vulnerable to water shortages. Reduced water availability or contaminated water—especially in rural areas relying on well water—can lead to serious illness.

Social/Political:
Water parks and public pools may close during water restrictions, impacting recreation and community well-being.

Cultural/Organizational:
Historic properties and cultural resources face risks primarily from soil shrinkage that can damage foundations and structures.

Resource/Informational:
Public information campaigns have typically not emphasized water conservation, which may reduce public compliance during drought restrictions.

Economic:
Agricultural production is the most directly affected sector. Owasso purchases treated water from the City of Tulsa and resells it; thus, water supply issues in Tulsa directly impact Owasso. Water rationing during droughts—especially in summer—often leads to reduced water sales and revenue. Businesses and industries using large water quantities may be required to reduce operations. City-operated amenities such as the public golf course, regional sports park, and neighborhood parks face financial losses from vegetation and landscaping damage. Similar losses affect private residential and commercial properties.

Environmental:
Inefficient or aging irrigation systems can exacerbate drought impacts by wasting water. Drought stress can cause tree mortality, increase wind erosion, invite insect infestations and plant diseases, and threaten migratory bird populations.

Owasso Public Schools

Structural:
Older school buildings and infrastructure may experience damage related to soil shrinkage and contraction.

Human:
Students may experience anxiety and depression related to concerns about water shortages affecting their families.

Social/Political:
No significant impacts identified.

Cultural/Organizational:
No significant impacts identified.

Resource/Informational:
No significant impacts identified.

Economic:
Loss of landscaping around school properties can represent a financial loss.

Environmental:
No significant impacts identified.

Impact

City of Owasso

Health and Safety of the Public:
While drought impacts tend to be primarily agricultural, water supply disruptions can affect the broader population. Overall, public health impacts are expected to be minimal.

Health and Safety of Responders:
Drought-induced dry soils reduce moisture in vegetation, increasing wildfire risks. Wildfires tend to be more intense under these conditions, increasing stress and risk for emergency responders.

Continuity of Operations:
No expected impact.

Property, Facility, and Infrastructure:
Impacts can range from minimal to severe depending on drought length and intensity. Structural damage, such as buckling roads and compromised buildings, may occur. Water shortages can impair firefighting efforts in both urban and rural areas.

Environmental Impact:
Farming, ranching, wildlife, and plant communities may suffer due to insufficient precipitation. Increased mortality among livestock and wildlife is possible.

Economic Impact:
Severity and duration of drought determine economic effects. Agriculture-dependent businesses and communities face significant stress. Consumer food prices may fluctuate with supply and demand. Farmers and ranchers may face financial hardship, including loan defaults.

Public Confidence in Governance:
Public trust may decline if drought planning and response measures are inadequate to address water needs and crop losses.

Owasso Public Schools

Health and Safety of Faculty, Staff, and Students:
Minimal impacts are expected.

Continuity of Operations:
No expected impact.

Property, Facility, and Infrastructure Damage:
Potential damage ranges from minimal to severe based on drought severity and duration, including structural damage and buckling of roads or parking lots.

Environmental Impact:
No significant impacts identified.

Economic Impact:
Loss of landscaping may represent a notable financial loss.

Public Confidence in Governance:
Concerns may arise if drought impacts are not adequately addressed by planning and response efforts.

3.3.3 Extreme Heat

Description
Extreme heat is characterized by summertime temperatures that are significantly hotter and/or more humid than average, persisting for at least two consecutive days. In Owasso, the average high temperature during July and August is approximately 93°F, with an average humidity of 56%, placing the area in the National Weather Service's Heat Index "Extreme Caution" zone.

There is no universally accepted definition of a heat wave. The World Meteorological Organization recommends characterizing heat waves by their magnitude, duration, severity, and geographic extent. For this plan, the National Weather Service's Heat Index and Heat Disorders Table were selected as the standard metrics to define and assess extreme heat events.

Location
The entire City of Owasso is susceptible to extreme heat events.

Historical Occurrences of Extreme Heat in Owasso

Date	Information/Damage
7/19/2018	An upper-level ridge of high pressure caused unseasonably hot weather with temperatures reaching 100–105°F and heat indices from 105 to 112°F across eastern Oklahoma.

Date	Information/Damage
7/21/2017	Similar high pressure ridge resulted in temperatures near 100°F and heat indices of 110 to 115°F across eastern Oklahoma, lasting through July 23rd in parts of southeastern Oklahoma.
8/10/2016	Strong ridge of high pressure caused temperatures in the upper 90s to near 100°F with heat indices of 110 to 115°F on August 10th and 11th.
7/6/2016	Ridge of high pressure centered over Texas resulted in temperatures near 100°F and heat indices of 110 to 115°F in northeastern Oklahoma.
6/15/2016	High pressure anchored over south-central U.S. caused mid-90s to near 100°F temperatures and heat indices of 110 to 115°F from June 15th through 17th.
7/25/2014	Strengthening subtropical ridge brought dry, hot weather with highs in the mid-90s to near 100°F and heat indices of 105 to 110°F. Overnight lows remained in the mid to upper 70s, providing little relief.

Heat Index and Heat Disorders Table

The National Weather Service's Heat Index combines temperature and relative humidity to estimate the human-perceived equivalent temperature and risk level for heat-related disorders. The table categorizes risk levels as:

- **Caution:** Fatigue possible due to heat exposure.
- **Extreme Caution:** Sunstroke, muscle cramps, or heat exhaustion are possible.
- **Danger:** Heat disorders likely.
- **Extreme Danger:** Heat stroke or sunstroke highly likely.

Oklahoma, including Owasso, experiences the full spectrum of heat index levels due to frequent temperatures exceeding 100°F combined with varying humidity. This makes extreme heat a persistent hazard requiring ongoing preparedness and mitigation.

Heat Index/Apparent Temperature (°F)	Possible Heat Disorders for People in High Risk Groups
130°F or Higher	Heat/Sunstroke HIGHLY LIKELY with continued exposure
105°F - 130°F	Sunstroke, heat cramps, or heat exhaustion LIKELY, and heatstroke POSSIBLE with prolonged exposure and/or physical activity
90°F - 105°F	Sunstroke, heat cramps, or heat exhaustion POSSIBLE with prolonged exposure and/or physical activity
80°F - 90°F	Fatigue POSSIBLE with prolonged exposure and/or physical activity

Probability and Risk Calculation

Natural Hazard	Probability	CPRI	Overall Ranking
Extreme Heat	Likely	2.30	High

Vulnerability and Impact — Extreme Heat

City of Owasso:

Structural:
Buildings are moderately vulnerable to extreme heat, primarily due to soil expansion and contraction that can cause damage over time.

Human:
Populations particularly vulnerable include low-income and elderly residents who may lack or limit use of air conditioning due to electricity costs. Individuals with disabilities or chronic medical conditions are also more susceptible to heat-related illnesses. Outdoor workers and those engaging in outdoor recreation face increased risk of heat stress.

Social/Political:
No significant impacts identified.

Cultural/Organizational:
Some cultural properties may suffer damage due to soil shrinkage associated with prolonged heat and dry conditions.

Resource/Informational:
Certain individuals and families may not receive timely or adequate information about heat emergencies or appropriate response actions.

Economic:
Productivity, especially in outdoor industries such as construction or agriculture, tends to decrease during extreme heat events.

Environmental:
Vegetation loss can occur due to rapid moisture loss via vapor transpiration under high heat conditions.

Owasso Public Schools

Structural:
Some school properties may be vulnerable to damage from soil shrinkage due to extreme heat.

Human:
Extreme heat poses health risks to all, but especially to children under five, physically less fit individuals, and those living below the poverty line.

Social/Political:
No significant impacts identified.

Cultural/Organizational:
No significant impacts identified.

Resource/Informational:
No significant impacts identified.

Economic:
Costs related to minor damage repair and maintenance may be incurred.

Environmental:
Some loss of landscaping and vegetation is possible.

Impact

City of Owasso:

Health and Safety of the Public:
Extreme heat presents a serious health threat, particularly to vulnerable populations.

Health and Safety of Responders:
Heat stress can increase risks for emergency responders working outdoors, potentially raising injury or fatality rates.

Continuity of Operations:
No expected impact.

Property, Facility, and Infrastructure Damage:
Minor damage is possible, mainly affecting older infrastructure and buildings.

Environmental Impact:
Minor vegetation loss may occur.

Economic Impact:
Potential for minor revenue loss due to decreased productivity and increased maintenance costs.

Public Confidence in Jurisdiction's Governance:
No anticipated loss of public confidence.

Owasso Public Schools:

Health and Safety of Faculty, Staff, and Students:
Extreme heat poses health risks especially for at-risk individuals.

Continuity of Operations:
No expected impact.

Property, Facility, and Infrastructure Damage:
Minor damage may occur, particularly in older structures.

Environmental Impact:
Some loss of landscaping and vegetation is possible.

Economic Impact:
Minor financial impact due to repair and maintenance needs.

Public Confidence in Jurisdiction's Governance:
No anticipated loss of public confidence.

3.3.4 Flooding

Description
A flood is the overflow of a relatively large amount of water beyond its normal confines, especially over land that is usually dry. Flooding extent is typically influenced by the amount of precipitation, rainfall accumulation time, soil saturation, and local terrain.

Several types of flooding occur in Owasso, including:

- **River flooding:** Occurs when a river exceeds its channel capacity and overflows onto surrounding floodplains. The extent depends on precipitation, soil saturation, and terrain.
- **Flash flooding:** Happens when rainfall rates exceed drainage capacity, causing rapid flooding often with little warning. This primarily threatens life and safety.
- **Urban flooding:** Inundation in built environments caused by rainfall overwhelming storm drainage systems, particularly in dense urban areas.

Location

Floodplain management is based on the "1% or 100-year flood," meaning a flood with a 1% chance of occurring in any given year. The Federal Emergency Management Agency (FEMA) designates the Special Flood Hazard Area (SFHA) using this metric, establishing base flood elevations (BFE) and regulatory zones for planning and development along waterways.

The City of Owasso and Owasso Public Schools utilize both the 100- and 500-year flood values to measure flood extents in the planning area.

FEMA's National Flood Insurance Program (NFIP) establishes zones on Flood Insurance Rate Maps (FIRMs) which affect flood insurance rates. The average structure in the SFHA is estimated to experience 2 feet of flooding, causing approximately 25% damage to the structure.

Previous Occurrences

Date	Time	Location	Damage Scale/Intensity	Injuries	Fatalities	Description
10/30/20	4:00 PM	Bird Creek	Minor	0	0	Minor flooding caused Mingo Road closure; ~6 rural homes affected with up to 2 feet of water inside.
5/23/2019	1:00 AM	Bird Creek	100-Year Flood	0	0	Heavy rainfall caused flooding along Bird Creek and tributaries; crest reached 29.84 feet.
3/28/2018	3:15 PM	Bird Creek	100-Year Flood	0	0	Heavy rain caused flooding; 5 units at Wildwood Apartments damaged with up to 0.5 feet of water.

Date	Time	Location	Damage Scale/Intensity	Injuries	Fatalities	Description
5/2/2009	12:45 PM	Bird Creek	100-Year Flood	0	0	Heavy rain over multiple days; Bird Creek crested at 21.09 feet; flood stage lasted approximately 12 hours.

Probability and Risk Calculation

Natural Hazard	Probability	Calculated Priority Risk Index (CPRI)	Overall Ranking
Flood	Highly Likely	3.75	High

Vulnerability and Impact

City of Owasso:

Structural:
Buildings located in the floodway may experience 2 feet or more of water intrusion, causing significant structural damage.

Human:
Flooding may displace residents and cause loss of personal belongings and furnishings.

Social/Political:
No significant impacts noted.

Cultural/Organizational:
Cultural properties within flood-prone areas are vulnerable to flood damage.

Resource/Informational:
Many property owners lack understanding of the NFIP and the importance of purchasing flood insurance even when outside mapped floodplains.

Economic:
Potentially catastrophic structural and content damage. Property values may decline and insurance premiums increase. Tax revenue losses, including ad valorem and sales taxes, could be significant.

Environmental:
Changing weather patterns may increase flood frequency, extent, and severity, impacting local ecosystems.

Vulnerability Summary – Flood

The City of Owasso continues to experience vulnerability related to repetitive flood damage. According to FEMA's NFIP data, Owasso has a small but persistent number of Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties, which represent a disproportionate share of local flood insurance claims. While these properties account for only a fraction of the City's overall building stock, they indicate areas of concentrated, recurring risk.

Owasso participates in the National Flood Insurance Program (NFIP) and administers its program through the Community Development Department. The City adopted Flood Damage Prevention Ordinance No. 367 on March 17, 1987, establishing floodplain management standards consistent with FEMA requirements. As part of its floodplain management responsibilities, the City enforces the Substantial Improvement/Substantial Damage (SI/SD) process, ensuring that structures meeting the 50% threshold of market value are brought into compliance with current floodplain regulations.

Although Owasso is not currently a participant in the Community Rating System (CRS), the City continues to maintain compliance with NFIP minimum standards and has the option to pursue CRS participation in the future. Doing so could further reduce vulnerability and provide residents with flood insurance discounts.

Integration of RL/SRL information has shaped the City's mitigation strategy. Actions in the plan that specifically reduce repetitive losses include:

- Pursuit of FEMA Hazard Mitigation Assistance (HMA) funding for acquisition or elevation of RL/SRL properties.
- Continued enforcement of the floodplain ordinance and SI/SD determinations to prevent repeated damages.
- Coordination with planning and development departments to ensure that future growth does not increase concentrations of at-risk structures.

Owasso Public Schools:

Structural:
Pamela Hodson Elementary School is partially within the regulatory floodplain. Other campuses are outside. Debris accumulation in creeks can cause water backup affecting parking lots and potentially structures.

Human:
Minimal direct impact expected on faculty, staff, and students.

Social/Political:
Minimal impact expected.

Cultural/Organizational:
Some extracurricular events may be delayed or canceled due to flooding.

Resource/Informational:
No significant impacts noted.

Economic:
Equipment damage and property repair costs could be significant. Loss of ad valorem taxes may impact budgets.

Environmental:
Floodwaters may damage parks and recreational facilities on school properties.

Vulnerability Summary OPS – Flood

Owasso Public Schools (OPS)**,** none of the district's campuses are currently identified as RL or SRL properties. However, OPS facilities located adjacent to mapped floodplains remain vulnerable to access disruptions and utility interruptions

during high-water events. Protecting access routes and ensuring continuity of operations are key OPS priorities tied to this plan.

Overall, the City's vulnerability to flooding is concentrated in a limited number of properties but poses outsized risk through repeated damages and recovery costs. Addressing RL/SRL sites remains a high-impact strategy for reducing long-term vulnerability for both the City and its residents.

Impact

City of Owasso:

- **Health and Safety of the Public:**
  Some drivers risk driving into flooded roadways, increasing the risk of injury or death. Warning time and location influence casualties.
- **Health and Safety of Responders:**
  Emergency responders may face hazards rescuing residents and providing services.
- **Continuity of Operations:**
  Temporary relocation of certain government facilities (e.g., Animal Shelter, Vehicle Services) may be necessary.
- **Property, Facility, and Infrastructure:**
  Localized flooding when rainfall exceeds drainage capacity can cause severe impacts in inundated areas.
- **Environmental Impact:**
  Flooding may cause severe ecological damage in affected areas.
- **Economic Impact:**
  Depends on flood severity, duration, depth, and area affected.

Damage Estimate (Based on 1-foot inundation depth):

- 300 Residential Properties: $8,836,767
- 71 Commercial Properties: $22,555,461
- 1 Agricultural Property: $20,629
- **Total Estimated Damage: $31,412,858**
- **Public Confidence:**
  Perceptions of preventability, warning adequacy, and response efficiency influence public trust.

Owasso Public Schools:

- **Health and Safety of Faculty, Staff, and Students:**
  School access may be limited by closed routes, though facilities are generally unaffected.
- **Continuity of Operations:**
  No major disruptions anticipated.
- **Property, Facility, and Infrastructure:**
  Parks, recreational facilities, and drainage-adjacent areas may be damaged by floodwaters.
- **Environmental Impact:**
  Landscaping and agricultural areas may suffer flood damage.
- **Economic Impact:**
  Repair costs may significantly impact school budgets.
- **Public Confidence:**
  Little expected impact unless severe response failures occur.

Flood Damage Prevention Ordinance:

- Ordinance No. . 367 on March 17, 1987,

FIRM Adoption:

- Current Flood Insurance Rate Maps (FIRMs) adopted July 2, 1981

Floodplain Development Permit Process:

- All proposed development within identified Special Flood Hazard Areas (SFHAs) requires a Floodplain Development Permit issued by the City.
- Applicants must submit site plans, elevation certificates, and other documentation as required by ordinance.

Substantial Improvement (SI) / Substantial Damage (SD):

- The City enforces SI/SD requirements in accordance with FEMA's 50% rule.
- Any structure determined to be substantially improved or damaged must be brought into compliance with current floodplain management standards.

Designated Floodplain Administrator:

- The Floodplain Development Office, under the Owasso Public Works Authority, serves as the designated Floodplain Manager.
- Responsibilities include reviewing permits, conducting inspections, maintaining records, and coordinating with the Oklahoma Water Resources Board (OWRB) and FEMA.

Table: Repetitive Loss (RL) and Severe Repetitive Loss (SRL) Properties

Jurisdiction / Area	RL Count	SRL Count	Property Type Notes
Owasso City	1	0	Residential
Tulsa County (outside city limits)	25	2	Residential and commercial mix
City of Tulsa	80	4	Residential and commercial mix
Total	106	6	

Maps

The following maps illustrate floodplain areas within Owasso and estimate populations impacted by census tract.

National Flood Hazard Layer FIRMette

FEMA



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *zone x*
- Future Conditions 1% Annual Chance Flood Hazard *zone x*
- Area with Reduced Flood Risk due to Levee. See Notes. *zone x*
- Area with Flood Risk due to Levee *zone 0*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *zone 0*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

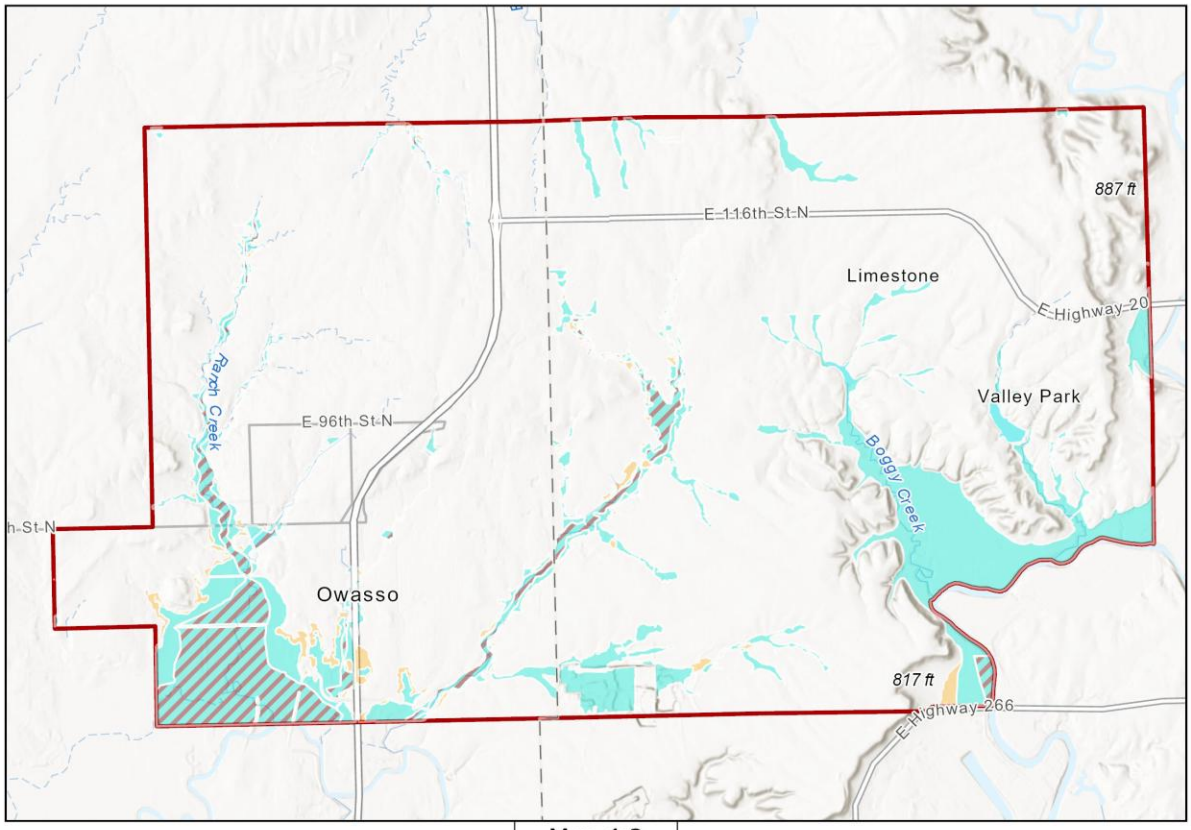
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/ 18 / 2025 at 9:58 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

0 250 500 1,000

City of Owasso Floodplain



Map 4:2

Owasso Area Statistics

Floodway, 100 year Floodplain, and 500 year Floodplain in the City of Owasso Fenceline.

Owasso Floodplain

- FLOODWAY
- 100 year Floodplain
- 500 year Floodplain

N

0 0.75 1.5 3 Miles

Map compiled by Michelle Mount, GIS Analyst, City of Owasso. Map derived from data provided by the City of Owasso, INCOG, Tulsa County, and ESRI.

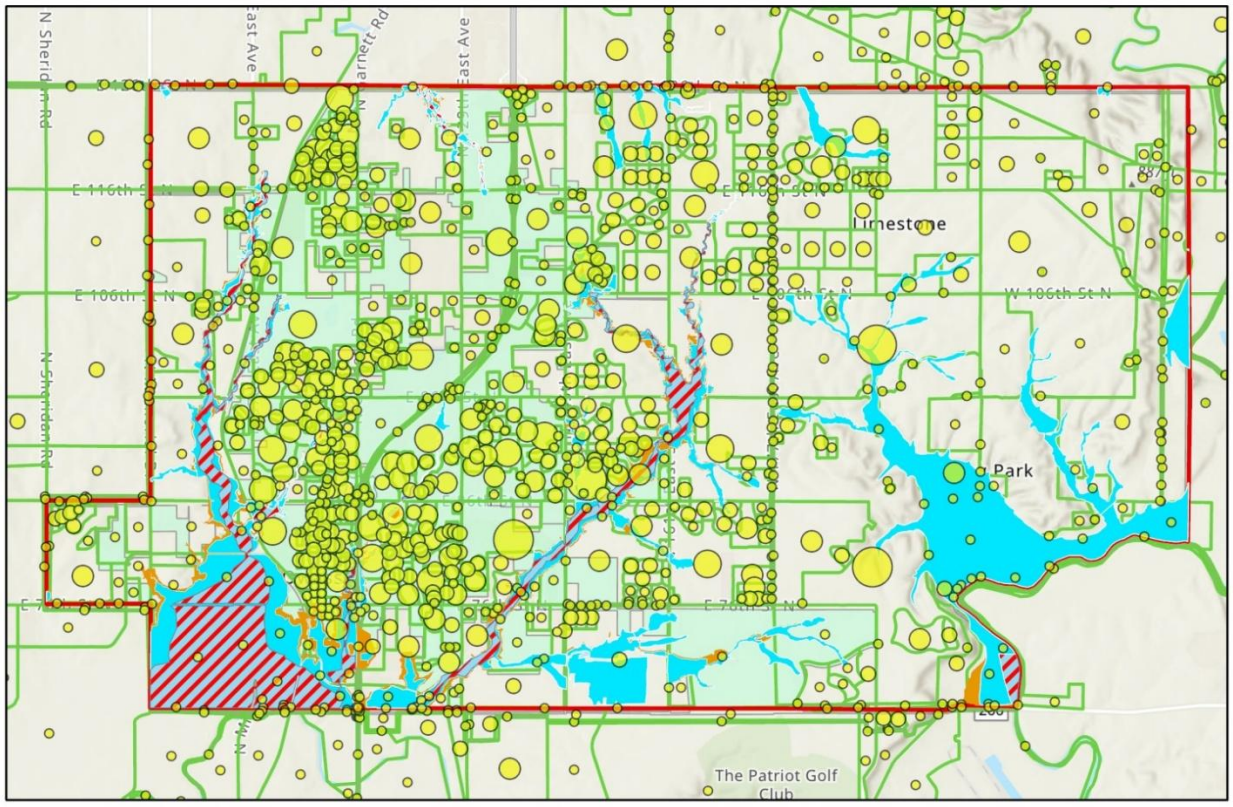
Date Exported: 6/18/2024 5:02 PM

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

This product has been produced by the City of Owasso for the sole purpose of geographic reference. No warranty is made by the City of Owasso regarding specific accuracy or completeness

Census Tracts

Population with Floodplain



Legend
- Owasso Fenceline
- Owasso City Limits
- Census Blocks

Floodplain
- 100 YEAR
- 500 YEAR
- FLOODWAY

Population
- ≤30
- ≤100
- ≤300
- ≤700
- ≤1500

0 0.5 1 2 3 Miles

N

OWASSO
REAL People • REAL Character • REAL Community

Map compiled by Michelle Mount, GIS Analyst, City of Owasso, Oklahoma.
Data derived from the US Census Bureau data collected during the 2014-2018 American Community Survey, FEMA floodplain website, and ESRI.

https://www.census.gov/
https://www.fema.gov/flood-maps

3.3.4 RL/SRL & Critical Facilities Exposure – Owasso/OPS (Draft Tables)

NFIP Repetitive Loss (RL) and Severe Repetitive Loss (SRL) Properties

Jurisdiction	Property Type	RL Count	SRL Count
City of Owasso	Residential	1	0
City of Owasso	Commercial	0	0
City of Owasso	Institutional	0	0
OPS (footprint)	Residential	0	0
OPS (footprint)	Commercial	0	0
OPS (footprint)	Institutional	0	0
Total		1	0

Critical Facilities & Lifelines Exposure Metrics

- **# of critical facilities in SFHA:**3
- **% of population in high wind risk zone (per ASCE 7 / tornado tracks):** 100%
- **# of OPS facilities in SFHA:** 1
- **# of facilities with backup power:** 6
- **# of essential facilities (EOCs, fire, police, schools used as shelters):** 14

3.3.5 Floodplain Management Framework

City of Owasso

- **Flood Damage Prevention Ordinance Adoption:** May 1992 (initial adoption when the City joined the NFIP).
- **Latest Effective FIRM Adoption Date:** May 16, 2019 (Tulsa Countywide FIRM effective for Owasso).
- **Substantial Improvement/Substantial Damage (SI/SD) Procedures:** SI/SD determinations are made in accordance with FEMA NFIP guidance. City staff review permit applications for cumulative improvements and conduct post-disaster inspections to document substantial damage.
- **Designated Office/Position:** City of Owasso Community Development Department — Floodplain Administrator.
- **Community Rating System (CRS):** As of 2024, Owasso is not currently a CRS-participating community.

Owasso Public Schools (OPS)

- **Facilities in SFHA:** Several OPS campuses (e.g., elementary schools near Elm Creek) include portions of their sites within the mapped SFHA.
- **Permitting & Compliance:** School construction and renovation projects within mapped flood hazard areas must obtain floodplain development permits through the City of Owasso (or Tulsa County where applicable). OPS coordinates with the City Floodplain Administrator to ensure compliance with NFIP standards. For any project in the SFHA, elevation certificates and SI/SD documentation are required.

3.3.6 Mitigation Action Inventory

Method: Actions are linked to hazard/vulnerability sections, classified as retrofit (existing) or risk-avoidance (new development), and include data/capability-building where gaps exist. Each entry specifies responsible department, funding sources, and timeframe.

Hazard	Action	Jurisdiction	Type	Responsible Department/Position	Funding Sources	Timeframe
Flooding	Elevate or floodproof critical public safety facilities identified in vulnerability assessment	City	Retrofit	Public Works / Floodplain Administrator	BRIC, HMGP, CIP	Medium (2–5 yrs)
Flooding	RL/SRL property outreach and acquisition offers	City	Retrofit	Community Development / Floodplain Administrator	FMA, HMGP	Medium (2–5 yrs)
Flooding	Develop detailed OPS facility flood exposure inventory	OPS	Data/Capability	OPS Facilities / Safety Director	BRIC (Capability), Local Funds	Short (≤2 yrs)
Severe Storms / High Wind	Harden school safe rooms and community shelters	OPS	Retrofit	OPS Safety & Facilities	HMGP, BRIC	Long (>5 yrs)
Severe Storms / High Wind	Adopt higher building standards (ASCE 7 tornado provisions) for new municipal buildings	City	Risk Avoidance	Building Department	Local CIP	Short (≤2 yrs)
Winter Storms	Expand tree-trimming and utility hardening program	City	Retrofit	Public Works / Utilities	HMGP, Local CIP	Medium (2–5 yrs)
Drought / Extreme Heat	Develop municipal water conservation and drought contingency plan	City	Risk Avoidance / Data	Utilities / Emergency Mgmt	BRIC, State Grants	Short (≤2 yrs)
Drought / Extreme Heat	Conduct OPS facility cooling load and HVAC resilience study	OPS	Data/Capability	OPS Facilities	Local Funds, Energy Grants	Short (≤2 yrs)
Earthquake	Retrofit vulnerable school structures (non-structural bracing)	OPS	Retrofit	OPS Facilities	HMGP, BRIC	Medium (2–5 yrs)
Earthquake	Update City building codes to current IBC seismic provisions	City	Risk Avoidance	Building Department	Local CIP	Short (≤2 yrs)

3.3.7 Status of Prior Plan Actions

Action	Status	Notes/Reason
Floodplain ordinance update	Completed	Adopted 2019 with new FIRM effective date
City safe room program	In Progress	Several shelters funded, construction ongoing
OPS HVAC backup generators	Deferred	Funding not yet secured, remains a priority
City stormwater master plan update	Completed	Integrated into Comp Plan 2021
OPS asset inventory	Dropped	Superseded by new GIS-based facilities inventory

Note: *Outcomes from the prior plan have been folded into ongoing planning and investment processes. Floodplain ordinance updates were codified in the City Code. Stormwater improvements were prioritized in the City's Capital Improvement Program (CIP). School safe room and HVAC resilience projects are tracked in OPS facility plans. Hazard mitigation priorities are referenced in the City Comprehensive Plan to ensure alignment with growth management and infrastructure investments.*

3.3.8 Plan Integration Mechanisms & Process

City of Owasso

- **Mechanisms:** Comprehensive Plan, Capital Improvement Program (CIP), Subdivision Regulations, Zoning Code, Building Code.
- **Process:** The Community Development Department, working with Public Works and Emergency Management, reviews mitigation actions annually each spring during the budget cycle. Recommended actions are forwarded to the Planning Commission for Comp Plan consistency review, and to City Council for adoption into the CIP or ordinance updates as needed. The Floodplain Administrator ensures compliance with NFIP standards when actions affect flood-prone areas.

Owasso Public Schools (OPS)

- **Mechanisms:** School Capital Improvement Plan, Facility Maintenance Plan, Safety and Security Plan.
- **Process:** The OPS Facilities Department and Safety Director review mitigation priorities each summer in coordination with annual budget planning. Proposed projects are incorporated into the OPS Capital Plan and reviewed by the School Board for approval. Projects in SFHA or hazard-prone areas are coordinated with the City Floodplain Administrator. Progress is revisited annually, with a 5-year comprehensive review aligned to the hazard mitigation plan update cycle.

3.3.9 High Winds

Description

High winds are very strong air currents near the Earth's surface caused by thunderstorms, cold front passages, or pressure gradients between high and low-pressure areas. These winds are often called "straight-line" winds to distinguish them from tornadic winds.

- **High Wind:** Sustained non-convective winds of 35 knots (40 mph) or greater lasting for 1 hour or more, or winds (sustained or gusts) of 50 knots (58 mph) for any duration. In mountainous areas, thresholds are higher (43 knots/50 mph sustained and 65 knots/75 mph gusts). High Wind excludes severe local storms, tropical cyclones, or winter storms.
- **Strong Wind:** Non-convective gusts less than 50 knots or sustained winds below 35 knots causing injury, fatality, or damage. Mountain regions may have higher criteria.
- **Thunderstorm Wind:** Winds from convection (within 30 minutes of lightning) of at least 50 knots (58 mph), or lesser speeds if causing fatalities, injuries, or damage.
- **Derecho:** A widespread, long-lived windstorm associated with a band of rapidly moving showers or thunderstorms. If damage extends more than 240 miles with wind gusts ≥58 mph, the event may be classified as a derecho.

Location

The Beaufort wind scale (1 to 12) is used to classify wind speeds. The planning area can experience winds across the entire scale. Winds exceeding 58 mph are considered dangerous for planning purposes.

The map below shows an average of 1.25 to 1.5 days per year with severe thunderstorm wind reports over 57 mph in the planning area.

Previous Occurrences

Date	Time	Location	Damage Scale	Injuries	Fatalities	Description
6/28/2014	2:38 PM	3.2 mi E/NE of Owasso	10	None	None	Severe thunderstorm winds >60 mph knocked down fences; debris traveled ~100 yards.
5/16/2015	10:35 PM	Owasso	11	None	None	Severe thunderstorms produced 70 mph gusts.
10/19/2016	4:29 PM	Owasso	10	None	None	Severe thunderstorm produced 60 mph gusts.
5/11/2017	5:42 PM	4 mi E of Owasso	10	None	None	Severe thunderstorm produced 60 mph gusts.
8/7/2018	4:30 PM	Owasso	10	None	None	Severe thunderstorm produced 60 mph gusts.
8/30/2019	3:33	2 mi NE of Owasso	10	None	None	Severe thunderstorm produced 60 mph gusts.
4/28/2020	5:53	Owasso	11	None	None	Severe thunderstorm produced 70 mph gusts.
7/11/2020	20:24	2 mi N of Owasso	10	None	None	Severe thunderstorm winds >60 mph.
7/30/2020	01:39	Owasso	11	None	None	Severe thunderstorms winds >70 mph.
10/25/2022	03:53	Owasso	10	None	None	Severe thunderstorms winds >60 mph.
03/31/2023	13:25	Owasso	10	None	None	Severe thunderstorms winds >60 mph.

Probability and Risk Calculation

Natural Hazard	Probability	CPRI	Overall Ranking
High Wind	Possible	1.85	Moderate

Vulnerability and Impact

City of Owasso:

- *Structural:* Possible window, roof, and outbuilding damage.
- *Human:* Injuries from flying debris for those caught outdoors.
- *Social/Political:* None noted.
- *Cultural/Organizational:* Cultural properties vulnerable to damage from flying debris.
- *Resource/Informational:* Public education needed on safe sheltering locations away from windows.
- *Economic:* Repair costs can be significant depending on storm severity.
- *Environmental:* Potentially extensive damage to vegetation.

Owasso Public Schools:

- *Structural:* Possible damage to windows, roofs, outbuildings, covered walkways, and bus shelters.
- *Human:* Risk of injury outdoors from debris.
- *Social/Political:* None noted.
- *Cultural/Organizational:* Potential damage to school buses.
- *Resource/Informational:* Education needed on safe refuge areas.
- *Economic:* Repair costs could be significant depending on severity.
- *Environmental:* Vegetation damage possible.

Impact

City of Owasso:

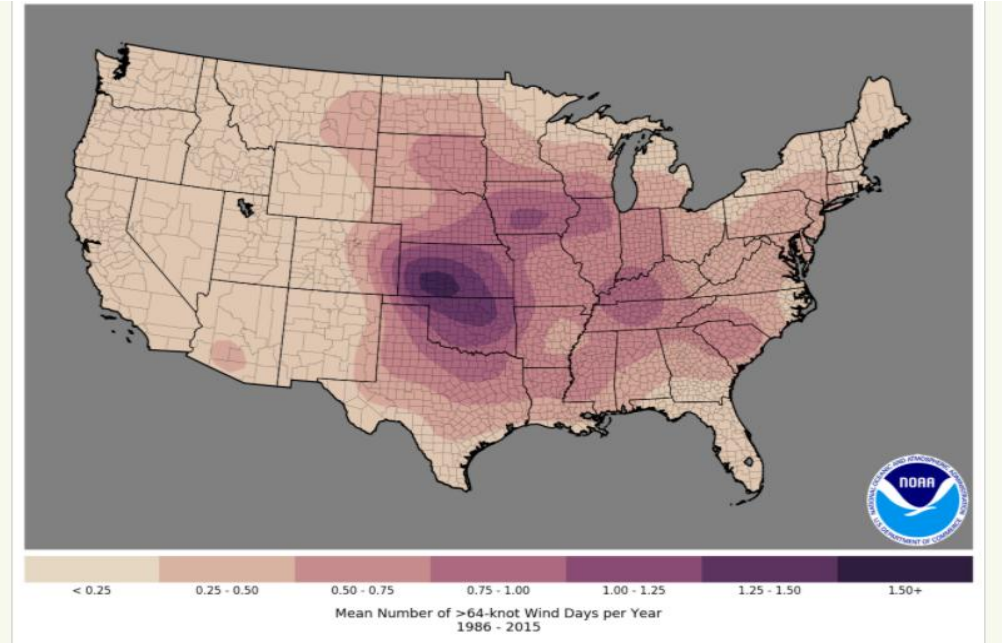
- *Health and Safety:* Severe impact possible if shelter is unavailable; casualties depend on warnings.
- *Health and Safety of Responders:* Minimal impact expected.
- *Continuity of Operations:* Temporary or long-term facility relocation may be necessary.
- *Property, Facility, Infrastructure:* Rain inundation and rooftop equipment damage possible; mobile homes especially vulnerable.
- *Environmental:* Severe localized impact diminishing with distance.
- *Economic:* Impact dependent on wind severity.
- *Public Confidence:* May be questioned based on warning effectiveness and response timeliness.

Owasso Public Schools:

- *Health and Safety:* Impact severity depends on shelter availability; loss of air handling equipment may affect classroom comfort.
- *Continuity of Operations:* Temporary to long-term relocations may be necessary.
- *Property, Facility, Infrastructure:* Rain inundation and rooftop equipment damage possible.
- *Environmental:* Localized severe impact with decreasing severity outward.
- *Economic:* Damage-related costs depend on wind severity.
- *Public Confidence:* May be questioned based on warning and recovery effectiveness.

Building Standards

To withstand high winds, the U.S. is divided into four wind zones (Zone 4 being the most severe). HUD, FEMA, and NFPA adopt building codes based on ASCE 7 (Minimum Design Loads for Buildings and Other Structures), incorporating these wind zone classifications.



3.3.10 Severe Storms

Description

Thunderstorms are common in the Midwest and Central United States. All thunderstorms pose hazards, including lightning — a natural electrical discharge of very short duration and high voltage between clouds or between cloud and ground, accompanied by bright flashes and thunder.

Location

Severe thunderstorms producing lightning have historically occurred throughout the Owasso planning area. Lightning intensity can be measured by:

- Number of strikes per minute (electrical activity)
- Voltage of strikes (average ~300 million volts at 30,000 amps)
- Energy released (measured in Megajoules per square meter after the event)

Currently, no detailed lightning intensity data for Owasso is available, so no damage scale or intensity rating is used here. Only damaging lightning events are recorded by the City and Owasso Public Schools.

Recorded Lightning Events Causing Damage

Date	Time	Location	Injuries	Fatalities	Description
08/19/2015	4:30	9000 Block of N 186th East Ave	None	None	Lightning struck home causing fire; property destroyed.
08/06/2016	2:30	7700 Block of N 26th East Ave	None	None	Lightning struck home causing fire; property destroyed.
08/17/2017	12:01	West of Hwy 169 near 86th St N	None	None	Lightning struck home causing fire; heavy damage.
05/23/2018	4:33	Near 86th St N and Sheridan Rd	None	None	Lightning struck home causing fire; heavy damage.
07/25/2021	17:00	36.27/-95.85	None	None	Strong thunderstorm winds snapped large tree limbs, some fell on vehicle.
08/13/2023	23:17	36.28/-95.88	None	None	Strong thunderstorm winds snapped large tree limbs and blew down power lines.
10/04/2023	18:15	36.2495/-95.8436	None	None	Strong thunderstorm winds blew down power lines across E 66th St N (SE Owasso).
06/26/2024	06:28	36.2121/-95.85	None	None	Thunderstorm wind gusts measured at 58 mph.
11/03/2024	04:20	36.2866/-95.8998	None	None	Strong thunderstorm winds damaged roofs, snapped large tree limbs.

Probability and Risk Calculation

Natural Hazard	Probability	CPRI	Overall Ranking
Severe Storm	Highly Likely	3.05	High

Vulnerability and Impact

City of Owasso:

- **Structural:** Lightning can damage buildings, electrical systems, and cause fires.
- **Human:** Outdoor individuals risk injury or death from strikes.
- **Social/Political:** None noted.
- **Cultural/Organizational:** Loss of historic properties or records from lightning would be devastating.
- **Resource/Informational:** Public education on lightning protection is limited; compliance may be suboptimal.
- **Economic:** Power outages and business interruptions affect the economy, depending on restoration time.
- **Environmental:** Generally not a significant threat environmentally.

Owasso Public Schools:

- Same vulnerabilities as the City — risk of structural damage, injury outdoors, power loss, and disruption to operations.

Impact

City of Owasso:

- **Health & Safety of Public:** Severity depends on location and shelter availability; being outdoors during strikes is very dangerous.
- **Health & Safety of Responders:** More casualties stress emergency services.
- **Continuity of Operations:** No direct impact anticipated.
- **Property/Infrastructure:** Power lines, street lights, traffic signals may be damaged; debris on roads.
- **Environmental:** Localized impact near strike zones.
- **Economic:** Severity-dependent losses in utilities, businesses, and services.
- **Public Confidence:** Could erode if response and recovery are slow or ineffective.

Owasso Public Schools:

- Similar impacts to City. Possible utility outages and physical damage could disrupt operations and safety.

3.3.11 Soil Hazards

Description

An earthquake is a sudden, violent shaking of the ground caused by the abrupt release of energy within the Earth's lithosphere. This energy release generates seismic waves that cause movements in the Earth's crust. Earthquakes occur along fault zones throughout Oklahoma when accumulated stress overcomes friction and causes faults to slip.

Location

Historically, earthquakes have occurred in and near the Owasso planning area, as several fault lines are identified nearby.

Two standard scales are used to classify earthquake magnitude and effects:

- **Richter Scale:** Quantitative measure of earthquake magnitude (size), based on the logarithm of seismic wave amplitude.
- **Modified Mercalli Intensity Scale:** Qualitative measure describing earthquake effects at a location, including damage to structures, natural features, and people. This scale differs from magnitude, as it reflects local impact rather than energy released.

Magnitude	Mercalli Intensity	Description	Earthquake Effect
2	I Instrumental	Not felt except by very few under especially favorable conditions.	Minimal
2	II Feeble	Felt only by a few persons at rest, especially on upper floors of buildings.	Minimal
3	III Slight	Felt noticeably indoors, especially upper floors. Many don't recognize as earthquake. Cars may rock slightly.	Slight
3	IV Moderate	Felt indoors by many, outdoors by few. Some awakened. Minor disturbance of windows, dishes, doors.	Minimal
4	V Rather Strong	Felt by nearly everyone; some dishes/windows broken. Unstable objects overturned.	low

Magnitude	Mercalli Intensity	Description	Earthquake Effect
5	VI Strong	Felt by all, many frightened. Slight damage such as fallen plaster; heavy furniture moved.	Moderate
5	VII Very Strong	Negligible damage to good structures; moderate damage to ordinary; considerable damage to poor construction.	Moderate
6	VIII Destructive	Slight damage in specially designed buildings; considerable in ordinary; heavy damage in poorly built.	High
7	IX Ruinous	Considerable damage, some building collapse. Buildings shifted off foundations.	Very High
7	X Disastrous	Many buildings destroyed; rails bent.	Very High
8	XI Very Disastrous	Few masonry structures remain standing. Bridges destroyed.	Extreme
8	XII Catastrophic	Total damage; objects thrown in air; ground surface distorted.	Extreme

Previous Occurrences

- Earthquakes below magnitude 3.0 are generally considered minor and often not felt.
- Since 1931, 36 earthquakes have been recorded in the Owasso area.
- No earthquakes magnitude 3.0 or higher have originated within the planning area between 2014 and 2020.
- Notably, two magnitude 5.6 earthquakes near Prague (Nov 5, 2011) and Pawnee (Sept 3, 2016) were felt in Owasso, with no reported injuries and minor damage limited to unsecured items falling.
- Nine man-made explosive blasts at a quarry southeast of Owasso have registered between magnitude 2.1 and 2.6; these caused no damage.
- The Planning Team is monitoring the potential link between seismic activity and injection well operations in nearby counties.

Probability and Risk Calculation

Natural Hazard	Probability	CPRI	Overall Ranking
Soil Hazards	Possible	1.90	Low

Vulnerability and Impact

City of Owasso:

- **Structural:** Unreinforced masonry structures (e.g., downtown brick buildings) are most at risk. Most buildings are not constructed to earthquake-resistant standards, especially older infrastructure.
- **Human:** Injuries or fatalities may occur due to lack of preparedness and unsecured objects falling during shaking. Damage to water and sewer infrastructure could cause health hazards.
- **Social/Political:** Large earthquakes may limit political access and services in affected areas.
- **Cultural/Organizational:** Minor damage possible to historic structures and museum collections.
- **Resource/Informational:** Public awareness and education on earthquake preparedness are limited; communications may be disrupted post-event.

- **Economic:** Direct economic effects may be limited but could include costly structural repairs and disruptions to services. Large events could lead to resource shortages.
- **Environmental:** Damage to vegetation and possible land subsidence.

Owasso Public Schools:

- Structural vulnerability mirrors that of the City; older buildings at greater risk.
- Injuries possible from lack of preparedness; anxiety among students may rise.
- Disruptions to routine social structures may affect faculty, staff, and students.
- Economic impact includes repair costs and potential loss of funding if property taxes are affected.
- Environmental impacts same as the City.

Impact

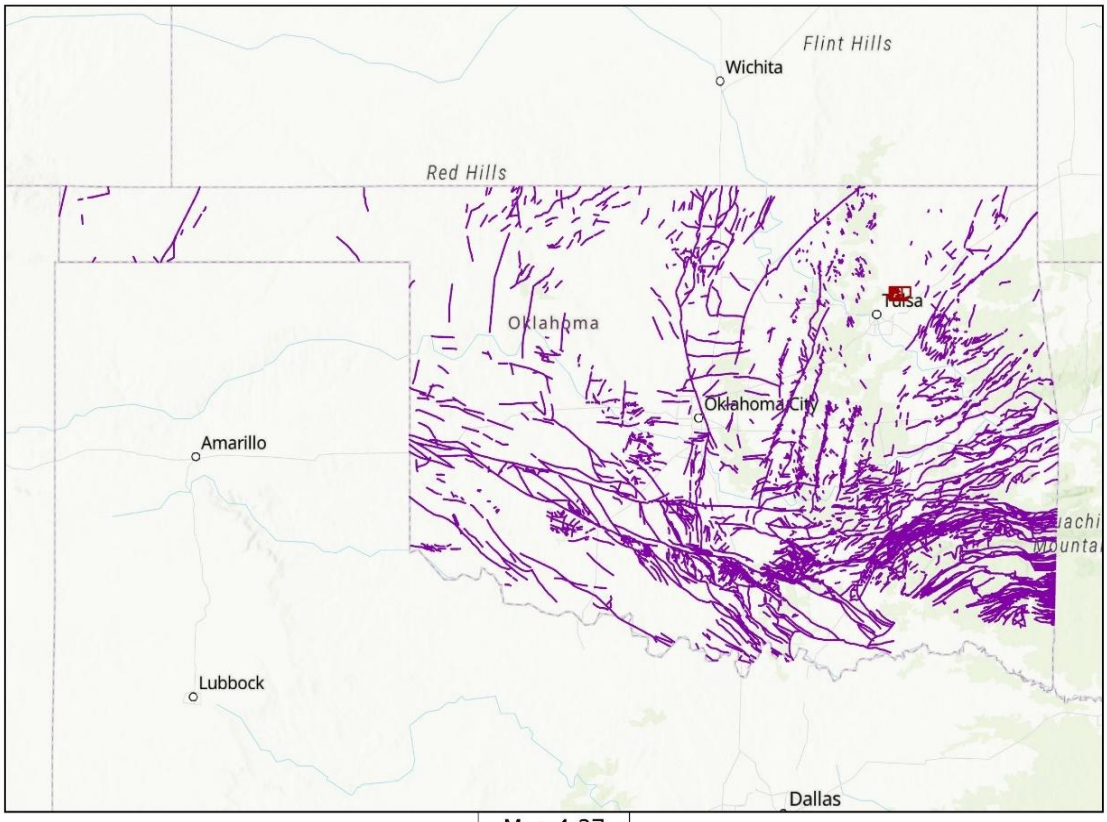
City of Owasso:

- **Health and Safety:** Depends on severity and proximity to epicenter; greater risk near the fault.
- **Responders:** Emergency response impacted by event severity and location.
- **Continuity of Operations:** May require relocation, prioritization of essential services, and could severely disrupt services.
- **Property and Infrastructure:** Damage ranges from minimal to severe; structural failures possible.
- **Environment:** Severe topological changes and destruction possible.
- **Economy:** Likely long-lasting impacts dependent on severity and location.
- **Public Confidence:** Could decline if earthquake preparedness and recovery are insufficient.

Owasso Public Schools:

- Similar impacts affecting safety, operations, property, environment, and economic stability.
- Public confidence tied to ability to safely return students to classrooms.

Fault Lines in Oklahoma



Map 4:27

Owasso Area Statistics

The map above represents the fault lines in Oklahoma that could impact to the City of Owasso and the Owasso fenceline.

Owasso City Limits and Fenceline

Oklahoma Fault Lines

N

0 1.252.5 5 Miles

Map compiled by Michelle Mount, GIS Analyst, City of Owasso. Map derived from data provided by the City of Owasso, INCOG, Tulsa County, OWRB, and ESRI.

Date Exported: 7/3/2024 11:54 AM

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3.3.12 Tornado

Description

A tornado is a mobile, destructive vortex of violently rotating winds in contact with the Earth's surface, typically appearing as a funnel-shaped cloud beneath a larger storm system. Tornadoes usually occur during midafternoon to early evening but can form at any time when atmospheric conditions—wind shear, lift, instability, and moisture—are favorable. In Oklahoma, spring is the peak tornado season, although tornadoes can happen year-round.

Location and Scale

The Enhanced Fujita (EF) Scale is used to rate tornadoes based on estimated wind speeds and damage surveyed after the event. Both the City of Owasso and Owasso Public Schools use this scale to assess tornado impact.

EF Category	Wind Speed (mph)	Potential Damage
EF-0	65-85	Light damage: Peels surfaces off roofs; some damage to gutters or siding; broken branches; shallow-rooted trees pushed over.
EF-1	86-110	Moderate damage: Roofs severely stripped; mobile homes overturned or badly damaged; windows and doors broken.
EF-2	111-135	Considerable damage: Roofs torn off well-built houses; foundations shifted; large trees snapped or uprooted; cars lifted.
EF-3	136-165	Severe damage: Entire stories destroyed; severe damage to large buildings; trains overturned; heavy cars thrown.
EF-4	166-200	Devastating damage: Well-constructed houses leveled; cars thrown; small missiles generated.
EF-5	>200	Incredible damage: Strong frame houses swept away; automobile-sized missiles flying over 100 yards; significant structural deformation in high-rises.

Historical Occurrences

Since 1950, 7 tornadoes have been recorded in the Owasso planning area according to the Midwestern Regional Climate Center.

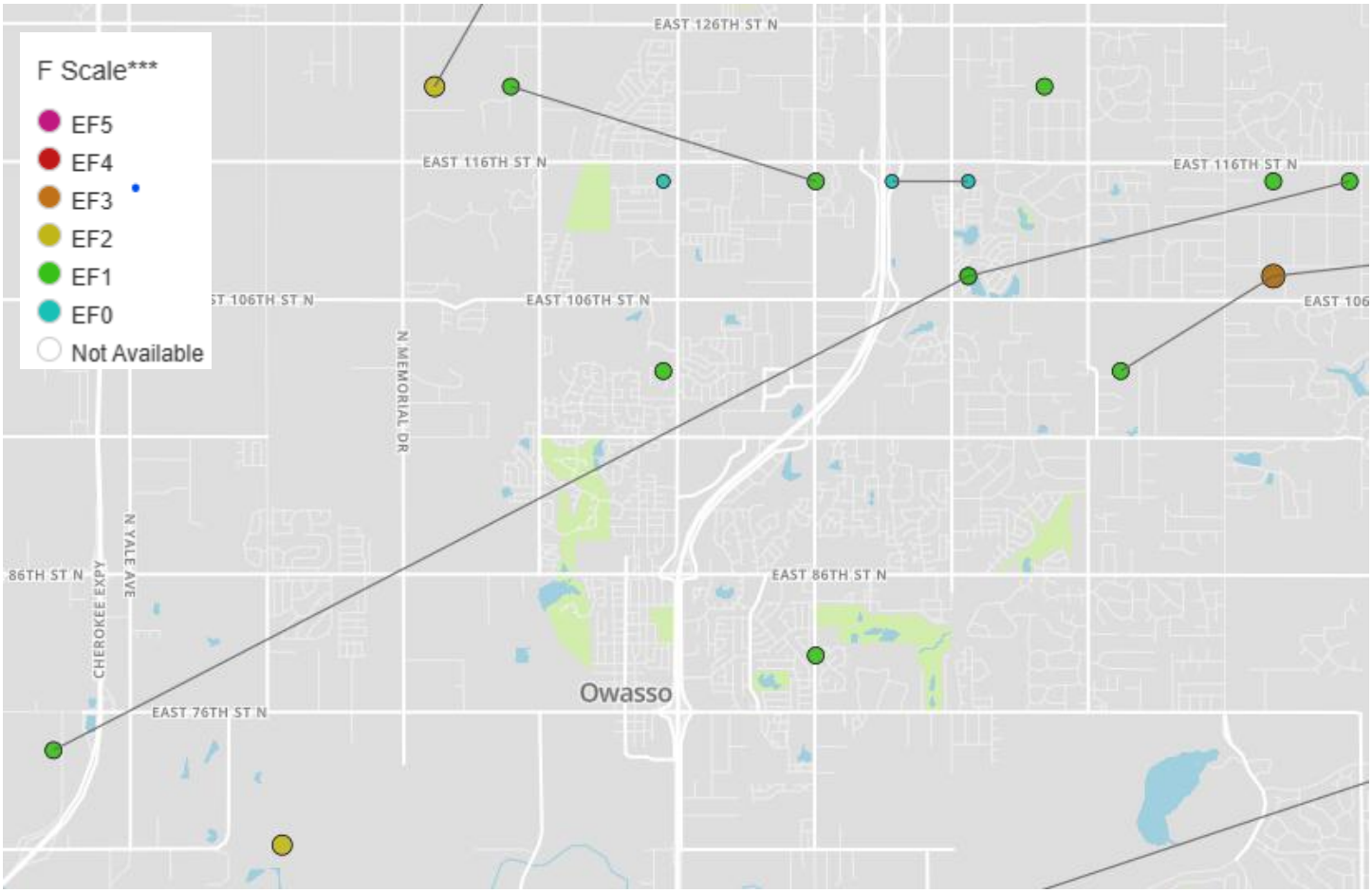
Date	Time	Location	EF Rating	Injuries	Fatalities	Description
4/2/1956	10:30	Near Owasso	EF1	0	0	Path 0.3 miles long, 33 yards wide
6/14/1985	10:55	North part of Owasso	EF1	0	0	Path 0.2 miles long, 5 yards wide
6/18/1996	11:10	3 miles north of Owasso	EF0	0	0	Path 0.1 miles long, 25 yards wide
3/30/2016	7:36	Stone Canyon Addition	EF2	0	0	Path 6.4 miles long, 550 yards wide
5/11/2017	13:01	Hwy 20 & 177th East Avenue	EF1	0	0	Path 1.5 miles long 300 yards wide
5/21/2019	5:48	3.8 miles NNE of Owasso	EF0	0	0	Path 0.6 miles long, 100 yards wide

Date	Time	Location	EF Rating	Injuries	Fatalities	Description
4/2/2025	6:40	96th St. N. and Mingo moving NE	EF1	0	0	76 St. N. and Hwy 75 moving NE to 145 E. Ave. and Hwy 20,

Probability and Risk Calculation

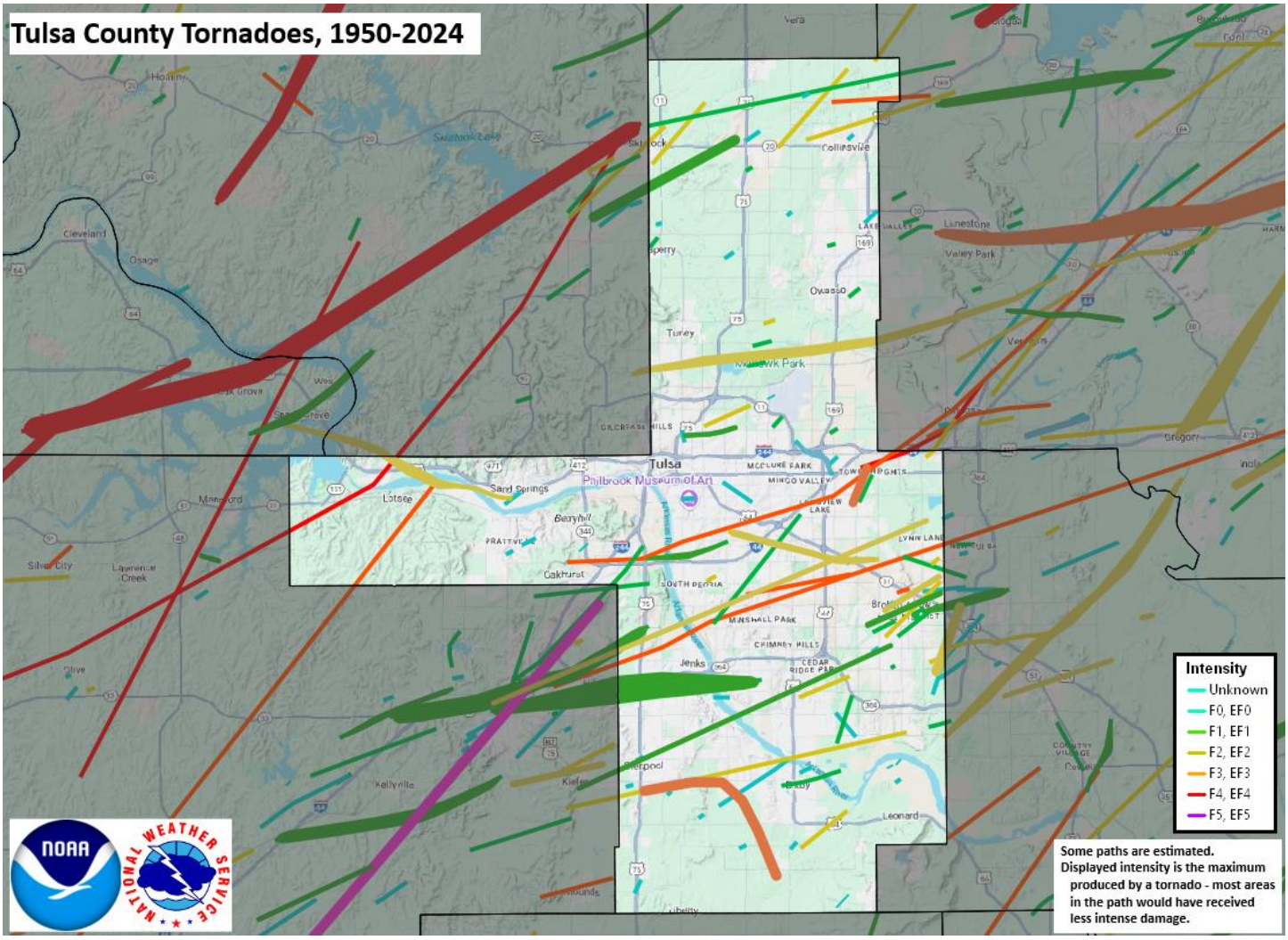
Natural Hazard	Probability	CPRI	Overall Ranking
Tornado	Possible	2.15	Moderate

Tornadoes in the City of Owasso and Owasso Public School's planning area



Source: National Oceanic and Atmospheric Administration

*** Enhanced Fujita Scale describes the strength of the tornado based on the amount and type of damage caused by the tornado. The F-scale of damage will vary in the destruction area; therefore, the highest value of the F-scale is recorded for each event. EF0 – Light Damage (40 – 72 mph), EF1 – Moderate Damage (73 – 112 mph), EF2 – Significant damage (113 – 157 mph), EF3 – Severe Damage (158 – 206 mph), EF4 – Devastating Damage (207 – 260 mph), EF5 – Incredible Damage (261 – 318 mph)



Vulnerability and Impact

City of Owasso:

- **Structural:** Diverse residential construction; mobile and manufactured homes (more common in rural areas) are highly vulnerable. Damage severity depends on tornado wind speed and building wind resistance. All critical facilities are exposed; only the Emergency Operations Center is underground, with other buildings having designated refuge areas. Tornadoes can cause significant infrastructure damage and block access with debris.
- **Human:** Entire population at risk, particularly in densely populated areas like apartments, mobile home parks, and commercial centers which often lack adequate shelter space. Social vulnerability increases risk in lower-income areas, those with language barriers, and less education.
- **Cultural/Organizational:** Potential loss of culturally or historically significant properties and civic buildings could deeply affect community heritage.
- **Resource/Informational:** Public tornado awareness campaigns have likely plateaued; new warning technologies may lead to warning fatigue or confusion, reducing protective responses.
- **Economic:** Economic losses depend on length of business closures and damage to retail/commercial zones, leading to potential declines in sales tax revenue.

- **Environmental:** Tornadoes can disperse hazardous debris (e.g., asbestos) and household chemicals, contaminating soil and water, harming wildlife and ecosystems.

Owasso Public Schools:

- **Structural:** All school buildings are susceptible to damage. Portable classrooms are especially vulnerable to high winds. Only one of 13 school facilities currently has an F5-rated Safe Room; others rely on designated refuge areas. Plans exist to add Safe Rooms in new construction.
- **Human:** All students, staff, and visitors face tornado-related injury risks. Annual tornado drills and plans are in place, including bus route drills.
- **Social/Political:** Vulnerability influenced by population growth, poverty, language, disability, and housing types.
- **Cultural/Organizational:** Extra-curricular activities extend exposure during times of higher tornado risk.
- **Resource/Informational:** Weather monitoring and risk communication are limited, impacting timely protective actions.
- **Economic:** Physical damage depends on tornado severity; indirect losses include increased insurance and transportation costs.
- **Environmental:** Environmental contamination risks as noted above.

Impact

City of Owasso:

- **Health and Safety:** High risk of casualties and fatalities in tornado paths without adequate shelter, dependent on warning quality and lead time.
- **Responders:** Emergency responders may be directly affected, requiring adequate shelter and preparation.
- **Continuity of Operations:** Damage to government and critical facilities may force temporary or permanent relocation.
- **Property/Infrastructure:** Severe localized damage possible; loss of power and communication systems likely, necessitating alternate methods.
- **Environmental:** Severe impact at tornado site; soil and water contamination concerns.
- **Economic:** Varies by tornado path and severity; significant potential losses.
- **Public Confidence:** Recovery and response effectiveness influence public trust; delays or failures may erode confidence.

Owasso Public Schools:

- **Health and Safety:** Psychological impacts on students possible; injury risk during tornado events.
- **Continuity of Operations:** May require relocation or alternate facilities temporarily or permanently.
- **Property/Infrastructure:** Damage severity dependent on tornado intensity.
- **Environmental:** Damage to natural surroundings affecting ecosystem and food chain.
- **Economic:** Losses tied to property damage and secondary economic effects.
- **Public Confidence:** Tornado impacts can reduce trust and cooperation in recovery efforts.

3.3.13 Wildfire

Description

Unplanned, uncontrolled fires in areas of combustible vegetation that can spread into developed areas. Threatens homes, businesses, utilities, agriculture, and natural resources.

Location & Extent

Fire Size Classes (National Wildfire Coordinating Group)

Class	Acres Burned
A	≤ 0.25
B	0.25–<10
C	10–<100
D	100–<300
E	300–<1,000
F	1,000–<5,000
G	≥ 5,000

Fire Danger Ratings (National Fire Danger Rating System)

Class	Color	Danger Level	Description
1	Green	Low	Fires not easily started; slow spread.
2	Blue	Moderate	Fires start easily; rapid spread possible; watch slopes & fine fuels.
3	Yellow	High	Fires start/spread easily; spotting common; control difficult if delayed.
4	Orange	Very High	Fires start very easily; intense, fast-moving; spotting & fire whirls possible.
5	Red	Extreme	Explosive fire behavior; direct attack rarely possible; extreme danger to life/property.

History

- 352 wildfires (2020–2025) — mostly small grass/brush fires.
- 80% human-caused.
- Most incidents quickly suppressed.

Example recent events (Class B fires):

Incident Number	Alarm Date	Code	Incident Type	Location Street Address
2025-00004563	08/08/2025	142	Brush/brush grass mixture fire	5711 E. 86th St. N.

2025-00004510	08/06/2025	142	Brush/brush grass mixture fire	9719 N. 145th E. Ave.
2025-00004332	07/27/2025	142	Brush/brush grass mixture fire	10512 N. 110th E. Ave.

Probability & Risk

Hazard	Probability	CPRI	Overall Risk
Wildfire	Possible	2.10	Moderate

Vulnerability & Impacts

City of Owasso

- **Structural:** Highest risk in Wildland–Urban Interface (WUI) zones.
- **Human:** Smoke can block escape routes & cause respiratory distress.
- **Economic:** Agriculture at highest risk; damage possible to property, roads, utilities.
- **Environmental:** Habitat loss, soil alteration, GHG emissions, and ecosystem changes.
- **Governance/Public Confidence:** Effective, timely response essential to maintain trust.

Value at Risk: $2.35B total (structures & contents) — actual losses likely far lower due to suppression.

Owasso Public Schools

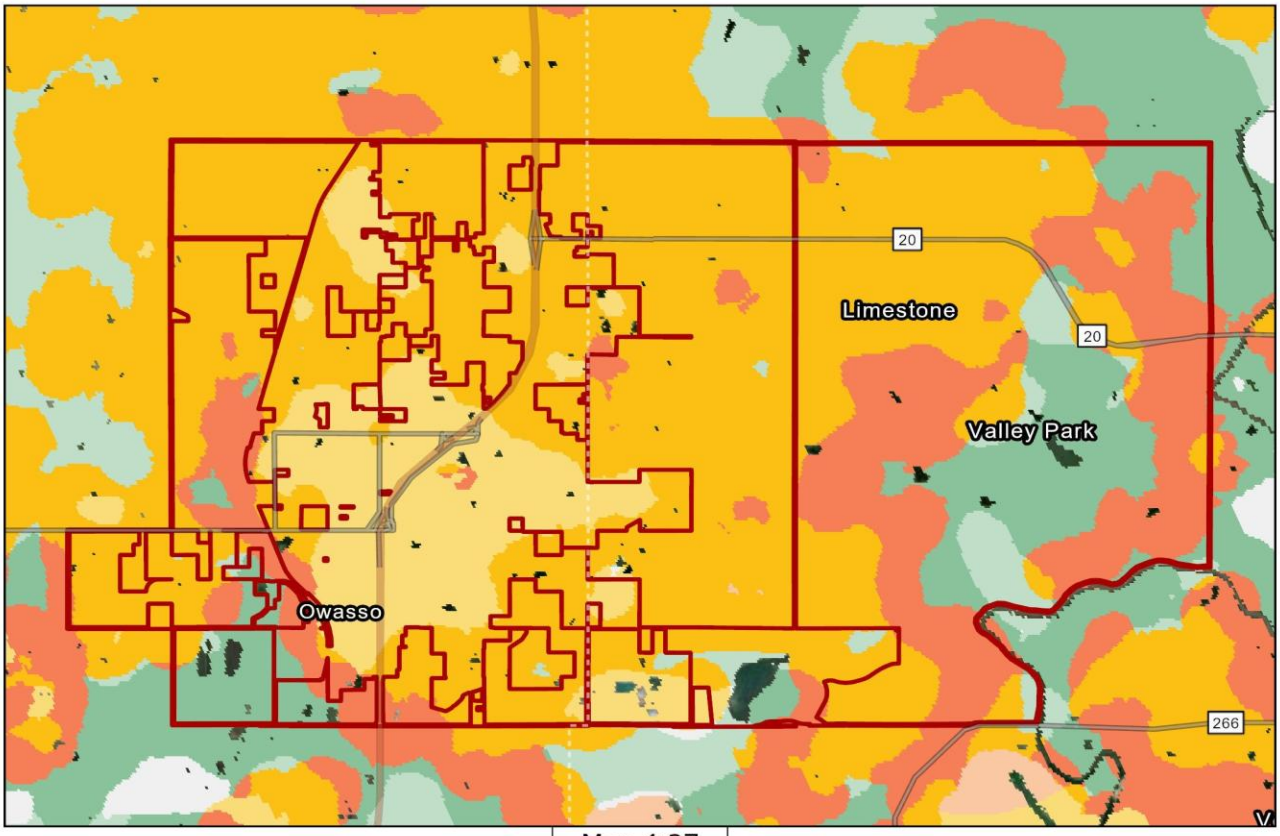
- **Structural:** All campuses within 0.5 miles of WUI; Barnes Elementary most exposed.
- **Human:** Injury and trauma risks, especially for children; long-term stress possible.
- **Economic:** High prevention costs; potential tax revenue loss from property value decline.
- **Environmental:** Erosion, poor air quality, and increased flooding risk.

Impact Summary Table

Category	City of Owasso	Owasso Public Schools
Health & Safety	Severe risk to those in immediate area; smoke inhalation hazard to responders.	Potential injuries, emotional trauma, long-term stress in students/staff.
Continuity of Operations	Possible facility relocation or service disruption.	Alternate learning sites needed if damage occurs.
Property & Infrastructure	Damage to homes, businesses, roads, utilities.	Water/infrastructure risk; high suppression costs.
Environment	Habitat loss, air pollution, soil degradation.	Erosion and air quality issues.
Economic	Agriculture & property losses; potential infrastructure repair costs.	Decline in property values & tax revenue.
Public Confidence	Dependent on speed/effectiveness of response.	Dependent on warning systems & response quality.

The map below indicates the Wildland/Urban Interface for the planning area.

City of Owasso
Wildland Urban Interface



Map 4:27

Owasso Area Statistics

This map shows the wildland-urban interface and the changes from 2019-2025 across the Owasso planning area to help support wildland research, policy and management.

City_Limits_with_Fenceline

Global Wildland-Urban Interface

ClassName

- WUI intermix of buildings with forest, shrub, or wetland
- WUI interface of buildings with forest, shrub, or wetland
- WUI intermix of buildings and grasslands
- WUI interface of buildings and grasslands
- Non-WUI forest, shrub, or wetland
- Non-WUI grasslands
- Non-WUI urban area
- Non-WUI other
- Water

N

0 1 2 4 Miles

Map compiled by Michelle Mount, GIS Analyst, City of Owasso. Map derived from data provided by the City of Owasso, INCOG, Tulsa County, USFS, and ESRI.

Date Exported: 4/14/2025 5:31 PM

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

This product has been produced by the City of Owasso for the sole purpose of geographic reference. No warranty is made by the City of Owasso regarding specific accuracy or completeness

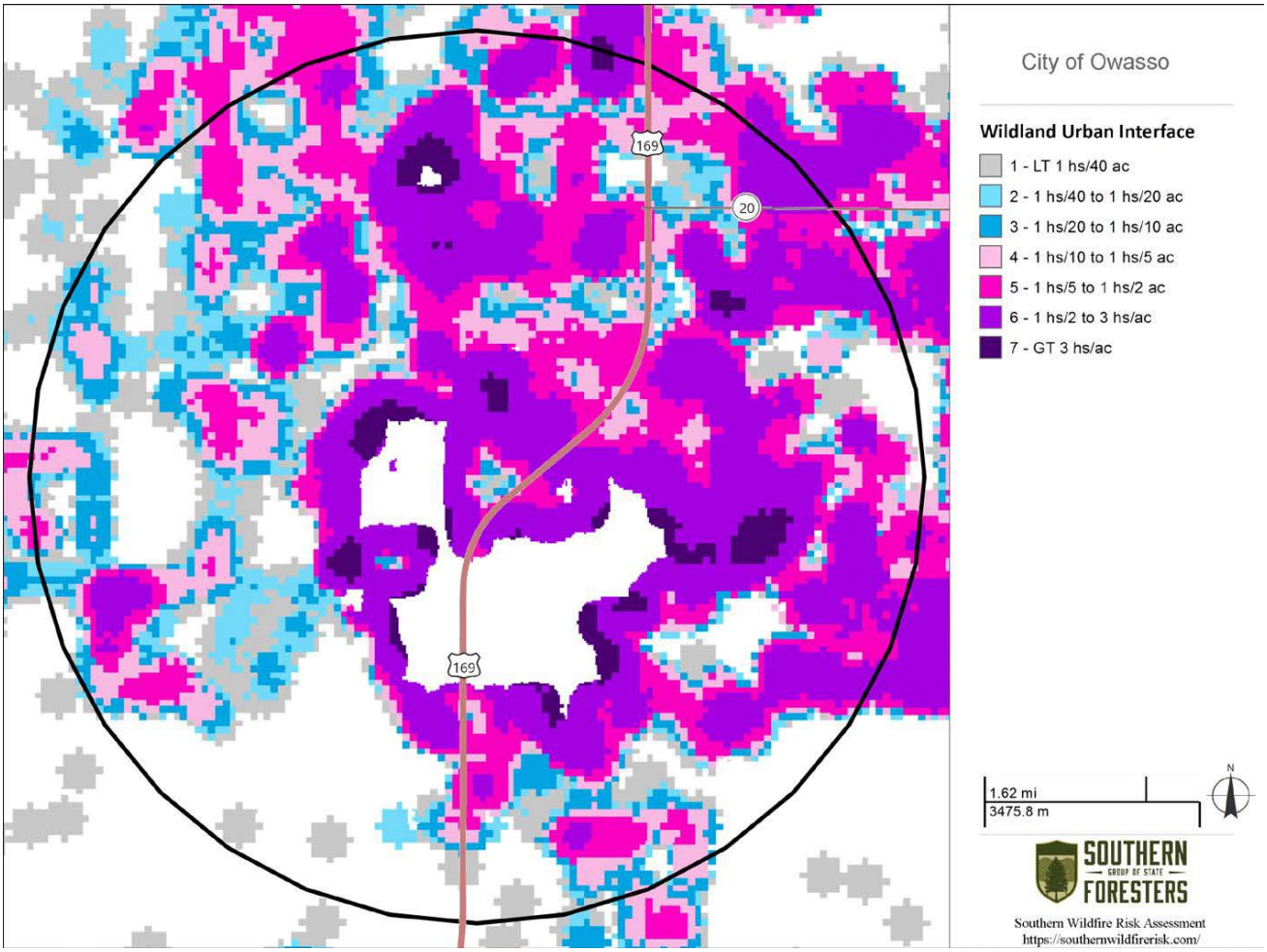
Location

Areas at greatest risk of wildfire in the planning area include wildland-urban interface zones, undeveloped or heavily vegetated areas, and regions adjacent to parks or open space. Specific locations should be identified using local GIS data, historical wildfire records, and vegetation/fuel maps. Both the City of Owasso and Owasso Public Schools should be considered when mapping vulnerable facilities and properties.

Within the City of Owasso, areas at risk of wildfire are primarily located along the Wildland–Urban Interface (WUI) where residential development meets open space, grasslands, or wooded tracts. Higher-risk locations include:

- The northern and eastern edges of the city where subdivisions border wooded areas and undeveloped land.
- Bailey Ranch Golf Course, Centennial Park, and Rayola Park, which contain heavy vegetation and open grasslands.
- Utility corridors and pipeline rights-of-way with unmanaged grasses.
- Highway 169 and railroad corridors, where roadside fires have the potential to spread into nearby fields or neighborhoods.

According to the Oklahoma Forestry Services (OFS) Wildland–Urban Interface Map and FEMA's National Risk Index, Owasso has several WUI zones classified as moderate to high wildfire risk, particularly in the northern and eastern planning area.



Extent

- Wildfires in Owasso are typically grass and brush fires, which can ignite quickly and spread under hot, dry, and windy conditions.
    - Low-intensity fires: Small grass fires contained within open fields, minimal impact to structures.
    - Moderate-intensity fires: Brush and light timber fires threatening neighborhoods along the WUI or city parks.
    - High-intensity fires (worst-case): Large-scale fires fueled by drought, high winds, and heavy vegetation, potentially requiring evacuations and threatening multiple homes and infrastructure.

While most wildfire incidents in Owasso are small and suppressed quickly, the potential exists for large and damaging events during prolonged drought or extreme weather conditions.

Hazard	Location / Areas at Risk	Extent / Severity	Jurisdictions Affected
Wildfire	Wildland-urban interface zones, undeveloped or heavily vegetated areas, and regions adjacent to parks or open space	Impacts may range from minor grass/brush fires causing localized property damage to large, fast-moving fires causing extensive structural damage, road closures, evacuations, and potential injuries or loss of life	City of Owasso, Owasso Public Schools

3.3.14 Winter Storms

Description

- **Winter Storm:** Snow, sleet, freezing rain, strong winds, below-freezing temps.
- **Severe Winter Storm:** ≥4" snow in 12 hrs or ≥6" in 24 hrs.
- **Blizzard:** Snow + winds ≥35 mph, visibility near zero.
- **Freezing Rain:** Rain freezes on contact → ice glaze on surfaces.
- **Sleet:** Ice pellets, bounce on impact, accumulate like snow.
- **Ice Storm:** Prolonged freezing rain, damaging trees, utilities, travel.
- **Wind Chill:** Combination of wind + temperature; dangerous below -19°F.

Location

While the Oklahoma Panhandle typically faces the highest frequency and severity of winter storms in the state, the remainder of Oklahoma is also at risk. The northeastern and north-central regions, including the planning area, regularly experience winter weather such as ice storms, freezing rain, sleet, and occasional heavy snowfall.

Extent

The severity of winter storms varies across the state. Outside the Panhandle, ice accumulation is often a more significant hazard than snowfall. Ice storms can cause widespread power outages, tree damage, and hazardous travel conditions. Snowfall amounts are generally lower than in the Panhandle, but accumulations of several inches can still occur and significantly disrupt transportation and emergency response.

Extent Ranges by FEMA Categories:

- **Minor:**
  - Ice accumulation up to 0.25 inches
  - Snowfall up to 2 inches
  - Short-term travel disruption, minor utility interruptions
- **Moderate:**
  - Ice accumulation 0.25–0.5 inches
  - Snowfall 2–4 inches
  - Power outages, moderate travel disruptions, increased accident risk
- **Severe:**
  - Ice accumulation 0.5–1.0 inches
  - Snowfall 4–8 inches
  - Widespread outages, structural tree damage, multi-day transportation impacts
- **Catastrophic:**
  - Ice accumulation greater than 1 inch
  - Snowfall greater than 8 inches (rare outside Panhandle, but possible in extreme events)
  - Long-duration power outages, extensive infrastructure damage, and major disruptions to emergency response and daily life

Scales

- **Local Winter Storm Scale:** Used by City of Owasso & schools to gauge impact.
- **Sperry-Piltz Ice Accumulation Index (SPIA):** Predicts icing impact on utilities.
- Oklahoma Panhandle sometimes sees wind chills below -19°F multiple times a year.

Storm element score (LWSS descriptor)	Sustained wind kt ($m\ s^{-1}$)	Wind gust kt ($m\ s^{-1}$)	Snow in. (cm)	Ice in. (cm)	Visibility mi (km)
Weighting function	20%	15%	50%	30%	15%
0 (nuisance)	0 (0)	0 (0)	0 (0)	0 (0)	10 (16.1)
1 (moderate)	7 (3.6)	13 (6.7)	2 (5.1)	T (T)	3 (4.8)
2 (significant)	11 (5.7)	17 (8.7)	4 (10.2)	0.1 (0.3)	1 (1.6)
3 (major)	17 (8.7)	22 (11.3)	10 (25.4)	0.25 (0.6)	0.5 (0.8)
4 (crippling)	22 (11.3)	30 (15.4)	15 (38.1)	0.5 (1.3)	0.25 (0.4)
5 (extreme)	27 (13.9)	41 (21.1)	20 (50.8)	0.75 (2.5)	0.125 (0.2)
6 (catastrophic)	34 (17.5)	48 (24.7)	25 (63.5)	1 (5.1)	0 (0)

Wind Chill Chart

Wind (mph) \ Temperature (°F)	Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
5		36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63
10		34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72
15		32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77
20		30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81
25		29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84
30		28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87
35		28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89
40		27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91
45		26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93
50		26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95
55		25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97
60		25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98

Frostbite Times: 30 minutes | 10 minutes | 5 minutes

$$\text{Wind Chill (°F)} = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$$

Where, T= Air Temperature (°F) V= Wind Speed (mph)

Effective 11/01/01

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.)

Past Events (Sample)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL

2020	0.6	2.4	0.0	Trace	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	8.7
2021	0.1	10.0	0.0	Trace	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
2022	0.1	8.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	13.5
2023	0.5	Trace	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Trace	Trace	0.5
2024	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
2025	6.4	3.9	Trace	0.0	0.0	0.0	0.0	0.0					10.3

- **Feb 5, 2020:** 4–5" snow in NE Oklahoma.
- **Feb 8–9, 2011:** >12" snow in NE Oklahoma; some areas 24", record cold followed.
- **Jan 28, 2010:** 0.75" ice + 5–8" snow.

Probability & Risk

Natural Hazard	Probability	CPRI	Overall Ranking
Winter Storm	Possible	1.95	Moderate

Vulnerability & Impacts

City of Owasso

- **Structural:** Roof collapse, burst pipes.
- **Human:** Frostbite, hypothermia; elderly, infants at high risk.
- **Economic:** Snow/ice removal, utility repair, lost wages/sales tax.
- **Environmental:** Tree death → carbon release; mold/fungi growth after melt.

Owasso Public Schools

- **Human:** Pupils at bus stops vulnerable to cold.
- **Structural:** Roof collapse risk, frozen pipes, power loss.
- **Economic:** Damage/response costs stress budgets.

Key Hazards

- Travel disruption (snow/ice-covered roads).
- Power outages (ice on lines).
- Flood risk after melt.
- Disrupted communications.

3.4 Risk Assessment of Facilities, Estimated Potential Losses, and Vulnerability of Jurisdictions

This section evaluates the exposure and vulnerability of critical facilities, infrastructure, and jurisdictions within the planning area to identified hazards. The assessment integrates hazard probability, facility importance, replacement value, and population characteristics to estimate potential losses and determine areas of highest concern.

3.4.1 Methodology

The risk assessment process combines hazard profiles (Section 3.1), facility inventories, and hazard-specific impact models. Data sources include:

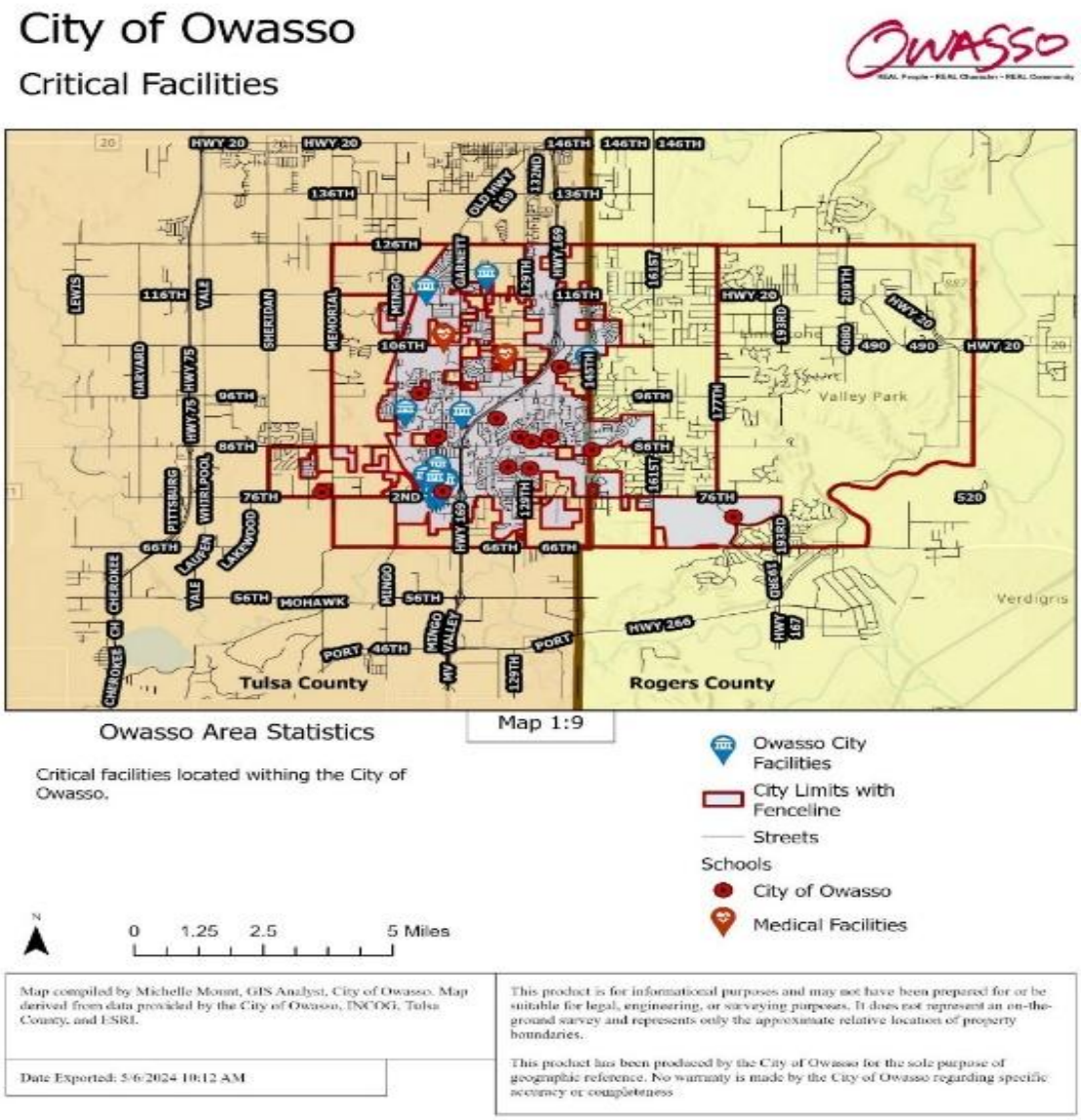
- **Critical Facilities Inventory:** Public safety buildings, hospitals, schools, government offices, utilities, transportation infrastructure, and high-occupancy structures.
- **Hazard Data:** Historical event records, hazard maps, FEMA flood insurance rate maps (FIRMs), U.S. Geological Survey data, and climate projections.
- **Economic Valuation:** Replacement cost estimates for structures and infrastructure.
- **Social Vulnerability Indicators:** Population density, age distribution, income, disability status, and other factors influencing resilience and recovery.

Facilities were mapped against hazard zones to identify exposure levels and potential direct damages. Loss estimates were derived using FEMA's Hazus methodology, local appraisal data, and engineering judgment.

3.4.2 Critical Facility Exposure and Vulnerability

Critical facilities are essential to emergency response, recovery operations, and community resilience. Exposure to hazards may disrupt essential services and cause significant secondary impacts.

Facility Type	Number in Hazard Zone	Hazard Types	Potential Loss Estimate	Operational Impact
Emergency Operations Centers	2	Tornado, Flood	$3.2M	Severe service disruption
Hospitals/Clinics	4	Tornado, Earthquake	$55.4M	Loss of life-saving capacity
Schools	12	Flood, Severe Storm	$78.7M	Disruption to education, shelter loss
Water/Wastewater Facilities	3	Flood, Drought	$22.1M	Public health & sanitation risk



3.4.3 Estimated Potential Losses

Potential losses vary based on hazard severity, exposure, and facility resilience. The table below summarizes total potential losses for critical facilities and infrastructure by hazard type.

Hazard Type	Total Facilities at Risk	Estimated Replacement Cost	Potential Economic Loss (%)
Tornado	28	$192.6M	25–40%
Flood	19	$87.2M	20–35%
Earthquake	15	$162.8M	15–30%

Hazard Type	Total Facilities at Risk	Estimated Replacement Cost	Potential Economic Loss (%)
Severe Winter Storm	21	$51.4M	10–20%

3.4.4 Vulnerability of Jurisdictions

Vulnerability varies between jurisdictions based on hazard exposure, infrastructure condition, and population characteristics.

- **Urban Areas:** High density of critical facilities and populations; significant economic losses possible from short-duration hazards like tornadoes and severe storms.
- **Rural Areas:** Fewer facilities but greater dependency on single points of service (e.g., one hospital or water facility); recovery times may be longer due to limited redundancy.
- **Economically Disadvantaged Communities:** Higher vulnerability due to limited resources for mitigation and recovery, increased reliance on public facilities, and higher susceptibility to housing loss.

Jurisdiction	Population	Critical Facilities in Hazard Zones	Social Vulnerability Score*	Overall Risk Level
Owasso	38,240	10	0.61 (High)	**High**
Collinsville	7,820	4	0.48 (Moderate)	**Moderate**
Skiatook	8,050	5	0.54 (High)	**High**
Unincorporated Area	15,430	7	0.39 (Moderate)	**Moderate**

*Score: 0 = lowest vulnerability, 1 = highest, based on CDC Social Vulnerability Index factors (income, age, disability, minority status, etc.).

3.4.5 Roads, Highways, and Bridges

Owasso is served by U.S. Highway 169 and State Highway 20, with U.S. Highway 75—another major transportation corridor—located approximately three miles west of the city limits. Average Daily Traffic Counts (ADTC) for key routes are as follows:

- **U.S. Highway 75:** 32,700 vehicles
- **U.S. Highway 169:** 56,900 vehicles
- **State Highway 20:** 21,500 vehicles

3.4.6 Ongoing Street Projects

Owasso currently has more than $196 million in roadway improvements underway, including:

- 96th Street North from 119th East Avenue to 129th East Avenue
- 96th Street North from 134th East Avenue to 145th East Avenue
- 96th Street North & 145th East Avenue Intersection
- 106th Street North & 129th East Avenue Intersection
- 116th Street North & Mingo Road Intersection
- 116th Street North from Mingo Road to Garnett Road

- Garnett Road Widening from 106th Street North to 116th Street North

3.4.7 Additional Transportation Facilities

- The Port of Catoosa bisects the western part of Owasso, with railyards located at both 76th Street North and 86th Street North. Situated approximately nine miles southeast of downtown Owasso, the Port serves as the head of the McClellan-Kerr Navigation System (Maritime Highway 40), providing critical connections for regional and international shipping.
- Tulsa International Airport lies just five miles south of downtown Owasso, offering both commercial passenger services and private aviation facilities. In addition, Gundy Airport—located three miles east of Owasso—is a private airfield featuring 2,600-foot and 1,700-foot runways, flight training, aircraft rentals, and hangars for small aircraft.
- Public transportation in Owasso is served by Pelivan Transit and Tulsa Transit, which operate commuter and local bus routes within the community.
- Owasso Public Schools also maintains a substantial transportation fleet, operating 74 school buses and 22 shuttle vehicles. Collectively, these vehicles travel more than 740,000 route miles each year.

3.4.8 Utilities and Infrastructure

Infrastructure and utility systems are essential for both life safety and economic stability. Many critical facilities rely on these systems to operate effectively. Because they are highly interconnected, damage to one component can have cascading effects, leading to partial or complete system failure.

During the planning process, the team identified the following key systems in Owasso: water, wastewater, electrical, gas, and transportation.

- **Water Supply** – The City of Owasso purchases potable water from the City of Tulsa, which sources its raw water from Spavinaw and Eucha Lakes on Spavinaw Creek in Northeast Oklahoma, and from Oologah Lake on the Verdigris River. This water is treated and distributed to customers within Owasso city limits. Portions of the surrounding fence-line area are served by Rogers County Rural Water District No. 3 and Washington County Rural Water District No. 3.
- **Wastewater and Solid Waste** – Sewage treatment, wastewater disposal, and trash collection services are provided by the City of Owasso Public Utilities Department.
- **Electric Service** – Electricity is supplied by Public Service Company of Oklahoma (PSO), Verdigris Valley Electric Cooperative (VVEC) and Grand River Dam Authority (GRDA).
- **Telecommunications** – Landline telephone service is provided by American Telephone & Telegraph Company (AT&T).
- **Natural Gas** – Oklahoma Natural Gas Company supplies gas service to the area.

3.4.9 Key Findings

- Several critical facilities are located within high-risk hazard zones, especially for tornadoes and flooding.
- Potential losses to essential infrastructure could exceed $100 million in a single major hazard event.
- Jurisdictions with high social vulnerability may experience disproportionately severe and prolonged impacts.
- Redundancy, hardening, and relocation of certain facilities could significantly reduce future risk.

3.4.10 Summary Table

Hazard	City Facilities Exposure	Schools Exposure	Notes / Differential Impact	Priority Mitigation Focus
Flood	Low–Moderate: Municipal buildings mostly protected; some low-lying facilities at risk.	Moderate–High: Some schools in flood-prone areas; temporary closures likely.	Schools more vulnerable due to siting in floodplains; operational disruption affects students.	Elevate flood protection measures for schools; maintain municipal drainage systems.
Tornado / High Winds	Moderate: City offices, utilities may sustain structural or roof damage; emergency plans in place.	High: Schools at higher risk, particularly during school hours; shelters may be insufficient.	Schools have higher exposure due to student population density.	Strengthen school storm shelters and emergency drills; retrofit vulnerable city facilities.
Severe Thunderstorms / Hail	Low: Minor property damage to city facilities; routine maintenance can mitigate.	Moderate: Roof/window damage to schools; disruption to classrooms and playgrounds.	Larger roof areas and playgrounds increase school exposure.	Prioritize school roof and window reinforcement; routine city facility inspections.
Winter Storm / Ice	Moderate: Road maintenance, public utilities, and power systems challenged; some facility closures possible.	Moderate–High: Schools frequently closed; heating and transportation affected.	Operational disruptions more acute for schools due to safety of students and staff.	Winterize school transport and heating systems; ensure city snow/ice response readiness.
Extreme Heat	Moderate: Staff and outdoor city operations affected; critical services maintained.	Moderate–High: Student safety concerns; restrictions on outdoor activities; HVAC strain.	Differential primarily from population vulnerability (students vs. staff).	Enhance cooling measures and shaded areas for schools; monitor staff wellness for city operations.
Drought	Low: Water restrictions affect irrigation of city parks and landscaping.	Low–Moderate: Water conservation measures impact cafeterias and grounds.	Minimal short-term impact; long-term restrictions may affect both sectors.	Implement water conservation strategies for schools; maintain city water reserves.
Wildfire / Smoke	Low: Smoke may impact air quality in offices; facilities rarely damaged directly.	Moderate: Health concerns for students; outdoor activities curtailed.	Schools more affected due to population vulnerability.	Install air filtration in schools; maintain city emergency air quality monitoring.

Earthquake	Low–Moderate: Structural risk varies; critical facilities retrofitted or reinforced.	Moderate–High: Older schools may be structurally vulnerable; evacuation drills essential.	Schools' structural vulnerability and high occupancy increase exposure.	Retrofit older schools; ensure critical city facilities are seismically reinforced.
Hazardous Materials Incident	Moderate: City facilities may house or manage hazardous materials; emergency response in place.	Low–Moderate: Schools may be near transport routes or facilities; evacuations possible.	Exposure depends on location; schools less directly impacted but still at risk.	Improve emergency hazmat response for city facilities; maintain school evacuation plans.
Pandemic / Biological	Moderate: Staff shortages and operational disruption; essential city services continue with modifications.	High: Student attendance, closures, and continuity of education heavily impacted.	Schools highly affected due to large population density and close-contact environment.	Enhance school health protocols and distance learning capacity; maintain city workforce continuity.
Earth Movement / Sinkholes	Low–Moderate: Some roads or municipal facilities may be affected depending on subsurface conditions.	Low–Moderate: Playground areas, parking lots, and building foundations may be impacted.	Generally localized; school playgrounds and outdoor areas slightly more exposed.	Regular geotechnical inspections for schools; repair vulnerable city sites promptly.
Severe Cold / Freeze	Moderate: Heating system strain in municipal buildings; outdoor operations impacted.	Moderate–High: School closures, transportation disruption, and student safety concerns.	Schools experience more operational disruption due to student safety and transportation dependency.	Winterize schools and maintain heating systems; ensure city heating backup and road clearing.
Lightning	Low: Minor building/utility damage possible; surge protection in place.	Moderate: Risk to outdoor activities; potential for building/system damage.	Schools' outdoor population during events increases exposure.	Install surge protection and lightning safety training for schools; maintain city facility safety systems.
Civil Disturbance / Terrorism	Moderate: City critical infrastructure targeted; emergency operations activated.	Low–Moderate: Schools may enact lockdowns or preventive security measures.	Schools generally less targeted but operational disruption likely.	Prioritize city critical infrastructure protection; ensure school security protocols.
Utility Failure / Power Outage	Moderate: City services impacted; emergency operations maintain essential functions.	Moderate–High: Heating/cooling, lighting, and food service disrupted; closures possible.	Schools more sensitive due to dependent population and daily operations.	Backup power for schools; maintain city emergency power systems.

3.4.11 Plan Revisions Due to Changes in Community Priorities

E2-a Compliance Statement: Yes, the plan describes how it was revised to reflect changes in community priorities, documenting shifts in vulnerability for each hazard based on post-2019 development, mitigation projects, and policy updates for both the City and OPS.

The plan was revised to capture how evolving community priorities have influenced hazard vulnerability since 2019. Hazard-specific reviews were conducted using permits, plats, capital improvement projects, and school bond improvements. A decision rule classified vulnerability as decreased (▼) when mitigation outweighed new exposure, increased (▲) when growth outpaced mitigation, and stable (▬) when exposure was balanced by mitigation.

Overall, flood vulnerability decreased due to City drainage projects, repetitive loss acquisitions, and OPS infrastructure upgrades. OPS tornado/wind vulnerability decreased significantly with safe room and roof retrofit projects, while City vulnerability remained stable as safe rooms offset growth-related exposure. Vulnerability for the City was stable for most other hazards (winter weather, drought/heat, and hazmat corridors), reflecting mitigation investments that balanced growth-related risks. However, wildfire vulnerability increased for the City due to subdivision expansion into the WUI without adoption of WUI codes. For OPS, vulnerability generally decreased across all hazards, including seismic anchorage projects, backup power installations, enhanced shelter-in-place capacity, and updated athletic heat safety measures.

This hazard-by-hazard analysis demonstrates how shifting priorities—such as investing in life-safety facilities, drainage infrastructure, and school resilience—were incorporated into the plan and used to revise the vulnerability assessment.

Changes in Vulnerability Since 2019

Participant	Area / Hazard	Post-2019 Development Snapshot	Date Range	Net Change	Rationale (1–2 sentences)
City	SFHA (Flood)	Limited new development in mapped SFHAs; 3 drainage CIP projects and 2 RL buyouts completed	2019–2024	▼ Decrease	Drainage improvements and acquisitions reduced overall exposure despite modest infill development.
City	Tornado / Wind / Hail	New subdivisions increased population exposure; 1 new community safe room constructed	2021–2023	▬ Stable	Growth increased exposure, but new safe room capacity offset vulnerability.

City	Wildfire / WUI	Two subdivisions expanded at WUI edge; no WUI code adopted	2017–2020	▲ Increase	Expansion increased exposure with minimal mitigation.
City	Winter Storm	Added 10 lane miles of new roads; upgraded snow/ice equipment fleet	2019–2024	— Stable	New development expanded exposure, but fleet upgrades maintained stable vulnerability.
City	Drought / Extreme Heat	Moderate population growth; 2 cooling centers designated	2018–2023	— Stable	Increased demand was balanced by new cooling capacity.
City	HazMat Corridors	New warehouse facility near U.S. 169; evacuation signage installed	2018–2022	— Stable	Slight increase in exposure, but signage and response planning offset risk.
Schools	SFHA (Flood)	No new campuses in SFHA; 1 drainage upgrade at existing school	2020–2022	▼ Decrease	Infrastructure improvements reduced flood vulnerability.
Schools	Tornado / Wind / Hail	2 FEMA-rated safe rooms completed; 3 roof retrofits	2022–2024	▼ Decrease	Major reduction in wind and tornado vulnerability.
Schools	Winter Storm	Generators installed at 2 campuses; bus route coordination formalized	2023–2024	▼ Decrease	Backup power and transportation planning improved resilience.
Schools	Earthquake	Non-structural	2017–2021	▼ Decrease	Reduced vulnerability

		anchorage projects at 4 schools			to seismic non-structural hazards.
Schools	Drought / Extreme Heat	Shade structures installed at 2 campuses; updated athletic heat policy	2019-2019	▼ Decrease	Shade and policy changes improved protection during extreme heat.
Schools	HazMat Corridors	No new campuses in hazmat corridors; enhanced shelter-in-place supplies	2022-2022	▼ Decrease	Preparedness improvements reduced vulnerability.

3.4.12 Mitigation Actions Summary

Flood

Jurisdiction	Action	Timeline	Estimated Cost	Benefit–Cost Rationale
City of Owasso	Pursue FEMA Hazard Mitigation Assistance (HMA) funding for voluntary acquisition or elevation of Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties.	3–5 years (dependent on grant cycles)	High ($500K–$1M depending on properties acquired)	Avoids repetitive flood insurance claims, reduces emergency response/recovery costs, permanently removes at-risk structures from floodplain.
OPS	Harden access roads to campuses adjacent to mapped floodplains to ensure school transportation continuity during high-water events.	2–4 years	Moderate ($50K–$200K)	Ensures student/staff safety and avoids costly disruptions in school operations.

Tornado / High Wind

Jurisdiction	Action	Timeline	Estimated Cost	Benefit–Cost Rationale
City of Owasso	Promote safe room rebates and integrate safe room requirements in new public facilities.	1–3 years	Moderate ($100K–$250K for public facilities; rebates grant-dependent)	Protects life safety during high-wind events, reduces shelter demand on schools/private sector.
OPS	Construct/designate FEMA-rated safe rooms at campuses without existing hardened shelters.	5–7 years	High ($1M+ depending on facility size)	Provides direct life safety protection for students/staff; high benefit–cost ratio due to lives saved.

Severe Winter Weather

Jurisdiction	Action	Timeline	Estimated Cost	Benefit–Cost Rationale
City of Owasso	Procure backup generators for critical facilities (e.g., water, fire, police) to maintain essential services during prolonged outages.	2–3 years	Moderate to High ($250K–$500K)	Maintains emergency response capacity, avoids cascading system failures.
OPS	Install emergency power supplies at designated shelter schools to maintain heat/lighting during outages.	2–4 years	Moderate ($100K–$300K)	Protects sheltering students/staff, avoids costly closures and safety risks.

Wildfire / Grassfire

Jurisdiction	Action	Timeline	Estimated Cost	Benefit–Cost Rationale
City of Owasso	Implement defensible space and vegetation management program in WUI (wildland–urban interface) areas.	1–2 years (ongoing after)	Low ($25K–$75K annually)	Reduces ignition potential and property loss; low-cost/high-benefit mitigation.
OPS	Conduct annual firebreak maintenance around campuses in/near WUI areas.	Ongoing	Low ($10K–$30K annually)	Protects facilities and students; reduces likelihood of structure loss.

Earthquake

Jurisdiction	Action	Timeline	Estimated Cost	Benefit–Cost Rationale
City of Owasso	Adopt/enforce seismic design standards in new public buildings and critical infrastructure projects.	Ongoing	Low (absorbed into construction costs)	Ensures long-term resilience, avoids costly retrofits later.
OPS	Perform non-structural retrofit (securing equipment, shelving, lighting) in older campuses.	2–3 years	Low to Moderate ($50K–$150K per campus)	Cost-effective reduction of injury risk; high benefit–cost ratio.

Drought / Extreme Heat

Jurisdiction	Action	Timeline	Estimated Cost	Benefit–Cost Rationale
City of Owasso	Expand water conservation programs and promote drought-tolerant landscaping in new development.	2–5 years	Low to Moderate ($25K–$100K for outreach/incentives)	Reduces demand on public water system, avoids future infrastructure strain.
OPS	Install shade structures and improve HVAC efficiency at outdoor/common areas to protect students.	2–5 years	Moderate ($50K–$200K)	Reduces heat-related illness risk, improves energy efficiency and operational savings.


STEP 1
Identify Threats and Hazards of Concern
List of Threats/ Hazards
STEP 2
Give Threats and Hazards Context
Context Descriptions for Threats/ Hazards
STEP 3
Establish Capability Targets
Capability Target Statements
STEP 4
Apply the Results
Resource Requirements

Chapter 4:
Mitigations Strategies and Priorities

4.1 Goals to Reduce/Avoid Long-Term Vulnerabilities from Identified Hazards

The City of Owasso Hazard Mitigation Team has identified ten natural hazards that pose threats to life and property within the community (see Chapter Three). The degree of risk each hazard presents to human life depends on several factors, including:

- Knowledge and awareness of the hazard
- Geographic locations most at risk
- Frequency of hazard events
- Population density within the hazard zone
- Availability of warning systems
- Level of first responder training and equipment

From this assessment, the Planning Team established the following overarching mitigation goals:

1. **Protect Life** – Reduce the risk of injury or loss of life from natural hazards.
2. **Protect Property** – Minimize damage to homes, businesses, and critical infrastructure.
3. **Protect the Environment** – Safeguard natural resources and reduce environmental degradation.
4. **Increase Public Preparedness for Disasters** – Enhance community awareness, education, and readiness.

Mitigation Goal	Example Actions	Hazards Addressed
Protect Life	- Install and maintain outdoor warning sirens- Expand first responder training and equipment capabilities- Develop evacuation route signage and shelter plans	Tornado, Severe Thunderstorm, Flood, Extreme Heat, Winter Storm
Protect Property	- Elevate or flood-proof critical facilities- Retrofit public buildings for wind and seismic resistance- Promote defensible space in wildfire-prone areas	Flood, Tornado, Earthquake, Wildfire
Protect the Environment	- Implement erosion control along waterways- Restore native vegetation in floodplains- Promote low-impact development standards	Flood, Drought, Extreme Heat
Increase Public Preparedness for Disasters	- Conduct annual community hazard awareness campaigns- Distribute emergency preparedness guides in multiple languages- Partner with schools for disaster education programs	All Hazards

4.2 Equity and Inclusion in Hazard Mitigation

Meeting the needs of all community members requires a multi-dimensional approach that addresses three interconnected elements: access, process, and outcomes.

- **Access** – The equitable distribution of resources, services, costs, benefits, rights, responsibilities, and risk across all groups, both now and for future generations. Improving access means reducing barriers to services and opportunities, which strengthens community resilience and supports a faster, more equitable recovery after disasters.
- **Process** – The intentional and fair inclusion of all groups in decision-making, policy development, and planning activities. Inclusive processes ensure that diverse perspectives shape hazard mitigation strategies and that no group is excluded from critical discussions.
- **Outcomes** – The increased ability of individuals and groups to meet their needs and achieve their goals through equitable access and inclusive processes. This includes consideration of broader social, governance, economic, and cultural contexts—such as historical inequities, power dynamics, gender, education, ethnicity, and age—that shape community conditions. Equitable outcomes are the future result of ensuring all residents have both access and a voice in hazard mitigation efforts.

4.3 Process Used to Prioritize Mitigation Actions

In compliance with 44 CFR Section 201.c.3.iii, all actions identified in this plan were prioritized using a standardized methodology. The Planning Team adopted the Social, Technical, Administrative, Political, Legal, Economic, and Environmental (STAPLEE) method to evaluate each action item. This process ensured that proposed actions would achieve meaningful benefits while being feasible and broadly supported.

STAPLEE Evaluation Criteria
Each criterion was discussed in detail by the Planning Team using the considerations below:

- **Social** – Measures community acceptance and perceived importance of mitigation actions. Actions are acceptable if they do not disproportionately impact a specific population, do not cause the relocation of lower-income residents, and align with community values.
- **Technical** – Evaluates the effectiveness of the action in providing long-term loss reduction with minimal negative side effects. Owasso currently lacks in-house technological resources to conduct comprehensive risk assessments, so all data must be accessible and understandable to the public.
- **Administrative** – Assesses whether adequate staffing and resources are available to implement the action. At present, the Emergency Management is the sole staff member responsible for hazard mitigation.
- **Political** – Considers local leadership support and stakeholder engagement. Successful actions have community buy-in and broad participation during planning.
- **Legal** – Ensures compliance with federal and state requirements, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act and the Disaster Mitigation Act of 2000, which mandate FEMA-approved hazard mitigation plans.
- **Economic** – Considers cost-effectiveness and funding availability. FEMA's Hazard Mitigation Grant Program (HMGP) and Pre-Disaster Mitigation (PDM) program are the primary funding sources for plan development and updates.
- **Environmental** – Confirms that actions are environmentally sustainable, comply with regulations, and align with the City's environmental goals.

Scoring Method
Each STAPLEE criterion was rated on a 1 to 5 scale based on the extent to which the consideration was met:

Criterion	Considerations	Score Range	Example Considerations for Owasso
S – Social	Community acceptance; avoids disproportionate impacts; consistent with social/cultural values.	1–5	Does not require relocation of low-income residents; aligns with community values.
T – Technical	Provides long-term loss reduction; minimal negative side effects; feasibility given current technology.	1–5	Uses available technology; can be implemented with existing capabilities.
A – Administrative	Adequate staff, expertise, and resources to implement.	1–5	Can be implemented with current staff (Emergency Management).
P – Political	Support from elected officials; stakeholder and public buy-in.	1–5	Supported by community leaders and residents.
L – Legal	Compliance with existing laws, policies, and regulations.	1–5	Meets Disaster Mitigation Act and Stafford Act requirements.
E – Economic	Cost-effectiveness; funding availability.	1–5	Eligible for FEMA HMGP or PDM funding; benefits outweigh costs.
E – Environmental	Consistent with environmental goals; no adverse impacts; regulatory compliance.	1–5	Supports sustainability and meets environmental laws.

Scoring Scale:
1 = Does Not Satisfy | 2 = Somewhat Satisfies | 3 = Moderately Satisfies | 4 = More Than Moderately Satisfies | 5 = Strongly Satisfies

Implementation Priority Levels
After scoring, each action was assigned one of the following priority levels:

- **High Priority** – Meets multiple objectives; benefits exceed costs; eligible for and secured grant funding; or is already underway and can be completed within 1–5 years.
- **Medium Priority** – Meets multiple objectives; benefits exceed costs; eligible for grant funding but funding not yet secured; completion within 1–5 years once funding is obtained. Actions are elevated to High Priority when funding is secured.
- **Low Priority** – Mitigates hazard risk but benefits are less than or difficult to quantify; no identified grant funding; completion timeline exceeds 5 years. May become eligible if new funding sources emerge.

Cost-Benefit Considerations
While a formal cost-benefit analysis (CBA) was not conducted for every action during plan development, the Planning Team agreed to perform a full CBA for any action selected for implementation, following the requirements of the applicable funding source.

4.3.1 Mitigation Project Selection

The state may submit applications for Hazard Mitigation Assistance funding as the recipient and sub-recipient. Historically, the Oklahoma Department of Emergency Management (OEM) has applied for and received funds for 27 phases of the SoonerSafe Safe Room Rebate Program. OEM is responsible for administering the SoonerSafe Program. The SoonerSafe program provides homeowners with a rebate of 75% towards the cost of a safe room

and installation, no to exceed $2,000. SoonerSafe is contingent on the availability of Federal funds.

Projects that have been submitted to OEM and are currently waiting for funding at the time of a disaster declaration are the highest priority for the State of Oklahoma. Applicants are responsible for prioritizing projects by urgency of the need with the disaster being mitigated, financial impact to the jurisdiction, human losses, and timeframe for completion. The State is responsible for prioritizing each project application with respect to how much and when State assistance is available.

OEM may, at its discretion, act as sub-recipient for other project types such as, but not limited to: Hazard Mitigation Planning Initiatives, Public Information and Outreach, Mapping Activities, and other mitigation activities.

Hazard Mitigation Planning Grants must be based on actual needs of the jurisdiction. Factors affecting the range of costs:

- Technical Sophistication of scope of work
- Number and size of participating jurisdictions
- Number of significant hazards affecting Planning area
- Variance of hazards/risk across Planning area
- Update or new Plan (costs of first round updates may be similar to new Plans depending on quality of original Plan; second round updates should start significantly decreasing)
- Post disaster (more to analyze – higher cost)

Fire Management Assistance Grants (FMAG)

- OEM prioritize HMGP Post Fire assistance to Wildfire Mitigation projects first within the first 90 days of the application period. Following the 90-day initial period, HMGP eligible projects will be made available to eligible sub-applicants statewide. OEM coordinates with OEM regional representatives and through the State Hazard Mitigation Team to announce funding. Deadlines for applications will be within the guidance set by the FMAG-HMGP requirements.

The strategies identified below in the Hazard Mitigation Initiatives are activities and programs are those that OEM and partner agencies are currently engaged with to facilitate mitigation actions throughout the state. The table below uses a strategy and action basis to provide pathway to meeting the mitigation goals.

Goal	Action / Strategy	Hazards Addressed
Protect Life	Maintain and improve emergency warning systems (sirens, CodeRED, IPAWS)	**Severe Storms, Tornados, Flooding, Winter Storms, Extreme Heat, Hail, Wildfire, Earthquake, Dam Failure**
	Expand first responder training for multi-hazard incidents	**Severe Storms, Tornadoes, Flooding, Winter Storms, Extreme Heat, Wildfire, Hail, Earthquake, Dam Failure**
	Improve shelter access and capacity (schools, public facilities)	**Tornadoes, Severe Storms, Extreme Heat, Winter Storms**
Protect Property	Promote adoption of hazard-resistant building codes	**Tornadoes, Severe Storms, Hail, Flooding, Earthquake**

Goal	Action / Strategy	Hazards Addressed
	Encourage property owners to implement retrofits (safe rooms, floodproofing)	**Tornadoes, Severe Storms, Flooding, Hail**
	Upgrade drainage systems to reduce flood risk	**Flooding**
Protect Environment	Implement floodplain and wetland preservation policies	**Flooding, Dam Failure**
	Reduce wildfire fuel loads in high-risk areas	**Wildfire**
	Promote water conservation practices during drought	**Drought**
Increase Public Preparedness	Conduct annual multi-hazard public education campaigns	**All hazards (Severe Storms, Tornadoes, Flooding, Winter Storms, Extreme Heat, Wildfire, Hail, Earthquake, Drought, Dam Failure)**
	Develop targeted outreach for vulnerable populations	**Severe Storms, Extreme Heat, Winter Storms, Flooding**
	Partner with schools for student and family preparedness programs	**All hazards**

Priority Legend

- ***High Priority*** *– Highest CPRI scores, most urgent risk*
- ***Medium Priority*** *– Moderate CPRI scores, significant concern*
- ***Lower Priority*** *– Lower CPRI scores, still monitored*

City of Owasso – Mitigation Actions by Hazard

Hazard	Vulnerability	Mitigation Action
Flooding	Repetitive Loss (RL) properties; inadequate drainage in older neighborhoods	Pursue Hazard Mitigation Grant Program (HMGP) funding to acquire or elevate RL/SRL homes; upgrade stormwater infrastructure.
Severe Storms (Wind/Hail/Tornado)	Vulnerability of residential neighborhoods and public facilities to wind damage	Expand community safe rooms at public parks and civic centers; strengthen critical facility roofs to meet ICC 500 standards.
Wildfire (Urban Interface)	Homes and businesses adjacent to undeveloped land	Adopt/enforce wildland–urban interface (WUI) codes; expand vegetation management and defensible space outreach.
Winter Storms	Road closures and power outages	Expand de-icing and snow-clearing capacity; enhance coordination with utility providers for grid hardening.
Earthquake	Older structures not designed to seismic standards	Promote retrofit incentive programs for unreinforced masonry (URM) buildings; update building codes as needed.
Drought/Extreme Heat	Strain on water supply; vulnerable	Expand water conservation programs; develop city-

Hazard	Vulnerability	Mitigation Action
	populations	wide cooling centers with backup power.
Hazardous Materials Incident	Proximity of transport corridors (U.S. 169, rail line)	Enhance hazmat response training/equipment; update evacuation route signage near industrial corridors.

Owasso Public Schools – Mitigation Actions by Hazard

Hazard	Vulnerability	Mitigation Action
Flooding	Schools near flood-prone drainageways; student safety during events	Update Emergency Operations Plan (EOP) to include flood shelter-in-place/transportation procedures; elevate utilities in at-risk campuses.
Severe Storms (Wind/Hail/Tornado)	Student and staff safety; roof and window damage	Construct/designate FEMA-rated safe rooms in all schools; install impact-resistant windows/doors.
Wildfire (Urban Interface)	Perimeter schools adjacent to open land	Create defensible space around campuses; conduct joint fire drills with Owasso Fire Department.
Winter Storms	Loss of instructional time; unsafe transportation conditions	Enhance communications with parents/staff regarding closures; coordinate with city for snow removal priority on bus routes.
Earthquake	Non-structural hazards in classrooms	Anchor shelving, lab equipment, and mechanical systems; conduct earthquake drills annually.
Drought/Extreme Heat	Outdoor athletic safety; strain on water resources	Install shade structures at athletic fields/playgrounds; revise policies for heat-related illness prevention.
Hazardous Materials Incident	Campuses near transport corridors	Strengthen shelter-in-place protocols; stock emergency ventilation seals and PPE.

4.4 Hazard Mitigation Actions Funding Sources

The City of Owasso has access to several funding programs designed to support hazard mitigation projects. These programs help reduce community vulnerability and enhance resilience to natural hazards. Key programs include:

Hazard Mitigation Grant Program (HMGP)

Overview:
Created in 1988 under Section 404 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, the HMGP is activated following a Presidential Disaster Declaration. The program funds mitigation projects on a 75% Federal / 25% non-Federal cost-share basis. In Oklahoma, the 25% non-Federal match is typically covered by local or county government.

Objectives:

- Prevent future loss of life and property due to disasters.
- Implement state or local hazard mitigation plans.
- Enable mitigation measures during disaster recovery.
- Fund previously identified mitigation measures that benefit the affected area.

Eligible Applicants:
State and local governments, certain non-profit organizations, and federally recognized Indian tribes.

Program Emphasis:
HMGP supports a coordinated all-hazards approach with a strong focus on planning. Activities may include:

- Updating and implementing hazard mitigation plans.
- Developing local mitigation plans.
- Drafting state legislation or adopting local ordinances.
- Coordinating across state and local agencies to ensure integrated risk reduction.

Building Resilient Infrastructure and Communities (BRIC) Program

Overview:
Introduced in 2020, BRIC is a yearly competitive grant program open to local communities and tribal nations. The Notice of Funding Opportunity (NOFO) is typically released in late August or early September, with applications due by the end of January. BRIC projects follow the standard 75% Federal / 25% non-Federal match.

Funding Structure:
In addition to the national competitive awards, each state receives an annual allocation for eligible projects. The amount varies yearly based on federal appropriations.

Purpose:
Provides funding to reduce risks from natural disasters, including:

- Wildfires
- Drought
- Hurricanes
- Earthquakes
- Extreme heat
- Flooding

Guiding Principles:

- Build community capability and capacity.
- Encourage innovation.
- Promote partnerships.
- Support large-scale projects.
- Maintain flexibility and consistency.

National Flood Insurance Program (NFIP)

Overview:
Enacted in 1968, the NFIP offers federally subsidized flood insurance to property owners in participating communities. To join the NFIP, communities must establish and enforce minimum floodplain management regulations in special flood hazard areas.

Legislative History:

1. **1973 Flood Disaster Protection Act** – Required flood insurance for federally related loans or assistance in identified floodplain areas.
2. **1980 Oklahoma Floodplain Management Act** – Enabled any county or community to form a Floodplain Board and adopt floodplain regulations to participate in NFIP.

Minimum NFIP Requirements:

- Require permits for construction in designated floodplains.
- Review development and subdivision plans for flood risk.
- Protect water supply and sewage systems from flood impacts.
- Use base flood elevation data in planning.
- Maintain flood carrying capacity in watercourses.

Owasso's Participation:
Owasso has been an NFIP community since 1987, adopting Flood Damage Prevention Ordinance No. 367 on March 17, 1987, which requires all new development to be built at least one foot above the 100-year base flood elevation. The City continues to enforce this requirement and educates residents about NFIP participation.

Program	Year Established	Funding Match	Eligibility	Funding Cycle / Activation	Focus Areas	Administered By	Notes on Owasso Participation
Hazard Mitigation Grant Program (HMGP)	1988 (Robert T. Stafford Act, Sec. 404)	75% Federal / 25% non-Federal (in OK, local/county often covers 25%)	State & local governments, certain non-profits, federally recognized tribes	Activated after a Presidential Disaster Declaration	All-hazards mitigation projects, with strong emphasis on planning and implementation	Oklahoma Department of Emergency Management (State-level administration)	Used to update and implement hazard mitigation plans; enables projects during recovery
Building Resilient Infrastructure and Communities (BRIC)	2020	75% Federal / 25% non-Federal	Local communities, tribal nations, states, territories	Annual competitive cycle (NOFO released ~Aug/Sept; deadline ~Jan)	Future risk reduction for hazards including wildfires, drought, hurricanes, earthquakes, extreme heat, flooding	FEMA (with state allocation for some projects)	Focus on capacity-building, innovation, partnerships, and large projects
National Flood Insurance	1968 (Flood Disaster Protection Act 1973;	Not a grant program; offers federally	Communities must adopt & enforce	Ongoing participation; insurance availability	Floodplain management, flood risk reduction, and	OPWA	Used to update and implement hazard

Program	Year Established	Funding Match	Eligibility	Funding Cycle / Activation	Focus Areas	Administered By	Notes on Owasso Participation
Program (NFIP)	Oklahoma Floodplain Management Act 1980)	subsidized flood insurance	floodplain regulations	contingent on compliance	property insurance		mitigation plans; enables projects during recovery

Mitigation Actions Matrix – City & Schools

Hazard	Participant	Action	Lead Dept / Position	Funding Source(s)	Timeframe
Flooding	City	Acquire/elevate RL/SRL homes; upgrade stormwater systems	Engineering Dept. / Floodplain Administrator	FEMA HMGP, BRIC, Local CIP	Medium
	Schools	Update EOP for flood response; elevate utilities in at-risk campuses	Owasso Public Schools Facilities Director	FEMA HMGP, OWRB Flood Mitigation Assistance	Short
Severe Storms (Wind/Hail/Tornado)	City	Construct community safe rooms; retrofit roofs of critical facilities	Emergency Management / Public Works Director	FEMA HMGP, BRIC, State Safe Room Grant	Medium
	Schools	Build FEMA-rated safe rooms; install impact-resistant glazing	Superintendent / Facilities Director	FEMA HMGP, School Bond Funds	Long
Wildfire (Urban Interface)	City	Adopt WUI codes; vegetation management outreach	Fire Dept. / Planning Dept.	State Fire Marshal Grants, Local General Fund	Short
	Schools	Create defensible space at campuses; fire drills with OFD	Owasso Public Schools Safety Coordinator	State Dept. of Education Safety Grants	Short
Winter Storms	City	Expand snow/ice removal capacity; utility coordination	Streets Dept. / Public Works Director	Local CIP, ODOT Emergency Funds	Short
	Schools	Enhance closure communication; prioritize bus route plowing	Transportation Director	District Ops Budget, Local CIP	Short
Earthquake	City	Promote retrofit incentives for URM buildings; code updates	Planning Dept. / City Building Official	FEMA NEHRP, Local CIP	Long

Hazard	Participant	Action	Lead Dept / Position	Funding Source(s)	Timeframe
	Schools	Secure non-structural items; annual earthquake drills	School Safety Officer / Facilities Director	District Ops Budget, OEM Grants	Short
Drought / Extreme Heat	City	Water conservation programs; develop cooling centers	Utilities Dept. / Emergency Mgmt	OWRB Grants, FEMA HMGP	Medium
	Schools	Shade structures on playgrounds/fields; heat illness prevention policy	Athletics Director / Facilities	School Bond Funds, State DOE Health Grants	Medium
Hazardous Materials Incident	City	Hazmat response training; update evacuation signage	Fire Dept. / Emergency Mgmt	DHS Hazmat Grants, Local CIP	Short
	Schools	Shelter-in-place protocols; PPE & ventilation supplies	School Safety Officer	OEM Grants, District Ops Budget	Short

4.4.1 Mitigation Action Items

The City of Owasso has undertaken a variety of mitigation projects targeting hazards such as tornadoes, floods, wildfires, winter storms, and others. These projects include infrastructure upgrades, planning efforts, education programs, and regulatory actions. Below is a summary of key projects, their status as of 2024, and their outcomes:

City Of Owasso:

1. Backup Power Installation

- **Hazards:** Tornado, severe wind, lightning, winter storms, wildfire, earthquake
- **Type:** Structure & Infrastructure
- **Lead Agency:** City Public Works
- **Schedule:** FY 2028
- **Cost:** $ 750,000
- **Outcome:** Emergency generators installed at key city facilities to ensure operational continuity during power outages. Generators added at all targeted locations, with plans to include the Owasso Community Center.

2. Retrofit School Gyms as Safe Rooms

- **Hazards:** Tornado, severe wind
- **Type:** Structure & Infrastructure
- **Lead Agencies:** City Administration and Owasso Schools
- **Schedule:** FY 2029
- **Cost:** $30 million
- **Outcome:** Large capacity tornado shelters at schools. However, due to behavioral concerns and operational difficulties, this project is no longer recommended for renewal.

3. Contingency Plan for Power Outage from Winter Storms

- **Hazards:** Winter Storms
- **Type:** Planning and Regulation
- **Lead Agencies:** Public Works and Emergency Management
- **Schedule:** FY 2029
- **Cost:** $25,000
- **Outcome:** No implementation yet; considered viable and expected to be integrated into future continuity planning.

4. All-Media Hazard Education Program

- **Hazards:** Multiple including floods, tornadoes, extreme heat, wildfire, earthquakes
- **Type:** Education & Awareness
- **Lead Agency:** Emergency Management
- **Schedule:** FY 2026
- **Cost:** $25,000
- **Outcome:** Sporadic events held but lacking coordination across departments.

5. Drainage Improvements in Specific Subdivisions

- **Hazards:** Flood
- **Type:** Structure & Infrastructure
- **Lead Agency:** Public Works
- **Schedule:** FY 2028
- **Cost:** $4.5 million
- **Outcome:** Funding secured; study phase initiated.

6. Storm Water Drainage Improvements Citywide

- **Hazards:** Flood
- **Type:** Structure & Infrastructure
- **Lead Agency:** Public Works
- **Schedule:** FY 2025-2030
- **Cost:** $5 million
- **Outcome:** Ongoing; progress made in multiple neighborhoods.

7. Joint Training Center for Public Works & Fire Department

- **Hazards:** Hazardous Materials, Safety, General Disaster Training
- **Type:** Structural
- **Lead Agencies:** Public Works, Fire Department
- **Schedule:** FY 2019
- **Cost:** $19.5 million
- **Outcome:** Facility and training rooms established; expanded training planned.

8. Mobile Command/Communication Vehicle

- **Hazards:** Flood, tornado, winter storm, wildfire, earthquake, hazardous materials, dam break
- **Type:** Structure & Infrastructure
- **Lead Agency:** Emergency Management
- **Schedule:** FY 2028
- **Cost:** $750,000
- **Outcome:** No progress due to lack of assigned staff; still considered viable.

9. Wildland Urban Interface Fire Breaks

- **Hazards:** Wildfire
- **Type:** Natural Systems Protection
- **Lead Agency:** Public Works
- **Schedule:** FY 2030
- **Cost:** $250,000
- **Outcome:** Ordinance adopted requiring fire breaks and setbacks in WUI areas.

10. Water Saving Fixtures Installation

- **Hazards:** Drought
- **Type:** Structure & Infrastructure
- **Lead Agency:** City Building Operations
- **Schedule:** FY 2030
- **Cost:** $50-$500 per fixture
- **Outcome:** Implemented gradually during fixture replacement; no systematic effort.

11. Lightning Protection Systems

- **Hazards:** Lightning
- **Type:** Structure & Infrastructure
- **Lead Agency:** Public Works
- **Schedule:** FY 2030
- **Cost:** $20,000 per building
- **Outcome:** No action due to lack of staff assignment.

12. Expansive Soils Risk Mapping

- **Hazards:** Expansive Soils
- **Type:** Local Plans & Regulations
- **Lead Agency:** Public Works
- **Schedule:** FY 2030
- **Cost:** $200,000
- **Outcome:** Soil maps available from neighboring counties; no new maps developed.

13. Burying Overhead Power Lines

- **Hazards:** Earthquake, tornado, high winds, winter storms, wildfire
- **Type:** Structure & Infrastructure
- **Lead Agencies:** Public Works, Electric Companies

- **Schedule:** FY 2025-2030
- **Cost:** $20 million
- **Outcome:** No action on feeder lines due to cost; new subdivisions require buried lines.

14. Energy Efficient Windows Installation

- **Hazards:** Heat, winter storms
- **Type:** Structure & Infrastructure
- **Lead Agency:** Public Works
- **Schedule:** FY 2030
- **Cost:** $5,000 per window
- **Outcome:** No action due to no assigned staff.

15. Laminated Impact-Resistant Windows

- **Hazards:** Hail, tornado
- **Type:** Structure & Infrastructure
- **Lead Agency:** Public Works
- **Schedule:** FY 2030
- **Cost:** $5,000 per window
- **Outcome:** No action due to no assigned staff.

16. Expansive Soils Building Ordinance

- **Hazards:** Expansive Soils
- **Type:** Local Plans & Regulations
- **Lead Agency:** City Administration
- **Schedule:** FY 2030
- **Cost:** $5,000
- **Outcome:** Ordinance enacted requiring geotechnical analysis for foundations when necessary.

Owasso Public Schools

1. Water Saving Fixtures

- **Hazard(s) Targeted:** Drought
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2015
- **Estimated Cost:** $50 to $500 per fixture
- **Funding Source:** Local/Grants
- **Work Product:** Installation of water-saving fixtures in school facilities
- **Expected Outcome:** Reduce water usage year-round, including during drought
- **2025 Status:** Fixtures replaced with water-saving models as needed.

2. Outdoor Warning Systems

- **Hazard(s) Targeted:** Flood, Tornado, High Wind, Lightning, Hail, Wildfire, Hazardous Material Event

- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2030
- **Estimated Cost:** $75,000
- **Funding Source:** Local/Grants
- **Work Product:** Outdoor loudspeakers for hazard notification
- **Expected Outcome:** Immediate hazard alerts for students and staff outdoors
- **2024 Status:** Contracted with PerryWeather® for lightning detection and alerts.

3. Two-Way Radios for All School Buildings

- **Hazard(s) Targeted:** Flood, Tornado, High Wind, Hail, Wildfires, Hazardous Material Events
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2030
- **Estimated Cost:** $12,500
- **Funding Source:** Local/Grants
- **Work Product:** Two-way radios and repeaters
- **Expected Outcome:** Reliable communication during and after hazard events
- **2025 Status:** Purchased 137 handheld, 55 bus radios, and repeaters.

4. Energy Efficient Windows

- **Hazard(s) Targeted:** Heat, Winter Storm
- **Project Type:** Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2030
- **Estimated Cost:** $5,000 per window
- **Funding Source:** Local/Grants
- **Work Product:** Installation during building remodels
- **Expected Outcome:** Improved energy efficiency for temperature control
- **2025 Status:** Planned for Ator Elementary and Ram Academy.

5. Installation of NOAA Weather Radios

- **Hazard(s) Targeted:** Flood, Tornado, High Winds, Lightning, Hail, Winter Storms, Wildfires, Hazardous Material Events
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2025
- **Estimated Cost:** $100 per radio
- **Funding Source:** Local/Grants
- **Work Product:** Purchase and install NOAA weather radios
- **Expected Outcome:** Improved hazard awareness and notification on campuses
- **2025 Status:** Radios installed at all campuses; alerts broadcast through public address.

6. All-Media Hazard Education Program

- **Hazard(s) Targeted:** Flood, Tornado, High Winds, Lightning, Hail, Winter Storms, Extreme Heat, Drought, Expansive Soils, Wildfires, Earthquakes, Hazardous Material Events
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2025
- **Estimated Cost:** $25,000
- **Funding Source:** Local/Grants
- **Work Product:** Hazard risk education for staff, students, and parents
- **Expected Outcome:** Reduced vulnerability to hazards
- **2025 Status:** Uses Peach Jar® communications; complies with Emergency Medical Plan for athletics.

7. Map Expansive Soils Risk Area

- **Hazard(s) Targeted:** Expansive Soils
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2030
- **Estimated Cost:** $100,000
- **Funding Source:** Local/Grants
- **Work Product:** Detailed soil maps for school construction sites
- **Expected Outcome:** Proper foundation design to mitigate soil risks
- **2025 Status:** Uses existing Tulsa and Rogers County soil maps.

8. Retrofit School Gyms into Community Safe Rooms

- **Hazard(s) Targeted:** Tornado, High Winds
- **Project Type:** Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2025–2030
- **Estimated Cost:** $28,000,000 total
- **Funding Source:** Local, Bond, Grants
- **Work Product:** Gyms retrofitted to FEMA 361 safe room standards
- **Expected Outcome:** Increased safety during tornado and high winds
- **2025 Status:** Safe rooms installed at 8 facilities; not recognized as public shelters.

9. Purchase Snow Plows for School Sites

- **Hazard(s) Targeted:** Winter Storms
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2030
- **Estimated Cost:** $21,000 (for 3 plows)
- **Funding Source:** Local, Bond, Grants
- **Work Product:** Snow plows for clearing parking lots and roadways
- **Expected Outcome:** Improved safety and accessibility during snow/ice events
- **2025 Status:** Two equipment retrofitted; two new plows purchased.

10. Install Keyless Entry Systems at All School Sites

- **Hazard(s) Targeted:** Wildfire, Tornado, Intruder
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2015
- **Estimated Cost:** $300,000
- **Funding Source:** Local, Bond, Grants
- **Work Product:** Keyless entry systems installed; codes shared with first responders
- **Expected Outcome:** Emergency access assistance for Police and Fire Departments
- **2025 Status:** Project completed.

11. Purchase Backup Generators for All School Sites

- **Hazard(s) Targeted:** Tornado, High Winds, Hail, Winter Storms, Lightning, Earthquake
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2025
- **Estimated Cost:** $375,000
- **Funding Source:** Local, Bond, Grants
- **Work Product:** Generators installed at all buildings
- **Expected Outcome:** Provide electrical service during hazard events
- **2025 Status:** IT networks and Central Data Facility covered.

12. Purchase Security Cameras for All School Sites

- **Hazard(s) Targeted:** Intruder
- **Project Type:** Non-Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2030
- **Estimated Cost:** $70,000
- **Funding Source:** Local, Bond, Grants
- **Work Product:** Cameras installed and linked with Owasso Police Department
- **Expected Outcome:** Safer environment and enhanced threat detection
- **2025 Status:** Over 400 cameras installed.

13. Safe Rooms Installation

- **Hazard(s) Targeted:** Tornado, High Winds
- **Project Type:** Structural
- **Lead Agency:** Owasso Public Schools
- **Time Schedule:** FY 2030
- **Estimated Cost:** $14,000,000
- **Funding Source:** Local, Bond, Grants
- **Work Product:** Large safe rooms installed at each school
- **Expected Outcome:** Protection of students and staff during severe wind events
- **2025 Status:** Safe rooms installed at 8 school facilities.

14. Expansive Soils Building Policy

- **Hazard(s) Targeted:** Expansive Soils
- **Project Type:** Non-Structural
- **Lead Agency:** School Administration
- **Time Schedule:** FY 2030
- **Estimated Cost:** $5,000
- **Funding Source:** Local/Grants
- **Work Product:** Policy requiring geotechnical soil analysis for foundations
- **Expected Outcome:** Proper foundation design to prevent soil-related damage
- **2025 Status:** Soil analysis required for all building projects.

List of Action Items for 2025 to 2030:

The planning team carefully developed a comprehensive set of mitigation actions aimed at addressing the variety of hazards that impact both the City of Owasso and the Owasso Public Schools. These mitigation strategies were selected collaboratively by representatives from both the City and the school district, ensuring that the unique needs and priorities of each entity are met. The selection process was guided by specific criteria to prioritize actions that would effectively reduce risk, protect life and property, and improve overall community resilience.

To better organize and focus efforts, the Owasso Hazard Mitigation Planning team grouped the action items into four main categories. These categories provide a clear framework to understand the scope and nature of the mitigation strategies, as well as the types of resources and expertise required for implementation:

1. **Local Plans and Regulations:**
   This category includes governmental policies, ordinances, codes, and regulations that influence land use, development, and building practices. Actions in this category often involve updating zoning laws, enforcing building codes, and creating contingency plans that help reduce vulnerability by shaping how the community grows and how structures are maintained. These regulatory tools serve as the foundation for sustainable hazard mitigation by promoting safer construction practices and guiding development away from high-risk areas.
2. **Structure and Infrastructure:**
   These actions focus on the physical modification or enhancement of buildings, critical infrastructure, and public facilities to make them more resistant to hazard impacts. This can include retrofitting existing structures, constructing new facilities such as safe rooms or backup power systems, and improving stormwater management infrastructure to reduce flooding. Structural projects aim to physically reduce the exposure of the community's assets to hazards, thereby minimizing damage, service disruption, and recovery time after events.
3. **Natural Systems Protection:**
   Recognizing the important role natural landscapes play in hazard mitigation, this category includes actions designed to preserve, restore, or enhance natural systems. Examples include maintaining wetlands to absorb floodwaters, implementing xeriscaping and drought-resistant landscaping to conserve water, and managing vegetation to reduce wildfire fuel loads. These efforts help maintain ecosystem functions that serve as natural buffers against hazards and support long-term environmental sustainability.
4. **Education and Awareness Programs:**
   Sustained educational efforts are critical to building a community's capacity to prepare for and respond to hazards. This category covers programs and campaigns aimed at increasing public knowledge of hazard risks and promoting proactive mitigation behaviors. These initiatives often target residents, businesses, school staff, and local officials, providing information on emergency preparedness, hazard-specific safety measures, and available mitigation resources. By fostering a culture of awareness and readiness, these programs help reduce vulnerability and enhance community resilience.

Together, these four categories of mitigation actions provide a balanced and strategic approach to reducing the risks posed by natural and man-made hazards. The comprehensive nature of these action items reflects the commitment of both the City of Owasso and Owasso Public Schools to protect lives, safeguard property, and ensure the continuity of essential services and education through proactive hazard mitigation efforts between 2025 and 2030.

City Action Plans

1. **Develop Contingency Plan for Power Outages**
   - Hazard(s): Winter Storm
   - Project Type: Planning and Regulation
   - Lead Agencies: City Public Works, Emergency Management, Police, Fire, Utilities
   - Estimated Cost: $25,000
   - Expected Outcome: Minimize frequency/duration of outages; prioritize critical services
   - STAPLEE: S=4, T=5, A=5, P=5, L=5, E=4, E=4 — Total: 32
   - Priority: High
2. **Install Backup Generators at Key Facilities**
   - Hazard(s): Earthquake, Extreme Cold/Heat, Thunderstorm, Tornado, Winter Storm
   - Project Type: Structure & Infrastructure
   - Lead Agencies: Recreation & Culture, Fire, Emergency Management, Facilities Maintenance
   - Estimated Cost: $250,000
   - Expected Outcome: Maintain critical facility operation during outages
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
   - Priority: High
3. **"All Media" Public Education Program**
   - Hazard(s): Flooding, Tornado, Wind, Thunderstorm, Winter Storm, Heat/Cold, Drought, Wildfire, Earthquake, Hazardous Materials
   - Project Type: Education & Awareness
   - Lead Agency: Emergency Management
   - Estimated Cost: $25,000
   - Expected Outcome: Increase community hazard awareness and mitigation
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=4, E=4 — Total: 33
   - Priority: High
4. **Subdivision Stormwater Drainage Improvements**
   - Hazard(s): Flooding
   - Project Type: Structure & Infrastructure
   - Lead Agency: Public Works
   - Estimated Cost: $4,500,000
   - Expected Outcome: Reduce flooding damage in subdivisions
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
   - Priority: High
5. **Northwest Regional Stormwater Detention Pond**
   - Hazard(s): Flooding
   - Project Type: Infrastructure
   - Lead Agency: Public Works
   - Estimated Cost: $2,000,000
   - Expected Outcome: Temporarily hold stormwater; reduce flooding
   - STAPLEE: S=4, T=4, A=4, P=5, L=5, E=5, E=5 — Total: 32
   - Priority: High

6. **Transportation System Stormwater Drainage Improvements**
   - Hazard(s): Flooding
   - Project Type: Infrastructure
   - Lead Agency: Public Works
   - Estimated Cost: $10,000,000,000
   - Expected Outcome: Reduce flooding along major streets/intersections
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=4, E=5 — Total: 34
   - Priority: High
7. **Stormwater Drainage Channel Improvements (Citywide)**
   - Hazard(s): Flooding
   - Project Type: Structure & Infrastructure
   - Lead Agency: Public Works
   - Estimated Cost: $3,000,000
   - Expected Outcome: Reduce flood hazards to city infrastructure and properties
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
   - Priority: High
8. **Joint Training Center for Public Works and Other Departments**
   - Hazard(s): All Hazards
   - Project Type: Structural
   - Lead Agencies: Public Works, Fire Department
   - Estimated Cost: $1,500,000
   - Expected Outcome: Enhance training for hazard recognition, prevention, response
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
   - Priority: High
9. **Emergency Telephone Notification System**
   - Hazard(s): Dam Failure, Flooding, Tornado, Wildfire
   - Project Type: Education & Awareness
   - Lead Agency: Emergency Management
   - Estimated Cost: $8,500/year
   - Expected Outcome: Mass notifications to targeted phones for hazard warnings
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
   - Priority: High
10. **Install Lightning Warning Systems at Parks and Golf Course**
    - Hazard(s): Severe Thunderstorm, Tornado, High Winds
    - Project Type: Education & Awareness
    - Lead Agency: Recreation and Culture
    - Estimated Cost: $300,000
    - Expected Outcome: Minimize injuries/fatalities from lightning
    - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
    - Priority: High
11. **Incorporate Xeriscaping and Natural Wetlands in Stormwater Mitigation**
    - Hazard(s): Flooding, Dam Failure
    - Project Type: Natural Systems Protection
    - Lead Agency: Public Works
    - Estimated Cost: Dependent on project
    - Expected Outcome: Reduce risk; protect natural resources
    - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
    - Priority: High

12. **Mobile Command/Communication Vehicle**
    - Hazard(s): Dam Failure, Earthquake, Flooding, Landslide, Tornado, Wildfire, Winter Storm
    - Project Type: Structure & Infrastructure
    - Lead Agency: Emergency Management
    - Estimated Cost: $500,000
    - Expected Outcome: Provide emergency command/communication at hazard sites
    - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
    - Priority: Medium
13. **Enforce Mowing Ordinance to Create Fire Breaks**
    - Hazard(s): Wildfire
    - Project Type: Natural Systems Protection
    - Lead Agency: Code Enforcement
    - Estimated Cost: $250,000
    - Expected Outcome: Fire-resistant breaks reduce wildfire spread
    - STAPLEE: S=3, T=4, A=5, P=3, L=5, E=3, E=5 — Total: 28
    - Priority: Medium
14. **Lightning Protection Systems for City Facilities**
    - Hazard(s): Severe Thunderstorm
    - Project Type: Structure & Infrastructure
    - Lead Agency: Public Works
    - Estimated Cost: $15,000 per building
    - Expected Outcome: Protect buildings and electrical equipment
    - STAPLEE: S=5, T=5, A=4, P=4, L=5, E=5, E=5 — Total: 33
    - Priority: Medium
15. **Harden/Bury Electrical Infrastructure**
    - Hazard(s): Earthquake, Extreme Cold/Heat, Tornado, Winter Storm, Wildfire
    - Project Type: Structure & Infrastructure
    - Lead Agencies: Public Works, Electric Companies
    - Estimated Cost: $10,000,000
    - Expected Outcome: Minimize outages and recovery time
    - STAPLEE: S=5, T=5, A=4, P=3, L=2, E=5, E=5 — Total: 29
    - Priority: Medium
16. **Individual Safe Room Rebate Program**
    - Hazard(s): Tornado, Severe Thunderstorm
    - Project Type: Structure & Infrastructure
    - Lead Agency: Emergency Management
    - Estimated Cost: $2,000 per shelter
    - Expected Outcome: Increase residential safe rooms, reduce injuries/fatalities
    - STAPLEE: S=5, T=4, A=4, P=4, L=4, E=4, E=4 — Total: 29
    - Priority: Medium
17. **Update and Implement Wildfire Mitigation Program**
    - Hazard(s): Wildfire
    - Project Type: Education & Awareness
    - Lead Agencies: Fire Department, Strong Neighborhoods
    - Estimated Cost: $300,000
    - Expected Outcome: Reduce wildfire risk in wildland/urban interface
    - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
    - Priority: Medium

18. **Develop Neighborhood CERTs**
    - Hazard(s): All Hazards
    - Project Type: Education & Awareness
    - Lead Agencies: Emergency Management, Strong Neighborhoods
    - Estimated Cost: $300,000
    - Expected Outcome: Improved neighborhood disaster response and awareness
    - STAPLEE: S=4, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 34
    - Priority: Medium
19. **Repetitive Flood Loss Study**
    - Hazard(s): Flooding
    - Project Type: Local Plans and Regulations
    - Lead Agency: Public Works
    - Estimated Cost: $150,000
    - Expected Outcome: Targeted mitigation in flood-prone areas
    - STAPLEE: S=4, T=5, A=4, P=4, L=5, E=4, E=5 — Total: 30
    - Priority: Medium
20. **NFIP Outreach Campaign**
    - Hazard(s): Flooding
    - Project Type: Education & Awareness
    - Lead Agency: Public Works
    - Estimated Cost: $100,000
    - Expected Outcome: Increase flood insurance participation
    - STAPLEE: S=4, T=5, A=5, P=4, L=5, E=4, E=4 — Total: 30
    - Priority: Medium
21. **Property Acquisition in Floodplain**
    - Hazard(s): Flooding
    - Project Type: Natural Systems Protection
    - Lead Agency: Public Works
    - Estimated Cost: $1,000,000
    - Expected Outcome: Convert flood-prone areas to open space
    - STAPLEE: S=3, T=4, A=3, P=3, L=3, E=2, E=4 — Total: 22
    - Priority: Medium
22. **Vegetation Management to Control Invasive Species**
    - Hazard(s): Wildfire, Drought
    - Project Type: Natural Systems Protection
    - Lead Agencies: Fire Department, Public Works
    - Estimated Cost: $250,000
    - Expected Outcome: Reduce invasive species, conserve water, reduce wildfire fuel
    - STAPLEE: S=4, T=3, A=3, P=3, L=4, E=3, E=5 — Total: 25
    - Priority: Medium
23. **Upgrade City Cyber Capabilities**
    - Hazard(s): All Hazards
    - Project Type: Structure & Infrastructure
    - Lead Agency: Information Technology
    - Estimated Cost: $10,000,000
    - Expected Outcome: Harden IT systems; improve operational resilience
    - STAPLEE: S=5, T=5, A=4, P=5, L=5, E=4, E=5 — Total: 33
    - Priority: Medium

24. **Install Mesh Netting to Prevent Landslides**
    - Hazard(s): Landslide
    - Project Type: Natural Systems Protection
    - Lead Agency: Public Works
    - Estimated Cost: $10,000,000
    - Expected Outcome: Prevent landslides blocking roads
    - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
    - Priority: Medium
25. **Construct Fire Station Near Stone Canyon Addition**
    - Hazard(s): Wildfire
    - Project Type: Structure & Infrastructure
    - Lead Agency: Fire Department
    - Estimated Cost: $4,000,000
    - Expected Outcome: Improved emergency response
    - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5 — Total: 35
    - Priority: Medium
26. **Install Water Saving Fixtures in City Facilities**
    - Hazard(s): Drought
    - Project Type: Structure & Infrastructure
    - Lead Agency: Building Operations
    - Estimated Cost: $50-$500 per fixture
    - Expected Outcome: Reduce water usage
    - STAPLEE: S=3, T=4, A=5, P=5, L=5, E=4, E=5 — **Total: 31**
    - Priority: Low
27. **Install Energy Efficient Windows**
    - Hazard(s): Extreme Cold, Extreme Heat, Winter Storm
    - Project Type: Structure & Infrastructure
    - Lead Agency: Public Works
    - Estimated Cost: $5,000 per window
    - Expected Outcome: Improve building energy efficiency
    - STAPLEE: S=3, T=4, A=5, P=5, L=5, E=4, E=5 — Total: 31
    - Priority: Low
28. **Install Laminated Impact-Resistant Windows**
    - Hazard(s): Severe Thunderstorm, Tornado, Severe Winds
    - Project Type: Structure & Infrastructure
    - Lead Agency: Public Works
    - Estimated Cost: $5,000 per window
    - Expected Outcome: Reduce window breakage and injury
    - STAPLEE: S=3, T=4, A=5, P=5, L=5, E=4, E=5 — Total: 31
    - Priority: Low

Owasso Public Schools Action Plans:

1. Safe Rooms
    - Hazards: Tornado, Severe Wind, Severe Thunderstorms
    - Type: Structure & Infrastructure
    - Lead: Owasso Public Schools
    - Cost: $200,000,000

- Funding: General Fund, Bond Issue, Hazard Mitigation Grants
- Work Product: Construct safe rooms meeting ICC500 and FEMA 361 standards for faculty, staff, students
- Expected Outcome: Adequate shelter capacity for all on-site personnel
- STAPLEE: S=5, T=5, A=4, P=5, L=5, E=4, E=5
- STAPLEE Total: 33
- Priority: High

2. Communications System
   - Hazards: Dam Failure, Earthquake, Flooding, Severe Thunderstorm, Tornado, Wildfire
   - Type: Structure & Infrastructure
   - Lead: Owasso Public Schools
   - Cost: $300,000
   - Funding: General Fund, Bond Issue, Hazard Mitigation Grants
   - Work Product: Implement and expand district-wide mass notification system
   - Expected Outcome: Simultaneous hazard warnings across all sites
   - STAPLEE: S=4, T=5, A=4, P=5, L=5, E=4, E=5
   - STAPLEE Total: 32
   - Priority: High
3. Expansive Soils Construction Assessment
   - Hazard: Expansive Soils
   - Type: Local Plans and Regulations
   - Lead: Owasso Public Schools
   - Cost: $50,000
   - Funding: General Fund, Building Fund, Bond Issue
   - Work Product: Soil assessment and foundation design for new/repair construction
   - Expected Outcome: Reduced damage from soil-related hazards
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5
   - STAPLEE Total: 35
   - Priority: High
4. Xeriscaping Projects
   - Hazard: Drought
   - Type: Structure & Infrastructure
   - Lead: Owasso Public Schools
   - Cost: $150,000
   - Funding: General Fund, Building Fund
   - Work Product: Install drought-resistant ground cover/natural solutions
   - Expected Outcome: Reduced drought damage to grounds
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5
   - STAPLEE Total: 35
   - Priority: High
5. Hail Guards on HVAC Systems
   - Hazard: Severe Thunderstorm
   - Type: Structure & Infrastructure
   - Lead: Owasso Public Schools
   - Cost: $2,000,000
   - Funding: General Fund, Building Fund, Hazard Mitigation Grants
   - Work Product: Install hail guards to protect HVAC systems
   - Expected Outcome: Reduced repair costs and maintained critical services
   - STAPLEE: S=4, T=5, A=3, P=4, L=5, E=4, E=5

- STAPLEE Total: 30
- Priority: High

6. Emergency Power Back-up Systems
   - Hazards: Earthquake, Extreme Cold/Heat, Severe Thunderstorm, Tornado, Winter Storm
   - Type: Structure & Infrastructure
   - Lead: Owasso Public Schools
   - Cost: $2,500,000
   - Funding: General Fund, Building Fund, Hazard Mitigation Grants
   - Work Product: Install generators and backup power at key sites
   - Expected Outcome: Continuous operation during power outages
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=5, E=5
   - STAPLEE Total: 35
   - Priority: High
7. All Media Program to Educate About Hazard Mitigation
   - Hazards: Earthquake, Extreme Cold/Heat, Drought, Flooding, Landslide, Severe Thunderstorm, Tornado, Wildfire, Winter Storm
   - Type: Education & Awareness
   - Lead: Owasso Public Schools
   - Cost: $400,000
   - Funding: General Fund, Hazard Mitigation Grants, Private Underwriting
   - Work Product: Develop and distribute hazard mitigation information
   - Expected Outcome: Increased awareness and risk reduction actions
   - STAPLEE: S=5, T=4, A=4, P=5, L=5, E=4, E=5
   - STAPLEE Total: 32
   - Priority: High
8. Maintain and Develop Teen Community Emergency Response Team (CERT)
   - Hazard: All Hazards
   - Type: Education & Awareness
   - Lead: Owasso Public Schools
   - Cost: $50,000
   - Funding: General Fund, State & Federal Grants, Private Underwriting
   - Work Product: Recruit/train Teen CERT; disaster exercises
   - Expected Outcome: Enhanced preparedness and mitigation
   - STAPLEE: S=5, T=5, A=4, P=4, L=4, E=5, E=4
   - STAPLEE Total: 31
   - Priority: High
9. Roofing Replacement and Upgrade
   - Hazards: Extreme Cold/Heat, Severe Thunderstorm, Winter Storm
   - Type: Structure & Infrastructure
   - Lead: Owasso Public Schools
   - Cost: $49,500,000
   - Funding: General Fund, Building Fund, Bond Issue, BRIC
   - Work Product: Replace roofs with advanced materials for durability
   - Expected Outcome: Better hazard protection, lower maintenance costs
   - STAPLEE: S=5, T=5, A=5, P=5, L=5, E=4, E=5
   - STAPLEE Total: 34
   - Priority: High

10. Upgrade School Information Technology Capabilities
    - Hazard: All Hazards
    - Type: Structure & Infrastructure
    - Lead: Owasso Public Schools
    - Cost: $10,000,000
    - Funding: General Fund, Capital Bond Funds, Hazard Mitigation Grants
    - Work Product: Harden and expand IT infrastructure
    - Expected Outcome: Ensure continuity during/after disasters
    - STAPLEE: S=5, T=5, A=4, P=4, L=5, E=4, E=4
    - STAPLEE Total: 31
    - Priority: High
11. Protective Walkways Between Buildings
    - Hazards: Severe Thunderstorms, Winter Storms, Extreme Heat
    - Type: Structure & Infrastructure
    - Lead: Owasso Public Schools
    - Cost: $20,000,000
    - Funding: General Fund, Bond Issue, Hazard Mitigation Grants
    - Work Product: Install covered walkways on campuses
    - Expected Outcome: Protect pedestrians from weather elements
    - STAPLEE: S=5, T=5, A=4, P=5, L=5, E=4, E=5
    - STAPLEE Total: 33
    - Priority: Medium
12. Water Saving Features
    - Hazard: Drought
    - Type: Structure & Infrastructure
    - Lead: Owasso Public Schools
    - Cost: $100,000
    - Funding: General Fund
    - Work Product: Install water-saving fixtures
    - Expected Outcome: Reduced water use, especially in drought
    - STAPLEE: S=3, T=4, A=3, P=5, L=5, E=4, E=5
    - STAPLEE Total: 29
    - Priority: Low
13. Energy Efficient Windows
    - Hazards: Extreme Cold, Extreme Heat
    - Type: Structure & Infrastructure
    - Lead: Owasso Public Schools
    - Cost: $5,000,000
    - Funding: General Fund, Building Funds, Hazard Mitigation Grants
    - Work Product: Install energy-efficient windows
    - Expected Outcome: Improved energy efficiency, cost savings
    - STAPLEE: S=3, T=4, A=3, P=5, L=5, E=4, E=5
    - STAPLEE Total: 29
    - Priority: Low

City of Owasso – Integration Steps

For each mitigation action, the City will:

1. **GrOwasso 2035 Comprehensive Plan**
    - Reference hazard mitigation goals (flood resilience, safe growth) in land use, infrastructure, and public safety elements.
    - Integrate actions like safe room development, drainage upgrades, and WUI codes into relevant chapters.
2. **Capital Improvement Program (CIP)**
    - Program funding for stormwater, transportation, and safe room projects within the CIP budget cycle.
    - Prioritize projects that reduce repetitive loss (RL/SRL) exposure.
3. **Zoning / Subdivision Ordinances**
    - Amend subdivision standards to require drainage easements, minimum finished floor elevations, and wildfire defensible space in WUI areas.
    - Strengthen zoning overlays in SFHAs to restrict inappropriate development.
4. **Transportation Plan**
    - Coordinate with Public Works and Streets Dept. to ensure evacuation routes, snow emergency routes, and hazardous materials corridors are prioritized.
    - Include safe room access in transportation connectivity planning.
5. **Drainage / Stormwater Master Plan**
    - Incorporate identified drainage upgrades into the long-range plan.
    - Use mitigation project list to update stormwater capital projects on a 5-year cycle.

Process:

- Emergency Management and Planning Dept. will review the Mitigation Plan annually against updates to GrOwasso 2035, CIP, and ordinances.
- Recommendations will be forwarded to City Council during the budget adoption and ordinance revision process.

Owasso Public Schools – Integration Steps

For each school-focused mitigation action, the District will:

1. **District Facility Master Plan**
    - Integrate FEMA-rated safe rooms, utility elevation, shade structures, and seismic/non-structural safety upgrades into capital planning.
2. **Capital Improvement Program (Bond-funded CIP)**
    - Program safe room construction, window retrofits, and playground shade projects into bond issue cycles.
    - Align school CIP with City CIP for shared infrastructure (e.g., drainage, road access).
3. **School Safety / Emergency Operations Plan (EOP)**
    - Update annually to incorporate hazard-specific protocols (flood shelter, hazmat shelter-in-place, earthquake drills, winter storm closures).
    - Align EOP with City Emergency Operations Plan for consistency.
4. **Transportation Plan (District)**
    - Coordinate with City for snow/ice removal on critical bus routes.
    - Integrate hazard-safe pickup/drop-off procedures for flood and severe storm events.
5. **Drainage & Site Design Standards**
    - Require drainage and flood protection measures in all new school site development.
    - Incorporate defensible space and landscaping standards to reduce wildfire exposure.

Process:

- District Facilities Director and Safety Coordinator will review mitigation actions each school year and incorporate them into facility planning and bond proposals.
- Progress will be reported to the School Board and coordinated with the City's Emergency Management Office.

City of Owasso – Prior Mitigation Actions (Status & Integration)

Action (from previous plan)	Status	Integration / Notes
Acquire/elevate repetitive loss (RL) homes	Ongoing	Incorporated into CIP drainage projects; two homes acquired using FEMA HMGP.
Update stormwater/drainage infrastructure	Ongoing	Prioritized in Drainage Master Plan; Elm Street basin upgrade added to CIP FY2023–2025.
Construct community safe rooms	Complete	New safe room at Community Center integrated into GrOwasso 2035 public facilities element.
Retrofit municipal facility roofs to ICC 500	Ongoing	Incorporated into City facilities maintenance program; Police HQ reroof completed.
Adopt WUI standards for subdivisions	Removed	Not advanced; reconsidered during zoning code update, but deferred.
Expand snow/ice response capacity	Complete	Streets Dept. added 2 snowplows; change reflected in Transportation Plan update (2022).
Promote seismic retrofits of older buildings	Ongoing	Education campaign continues; referenced in Building Code updates (2021 IBC adoption).
Establish cooling centers with backup power	Ongoing	Integrated into Emergency Management Annex; Community Center now designated site.
Hazmat response training & signage	Complete	Added evacuation route signage on US-169 corridors; training institutionalized in Fire Dept. annual training calendar.

Owasso Public Schools – Prior Mitigation Actions (Status & Integration)

Action (from previous plan)	Status	Integration / Notes
Construct FEMA-rated safe rooms at campuses	Ongoing	Added to Facilities Master Plan and Bond-funded CIP; new safe rooms at [Campuses A & B].
Retrofit glazing/roof systems for wind resistance	Ongoing	Integrated into District Facilities Maintenance Plan; [X] campuses complete.
Elevate utilities at flood-prone campuses	Complete	Integrated into drainage/site upgrades during 2020 bond projects.
Create defensible space at WUI-adjacent schools	Ongoing	Coordinated with Owasso Fire Department; landscaping standards revised.
Add backup power at critical campuses	Ongoing	Integrated into Facilities Master Plan; [#] generators installed in 2021.
Anchor non-structural items in classrooms	Complete	Incorporated into District safety protocols and annual inspections.

Action (from previous plan)	Status	Integration / Notes
Install shade structures / revise heat policies	**Ongoing**	Shade structures added via **bond CIP**; policy incorporated into **Athletics Dept. safety manual**.
Enhance hazmat shelter-in-place supplies	**Complete**	Incorporated into **District EOP**; funded by OEM Safety Grant.

4.5 Integration of Mitigation Actions into Local Planning Mechanisms

To ensure that mitigation actions identified in this plan are not standalone but instead woven into the City's and OPS's daily decision-making, Owasso will use the following processes:

City of Owasso

1. **Comprehensive Plan**
   - The Planning Department will review all adopted mitigation actions annually and cross-reference them against the Comprehensive Plan's land use, transportation, housing, and community facilities elements.
   - Mitigation actions related to growth management (e.g., limiting development in the Special Flood Hazard Area, adopting seismic standards, or promoting defensible space in WUI areas) will be integrated into the land use and infrastructure chapters during scheduled updates.
   - The Planning Commission will be briefed annually to ensure alignment of hazard mitigation priorities with long-range growth decisions.
2. **Capital Improvement Program (CIP)**
   - Public Works and Finance staff will incorporate high-priority mitigation projects—such as safe rooms, drainage improvements, or backup power for critical facilities—into the City's five-year CIP during the annual budget cycle.
   - Mitigation actions identified in this plan will be reviewed alongside other capital requests to ensure funding opportunities (local, state, FEMA grants) are leveraged.
   - Projects with high benefit-cost ratios (e.g., repetitive loss property buyouts, safe room construction) will be given higher priority during CIP ranking.
3. **Zoning and Development Regulations**
   - The City's Flood Damage Prevention Ordinance and Unified Development Code will continue to be updated to reflect floodplain management standards, SI/SD requirements, and wildfire/defensible space provisions.
   - Zoning overlays may be used to limit density in high-risk hazard areas.
   - Site plan and subdivision reviews will incorporate hazard mitigation considerations, such as drainage, access in floodplains, and open space preservation in flood-prone or wildfire interface areas.

Owasso Public Schools (OPS)

1. **District Facility Master Plan**
   - OPS will integrate hazard mitigation actions (safe room construction, seismic retrofits, energy resilience, and firebreak maintenance) into the long-range facility master plan.
   - Each new school construction or major renovation project will be reviewed against the hazard mitigation plan to ensure protective features (e.g., FEMA-rated safe rooms, emergency power, drainage controls) are included in design standards.
2. **Annual Capital Planning / Bond Proposals**

- When developing bond proposals or capital improvement packages, OPS will align project lists with mitigation actions identified in this plan.
- The District's operations and maintenance staff will prioritize hazard-related upgrades (generators, shade structures, hardened shelter areas) in budget requests.

3. **Emergency Operations & Continuity of Operations Planning**
   - OPS Emergency Management and Safety staff will integrate mitigation actions into the District's EOP and continuity plans, ensuring that hazard vulnerabilities identified here translate into operational procedures (e.g., designated sheltering, alternate transport routes during floods, backup power for essential campuses).

Ongoing Coordination

- The City's Emergency Management will convene an annual joint meeting with Planning, Public Works, Finance, and OPS Facilities staff to review mitigation progress, update project status, and identify opportunities for integration into the Comprehensive Plan, CIP, zoning code, or OPS planning cycle.
- Documentation of these efforts will be included in plan maintenance reports and shared with decision-makers (City Council and School Board) to ensure policy alignment.



Chapter 5:
Mitigation Capabilities

5.1 Capabilities for Hazard Mitigation

Every community possesses a distinct set of capabilities—including legal authorities, policies, programs, staff expertise, and funding mechanisms—that support the implementation of hazard mitigation efforts and reduce long-term vulnerability. The Owasso Hazard Mitigation planning team assessed these existing capabilities to identify resources that currently help reduce disaster losses and those that could be leveraged more effectively in the future to minimize risks.

5.1.1 Comprehensive Plan

The City of Owasso maintains a comprehensive plan that outlines the community's overall vision and long-term goals. This guiding document addresses future demographics, land use, transportation, infrastructure, and community development strategies. By integrating hazard mitigation policies and objectives into the comprehensive plan, Owasso strengthens its legal and practical framework for implementing risk reduction initiatives. This integration helps ensure that new growth and redevelopment projects adhere to mitigation principles, thereby reducing exposure and vulnerability to hazards over time.

5.1.2 Capital Improvement Plan

The city's Capital Improvement Plan (CIP) schedules and prioritizes investments in public infrastructure projects such as roads, utilities, libraries, and emergency services facilities. The CIP is a crucial tool for directing public funding and managing development, particularly in hazard-prone areas. By coordinating capital expenditures with hazard mitigation priorities, the city can limit public investment in vulnerable locations and focus improvements in safer areas or enhance infrastructure resilience where necessary.

5.1.3 Economic Development Plan

Owasso's Economic Development Plan provides a broad overview of the local and regional economy, establishing policies and strategies to encourage sustainable growth. Importantly, this plan can be aligned with hazard mitigation goals by promoting economic development in areas less susceptible to natural hazards. This targeted approach helps reduce the potential economic impact of disasters by steering investment and new development away from high-risk zones.

5.1.4 Emergency Operations Plan

The City's Emergency Operations Plan (EOP) is a critical component in preparing for, responding to, and recovering from emergencies. The EOP clearly delineates roles, responsibilities, and resource deployment strategies to minimize the adverse effects of hazard events. Owasso supports community safety with an outdoor warning system consisting of 17 fixed sirens and mass notification services accessible to residents via opt-in alerts.

Owasso Public Schools maintain a comprehensive Emergency Operations Plan as well, which complies with the Chase Morris Sudden Cardiac Arrest Prevention Act by establishing cardiac emergency response teams and conducting regular training in CPR and AED use. The schools conduct frequent emergency drills aligned with state regulations and subscribe to Perry Weather® services for lightning and severe weather alerts to ensure timely responses.

5.1.5 Building and Construction Codes

Building codes are critical for hazard mitigation as they establish minimum standards for construction that reflect the specific hazards faced by a community. Owasso enforces several up-to-date codes to ensure new and renovated structures meet safety and resilience standards:

- International Building Code, 2015 Edition
- International Plumbing Code, 2015 Edition
- International Mechanical Code, 2015 Edition
- National Electric Code, 2014 Edition
- International Fire Code, 2015 Edition
- International Residential Building Code for One-and Two-Family Dwellings, 2009 Edition

Structures built under these codes are designed to withstand hazards such as strong winds, floods, and seismic activity, significantly reducing potential damage.

5.1.6 Zoning Ordinances

Zoning ordinances serve as an effective mitigation tool by regulating land use and development density in hazard-prone areas. By restricting or guiding development patterns, zoning can limit exposure to hazards while balancing private property rights. The State of Oklahoma encourages incorporating hazard mitigation standards into local zoning codes, and Owasso's zoning code and land use policies are detailed further in Section 1-11 of this plan.

5.1.7 National Flood Insurance Program Participation

Owasso has been a participant in the National Flood Insurance Program (NFIP) since 1987. The city enforces Flood Damage Prevention Resolution Number 367, which requires new developments to be constructed at least one foot above the 100-year base flood elevation. Continued enforcement of this resolution helps reduce flood risk and protects residents by ensuring that properties adhere to flood-resistant construction standards. Public education efforts also promote awareness and participation in the NFIP.

5.1.8 Administrative and Technical Capabilities

The city and school district maintain staff with various technical and administrative skills critical for hazard mitigation. Below is a summary of these capabilities:

Capability	City of Owasso	Owasso Public Schools
Planners/Engineers with knowledge of land development	✓	
Engineers trained in construction/building/fire practices	Contract Only	Contract Only
Planners/Engineers with hazard knowledge	✓	

Capability	City of Owasso	Owasso Public Schools
Floodplain Manager	✓	
Surveyors	Contract Only	Contract Only
Staff with vulnerability assessment expertise	✓	✓
GIS/HAZUS Specialists	✓	
Scientists familiar with local hazards	Contract Only	
Emergency Manager	✓	
Grant Writers	(not indicated)	

These personnel are vital in assessing risks, planning mitigation, managing development, and securing funding.

Specialized Roles:

- **Floodplain Management:**
  The City of Owasso actively enforces floodplain management regulations under the National Flood Insurance Program and the Oklahoma Floodplain Management Act. These regulations control development in flood-prone areas to reduce flood damage and financial losses, including enforcement of permits, variances, and penalties for non-compliance. The city employs accredited floodplain administrators trained by the Oklahoma Water Resources Board to maintain effective local floodplain oversight.
- **Surveyors:**
  Surveyors provide essential land measurement and mapping services that inform development and mitigation planning. Their detailed surveys establish property boundaries, assess terrain and drainage, and support legal compliance and construction accuracy, helping reduce hazard exposure through informed site development.
- **GIS and HAZUS Specialists:**
  Geographic Information Systems (GIS) and HAZUS modeling support hazard risk assessment by providing spatial data analysis and loss estimation. These tools enable the city to visualize hazard zones, plan mitigation projects, and prioritize resources based on data-driven insights.
- **Emergency Manager:**
  The Emergency Manager oversees all phases of emergency management, including preparedness, response, recovery, and mitigation. This role is essential for coordinating community-wide disaster efforts, managing training and exercises, and raising public awareness.

5.2 Funding Capabilities

Effective hazard mitigation depends heavily on available funding. Owasso leverages a diverse array of funding sources at local, regional, state, and federal levels to implement mitigation actions.

Funding Source	City of Owasso	Owasso Public Schools
Capital Improvement Project Funding	✓	✓
Sales Tax	✓	
Property Tax		✓
Water/Sewer Fees	✓	

Funding Source	City of Owasso	Owasso Public Schools
Development Fees	✓	
General Obligation Debt & Tax Bonds	✓	
Community Development Block Grants (CDBG)	✓	✓
Federal Funding Programs	✓	✓
State Funding Programs	✓	✓

Descriptions of Key Funding Sources:

- **Capital Improvement Project Funding:**
  The City of Owasso has a dedicated sales tax (a "third cent" tax) that funds capital projects. This revenue is allocated through a formal review and approval process involving the Capital Improvements Committee and City Council, with public oversight via a Citizens' Watchdog Committee. These funds support infrastructure improvements that align with hazard mitigation goals.
- **Sales Tax:**
  Sales tax revenue supplements funding for mitigation projects, providing essential local matching funds to access state and federal grants. Its availability is subject to economic conditions but remains a critical funding pillar.
- **Property Tax:**
  Owasso Public Schools primarily use property tax revenues and bond issuance to finance disaster preparedness and mitigation efforts, including infrastructure upgrades and emergency equipment.
- **Water and Sewer Fees:**
  The Owasso Public Works Authority operates water and sewer systems funded largely through user fees. These fees support the construction, maintenance, and extension of utility infrastructure, which can be designed or upgraded to reduce hazard vulnerabilities.
- **Development Fees:**
  Fees collected from new development offset the costs of expanding public services and infrastructure, encouraging safer construction and planning practices.
- **Debt Financing (General Obligation Funds/Tax Bonds):**
  The City may issue bonds or allocate general funds to finance large-scale mitigation projects, leveraging debt to address urgent infrastructure needs.
- **Community Development Block Grants (CDBG):**
  The CDBG program funds projects that improve living conditions, especially for low- to moderate-income populations. Mitigation projects meeting national objectives related to health and safety can qualify for this funding source.
- **Federal and State Grants:**
  Various federal and state programs provide grants specifically for hazard mitigation, emergency management, and resilience-building projects, which the city and schools actively pursue.

By integrating these capabilities—ranging from planning documents and technical expertise to diverse funding mechanisms—the City of Owasso and Owasso Public Schools maintain a robust foundation to implement hazard mitigation strategies and improve community resilience over the coming years.

5.3 Federal Emergency Management Agency (FEMA) Grants

Emergency Management Performance Grants (EMPG)

- Provides federal funds to assist state, local, tribal, and territorial emergency management agencies in preparing for all hazards.
- Supports the National Preparedness Goal by funding planning, training, and resource coordination efforts.

Flood Mitigation Assistance Program (FMA)

- Funds projects that reduce or eliminate flood risks to properties insured under the National Flood Insurance Program (NFIP).
- Supports planning and mitigation activities aimed at long-term flood loss reduction.

Hazard Mitigation Grant Program (HMGP)

- Activated following a Presidential Major Disaster Declaration.
- Provides funding for mitigation projects that reduce risk to life and property from future disasters.

Building Resilient Infrastructure and Communities (BRIC)

- Replaces the Pre-Disaster Mitigation (PDM) Program.
- Supports states, tribes, and local communities with pre-disaster mitigation funding focused on long-term risk reduction and community resilience.

High Hazard Dam Potential Grant Program

- Provides assistance for planning, design, and construction to rehabilitate high hazard potential dams.

Public Assistance Program (406 Funding)

- Offers grants for disaster response and recovery, including debris removal, emergency protective measures, and repair of damaged public facilities.
- Encourages hazard mitigation measures during recovery.

National Dam Safety Program

- Promotes effective dam safety programs at the state and federal level to reduce risk to life and property.

Community Assistance Program – State Support Services Element (CAP-SSSE)

- Provides technical assistance and funding to states to support NFIP community floodplain management before flood events occur.

5.3.1 U.S. Department of Housing and Urban Development (HUD)

Community Development Block Grant – Mitigation (CDBG-MIT)

- Funds strategic, high-impact disaster mitigation activities in areas impacted by recent disasters, focusing on reducing future risks and losses.

Community Development Block Grant – Disaster Recovery (CDBG-DR)

- Supports long-term recovery in housing, infrastructure, and economic development in Presidentially declared disaster areas, with mitigation often included as a component.

5.3.2 U.S. Department of Agriculture (USDA) Programs

Conservation Reserve Program (CRP)

- Encourages agricultural landowners to convert marginal farmland to vegetative cover, reducing erosion and downstream flooding while restoring wetlands.

Conservation Stewardship Program (CSP)

- Provides payments to producers for conservation practices that reduce runoff, erosion, and flooding.

Emergency Watershed Protection Program (EWP)

- Provides technical and financial assistance for immediate post-disaster watershed recovery and flood mitigation, including debris removal, streambank stabilization, and levee repair.

Environmental Quality Incentives Program (EQIP)

- Supports agricultural producers with financial and technical assistance to implement conservation practices that improve water and soil quality and reduce disaster impacts.

Housing Preservation Grants (HPG)

- Funds rehabilitation and repair of low- and very low-income housing, including repairs to mitigate future hazard impacts.

USDA Disaster Assistance Programs

- Includes various programs such as emergency loans and forest restoration to assist agricultural producers in disaster recovery and resilience.

Water and Environmental Programs (WEP)

- Provides loans, grants, and technical assistance for rural water, sewer, solid waste, and storm drainage infrastructure projects that can support flood mitigation goals.

5.3.3 Economic Development Administration (EDA)

EDA Disaster Recovery and Supplemental Funding

- Supports long-term community economic recovery, redevelopment, and resilience planning through grants and technical assistance.

5.3.4 Environmental Protection Agency (EPA)

Brownfields Program Grants

- Funds assessment and cleanup of contaminated properties to prevent hazardous material spread during disasters.

Nonpoint Source Water Quality Grants (Section 319)

- Supports state and tribal programs addressing pollution control and water quality improvements that align with flood mitigation goals.

Smart Growth Support

- Provides research, technical assistance, and funding to promote sustainable community development, including resilient infrastructure and land preservation.

Wetlands Protection Program Development Grants

- Funds projects aimed at strengthening wetland protection, a key natural system mitigating flood impacts.

5.3.5 Department of Interior Programs

Disaster Recovery Grants (National Park Service)

- Provides funds for historic preservation recovery projects post-disaster, including mitigation steps to reduce future damage.

Housing Improvement Program (Bureau of Indian Affairs)

- Offers grants for home repair and renovation to low-income American Indian and Alaska Native families, including hazard mitigation improvements.

North American Wetland Conservation Fund

- Supports wetland conservation projects that protect natural flood buffers.

Tribal Resilience Program

- Funds tribal capacity building for climate adaptation, vulnerability assessments, and resilience planning.

WaterSMART Programs (Bureau of Reclamation)

- Provides grants and technical assistance for water supply modernization, drought planning, and watershed management.

5.3.6 Other Notable Programs

Five Star and Urban Waters Restoration Grant Program (National Fish and Wildlife Foundation)

- Supports community stewardship projects focused on water quality, habitat restoration, and stormwater pollution reduction.

Resilient Communities Program (National Fish and Wildlife Foundation)

- Focuses on ecosystem health, water resources, and inclusion of underserved populations in resilience efforts.

Emergency Relief Program (Federal Highway Administration)

- Offers funding for repair and reconstruction of federal highways damaged by disasters or catastrophic failures.

Climate Adaptation Fund (Wildlife Conservation Society)

- Provides grants to conservation organizations to address climate change impacts on wildlife and communities.

These grants and programs offer a broad range of financial and technical support that the City of Owasso and Owasso Public Schools can leverage to advance hazard mitigation, disaster preparedness, recovery, and resilience efforts, addressing hazards ranging from flooding and severe weather to infrastructure vulnerabilities and environmental conservation.

5.3.7 Oklahoma Conservation Commission Programs

Locally Led Conservation Cost-Share Program

- Provides financial assistance to local landowners to stabilize soil erosion and improve water quality.
- Funds are allocated to conservation districts, which solicit and evaluate applications based on local priorities.
- These projects help reduce erosion and improve watershed health, which can mitigate flood impacts.

Priority Watershed Cost-Share Program

- Funds clean water projects targeting pollutant removal from water sources, especially from non-point sources such as runoff.
- Improving water quality often benefits flood and erosion control by enhancing natural watershed functions.

5.3.8 Oklahoma Department of Agriculture, Food, and Forestry

80/20 Reimbursement Grant

- Supports rural fire departments serving communities with fewer than 10,000 residents.

- Provides reimbursement of 80% of project costs, helping fire departments with equipment, training, and outreach efforts.
- Encourages education and land management practices to prevent wildfire hazards.

Community Wildfire Preparedness Planning Grant (Administered by Oklahoma Forestry Service)

- Offers assistance and funding for communities to develop wildfire protection plans.
- Helps communities gain recognition through the Firewise program, improving wildfire resilience through planning and community engagement.

5.3.9 Oklahoma Water Resources Board (OWRB)

Financial Assistance Programs

- Provides various grants to support community efforts in protecting Oklahoma's water resources.
- Eligible projects include brownfield remediation, urban stormwater management, and flood mitigation initiatives.
- Supports infrastructure and natural system projects that reduce flood risk and improve water quality.

5.3.10 Oklahoma Department of Wildlife Conservation

State Wildlife Grants

- Focuses on conserving rare or at-risk animal species and their habitats.
- While not directly hazard mitigation, these projects support ecosystem resilience to hazards like flooding, drought, and extreme heat.
- Offers opportunities for partnerships with local conservation organizations, which can enhance natural systems protection.

These state-funded programs provide important resources for communities like Owasso to address hazard mitigation, improve environmental quality, and build resilience against natural hazards through local partnerships, infrastructure improvements, and conservation efforts. Leveraging these programs in coordination with federal grants can significantly enhance the city's overall mitigation strategy.

5.4 Obstacles, Challenges, and Proposed Solutions Related to City Capabilities

The City of Owasso benefits from strong financial capabilities, demonstrated by its effective use of both local and external funding sources to support hazard mitigation projects. Local funding efforts include substantial investments in stormwater infrastructure, acquisition and conservation of open spaces, Community Risk Reduction (CRR) programs, and broader initiatives focused on emergency preparedness and community resilience. These funds are drawn from multiple local sources such as the General Fund, the Capital Improvements Plan, and various grant programs.

In addition, the City has demonstrated a consistent ability to combine local funds with external grants from federal and state programs dedicated to hazard resilience. This combined approach has facilitated the implementation of numerous risk reduction and mitigation projects. However, while individual City departments have been successful in securing grants within their own operational areas, the creation of a dedicated, full-time grant writer or grant administrator

position would greatly enhance the City's overall capacity. This role would focus on cross-department coordination and proactively pursuing larger-scale capital project funding opportunities, especially those aimed at hazard mitigation.

Despite these strengths, there remain opportunities to expand and improve the City's capabilities in hazard risk reduction. Several challenges and gaps have been identified, including:

- **Funding Constraints:** While the City can leverage some local funds, the availability of dedicated funding for large-scale mitigation projects is often limited. Many promising initiatives face delays or downscaling due to budgetary restrictions.
- **Coordination and Staffing:** The current lack of a centralized position for grant administration limits the City's ability to maximize funding opportunities and implement more complex, multi-departmental mitigation projects efficiently.
- **State-Level Funding Structures:** Changes in state funding mechanisms, especially related to public safety and hazard mitigation, could unlock additional financial resources for the City. Currently, some state-level funding policies limit the flexibility and scale at which local governments can invest in mitigation.

To address these obstacles, the following solutions are proposed:

1. **Establish a Full-Time Grant Administrator Role:** This position would focus on identifying, applying for, and managing hazard mitigation grants across all City departments, ensuring more strategic and comprehensive funding pursuits.
2. **Increase Local Budget Allocations for Mitigation:** By prioritizing hazard mitigation within the City's Capital Improvements Plan and General Fund, Owasso can ensure steady funding streams for ongoing and new projects.
3. **Advocate for State Funding Reforms:** Engage with state legislators and relevant agencies to promote policies that provide greater and more flexible funding to municipalities for public safety and hazard mitigation initiatives.
4. **Strengthen Interdepartmental Collaboration:** Facilitate better communication and coordination among City departments to integrate hazard mitigation goals into all planning, development, and emergency management activities.
5. **Pursue Public-Private Partnerships:** Explore opportunities to collaborate with local businesses, nonprofits, and community organizations to supplement funding and resources for mitigation and resilience-building efforts.

By implementing these solutions, the City of Owasso can overcome existing challenges and build upon its current capabilities to better protect the community from future natural hazard impacts while promoting long-term resilience and sustainability.

5.5 Capability Changes Since Previous Plan Approval

Experience from prior hazard events has shown that requiring citizens in medium to larger communities to travel to a centralized, distant location during severe weather exposes them to increased risk, essentially putting them in harm's way while trying to seek safety. Based on this understanding, the City of Owasso has revised its mitigation strategy concerning community saferooms. The previous approach, which focused on congregate public access saferooms, has been discontinued. Instead, the City has shifted to a targeted strategy of constructing saferooms exclusively within schools—specifically for staff, faculty, and students—where such facilities currently do not exist. These school saferooms will not be open to the general public.

In lieu of public congregate saferooms, the City now encourages the development and construction of individual private shelters and saferooms for residents. This approach allows individuals and families to seek immediate protection close to home during hazard events, reducing the risks associated with travel during emergencies.

The capability assessment evaluates the City of Owasso's existing tools, resources, policies, and organizational structures available to increase resilience to natural hazards. Its primary purpose is to identify areas where these capabilities can be strengthened or enhanced. This assessment, together with the risk assessment, forms the foundation for crafting a hazard mitigation strategy that is both actionable and effective.

A key part of the planning process involves assessing the feasibility of various goals and actions based on the organizational capacity of the agencies or departments charged with their implementation. The capability assessment helps pinpoint which mitigation actions are practical and achievable over time, considering Owasso's current authorities, policies, programs, staff expertise, and funding availability. Additionally, the assessment reveals critical gaps or limitations in capabilities that may need to be addressed to improve hazard risk reduction efforts. It also identifies the City's strengths and effective practices that should be maintained or expanded to bolster local mitigation.

This capability assessment was conducted not only to inform and establish realistic goals and actions for the City of Owasso's Hazard Mitigation Plan update but also to ensure these objectives align with existing local conditions and organizational capacity.

The updated Hazard Mitigation Plan includes a thorough evaluation of several key components supporting hazard mitigation efforts, such as current policies, programs, resources, and authorities. This comprehensive evaluation is summarized in the chart below, illustrating the City's present mitigation capabilities and highlighting areas for future growth and focus.

Increased Capabilities since Previous Plan Approval

Component	Description
Planning and Regulatory Capabilities	Local plans, policies, codes, and ordinances that help reduce the potential impacts of hazards.
Administrative and Technical Capabilities	Local human resources, expertise, and technical tools available to support mitigation activities.
Financial Capabilities	Fiscal resources accessible to the community for funding hazard mitigation projects.
Education and Outreach Capabilities	Local programs and communication methods that promote awareness and support for mitigation efforts.
NFIP Participation and Compliance	Summary of the community's participation in the National Flood Insurance Program and compliance with NFIP requirements.

Chapter 6:
Plan Review, Evaluation and Implementation

6.1 Method and Schedule for Monitoring, Evaluating, and Updating the Plan

To maintain the relevance, effectiveness, and alignment of the Hazard Mitigation Plan with the City of Owasso's changing needs and capabilities, a structured method and schedule for ongoing monitoring, evaluation, and updating has been established. This process is essential not only for ensuring that mitigation efforts remain on track but also for maintaining eligibility for federal mitigation funding and fostering continuous community resilience.

Monitoring

The Hazard Mitigation Planning Team, composed of representatives from key city departments and partner organizations, will conduct an annual review of the plan. This review will focus on:

- Tracking progress: Monitoring the status of mitigation action items to ensure they are advancing as intended.
- Assessing risk changes: Identifying any shifts in hazard risks or exposure resulting from new development, infrastructure projects, or environmental factors.
- Reviewing policy updates: Evaluating changes in policies, regulations, or guidance that may influence mitigation strategies.
- Gathering stakeholder input: Collecting feedback from city staff, regional partners, and community members to identify emerging issues, needs, or opportunities.

In addition to these tasks, the Planning Team will continuously monitor the plan's purpose and goals to confirm they remain relevant and effective. This will include:

- Evaluating effectiveness: Reviewing whether progress toward mitigation goals is measurable and producing the intended outcomes.
- Comparing against changing conditions: Assessing how new hazards, demographic shifts, land use changes, or economic factors may affect the continued relevance of the goals.
- Benchmarking with best practices: Incorporating lessons learned from recent disasters, new technologies, and evolving federal and state guidance.
- Engaging stakeholders: Soliciting input from city leadership, partner agencies, and the public to ensure the goals reflect community priorities.

Findings from both the annual review and continuous monitoring will be documented in the plan maintenance record and used to guide any needed revisions, keeping the plan purposeful, actionable, and aligned with the community's long-term resilience objectives.

Evaluation

Every two years, the Planning Team will carry out a comprehensive evaluation of the plan's effectiveness by:

- Assessing the outcomes of mitigation actions implemented since the last evaluation.

- Identifying barriers or challenges that may have impeded progress, such as funding gaps, staffing limitations, or unforeseen obstacles.
- Reviewing whether the plan's goals and objectives continue to address the most critical risks facing the community.
- Recommending modifications to improve the implementation and impact of mitigation strategies.

Plan Updating

The **City of Owasso Emergency Management Department** will serve as the lead entity responsible for coordinating the five-year update of this Hazard Mitigation Plan. Emergency Management will convene the Hazard Mitigation Planning Team at least 12 months prior to plan expiration to initiate the update process. The update will:

- Review progress on previously identified mitigation actions.
- Reassess risk and vulnerability using current data, development trends, and hazard events.
- Incorporate updates from the Comprehensive Plan, Capital Improvement Plan, and relevant school district and partner agency plans.
- Document how mitigation priorities and community capabilities have changed since the prior plan.

Emergency Management will ensure that required public outreach, agency coordination, and submission through the State Hazard Mitigation Officer to FEMA occur in accordance with federal guidance.

Coordination and Transparency

Throughout all stages of monitoring, evaluation, and updating, the City will emphasize collaboration with local departments, regional agencies, neighboring jurisdictions, and the public. This inclusive approach ensures that hazard mitigation efforts are comprehensive, coordinated, and responsive to the community's needs.

Plan Accessibility

To promote transparency and community engagement, copies of the Hazard Mitigation Plan will be available upon request. Additionally, the plan will be accessible on the City of Owasso's official website, allowing residents, stakeholders, and partners easy access to the plan and its updates.

This systematic approach will help the City of Owasso remain proactive in reducing hazard risks, enhancing public safety, and building a resilient community well into the future.

6.2 System for Tracking Mitigation Action Items and Plan Goals

An effective, well-structured system for tracking the progress of mitigation actions and the achievement of hazard mitigation plan goals is critical for ensuring accountability, maintaining transparency, and fostering continuous improvement. The City of Owasso will implement a **coordinated, multi-departmental tracking process** led by the Hazard Mitigation Planning Team. This system will document, monitor, and report on all mitigation activities from initiation through completion, while providing clear linkages to the City's overall resilience objectives.

6.2.1 Tracking System Components

1. Mitigation Action Tracker
A centralized, regularly updated database or spreadsheet will serve as the official repository for all mitigation actions identified in the plan. This tool will contain:

- **Action Title & Description** – Concise identification and explanation of the action.
- **Responsible Agency/Department** – The lead entity accountable for implementation.
- **Implementation Timeline** – Start and projected completion dates, with progress milestones.
- **Funding Sources** – Identified and secured funding streams, including local, state, and federal resources.
- **Status Updates** – Current stage of implementation (e.g., "planning," "in progress," "completed").
- **Modifications** – Any changes to scope, schedule, or funding since the last update.

This tracker will be maintained throughout the plan's lifecycle and reviewed by the Hazard Mitigation Planning Team at least annually to ensure accuracy and completeness.

2. Progress Reports
Each department or agency responsible for a mitigation action will submit periodic status updates, detailing:

- Milestones achieved during the reporting period.
- Challenges or barriers encountered, along with proposed solutions.
- Anticipated next steps and projected timelines.

These individual updates will be consolidated into an Annual Mitigation Progress Report, reviewed by the Hazard Mitigation Planning Team, and used to guide adjustments in priorities or strategies.

3. Performance Indicators (KPIs)
To objectively measure progress toward hazard mitigation goals, key performance indicators will be developed for each objective. KPIs may include:

- **Quantitative Metrics** – Number of actions completed, amount of funding secured, percentage of targeted infrastructure upgraded, or square footage of flood-prone areas protected.
- **Qualitative Outcomes** – Increased community awareness, adoption of risk-reducing policies, or enhanced coordination among departments.
- **Risk Reduction Indicators** – Measurable decreases in hazard vulnerability, such as reduced repetitive loss properties or lower floodplain development.

These KPIs will be reviewed alongside the mitigation tracker to ensure alignment between project-level progress and plan-level objectives.

4. Public Transparency and Engagement
To promote accountability and community involvement:

- **Annual Progress Summaries** will be made publicly available through the City of Owasso's official website.
- Updates may be included in public safety reports, City Council briefings, or community engagement sessions.
- Residents will be encouraged to provide feedback on mitigation efforts, helping identify new needs or confirm community support for existing initiatives.

5. Integration with Other Planning Processes
Mitigation tracking will be coordinated with other municipal planning and reporting systems, such as:

- **Capital Improvements Plan (CIP)** – Aligning infrastructure investments with hazard reduction priorities.
- **Emergency Operations Plan (EOP)** – Ensuring operational readiness aligns with long-term mitigation strategies.
- **Comprehensive Plan** – Integrating hazard resilience into land use, development, and sustainability policies.

This integration will promote multi-departmental collaboration and ensure that hazard mitigation is woven into broader city management processes.

6.2.3 Adaptive Management

The tracking system is designed to support adaptive management, allowing the Hazard Mitigation Planning Team to modify mitigation actions, timelines, or funding approaches in response to:

- New hazard data or risk assessments.
- Evolving community priorities.
- Emerging funding opportunities.
- Lessons learned from completed or ongoing projects.

This approach ensures that the City's mitigation strategy remains flexible, evidence-driven, and capable of responding to changing conditions over time.

6.2.4 Owasso Mitigation Actions 2025-2030

1. Construct safe rooms in all public schools without existing facilities

- **Category:** Structure & Infrastructure
- **Responsible Dept.:** OPS / Public Works
- **Timeline:** 2025–2027
- **Funding:** FEMA HMGP, State Safe Room Grant, Local Funds
- **Status:** Planning phase
- **STAPLEE Score:** 32 (S:4 / T:5 / A:4 / P:5 / L:5 / Ec:4 / Env:5)
- **KPI:** % of schools with FEMA-compliant safe rooms (Target: 100% by 2027)
- **Monitoring:** Annual facility report review, site inspections, updates to Mitigation Action Tracker

2. Promote private residential safe room installation through rebates & education

- **Category:** Education & Awareness
- **Responsible Dept.:** Emergency Management
- **Timeline:** 2025–2030
- **Funding:** OK Safe Room Rebate Program, Private Funds
- **Status:** In progress
- **STAPLEE Score:** 33 (S:5 / T:5 / A:3 / P:5 / L:5 / Ec:5 / Env:5)
- **KPI:** Annual % increase in rebate applications and completions (Target: +10% per year)
- **Monitoring:** Compile rebate data & homeowner surveys annually

3. Upgrade stormwater drainage in high-flood-risk neighborhoods

- **Category:** Structure & Infrastructure

- **Responsible Dept.:** Public Works
- **Timeline:** 2026–2030
- **Funding:** FEMA BRIC, CIP, General Fund
- **Status:** Not started
- **STAPLEE Score:** 30 (S:4 / T:5 / A:4 / P:4 / L:5 / Ec:3 / Env:5)
- **KPI:** % reduction in reported flood incidents (Target: 50% within 2 years post-completion)
- **Monitoring:** Compare pre/post-project flood reports annually

4. Expand outdoor warning siren network for full city coverage

- **Category:** Structure & Infrastructure
- **Responsible Dept.:** Emergency Management
- **Timeline:** 2025–2026
- **Funding:** Local Funds, DHS Grants
- **Status:** In progress
- **STAPLEE Score:** 33 (S:5 / T:5 / A:4 / P:5 / L:5 / Ec:4 / Env:5)
- **KPI:** % of population within audible siren range (Target: 100% by 2026)
- **Monitoring:** Annual coverage mapping & functional testing

5. Update floodplain regulations to reflect best practices and new FEMA maps

- **Category:** Local Plans & Regulations
- **Responsible Dept.:** Planning / Engineering
- **Timeline:** 2025–2027
- **Funding:** General Fund
- **Status:** Not started
- **STAPLEE Score:** 32 (S:4 / T:5 / A:4 / P:4 / L:5 / Ec:5 / Env:5)
- **KPI:** Adoption of updated ordinance within 6 months of FEMA map release
- **Monitoring:** Biennial review of FEMA map updates & ordinance revisions

6. Develop public wildfire awareness program (vegetation clearance, defensible space)

- **Category:** Education & Awareness
- **Responsible Dept.:** Fire Dept / Emergency Management
- **Timeline:** 2025–2026
- **Funding:** State Grants, Local Funds
- **Status:** Not started
- **STAPLEE Score:** 32 (S:5 / T:5 / A:4 / P:4 / L:5 / Ec:4 / Env:5)
- **KPI:** % of at-risk properties completing defensible space improvements (Target: 25% in 1st year)
- **Monitoring:** Annual property surveys & fire inspection review

7. Install backup generators at critical facilities (water treatment, EOC)

- **Category:** Structure & Infrastructure
- **Responsible Dept.:** Public Works / Utilities
- **Timeline:** 2026–2028
- **Funding:** FEMA HMGP, CIP
- **Status:** Not started

- **STAPLEE Score:** 33 (S:5 / T:5 / A:4 / P:5 / L:5 / Ec:4 / Env:5)
- **KPI:** % of critical facilities with operational backup power (Target: 100% by 2028)
- **Monitoring:** Annual inspection & testing logs

8. Enhance public flood hazard education (signage, web tools)

- **Category:** Education & Awareness
- **Responsible Dept.:** Emergency Management / Planning
- **Timeline:** 2025–2026
- **Funding:** Local Funds, State Flood Mgmt Grants
- **Status:** Not started
- **STAPLEE Score:** 31 (S:5 / T:5 / A:3 / P:4 / L:5 / Ec:4 / Env:5)
- **KPI:** Number of outreach events & materials distributed annually (Target: 4 events, 500+ materials)
- **Monitoring:** Track attendance, distribution counts, & feedback forms

9. Create green infrastructure program to reduce stormwater runoff

- **Category:** Natural Systems Protection
- **Responsible Dept.:** Public Works / Parks
- **Timeline:** 2026–2030
- **Funding:** State Environmental Grants, CIP
- **Status:** Not started
- **STAPLEE Score:** 30 (S:4 / T:5 / A:3 / P:4 / L:5 / Ec:4 / Env:5)
- **KPI:** Sq. ft. of green infrastructure installed (Target: 50,000 sq. ft. by 2030)
- **Monitoring:** GIS mapping & maintenance records

10. Integrate hazard mitigation into Comprehensive Plan & CIP updates

- **Category:** Local Plans & Regulations
- **Responsible Dept.:** Planning Dept
- **Timeline:** 2025–2027
- **Funding:** General Fund
- **Status:** Not started
- **STAPLEE Score:** 33 (S:4 / T:5 / A:5 / P:4 / L:5 / Ec:5 / Env:5)
- **KPI:** % of CIP projects incorporating mitigation (Target: 100% by 2026)
- **Monitoring:** Annual CIP & Comprehensive Plan review

6.3 Summary of Local Programs to Accomplish Hazard Mitigation

Since the approval of the previous Hazard Mitigation Plan, the City of Owasso has made several important updates and improvements to its local capabilities that enhance its ability to reduce hazard risks and strengthen community resilience. These changes reflect proactive planning, improved emergency response capacity, and adjustments based on new data and evolving hazard conditions. The following is a detailed summary of key capability changes since the last plan cycle:

1. **Updated Plans and Ordinances**

- The City has adopted updates to critical planning documents, including revisions to the Comprehensive Plan and Stormwater Management Regulations. These updates integrate hazard mitigation more thoroughly into land use, infrastructure, and water management policies.
- Local zoning ordinances have been strengthened to enforce tighter controls in hazard-prone areas, particularly within floodplains and other high-risk zones. This reduces vulnerability by limiting development in areas prone to flooding and other hazards.
- New FEMA floodplain maps and hazard data have been incorporated into local regulatory frameworks to ensure consistency with federal guidelines and improve risk awareness.

2. **Enhanced Emergency Management Capacity**
   - The Emergency Management Department has expanded training efforts, increasing the frequency and scope of preparedness exercises for city staff, first responders, and community partners. These trainings improve coordination and response effectiveness during hazard events.
   - The City has adopted new technologies, including upgraded outdoor warning sirens and GIS-based hazard mapping tools, which support faster, more accurate emergency notifications and incident management.
   - Improvements to communication systems such as reverse 911 and mobile alerts have enhanced the City's ability to quickly notify residents during emergencies.
3. **Expansion of Mitigation Funding Opportunities**
   - The City has increased local investment in hazard mitigation through its Capital Improvements Plan, with additional funds dedicated to stormwater infrastructure upgrades, drainage improvements, and the hardening of critical facilities.
   - Staff have pursued a wider array of federal and state grants, successfully obtaining funding from programs such as FEMA's Hazard Mitigation Grant Program (HMGP) and Building Resilient Infrastructure and Communities (BRIC) grants. These resources have enabled more comprehensive hazard mitigation projects.
   - Efforts to improve grant administration, including the potential hiring of a dedicated grant coordinator, aim to streamline funding applications and project management.
4. **Community Engagement and Outreach**
   - The City has implemented new public education initiatives focused on disaster preparedness, flood safety, wildfire prevention, and severe weather awareness. These programs involve workshops, school activities, and community events designed to inform and engage residents.
   - The use of social media and the City's website for real-time hazard updates and preparedness information has been expanded to reach a broader audience.
   - Partnerships with local organizations and regional agencies have been strengthened to support community-wide hazard awareness and response capabilities.
5. **Cross-Departmental Coordination and Capacity Building**
   - Coordination between departments such as Public Works, Emergency Management, Planning, and Utilities has improved through regular meetings and joint training exercises. This collaboration ensures more integrated hazard mitigation and emergency preparedness efforts.
   - Staff development opportunities focused on hazard mitigation best practices have increased, enhancing the skills and knowledge of city personnel responsible for implementing mitigation actions.

Overall, these capability improvements have strengthened Owasso's ability to manage hazard risks and protect its residents and infrastructure. The City has made important strides in updating plans, enhancing emergency response, securing funding, increasing public engagement, and improving internal coordination. Maintaining and building upon these efforts will be crucial to continued success in hazard mitigation.

Chapter 7:
Adoption and Assurances

7.1 Plan Adoption

In accordance with the requirements of the Disaster Mitigation Act of 2000 (DMA 2000), the City of Owasso will formally adopt this Hazard Mitigation Plan (HMP) through an official resolution by the City Council. The adoption process represents a critical milestone, affirming the City's dedication to proactively addressing natural hazard risks and enhancing community resilience over the long term. The formal adoption signifies the City's commitment to integrating hazard mitigation principles into its decision-making framework and policy development.

This plan adoption will occur following conditional approval by both the State of Oklahoma and the Federal Emergency Management Agency (FEMA). Upon receiving such approval, the Owasso City Council will review and vote to adopt the final version of the plan. A copy of the official adoption resolution or ordinance will be included in the final plan submission to FEMA. This documented adoption is necessary to maintain eligibility for federal mitigation funding and reflects compliance with DMA 2000 requirements.

By adopting this plan, the City formally acknowledges that it:

- Actively participated in the multi-jurisdictional, stakeholder-driven planning process to develop this comprehensive mitigation strategy.
- Understands and supports the mitigation goals, objectives, and prioritized actions identified in the plan to reduce the risks posed by natural hazards.
- Commits to implementing the mitigation strategies and projects outlined within the plan, contingent upon the availability of funding and resources.
- Intends to integrate relevant elements of this plan into other key planning documents and operational policies, including the City's Comprehensive Plan, Capital Improvements Program, Emergency Operations Plan, and zoning and land use regulations.
- Will establish ongoing mechanisms to monitor, maintain, and update the plan to reflect new data, changing conditions, and lessons learned from hazard events or mitigation project outcomes.

The adoption step is a public declaration of the City's dedication to hazard mitigation and provides a framework for coordinated action across municipal departments, regional partners, and the community at large.

7.2 Assurances

The City of Owasso provides the following assurances to the Federal Emergency Management Agency (FEMA) and the State of Oklahoma as part of its commitment to the Hazard Mitigation Plan:

- **Legal and Regulatory Compliance:** The City will adhere to all applicable federal, state, and local laws, regulations, and guidelines governing hazard mitigation planning and project implementation. This includes compliance with environmental review processes, procurement rules, and civil rights requirements related to federally funded activities.

- **Open and Inclusive Public Participation:** The City is committed to maintaining an open, transparent, and inclusive planning process throughout the lifecycle of this plan. This includes actively engaging diverse community members, stakeholders, and partner organizations during updates, reviews, and project development to ensure broad input and representation.
- **Regional and State Coordination:** Recognizing the interconnected nature of hazard risks and mitigation efforts, the City will coordinate closely with neighboring jurisdictions, regional planning organizations, and state agencies. This collaboration will help ensure consistency, avoid duplication, leverage resources, and enhance collective resilience across the region.
- **Implementation Monitoring and Evaluation:** The City will establish procedures to regularly track the progress of mitigation actions, evaluate their effectiveness in reducing hazard vulnerabilities, and document successes and challenges. This monitoring process will inform future plan updates and resource allocation decisions.
- **Plan Maintenance and Updates:** The City commits to submitting plan updates on the federally mandated five-year cycle or as otherwise directed by FEMA guidance. Updates will reflect changes in local hazard exposure, vulnerabilities, capabilities, and community priorities, ensuring the plan remains current and actionable.
- **Pursuit of Funding Opportunities:** The City will actively seek available federal, state, and local funding sources to support the implementation of mitigation projects identified in this plan. This includes grant applications, partnerships, and innovative financing strategies to maximize resource availability.

These assurances affirm the City of Owasso's intention to fulfill all responsibilities outlined in this Hazard Mitigation Plan and to uphold the standards required by FEMA and the State of Oklahoma. They serve as a formal commitment to ongoing hazard mitigation, risk reduction, and community resilience-building efforts, thereby helping to protect lives, property, and critical infrastructure from future disaster impacts.

7.3 Plan Adoption & Concurrent Resolution Process

This Hazard Mitigation Plan will be formally adopted by both the **Owasso City Council** and the **Owasso Public Schools Board of Education**. Adoption by each governing body establishes the plan as official policy and demonstrates commitment to implementation.

To ensure the plan maintains a single five-year FEMA approval cycle, both entities will:

1. Adopt separate resolutions (one by City Council, one by the School Board) affirming the plan.
2. Submit both resolutions together to the Oklahoma Water Resources Board (OWRB) / FEMA Region VI for final approval.
3. The plan's expiration date will be the same for both the City and Schools, avoiding staggered cycles or conflicting update requirements.

This concurrent adoption process streamlines future updates, maintains consistency in hazard mitigation strategy, and ensures both the City and Schools remain eligible for FEMA Hazard Mitigation Assistance (HMA) funding under the same plan cycle.

Plan Adoption

This Hazard Mitigation Plan will be adopted in accordance with FEMA's Approval Pending Adoption (APA) policy. Following FEMA Region VI and Oklahoma Department of Emergency Management (OEM) review, the plan will be issued APA.

The City of Owasso City Council and the Owasso Public Schools (OPS) Board of Education will then adopt the plan via resolution. Once adoption resolutions are submitted to FEMA and OEM, the plan will receive official approval and become effective for both jurisdictions.

Adoption by both governing bodies ensures:

- The plan is recognized as an official guiding document for hazard mitigation decisions.
- The City and OPS remain eligible for FEMA Hazard Mitigation Assistance (HMA) programs.
- The plan's strategies and actions are formally integrated into the Comprehensive Plan, Capital Improvement Program (CIP), zoning ordinances, and OPS facility/capital planning documents.

Note

This plan includes a draft resolution for adoption by the Owasso City Council. The final adoption will take place only after the plan receives conditional approval from the State of Oklahoma and FEMA. Following formal adoption, the signed resolution will be incorporated into the final plan submission to FEMA to complete the approval process. This step ensures that the City remains eligible for federal mitigation funding and that the plan serves as a living document guiding Owasso's hazard mitigation activities for years to come.

City of Owasso Resolution No. [XXXX]

A RESOLUTION ADOPTING THE CITY OF OWASSO HAZARD MITIGATION PLAN

WHEREAS, the City of Owasso recognizes the threat that natural and human-caused hazards pose to people, property, and the community as a whole; and

WHEREAS, the development and maintenance of a hazard mitigation plan will make the City eligible to receive federal hazard mitigation assistance funding; and

WHEREAS, the City of Owasso has prepared a multi-jurisdictional hazard mitigation plan in cooperation with Owasso Public Schools, in accordance with the Disaster Mitigation Act of 2000 and guidance from the Federal Emergency Management Agency (FEMA); and

WHEREAS, the plan identifies mitigation goals and actions to reduce future risk from hazards and will serve as a guide for decision-makers; and

WHEREAS, adoption by the City Council demonstrates the City's commitment to mitigation and implementation of the plan's priorities;

NOW, THEREFORE, BE IT RESOLVED by the Mayor and City Council of Owasso, Oklahoma:

1. The **Owasso Hazard Mitigation Plan** is hereby adopted as an official plan of the City.
2. The City Council directs all relevant departments to pursue the actions identified in the plan, subject to available funding.
3. The City Clerk is authorized to forward this resolution, together with the companion resolution adopted by the Owasso Public Schools Board of Education, to the Oklahoma Water Resources Board (OWRB) and FEMA Region VI for final approval.

ADOPTED this ___ day of _____, 2025.

Mayor, City of Owasso

ATTEST:

City Clerk

Owasso Public Schools Resolution No. [XXXX]

A RESOLUTION ADOPTING THE HAZARD MITIGATION PLAN FOR OWASSO PUBLIC SCHOOLS

WHEREAS, Owasso Public Schools recognizes the threat that natural and human-caused hazards pose to students, staff, property, and educational continuity; and

WHEREAS, the development and maintenance of a hazard mitigation plan will make the district eligible to receive federal hazard mitigation assistance funding; and

WHEREAS, Owasso Public Schools has participated in the preparation of a multi-jurisdictional hazard mitigation plan in cooperation with the City of Owasso, in accordance with the Disaster Mitigation Act of 2000 and FEMA requirements; and

WHEREAS, the plan identifies mitigation goals and actions to reduce future risk from hazards and will serve as a guide for school safety, facility planning, and emergency management decisions; and

WHEREAS, adoption by the Board of Education demonstrates the District's commitment to mitigation and implementation of the plan's priorities;

NOW, THEREFORE, BE IT RESOLVED by the Owasso Board of Education:

1. The **Owasso Hazard Mitigation Plan** is hereby adopted as an official plan of the District.
2. The Board directs the Superintendent and designated staff to pursue the actions identified in the plan, subject to available funding.
3. The Board Clerk is authorized to forward this resolution, together with the companion resolution adopted by the Owasso City Council, to the Oklahoma Water Resources Board (OWRB) and FEMA Region VI for final approval.

ADOPTED this ___ day of _____, 2025.

President, Owasso Board of Education

ATTEST:

Board Clerk

Appendix 1:
HMP Critical Facilities

Owasso Critical Facilities Overview

1. City Hall

- **Location:** 201 South Main Street
- **Importance:** Integral to operational mission
- **Vulnerabilities:** HVAC units on roof susceptible to high winds and hail; lightning strikes and electrical surges via utility lines; structural risks from tornadoes and earthquakes affecting building, contents, and occupants.
- **Details:**
    - Year Built: 2013
    - Stories: 2
    - Construction: Non-Combustible
    - Size: 27,000 sq. ft.
    - Building Value: $5,453,239
    - Contents Value: $1,141,543

2. Communications Tower

- **Location:** 9540 North 121st East Avenue
- **Importance:** Essential for operations and communications
- **Vulnerabilities:** HVAC units at risk from weather; lightning strikes and utility line surges; structural damage risk from tornadoes and earthquakes.
- **Details:**
    - Year Built: Unknown
    - Stories: 1
    - Construction: Metal
    - Size: 800 sq. ft.
    - Estimated Value (including contents): $3,140,022

3. Animal Shelter

- **Location:** 500 South Main Street
- **Importance:** Key to operational mission
- **Vulnerabilities:** HVAC units exposed to wind, hail, and lightning; structural risks from tornadoes and earthquakes.
- **Details:**
    - Year Built: 1999
    - Stories: 1
    - Construction: Non-Combustible
    - Size: 6,000 sq. ft.
    - Building Value: $221,835

- Contents Value: $52,030

4. Community Center

- **Location:** 301 South Center
- **Importance:** Central operational facility
- **Vulnerabilities:** Roof HVAC units vulnerable to severe weather; risk of damage from lightning, tornadoes, earthquakes.
- **Details:**
  - Year Built: 1980
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 9,800 sq. ft.
  - Building Value: $3,415,523
  - Contents Value: $319,986

5. Fire Station #1

- **Location:** 8901 North Garnett Road
- **Importance:** Critical emergency operations
- **Vulnerabilities:** Roof HVAC units vulnerable to weather and lightning; structural risks from tornadoes and earthquakes.
- **Details:**
  - Year Built: 1997
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 10,000 sq. ft.
  - Building Value: $1,682,169
  - Contents Value: $323,628

6. Fire Station #2 & Emergency Operations Center

- **Location:** 207 South Cedar
- **Importance:** Emergency operations hub
- **Vulnerabilities:** Weather and lightning risks to HVAC; tornado and earthquake structural risks.
- **Details:**
  - Year Built: 1973 (Refurbished 2024)
  - Stories: 2
  - Construction: Non-Combustible
  - Size: 15,000 sq. ft.
  - Building Value: $2,236,754
  - Contents Value: $319,986

7. Fire Station #3

- **Location:** 9990 North 145th East Avenue
- **Importance:** Emergency response
- **Vulnerabilities:** Same as above with weather, lightning, tornado, earthquake risks.

- **Details:**
  - Year Built: 2008
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 9,900 sq. ft.
  - Building Value: $2,422,169
  - Contents Value: $377,219

8. Fire Station #4 (6 buildings)

- **Location:** 11933 East 116th Street North
- **Importance:** Emergency services
- **Vulnerabilities:** Similar risks to HVAC and structural integrity from weather and seismic events.
- **Details:**
  - Year Built: 2019
  - Stories: 1
  - Construction: Non-Combustible
  - Size: Unknown
  - Building Value: $14,399,525
  - Contents Value: $306,030

9. Golf Course Clubhouse

- **Location:** 10105 Larkin Bailey Boulevard
- **Importance:** Operational mission related
- **Vulnerabilities:** Weather and lightning impacts on HVAC and structure; tornado and earthquake risks.
- **Details:**
  - Year Built: 2000
  - Stories: 1
  - Construction: Frame
  - Size: 4,500 sq. ft.
  - Building Value: $1,121,816
  - Contents Value: $232,055

10. Golf Course Maintenance Building

- **Location:** 10320 East 86th Street North
- **Importance:** Operational mission
- **Vulnerabilities:** Same weather, lightning, tornado, and earthquake risks.
- **Details:**
  - Year Built: 1998
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 5,600 sq. ft.
  - Building Value: $230,708
  - Contents Value: $208,121

11. Historical Museum

- **Location:** 26 South Main Street
- **Importance:** Operational mission
- **Vulnerabilities:** HVAC and structural vulnerabilities similar to other facilities; tornado and earthquake risks.
- **Details:**
  - Year Built: 1928
  - Stories: 2
  - Construction: Joisted Masonry
  - Size: 4,000 sq. ft.
  - Building Value: $281,351
  - Contents Value: $20,812

12. Parks Department Office

- **Location:** 9902 North 145th East Avenue
- **Importance:** Operational mission
- **Vulnerabilities:** HVAC exposed to weather and lightning; structural risks from tornadoes and earthquakes.
- **Details:**
  - Year Built: Unknown
  - Stories: 1
  - Construction: Frame
  - Size: Unknown
  - Building Value: $127,554
  - Contents Value: Unknown

13. Police Station

- **Location:** 111 North Main Street
- **Importance:** Critical for public safety operations
- **Vulnerabilities:** Not specified but HVAC and structural risks inferred as above.
- **Details:**
  - Year Built: 2001
  - Stories: 2
  - Construction: Non-Combustible
  - Size: 30,000 sq. ft.
  - Building Value: $8,930,100
  - Contents Value: $1,604,107

14. Public Works Administration Building (8 buildings)

- **Location:** 301 West 2nd Avenue
- **Importance:** Supports operational functions
- **Vulnerabilities:** Weather and lightning risks to HVAC; structural risk from tornadoes and earthquakes.
- **Details:**
  - Year Built: 1999–2018
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 12,630 sq. ft.
  - Building Value: $1,471,275

- Contents Value: $405,420

15. Public Works Recycle Facility (5 buildings)

- **Location:** 499 South Main Street
- **Importance:** Operational mission
- **Vulnerabilities:** Similar weather and seismic risks.
- **Details:**
  - Year Built: 2000–2011
  - Stories: 1
  - Construction: Joisted Masonry
  - Size: 5,300 sq. ft.
  - Building Value: $504,876
  - Contents Value: $59,103

16. Public Works Waste Water Treatment Plant (7 buildings)

- **Location:** 600 South Main
- **Importance:** Critical infrastructure
- **Vulnerabilities:** HVAC and equipment vulnerable to weather, lightning, tornadoes, earthquakes; potential for damage to pumps and effluent discharge risk.
- **Details:**
  - Year Built: 1987–2011
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 19,047 sq. ft.
  - Building Value: $7,650,087
  - Contents Value: $5,705,265

17. Facility and Fleet Maintenance Building

- **Location:** 452 South Main Street
- **Importance:** Supports city operations
- **Vulnerabilities:** HVAC and structural risks from weather and seismic events.
- **Details:**
  - Year Built: 2003
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 6,000 sq. ft.
  - Building Value: $499,128
  - Contents Value: $420,393

18. Old Central Building

- **Location:** 109 North Birch
- **Importance:** Hosts court and City Council meetings, essential operational facility
- **Vulnerabilities:** HVAC units and structure vulnerable to weather and seismic events.
- **Details:**

- Year Built: 2002
- Stories: 1
- Construction: Joisted Masonry
- Size: 25,530 sq. ft.
- Building Value: $2,579,488
- Contents Value: $54,528

19. Key Lift Stations and Utility Infrastructure

- **Lift Stations:** (117th Street, Brookfield, Coffee Creek, Santa Fe, Relief Station, Service Road) – All critical for wastewater management, vulnerable to earthquakes (pipe rupture), flooding (equipment damage, effluent discharge). Values range from ~$106,000 to $1,454,826 depending on station and year built.
- **Control Valves:** (12-inch and 16-inch valves) – Vulnerable to earthquake vibration, valued at $50,000 and $75,000 respectively.
- **Water Booster Pump Station:** Built 2000, valued at $88,305; vulnerable to earthquake and tornado damage.
- **Water Towers:**
  - Ram Tower (1965) – 2 million gallon capacity, valued at $1,109,171
  - Bailey Tower (2007) – 2 million gallon capacity, valued at $2,254,945
    Vulnerabilities include earthquake vibrations and tornado strikes.

20. Owasso Public Schools – Education Service Center

- **Location:** 1501 North Ash
- **Importance:** Integral part of community operations
- **Vulnerabilities:** Roof HVAC units and equipment vulnerable to high winds, hail, lightning strikes, tornadoes, and earthquakes.
- **Details**
  - **Year Built:** 2020
  - **Stories:** 2
  - **Type of Construction:** Non-Combustible
  - **Square Feet:** 22,180
  - **Estimated Building Value:** $6,600,000
  - **Estimated Contents Value:** $1,000,000

21. Owasso Public Schools – High School East Campus

- **Location:** 12901 East 86th Street North
- **Criticality:** Integral to the district's educational mission and operations
- **Vulnerabilities:**
  - Roof HVAC units susceptible to high winds, hail damage
  - Risk from lightning strikes or surges traveling through utility lines
  - Tornadoes and earthquakes could cause structural damage impacting the building, contents, and occupants
- **Building Details:**
  - Year Built: 1974
  - Stories: 2
  - Construction: Non-Combustible
  - Size: 300,000 sq. ft.

    - Estimated Building Value: $110,000,000
    - Estimated Contents Value: $6,000,000
- **Grade Levels:** 9–12
- **Enrollment (2023–2024):** 1,608 students

22. Owasso Public Schools – High School West Campus

- **Location:** 8800 North 129th East Avenue
- **Criticality:** Supports district's educational mission
- **Vulnerabilities:** Similar to East Campus, including rooftop HVAC and electrical vulnerabilities, and tornado and earthquake risks
- **Building Details:**
    - Year Built: 1994
    - Stories: 1
    - Construction: Non-Combustible
    - Size: 146,000 sq. ft.
    - Estimated Building Value: $44,000,000
    - Estimated Contents Value: $2,500,000
- **Grade Levels:** 9–12
- **Enrollment (2023–2024):** 1,462 students

23. Owasso Public Schools – High School Ram Academy

- **Location:** 202 East Broadway
- **Criticality:** Integral for specialized education programs
- **Vulnerabilities:** Rooftop HVAC and utility line risks, tornado and earthquake hazards affecting building and contents
- **Building Details:**
    - Year Built: 1956
    - Stories: 1
    - Construction: Non-Combustible
    - Size: 47,195 sq. ft.
    - Estimated Building Value: $14,000,000
    - Estimated Contents Value: $1,000,000
- **Grade Levels:** 9–12
- **Enrollment (2023–2024):** 77 students

24. Owasso Public Schools – Eighth Grade Center

- **Location:** 13901 East 86th Street North
- **Criticality:** Supports middle school education, essential to district mission
- **Vulnerabilities:** Similar rooftop and structural risks as other schools
- **Building Details:**
    - Year Built: 1981
    - Stories: 1
    - Construction: Non-Combustible
    - Size: 97,964 sq. ft.
    - Estimated Building Value: $32,000,000

    - Estimated Contents Value: $2,000,000
- **Grade Levels:** 8
- **Enrollment (2023–2024):** 771 students

25. Owasso Public Schools – Seventh Grade Center

- **Location:** 1400 North Main
- **Criticality:** Key facility for seventh grade education
- **Vulnerabilities:** Rooftop HVAC exposed to weather extremes; lightning and seismic risks
- **Building Details:**
    - Year Built: 1964
    - Stories: 2
    - Construction: Non-Combustible
    - Size: 135,000 sq. ft.
    - Estimated Building Value: $41,000,000
    - Estimated Contents Value: $2,000,000
- **Grade Levels:** 7
- **Enrollment (2023–2024):** 781 students

26. Owasso Public Schools – Sixth Grade Center

- **Location:** 8101 North 129th East Avenue
- **Criticality:** Supports sixth grade education
- **Vulnerabilities:** Vulnerable rooftop HVAC; lightning and structural risks from tornadoes and earthquakes
- **Building Details:**
    - Year Built: 1997
    - Stories: 1
    - Construction: Non-Combustible
    - Size: 135,000 sq. ft.
    - Estimated Building Value: $41,000,000
    - Estimated Contents Value: $2,000,000
- **Grade Levels:** 6
- **Enrollment (2023–2024):** 728 students

27. Owasso Public Schools – Transportation and Physical Plant Building

- **Location:** 501 East 2nd
- **Criticality:** Essential for transportation logistics and facility maintenance
- **Vulnerabilities:** HVAC and structural risks related to weather and seismic hazards
- **Building Details:**
    - Year Built: 1977
    - Stories: 1
    - Construction: Non-Combustible
    - Size: 40,000 sq. ft.
    - Estimated Building Value: $12,000,000
    - Estimated Contents Value: $3,000,000

Owasso Public Schools – Elementary Schools

1. Ator Elementary School

- **Location:** 1500 North Ash
- **Criticality:** Core early education facility
- **Vulnerabilities:** HVAC rooftop units exposed; lightning and severe weather risks; structural impact potential from tornadoes and earthquakes
- **Building Details:**
  - Year Built: 1968
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 58,000 sq. ft.
  - Estimated Building Value: $19,000,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 382 students

2. Bailey Elementary School

- **Location:** 10221 East 96th Street North
- **Criticality:** Integral part of district education
- **Vulnerabilities:** Standard rooftop and electrical risks plus tornado and earthquake damage potential
- **Building Details:**
  - Year Built: 1993
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 65,184 sq. ft.
  - Estimated Building Value: $19,500,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 476 students

3. Barnes Elementary School

- **Location:** 7801 East 76th Street North
- **Criticality:** Key elementary education facility
- **Vulnerabilities:** Vulnerabilities as above for HVAC, electrical, and structural hazards
- **Building Details:**
  - Year Built: 2004
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 92,318 sq. ft.
  - Estimated Building Value: $29,600,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 500 students

4. Pamela Hodson Elementary School

- **Location:** 14500 East 86th Street North
- **Criticality:** Essential elementary education
- **Vulnerabilities:** HVAC and electrical systems exposed to weather hazards; tornado and earthquake risks
- **Building Details:**
  - Year Built: 1989
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 85,771 sq. ft.
  - Estimated Building Value: $25,700,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 541 students

5. Mills Elementary School

- **Location:** 8200 North 124th East Avenue
- **Criticality:** Elementary education mission-critical
- **Vulnerabilities:** Similar rooftop and structural vulnerabilities as others
- **Building Details:**
  - Year Built: 1978
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 60,636 sq. ft.
  - Estimated Building Value: $19,400,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 480 students

6. Morrow Elementary School

- **Location:** 12301 North 132nd East Avenue
- **Criticality:** Core elementary education facility
- **Vulnerabilities:** HVAC, lightning, tornado, and earthquake related risks
- **Building Details:**
  - Year Built: 2019
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 99,000 sq. ft.
  - Estimated Building Value: $29,700,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 638 students

7. Northeast Elementary School

- **Location:** 13650 East 103rd Street North

- **Criticality:** Elementary education facility
- **Vulnerabilities:** Rooftop HVAC and electrical systems exposed to weather extremes, structural risks from tornadoes and earthquakes
- **Building Details:**
  - Year Built: 2000
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 71,000 sq. ft.
  - Estimated Building Value: $21,500,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 496 students

8. Hayward Smith Elementary School

- **Location:** 12223 East 91st Street North
- **Criticality:** Elementary education facility
- **Vulnerabilities:** Same HVAC and structural risks as other schools
- **Building Details:**
  - Year Built: 1986
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 66,000 sq. ft.
  - Estimated Building Value: $19,800,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 409 students

9. Stone Canyon Elementary School

- **Location:** 7305 North 177th East Avenue
- **Criticality:** Elementary education facility
- **Vulnerabilities:** Rooftop HVAC exposed to severe weather, lightning, and seismic threats
- **Building Details:**
  - Year Built: 2008
  - Stories: 1
  - Construction: Non-Combustible
  - Size: 97,000 sq. ft.
  - Estimated Building Value: $29,000,000
  - Estimated Contents Value: $1,500,000
- **Grades:** Pre-K through 5
- **Enrollment:** 594 students

City Of Owasso Medical Facilities

1. Bailey Medical Center

- **Location:** 10502 North 110th East Avenue

- **Criticality:** Essential community medical provider
- **Vulnerabilities:** Roof and ground HVAC vulnerable to weather and hail damage; lightning strikes; tornado and earthquake risks to structure and contents
- **Building Details:**
  - Year Built: 2006
  - Stories: 3
  - Construction: Non-Combustible
  - Size: 133,000 sq. ft.
  - Estimated Values: Unavailable

2. Ascension St. John's Hospital Owasso

- **Location:** 12451 East 100th Street North
- **Criticality:** Critical medical facility for Owasso community
- **Vulnerabilities:** Roof and ground HVAC susceptible to high winds, hail, and lightning; tornado and earthquake structural risks
- **Building Details:**
  - Year Built: 2006
  - Stories: 4
  - Construction: Non-Combustible
  - Size: 116,000 sq. ft.
  - Estimated Building Value: $24,373,332.50
  - Estimated Contents Value: Undetermined

This comprehensive overview details the critical nature of educational and medical facilities within Owasso, highlighting their vulnerabilities to natural hazards and providing key structural and valuation data essential for emergency planning, risk mitigation, and resource allocation.

Appendix 2:
HMP Meetings and Minutes

City of Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Emergency Management Department
207 South Cedar
Owasso, Oklahoma
April 11, 2019
1:30 p.m.

AGENDA

1. Call to order
2. Introductions
3. Discussion on the need of a multi-hazard mitigation plan.
4. Discussion on the involvement of the jurisdictions participating in the plan.
5. Establishment of a committee to facilitate the update of the City of Owasso Multi-Jurisdictional Multi-Hazard Mitigation Plan and select a chairman.
6. Review the planning process. Discuss the required planning process for the plan update, prepare a general population hazards awareness survey and determine how to disseminate and collect the survey.
7. Summarize the information needed from the City of Owasso and Owasso Schools.
8. Set date and time for next meeting.
9. Adjourn.

Meeting #1 Minutes

Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Office of Emergency Management
207 S. Cedar, Owasso, OK

Minutes of the April 11, 2019 Meeting

1. The meeting was called to order at 1:30 p.m.

2. General introductions were made around the room. Those in attendance were:
Nick Boatman – Owasso Police
Larry White – Owasso Support Services Director
Kaitlyn Dillard – Press (Inside Owasso)
Travis Blundell – Owasso Public Works Assistant Director
Roger Stevens – Owasso Public Works Director
Brad Yokley – Owasso Public Schools
Kerwin Koerner – Owasso Public Schools
Art Haddaway – Owasso Reporter
Mark Stuckey – Owasso Fire/EMS
Ginger Williamson – Owasso Support Services Department
Dan Miller – Owasso Emergency Management Coordinator

3. Dan Miller discussed the need for the Owasso multi-hazard mitigation plan. He explained that the purpose was to understand the hazards that could affect the City and the Owasso Public Schools locations and for the City and Owasso Public Schools to be eligible for mitigation grant funds. Dan further explained that this committee will eventually hold a public meeting to discuss the need for the multi-hazard mitigation plan.

4. Dan explained that Owasso Public Schools was participating in the City hazard plan update to reap the benefit of participating in the City plan and not having to create an individual plan. There was discussion that the Owasso Public Schools currently has 9,646 students enrolled in classes.

5. The Owasso Hazard Mitigation Planning Committee was re-established and named Dan Miller, Owasso Emergency Management Coordinator, as Chairman of the Committee.

6. Dan stated he wanted to shorten the planning process. He needed everyone on the Committee to help create history from the past ten (10) years concerning lightning strikes, flooding events causing property damage, tornado events, hail damage, earthquakes, and any other events which had affected our City or schools.

7. Dan mentioned the Committee needed to identify particular types of events that could impact us in the future. He stated that the Committee needed to identify the City flood plains. The Committee needs to determine if the City allows building in the flood plains. What are the guidelines? Dwayne Henderson was identified as the Flood Plain Manager for the City of Owasso. Dan also mentioned the potential for damage if the dams at Oologah Lake or the lake at Stone Canyon Addition were to fail and release large volumes of water.

8. Dan discussed the need for a citizen hazard awareness survey due to the requirement for public involvement in this planning process. He felt this should be done on the internet and social media in order to reach more people. Dan said he would prepare a survey for the Committee to review at the next meeting.

9. The next meeting of the Owasso Hazard Mitigation Planning Committee was set for Tuesday afternoon, May 14, 2019, at 1:30 p.m. at the Owasso Emergency Management office.

10. The Committee meeting was adjourned at 2:00 p.m.

Respectfully submitted,

Ginger Williamson
City of Owasso
Support Services Department

OWASSO EMERGENCY MANAGEMENT

Topic: Owasso Hazard Mitigation Planning	Date: April 11, 2019
Host Agency: Owasso Emergency Management	Location: 207 S. Cedar Owasso EOC

Name (Please Print)	Jurisdiction/Agency	Phone	E-mail Address
1. Nick Boatman	Police		NBoatman @ cityofowasso
2. Laura White	SS		lwhite@cityofowasso.com
3. Kaitlyn Dillard	Press (inside Owasso)	405-200-6177	Kaitie@merrillmediagroup.com
4. Travis Blundell	Public Works		tblundell@cityofowasso.com
5. Roger Stevens	Public Works	918-272-4959	rstevens@cityofowasso.com
6. Brad Yokley	Owasso Public School	918-272-8091	brad.yokley@owassops.org
7. Kerwin Koerner	Owasso Public Schools	918-272-8153	kerwin.koerner@owassops.org
8. Art Haddaway	Owasso Reporter	479-715-2022	art.haddaway@owassoreporter.com
9. Mark Stuckey	Owasso Fire/EMS	918-619-3717	mstuckey@cityofowasso.com
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City of Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Emergency Management Department
207 South Cedar
Owasso, Oklahoma
May 14, 2019
1:30 p.m.

AGENDA

1. Call to order
2. Introductions
3. Review and approve minutes from April 11, 2019 meeting.
4. Discussion about the various hazards affecting the various departments of the city of Owasso and Owasso Public Schools.
5. Discussion about the survey to be sent to the public concerning hazard threats to the City of Owasso and Owasso Public Schools and if any of the citizens have had any damage from any of the hazard threats.
6. Discuss Chapter 3 Hazard Identification and Risk Assessment
7. Set date and time for next meeting.
8. Adjourn.

Meeting #2 Minutes

Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Office of Emergency Management
207 S. Cedar, Owasso, OK

Minutes of the May 14, 2019 Meeting

1. The meeting was called to order at 1:35 p.m.

2. General introductions were made around the room because there were some new people in attendance. Those in attendance were:
Nick Boatman – Owasso Police
Travis Blundell – Owasso Public Works Assistant Director
Roger Stevens – Owasso Public Works Director
Brad Yokley – Owasso Public Schools
Kerwin Koerner – Owasso Public Schools
Art Haddaway – Owasso Reporter
Jon Wintle – Owasso Fire/EMS
Jamie Ott - Broken Arrow Emergency Management
Ginger Williamson – Owasso Support Services Department
Dan Miller – Owasso Emergency Management Coordinator

3. The minutes from the meeting held on April 11, 2019, were discussed and approved as submitted.

4. Dan Miller led discussion about the Owasso community's preparation for various hazardous threats. He asked if there were any City buildings located in flood plains. There was discussion that the City parks might be located in flood plains. Roger Stevens stated he would provide a listing of area flood plains. The Owasso Public Schools representatives stated they would check to see if any school buildings were located in flood plains.

5. Dan asked about lightning detectors that might be installed around the City. It was determined that there were no lightning detectors had been installed on school buildings or City buildings in Owasso. Dan stated he would check to see if any lightning detectors had been installed in the City parks.

6. Dan presented a sample citizen hazard awareness survey to be sent out to the public through social media. He asked for review and discussion about the survey. It was suggested by Jamie Ott that Items 1 and 2 on the survey should be combined. They both addressed issues concerning any historic damage to the citizen's current residence due to a disaster. It was also suggested by Mr. Ott that the item requesting a designation of three (3) hazards of most concern to a citizen's neighborhood should be separated from the request for a listing of any additional hazards that present a threat to that neighborhood. See attached sample survey.

7. Dan handed out the Chapter 3 Hazard Identification and Risk Assessment portion of the Owasso Proposed Hazard Mitigation Plan document for consideration and discussion. He asked if maps were available from City staff showing flood plains and the 100-year

flood hazard areas for the Owasso areas. He also asked if someone in the City has a copy of the Owasso Wildfire Urban Interface map which was referenced in the Risk Assessment document. He requested that all available maps be brought to the next Committee meeting. He also asked that all information requested in the Chapter 3 document be brought to the next meeting. He said to go back for the last ten (10) years concerning events to be listed.

8. Dan asked if there were any mobile home communities within the Owasso city limits. There was discussion that there were two (2) of these communities: German Corner and Vines Properties.

9. Jon Wintle mentioned that the Owasso Fire Protection area is different that than the Owasso City limits. Due to the fact that the Fire Protection area extends into Rogers County, Jamie Ott suggested that the Rogers County Emergency Management representatives should be involved in our hazard mitigation process.

10. There was discussion about saferooms for Owasso Public Schools. The School District representatives mentioned that the schools have to meet ICC standards and that all new schools are being equipped with saferooms. Jamie Ott suggested that the school district officials apply for grants for saferooms from the State of Oklahoma. It was also suggested that the schools should apply for State grants for installation of impact resistant windows.

11. Dan asked if there had been any plans or discussions between the City staff and school officials concerning the need to move people before or after a hazardous event, such as those in nursing homes. The school representatives mentioned that there had been discussion about the use of school buses to move those people from nursing homes. However, there was not a backup plan if school was in session during a hazardous event and the buses were needed for the children. Dan mentioned this should be addressed in this new plan.

12. The Owasso Public Schools representatives mentioned that the school system was in the process of changing its entire communication system.

13 The next meeting of the Owasso Hazard Mitigation Planning Committee was set for Tuesday afternoon, June 11, 2019, at 1:30 p.m. at the Owasso Emergency Management office.

14. The Committee meeting was adjourned at 2:10 p.m.

Respectfully submitted,

Ginger Williamson
City of Owasso
Support Services Department

OWASSO EMERGENCY MANAGEMENT

Topic: Owasso Hazard Mitigation Meeting	Date: May 14, 2019
Host Agency: Owasso Emergency Management	Location: 207 S. Cedar Owasso EOC

Name (Please Print)	Jurisdiction/Agency	Phone	E-mail Address
1. Ginger Williamson	CITY OF OWASSO	918-272-3459	gwilliamson@cityofowasso.com
2. Nick Boatman	Owasso PD		Nboatman@c.tyofowasso.com
3. JON WINTLE	OWASSO FIRE	918-636-4237	JWINTLE@CITYOFOWASSO.COM
4. Travis Blundell	City of Owasso	918-272-4959	tblundell@cityofowasso.com
5. Roger Stevens	City of Owasso	918-272-4959	rstevens@cityofowasso.com
6. Art Haddaway	Owasso Reporter	479-715-2022	art.haddaway@owassoreporter.com
7. Jamie Ott	Broken Arrow Emergency Management	918-451-8309	jott@brokenarrowok.gov
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City of Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Emergency Management Department
207 South Cedar
Owasso, Oklahoma
June 11, 2019
1:30 p.m.

AGENDA

1. Call to order
2. Introductions
3. Review and approve minutes from May 14, 2019 meeting.
4. Discussion about the recent flood and how it affected the city of Owasso and Owasso Public Schools.
5. Discussion about the survey to be sent to the public concerning hazard threats to the City of Owasso and Owasso Public Schools.
6. Discuss current Hazard Mitigation Plan revision.
7. Set date and time for next meeting.
8. Adjourn.

Meeting #3 Minutes

Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Office of Emergency Management
207 S. Cedar, Owasso, OK

Minutes of the June 11, 2019, Meeting

1. The meeting was called to order at 1:35 p.m.

2. Those in attendance were:
Nick Boatman – Owasso Police
Travis Blundell – Owasso Public Works Assistant Director
Roger Stevens – Owasso Public Works Director
Brad Yokley – Owasso Public Schools
David Hurst – Owasso Fire/EMS Chief
Larry White – Owasso Support Services Director
Brian Dempster – Owasso Community Development Director
Ginger Williamson – Owasso Support Services Department
Dan Miller – Owasso Emergency Management Coordinator

3. The minutes from the meeting held on May 14, 2019, were discussed and approved as submitted.

4. Dan Miller led discussion about the recent flood events in the Owasso area.
   - Roger Stevens mentioned that the City's GIS System needed to be more user friendly for the public. There should be a link with one click for flood plains, etc.
   - Travis Blundell stated there were problems about calls coming in to Dispatch concerning locations of shelters. There was only one in this area which was Crosstown Church at Admiral Place and Sheridan Road in Tulsa.
   - Roger said there was a need for one central person for public communications for emergency events. He said that person needed to be tied into social media.
   - Brad Yokley stated that the Owasso Public School buildings were okay during the floods. However, they had problems with the bus routes. Some routes were flooded and had to be changed.
   - Roger suggested installation of swing arm gates for road closures. Then someone other than Public Works personnel could activate the closure of those roads when they are flooded. Roger mentioned, however, that such gates would draw attention to flood areas and could cause real estate value issues. Also, there was discussion that a gate could be a hazard for a motorcyclist.
   - There was discussion by Nick Boatman and Roger Stevens about the severe flooding problem in Country Estates located north of 116th Street North between Garnett Road and Sheridan Road. The general consensus was that the storm water drainage needed to be redesigned, and funding would be needed.
   - There was also discussion that the bridge needed to be replaced at Centennial Park on 86th Street North.

5. Dan stated he determined that the City had a Survey Monkey account. He said that Teresa Willson, IT Director for the City of Owasso, would send out the Citizen Hazard Awareness survey to the public once it is ready for distribution. He also mentioned that he made one change to the survey as requested during the last meeting. He combined Items 1 and 2 on the original survey form.

6. Dan stated that the revision of the Hazard Mitigation Plan was almost completed. He said he expected to hold a Public Meeting in July to discuss the Plan. He was waiting on updated items from the National Weather Service concerning the flooding in this area. This would include statistics about tornados. He pointed out there was a tornado this spring at 126th East Avenue and North Memorial Drive in Owasso.

7. Dan mentioned that the water levels in the rivers in the Tulsa area were coming down. However, Bird Creek had a minor spike in the water levels in the early part of the week of June 10. Reports of flood activities in this area were received from the City departments and forwarded to Chris Garrett, Assistant City Manager for the City of Owasso, during the first week of June.

8. Dan mentioned that FEMA had contacted him to ask if there were people in our area needing assistance. He said to the meeting group that there were issues about reimbursement to the City for overtime payments, equipment purchased, fuel purchased, boat rental, etc. during the recent flood events. Reimbursement for these items would be determined by FEMA at a later date.

9. There was discussion about the location of rain gauges within the City which were monitored by City personnel. Larry White suggested tying in all of the gauges to WIFI. The locations are:
   - North of the Owasso High School football field near 129th East Avenue,
   - In the Ator Addition area,
   - Close to Country Estates Addition,
   - At the top of the Emergency Operations Center Building.

10. The next meeting of the Owasso Hazard Mitigation Planning Committee was set for Tuesday afternoon, July 9, 2019, at 1:30 p.m. at the Owasso Emergency Management office.

11. The meeting adjourned at 2:05 p.m.

Respectfully submitted,

Ginger Williamson
City of Owasso
Support Services Department

OWASSO EMERGENCY MANAGEMENT

Topic: Hazard Mitigation Meeting	Date: June 11, 2019
Host Agency: Owasso Emergency Management	Location: Owasso EOC

Name (Please Print)	Jurisdiction/Agency	Phone	E-mail Address
1. DAN Miller	OWASSO EM	9182725848	DMiller@cityofowasso.
2. Ginger Williamson	Owasso Supp Svcs	918 272 3459	gwilliamson@cityofowasso.com
3. Brian Dempster	Owasso CD	918-376-1544	bdempster@cityofowasso.com
4. harry White	Owasso	918-376-1505	lwhite@cityofowasso.com
5. Nick Boatman	Police	1580	nboatman@city
6. Roger Stevens	P.W. - Owasso	918-272-4959	rstevens@cityofowasso.com
7. David Hurst	OFD	918-272-5253	dhurst@cityofowasso.com
8. Travis Blundell	Owasso Public Works	918-272-4959	tblundell@cityofowasso.com
9. Brad Yokley	Owasso Public Schools	918-899-5246	brad.yokley@owassops.org
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Meeting #4 Minutes

Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Office of Emergency Management
207 S. Cedar, Owasso, OK

Minutes of the July 16, 2019, Meeting

1. The meeting was called to order at 1:35 p.m.

2. Those in attendance were:
Travis Blundell – Owasso Public Works Assistant Director
Kerwin Koerner – Owasso Public Schools
Brad Yokley – Owasso Public Schools
Jon Wintle – Owasso Fire Deputy Chief
Larry White – Owasso Support Services Director
Ginger Williamson – Owasso Support Services Department
Dan Miller – Owasso Emergency Management Coordinator
Ryan Merrill – InsideOwasso.com (Part of Merrill Media Group)

3. The minutes from the meeting held on June 11, 2019, were discussed and approved as submitted.

4. Dan Miller led discussion concerning the Citizen Hazard Awareness survey which was put on Facebook, the City of Owasso website, and Next Door social media during the week of July 8 – 12. He said it would be available to the public for two weeks. After the Committee made a quick review of the survey, Jon Wintle mentioned that all houses built after 2010 or 2012 were required to have wall studs and trusses tied to the roofs to make the houses more weather resistant.

5. Dan mentioned he had distributed the proposed new Hazard Mitigation Plan to each of the Committee members for review. He requested that all members provide comments to him before the next Committee meeting. Brad Yokley and Kerwin Koerner from the Owasso Public School System requested further clarification concerning action points from the last plan and for this plan. Dan explained that items accomplished from the last plan should be provided to him for notation in this plan. He said that items which were not accomplished from the last plan would be included in the goals under the new plan. Dan mentioned that the goals for the new plan should be for the next five years.

6. The schedule for the new Hazard Mitigation Plan was discussed. Dan said he planned to schedule a public hearing for the plan after our next Committee meeting in late August. He explained that the public meeting would probably take place at a City Council meeting in September. He further explained that the new plan would then be sent to Oklahoma Emergency Management for approval. Following OEM approval, the new plan would go to FEMA for approval. He stated that once it was approved by all those groups, it would be submitted to the Owasso City Council for approval. Brad Yokley and Kerwin Koerner mentioned that the new plan would also need to be approved by the School Board of Owasso Public Schools at some point.

7. The next meeting of the Owasso Hazard Mitigation Planning Committee was set for Tuesday afternoon, August 20, 2019, at 1:30 p.m. at the Owasso Emergency Management office. Kerwin Koerner and Brad Yokley mentioned that Owasso Public Schools would start classes on Thursday, August 22, so they might not be able to attend on August 20. They said they would provide comments prior to the August 20 meeting.

8. The meeting adjourned at 2:00 p.m.

Respectfully submitted,

Ginger Williamson
City of Owasso
Support Services Department

OWASSO EMERGENCY MANAGEMENT

Topic: Owasso Hazard Mitigation Planning	Date: July 16, 2019
Host Agency: Owasso Emergency Management	Location: 207 S. Cedar Owasso EOC

Name (Please Print)	Jurisdiction/Agency	Phone	E-mail Address
1. Dan Miller	Owasso EM	918 272 3828	DMILLER@CITYOFOWASSO.COM
2. Ginger Williamson	CITY OF OWASSO	918 272-3459	gwilliamson@cityofowasso.com
3. Lanby White	Owasso	918-272-3459	lwhite@cityofowasso.com
4. Kerwin Koerner	Owasso Public Schools	918-698-7715	kerwin.koerner@owassops.org
5. Brad Yokley	Owasso Public Schools	918-899-5246	brad.yokley@owassops.org
6. Travis Blundell	Public Works	918-272-4959	tblundell@cityofowasso.com
7. JON WINTCE	OWASSO FIRE	918-636-4236	JWINTCE@CITYOFOWASSO.COM
8. Ryan Memill	Inside Owasso.com	918-600-7858	ryan@memillmediagroup.com
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City of Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Emergency Management Department
207 South Cedar
Owasso, Oklahoma
August 20, 2019
1:30 p.m.

MEETING CANCELLED DUE TO LACK OF ATTENDANCE

AGENDA

1. Call to order
2. Introductions
3. Review and approve minutes from July 16, 2019.
4. Discussion about the final results of the survey.
5. Discuss final revision of the Hazard Mitigation Plan.
6. Set date and time for next meeting.
7. Adjourn.

OWASSO EMERGENCY MANAGEMENT

Topic: Hazard Mitigation meeting	Date: August 20, 2019
Host Agency: Owasso Emergency Management	Location: Owasso EOC

Name (Please Print)	Jurisdiction/Agency	Phone	E-mail Address
1. DAN Miller	OWASSO EOM		
2. Ginger Williamson	CITY OF OWASSO	918 272-3459	gwilliamson@cityofowasso.com
3.			
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City of Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Emergency Management Department
207 South Cedar
Owasso, Oklahoma
September 24, 2019
1:30 p.m.

AGENDA

1. Call to order
2. Introductions
3. Review and approve minutes from July 16, 2019.
4. Discussion about the final results of the survey.
5. Discuss final revision of the Hazard Mitigation Plan.
6. Set date and time for next meeting. LAST MTG. COVID
7. Adjourn.

Meeting #5 Minutes

Owasso Hazard Mitigation Plan Update Meeting
City of Owasso Office of Emergency Management
207 S. Cedar, Owasso, OK

Minutes of the September 24, 2019, Meeting

1. The meeting was called to order at 1:40 p.m.

2. Those in attendance were:
Kerwin Koerner – Owasso Public Schools
Brad Yokley – Owasso Public Schools
Larry White – Owasso Support Services Director
Ginger Williamson – Owasso Support Services Department
Dan Miller – Owasso Emergency Management Coordinator

3. The minutes from the meeting held on July 16, 2019, were discussed and approved as submitted.

4. Dan Miller led discussion about the final results of the Citizen Hazard Awareness survey which was put on Facebook, the City of Owasso website, and Next Door social media during the week of July 8 – 12. He provided handouts showing the tabulations.

5. Kerwin Koerner and Brad Yokley led discussion about the Action Items submitted by Owasso Public Schools under the Hazard Mitigation Plan for Goal 5 (To enhance pre-disaster and preventions activities).
   - Kerwin explained that back-up generators were needed for all school sites, not just schools. This would include the administration buildings and the building which houses the Ram Academy. Kerwin and Brad discussed the generators in use at the City municipal buildings with Larry White.
   - There was discussion that installation of security cameras had been started but needed to be expanded at the school facilities.
   - It was mentioned that the building of safe structures needed to be continued through the district at all school sites.
   - Kerwin explained there was a need for installation of district-wide communication systems for dissemination of emergency information to the school sites. This communication would reach the students and parents simultaneously via software enhancement. He stated that some of the intercom systems in the district were very old and needed replacement. He mentioned that there was a need for new loud speakers for outdoor areas.
   - Kerwin mentioned that the school system needed to install disaster recovery systems for school servers, firewalls, and redundant internet connections. Installation of dry fire suppression systems in server rooms was also needed.

6. Dan stated that this was the last meeting of this Owasso Hazard Mitigation Planning Committee. He said the Plan was completed. He said he would schedule a public hearing for the Plan during a City Council meeting in October. He mentioned that the new Plan would then be sent to Oklahoma Emergency Management for approval. Following OEM approval, the new Plan would go to FEMA for approval. He stated that

once it was approved by all those groups, it would be submitted to the Owasso City Council for approval. Brad Yokley and Kerwin Koerner mentioned that the new Plan would also need to be approved by the School Board of Owasso Public Schools at some point.

7. The meeting adjourned at 2:15 p.m.

Respectfully submitted,

Ginger Williamson
City of Owasso
Support Services Department

OWASSO EMERGENCY MANAGEMENT

Topic: Hazard Mitigation Meeting	Date: 09/24/19
Host Agency: Owasso Emergency Management	Location: Owasso EOC

Name (Please Print)	Jurisdiction/Agency	Phone	E-mail Address
1. GINGER WILLIAMSON	CITY OF OWASSO/ SUPP SVCS	918-272-3459	gwilliamson@cityofowasso.com
2. Harry White	City of Owasso		
3. Kerwin Koerner	OPS	918-[redacted]928-4009	kerwin.koerner@owassoops.org
4. Brad Yokley	OPS	918-899-5246	brad.yokley@owassops.org
5. DAN Miller	Owasso EM	918 272-3828	DMILLER@CITYOFOWASSO.COM
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Lynch, Donald D.

From:	Lynch, Donald D.
Sent:	Friday, January 5, 2024 4:10 PM
To:	Atchison, Jeff; Beemer, Alexa; Blundell, Travis; Boatman, Nick; Dempster, Michele; Dempster, Brian; Dossett, JJ; Fowler, Jerry; Goldstein, Arami; Henderson, Dwayne; Hurst, David; Kramer, Wendy; Langford, Larry; Mount, Chelle; Neyman, Andrew; Novozinsky, Carly; Stevens, Julie; Stevens, Roger; Woodruff, Jason; Yancey, Dan
Cc:	Garrett, Chris; Lehr, Warren
Subject:	January 18 Hazard Mitigation Planning Team Meeting
Attachments:	January 18 2024 Planning Team Meeting Agenda.doc

This is a reminder that a meeting of the Hazard Mitigation Planning Team is scheduled for 1:30 PM on January 18, 2024 at Old Central. I have attached the meeting agenda for your use.

I have uploaded a copy of the 2014 version of the plan to O: All City/EOC Temp/ 2014 Hazard Mitigation Plan for your review.

I look forward to seeing you on the 18th!

Thanks for you participation in this project and Happy Weekend!

Respectfully,

Donald Lynch, M.P.A. C. E. M.
Emergency Management Specialist
City of Owasso
P.O. Box 180
Owasso, OK 74055
Office 918-272-3828
e-Mail: dlynch@cityofowasso.com

EMERGENCY MANAGEMENT
Public Safety-Public Trust

2/6/2024

2024 City of Owasso and Owasso Public Schools Hazard Mitigation Plan Update

WHY THIS PLAN IS IMPORTANT FOR OUR COMMUNITY

Mitigation is any action taken to reduce or eliminate long term risk to people and property from both natural and human - caused disasters.

According to FEMA, for every $1.00 spent towards pre - disaster mitigation efforts, we save $4.00 in post - disaster recovery actions.

Mitigation Is an Investment

- Mitigation is an investment to:
  - Prevent human injury and loss of life.
  - Protect community assets (structural/infrastructural, historic and cultural).
  - Reduce costs of disaster response and recovery.
  - Support what matters to your community.



FEMA

2/6/2024

COVERING THE BASES FOR GRANT FUNDING

This plan is a prerequisite from FEMA for mitigation grant funding. Additionally, items MUST be in the plan for eligibility for Federal Hazard Mitigation Assistance.

FEMA Funding Programs

Flood Mitigation Assistance Grant

Section 404 (HMGP) Grants

Section 406 (PA) Grants

Building Resilient Infrastructure and Communities Grants

Other Funding Sources

- CDBG
- General Revenue
- Transportation Project Funds

HAZARD MITIGATION MEETING

OWASSO
Real People • Real Character • Real Community

NAME	DEPARTMENT
Lori Lane	OSNI
Duane Henderson	PW
Wendy Kramer	CD
Alexa Beemer	CD
Brian Dempster	CD
Roger Stevens	PW

HAZARD MITIGATION MEETING

OWASSO
Real People • Real Character • Real Community

NAME	DEPARTMENT
Michelle Mount	IT
Andrew Neyman	IT
Carly Novozinsky	Finance
J. J. Dossett	Manag

HAZARD MITIGATION MEETING

OWASSO

Real People • Real Character • Real Community

NAME	DEPARTMENT
Marlc Knowlton	Owasso Public Schools
Brad Yokley	" " "
W Atchison	City of Owasso HR
Train Blundell	Public Works

EMERGENCY MANAGEMENT
Public Safety, Public Trust

P.O. Box 180
207 South Cedar Street
Owasso, OK 74055-0180
Telephone (918) 272-3828
Facsimile (918) 272-1685
www.cityofowasso.com/emergency management

HAZARD MITIGATION PLAN UPDATE
PLANNING TEAM MEETING AGENDA

February 8, 2024
1:30 PM
Old Central Auditorium
109 North Birch Street
Owasso, Oklahoma

1. Call to Order
2. Announcements
3. Introduction of Planning Team Members
4. Overview of the Planning Process
5. Review and Update to Jurisdiction Description
6. For the Next Meeting
7. Adjournment

Respectfully Submitted,

Donald D. Lynch

Donald D. Lynch
Emergency Management Specialist

City of Owasso and Owasso Public Schools
Hazard Mitigation Planning Team

Meeting Minutes

February 8, 2024 at 1:30 PM
Old Central Building Auditorium
109 North Birch Street
Owasso, Oklahoma 74055

The meeting was called to order at 1:30 PM by Don Lynch, Owasso Emergency Management Specialist.

There were no announcements.

Members in attendance were:

Jeff Atchison	Risk Manager- City of Owasso
Alexa Beemer	Planning Manager, City of Owasso
Travis Blundell	Asst Public Works Director, City of Owasso
Nick Boatman	Lieutenant, Owasso Police Department
Brian Dempster	Community Development Director, City of Owasso
J J Dossett	Assistant to the City Manager, City of Owasso
Jerry Fowler	Strong Neighborhoods Coordinator, City of Owasso
Arami Goldstein	Assistant Chief, Owasso Fire Department
David Hurst	Chief, Owasso Fire Department
Wendy Kramer	City Planner, City of Owasso
Donald Lynch	Emergency Management Specialist, City of Owasso
Michelle Mount	GIS Specialist, City of Owasso
Andrew Neyman	Information Technology Director, City of Owasso
Carly Novozinsky	Finance Director, City of Owasso
Julieann Stevens	City Clerk, City of Owasso
Roger Stevens	Public Works Director, City of Owasso
Jason Woodruff	Deputy Chief, Owasso Police Department
Dan Yancey	Chief, Owasso Police Department
Brad Yokley	Director of Operations, Owasso Public Schools

Lynch gave a PowerPoint presentation that provided an overview of the planning process. A copy of the "handouts" pages is attached.

Page 2

For their review, the group was given a copy of the current draft of the jurisdiction description that will be embedded in Chapter 1 of the plan. Lynch noted that the following items remained to be added:

- Household Monthly Income demographic
- Occupied and vacant housing units demographic
- Owned and rented housing units demographic
- Modes of transportation
- Child poverty rates demographic
- Seniors poverty rates demographic

Members were asked to submit any other items that would like to be included to Lynch via e-mail.

As a plenary group activity, members used the Hazards Summary Worksheet to identify which hazards can affect the community. Hazards identified were:

- Dam Failure
- Drought
- Earthquake
- Erosion
- Expansive Soils
- Extreme Cold
- Extreme Heat
- Flood
- Hail
- Landslide
- Lightning
- Severe Wind
- Severe Winter Weather
- Tornado
- Wildfire

Lynch requested the following details from Owasso Public Schools:

- Number of students on Individualized Education Plans
- Number of students of free/reduced price lunches
- Number of students with deployed military parents
- General building stock values
- Repetitive loss properties

Lynch informed the group that the current edition of the plan is available for viewing on the City website's Emergency Management homepage.

Page 3

'It was announced by Lynch that public meetings were scheduled for 1:30 PM and again at 6:00 PM on April 30, 2024 at Old Central and that a Survey was being drafted to garner public input into the process.

In preparation for the next meeting the group was tasked to:

- Provide Lynch with anything we need toad or revise on our jurisdiction description
- Be thinking about the hazards analysis in terms of the scope and consequences
- Determine what projects from the current edition of the plan need updated and any new projects that need added

The next meeting is scheduled for: March 21, 2024 at !:30 in the City Hall Community Room.

The meeting was adjourned at 2:45 PM.

Respectfully Submitted,

Donald D. Lynch

Hazard Mitigation Planning Team Meeting					
2/8/2024					
First Name	**Last Name**	**Organization**	**Organization 2**	**e-Mail**	
Jeff	Atchison	City of Owasso	Risk Manager	jatchison@cityofowasso.com	
Alexa	Beemer	City of Owasso	Planning Manager	abeemer@cityofowasso.com	
Travis	Blundell	City of Owasso	Assistant Public Works Director	Tblundell@cityofowasso.com	
Nick	Boatman	City of Owasso	Police Department	Nboatman@cityofowasso.com	
Margaret	Coates, PhD.	Owasso Public Schools	Superintendent of Schools	margaret.coats@owassops.org	
Paul	Croft	Owasso Public Schools	Director of Safety and Security	paul.croft@owassops.org	
Brian	Dempster	City of Owasso	Community Development Director	Bdempster@cityofowasso.com	
Michele	Dempster	City of Owasso	Human Resources Director	mdempster@cityofowasso.com	
JJ	Dossett	City of Owasso	Assistant To The City Manager	jjdossett@cityofowasso.com	
Jerry	Fowler	City of Owasso	Strong Neighborhoods Coordinator	jfowler@cityofowasso.com	

Chris	Garrett	City of Owasso	Assistant City Manager	Cgarrett@cityofowasso.com
Arami	Goldstein	City of Owasso	Assistant Fire Chief	Agoldstein@cityofowasso.com
Dwayne	Henderson	City of Owasso	Floodplain Manager	Dhenderson@cityofowasso.com
David	Hurst	City of Owasso	Fire Chief	Dhurst@cityofowasso.com
Wendy	Kramer	City of Owasso	City Planner	wkramer@cityofowasso.com
Larry	Langford	City of Owasso	Culture and Recreation Director	Llangford@cityofowasso.com
Warren	Lehr	City of Owasso	City Manager	Wlehr@cityofowasso.com
Donald	Lynch	City of Owasso	Emergency Management Specialist	dlynch@cityofowasso.com
Michelle	Mount	City of Owasso	GIS Specialist	Mmount@cityofowasso.com
Andrew	Neyman	City of Owasso	Information Technology Director	Aneyman@cityofowasso.com
Carly	Novozinsky	City of Owasso	Finance Director	Cnovozinsky@cityofowasso.com

Roger	Stevens	City of Owasso	Public Works Director	Rstevens@cityofowasso.com
Julieann	Stevens	City of Owasso	City Clerk	Jstevens@cityofowasso.com
Julie	Trout-Lombardi	City of Owasso	City Attorney	Jtrout-lombardi@cityofowasso.com
Jason	Woodruff	City of Owasso	Assistant Police Chief	Jwoodruff@cityofowasso.com
Daniel	Yancey	City of Owasso	Police Chief	Dyancey@cityofowasso.com
Brad	Yokley	Owasso Public Schools	Director of Operations	brad.yokley@owassops.org

EMERGENCY MANAGEMENT
Public Safety, Public Trust

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Telephone (918) 272-3828
Facsimile (918) 272-1685
www.cityofowasso.com/emergency management

HAZARD MITIGATION PLAN UPDATE
PLANNING TEAM MEETING AGENDA

March 21, 2024
1:30 PM
City Hall Community Room
200 South Main Street
Owasso, Oklahoma

1. Call to Order
2. Announcements
3. Review of Public Survey
4. Development of Mitigation Strategy
5. Review and Update Status of Projects in Previous Plan Editions
6. New Mitigation Projects to Add
7. Future Meetings
   April 18- Joint Meeting of Planning Team and Stakeholders
   May 7- Planning Team Meeting
8. Adjournment

Respectfully Submitted,

Donald D. Lynch

Donald D. Lynch
Emergency Management Specialist

PLEASE INITIAL BESIDE YOUR NAME

THANKS!

	Salutation	First Name	Last Name	Organization	Organization 2	Address	City	State	ZIP
	Mr.	Jeff	Atchison	City of Owasso	Risk Manager	200 South Main Street	Owasso	OK	74055
	Ms.	Alexa	Beemer	City of Owasso	Planning Manager	200 South Main Street	Owasso	OK	74055
TB.	Mr.	Travis	Blundell	City of Owasso	Assistant Public Works Director	200 South Main Street	Owasso	OK	74055
	Lieutenant	Nick	Boatman	City of Owasso	Police Department	111 North Main Street	Owasso	OK	74055
	Dr.	Margaret	Coates, PhD.	Owasso Public Schools	Superintendent of Schools	1501 North Ash Street	Owasso	OK	74055
	Dr.	Margaret	Coates, PhD.	Owasso Public Schools	Superintendent of Schools	1501 North Ash Street	Owasso	OK	874055
	Mr.	Paul	Croft	Owasso Public Schools	Director of Safety and Security	501 East 2nd Avenue	Owasso	OK	74055
	Mr.	Brian	Dempster	City of Owasso	Community Development Director	200 South Main Street	Owasso	OK	74055
	Ms.	Michele	Dempster	City of Owasso	Human Resources Director	200 South Main Street	Owass0	OK	74055
	Mr.	JJ	Dossett	City of Owasso	Assistant To The City Manager	200 South Main Street	Owasso	OK	74055
	Mr.	Jerry	Fowler	City of Owasso	Strong Neighborhoods Coordinator	200 South Main Street	Owasso	OK	74055
	Mr.	Chris	Garrett	City of Owasso	Assistant City Manager	200 South Main Street	Owasso	OK	74055
	Chief	Arami	Goldstein	City of Owasso	Assistant Fire Chief	11933 East 116th Street North	Collinsville	OK	74021
	Mr.	Dwayne	Henderson	City of Owasso	Floodplain Manager	200 South Main Street	Owasso	OK	74055
DH	Chief	David	Hurst	City of Owasso	Fire Chief	11933 East 116th Street North	Collinsville	OK	74021
WK	Ms.	Wendy	Kramer	City of Owasso	City Planner	200 South Main Street	Owasso	OK	74055

Mr.	Larry	Langford	City of Owasso	Culture and Recreation Director	200 South Main Street	Owassao	OK	74055
Mr.	Warren	Lehr	City of Owasso	City Manager	200 South Main Street	Owasso	OK	74055
Mr.	Donald	Lynch	City of Owasso D.S.	Emergency Management Specialist	200 South Main Street	Owasso	OK	74055
Ms.	Michelle	Mount	City of Owasso	GIS Specialist	200 South Main Street	Owasso	OK	74055
Mr.	Andrew	Neyman	City of Owasso	Information Technology Director	200 South Main Street	Owasso	OK	74055
Ms.	Carly	Novozinsky	City of Owasso CN	Finance Director	200 South Main Street	Owasso	OK	74055
Mr.	Roger	Stevens	City of Owasso R.S.	Public Works Director	200 South Main Street	Owasso	OK	74055
Ms.	Julieann	Stevens	City of Owasso	City Clerk	200 South Main Street	Owasso	OK	74055
Ms.	Julie	Trout-Lombardi	City of Owasso	City Attorney	200 South Main Street	Owasso	OK	74055
Chief	Jason	Woodruff	City of Owasso	Assistant Police Chief	111 North Main Street	Owasso	OK	74055
Chief	Daniel	Yancey	City of Owasso	Police Chief	111 North Main Street	Owasso	OK	74055
Mr.	Brad	Yokley	Owasso Public Schools	Director of Operations	501 East 2nd Avenue	Owasso	OK	74055

Lynch, Donald D.

From: Fowler, Jerry
Sent: Friday, April 12, 2024 2:10 PM
To: Lynch, Donald D.
Subject: RE: Hazard Mitigation Survey

Just posted on Nextdoor – 22,000 members on it within our fence line.
Will post on OSNI Facebook as well.

Jerry Fowler
Owasso Neighborhood Coordinator
200 South Main St, Owasso, OK 74055
918-376-1556
Owasso Strong Neighborhood Initiative

From: Lynch, Donald D. <dlynch@CityOfOwasso.com>
Sent: Friday, April 12, 2024 2:08 PM
To: Fowler, Jerry <jfowler@CityOfOwasso.com>
Subject: RE: Hazard Mitigation Survey

P.S. Sending it to individuals also would be great! Thanks! DL

From: Fowler, Jerry <jfowler@CityOfOwasso.com>
Sent: Friday, April 12, 2024 2:06 PM
To: Lynch, Donald D. <dlynch@CityOfOwasso.com>
Subject: RE: Hazard Mitigation Survey

Yes, Sir – that will work.

Will get it Posted.

Jerry Fowler
Owasso Neighborhood Coordinator
200 South Main St, Owasso, OK 74055
918-376-1556
Owasso Strong Neighborhood Initiative

EMERGENCY MANAGEMENT
Public Safety, Public Trust

P.O. Box 180
207 South Cedar Street
Owasso, OK 74055-0180
Telephone (918) 272-3828
Facsimile (918) 272-1685
www.cityofowasso.com/emergency management

HAZARD MITIGATION PLAN UPDATE
PLANNING TEAM MEETING AGENDA

June 20, 2024
1:30 PM
City Hall Community Room
200 South Main Street
Owasso, Oklahoma

1. Call to Order
2. Announcements
3. Review of Mitigation Strategy
    a. Assignment of STAPLEE Method Score to Action Items
    b. Assignment of Implementation Priority Score to Action Items
4. Announcements concerning meeting with Stakeholders on July 25, 2024
5. Adjournment

Respectfully Submitted,

Donald D. Lynch

Donald D. Lynch
Emergency Management Specialist

HAZARD MITIGATION PLANNING TEAM MEETING
JUNE 20, 2024 1:30 - 3:30 PM
CITY HALL COMMUNITY ROOM
PLEASE INITIAL BELOW YOUR NAME

Salutation	First Name	Last Name	Organization	Organization 2	Address	City	State	ZIP
Mr.	Jeff	Atchison	City of Owasso	Risk Manager	200 South Main Street	Owasso	OK	74055
Ms. PB	Alexa	Beemer	City of Owasso	Planning Manager	200 South Main Street	Owasso	OK	74055
Mr.	Travis	Blundell	City of Owasso	Assistant Public Works Director	200 South Main Street	Owasso	OK	74055
Lieutenant	Nick	Boatman	City of Owasso	Police Department	111 North Main Street	Owasso	OK	74055
Dr.	Margaret	Coates, PhD.	Owasso Public Schools	Superintendent of Schools	1501 North Ash Street	Owasso	OK	874055
Mr.	Paul	Croft	Owasso Public Schools	Director of Safety and Security	501 East 2nd Avenue	Owasso	OK	74055
Mr. BD	Brian	Dempster	City of Owasso	Community Development Director	200 South Main Street	Owasso	OK	74055
Ms.	Michele	Dempster	City of Owasso	Human Resources Director	200 South Main Street	Owass0	OK	74055
Mr.	JJ	Dossett	City of Owasso	Assistant To The City Manager	200 South Main Street	Owasso	OK	74055
Mr.	Jerry	Fowler	City of Owasso	Strong Neighborhoods Coordinator	200 South Main Street	Owasso	OK	74055
Mr.	Chris	Garrett	City of Owasso	City Manager	200 South Main Street	Owasso	OK	74055
Chief	Arami	Goldstein	City of Owasso	Assistant Fire Chief	11933 East 116th Street North	Collinsville	OK	74021
Mr.	Dwayne	Henderson	City of Owasso	Floodplain Manager	200 South Main Street	Owasso	OK	74055
Chief DH	David	Hurst	City of Owasso	Fire Chief	11933 East 116th Street North	Collinsville	OK	74021
Mr. MK	Mark	Knowlton	Owasso Public Schools	Director of Construction	501 East 2nd Avenue	Owasso	Ok	74055
Mr.	Kerwin	Koerner	Owasso Public Schools	Assistant Superintendent of Schools	1501 North Ash Street	Owasso	OK	74055

Ms.	WK	Wendy	Kramer	City of Owasso	City Planner	200 South Main Street	Owasso	OK	74055
Mr.		Larry	Langford	City of Owasso	Culture and Recreation Director	200 South Main Street	Owassao	OK	74055
Mr.		Donald	Lynch	City of Owasso	Emergency Management Specialist	200 South Main Street	Owasso	OK	74055
Ms.		Michelle	Mount	City of Owasso	GIS Specialist	200 South Main Street	Owasso	OK	74055
Mr.		Andrew	Neyman	City of Owasso	Information Technology Director	200 South Main Street	Owasso	OK	74055
Ms.	CN	Carly	Novozinsky	City of Owasso	Finance Director	200 South Main Street	Owasso	OK	74055
Mr.		Roger	Stevens	City of Owasso	Public Works Director	200 South Main Street	Owasso	OK	74055
Ms.		Julieann	Stevens	City of Owasso	City Clerk	200 South Main Street	Owasso	OK	74055
Ms.		Julie	Trout-Lombardi	City of Owasso	City Attorney	200 South Main Street	Owasso	OK	74055
Chief		Jason	Woodruff	City of Owasso	Assistant Police Chief	111 North Main Street	Owasso	OK	74055
Chief		Daniel	Yancey	City of Owasso	Police Chief	111 North Main Street	Owasso	OK	74055
Mr.		Brad	Yokley	Owasso Public Schools	Director of Operations	501 East 2nd Avenue	Owasso	OK	74055

MS. LORI LANE CITY OF OWASSO STRONG NEIGHBORHOODS 200 S. MAIN OWASSO OK 74055
ADMIN. COORDINATOR
FOR JERRY FOWLER

Robert Allison for Roger Stevens

Appendix 3:
HMP Public Hearing

RECEIVED
MAR 01 2024
City Clerk's Office

NOTICE OF PUBLIC HEARINGS

DATE: April 30, 2024
TIMES: 1:30 PM and 6:30PM
PLACE: City of Owasso Old Central Building Auditorium, 109 North Birch Avenue

Notice filed in the office of the City Clerk and posted on the City Hall Bulletin Board at 3:00pm on Friday, March 1, 2024.

Juliann M. Stevens, City Clerk

The City of Owasso and Owasso Public Schools are in the process of updating their Multi-Jurisdictional Hazard Mitigation Plan.

Mitigation has many tangible benefits for communities including: preventing injuries and loss of life; protecting community assets; reducing disaster response and recovery costs; and supporting the assets that matter most to a community.

Public Hearings will be held at the date, times, and location listed above. Citizens of Owasso and patrons of the Owasso Public School District are invited to attend and provide feedback.
A briefing on the update process and an opportunity for public questions on the plan will be conducted at these meetings.

The current Hazard Mitigation Plan is available for viewing at: https://www.cityofowasso.com/DocumentCenter/View/8780/2014-Hazard-Mitigation-Plan?bidId=

The Point of Contact for this process is Donald Lynch, Emergency Management Specialist for the City of Owasso. City of Owasso, ATTN: Donald Lynch, Emergency Management, P.O. Box 180, Owasso, OK 74055; at 918-272-3828 or at dlynch@cityofowasso.com.

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Facsimile (918) 272-1685
www.cityofowasso.com/emergency management

HAZARD MITIGATION PLAN UPDATE
PUBLIC HEARINGS AGENDA

April 30, 2024
1:30 PM and 6:30 PM
Old Central Auditorium
109 North Birch
Owasso, Oklahoma 74055

1. Call to Order
2. Announcements
3. Review of Purpose and Mitigation Strategy
4. Review of Public Survey
5. Public Comments and Questions
6. Adjournment

Respectfully Submitted,

Donald D. Lynch

Donald D. Lynch
Emergency Management Specialist

EMERGENCY MANAGEMENT
Public Safety, Public Trust

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Owasso, OK 74055-0180
Telephone (918) 272-3828
Facsimile (918) 272-1685
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HAZARD MITIGATION PLAN UPDATE
PUBLIC HEARING MINUTES

April 30, 2024
1:30 PM
Old Central Auditorium
109 North Birch
Owasso, Oklahoma 74055

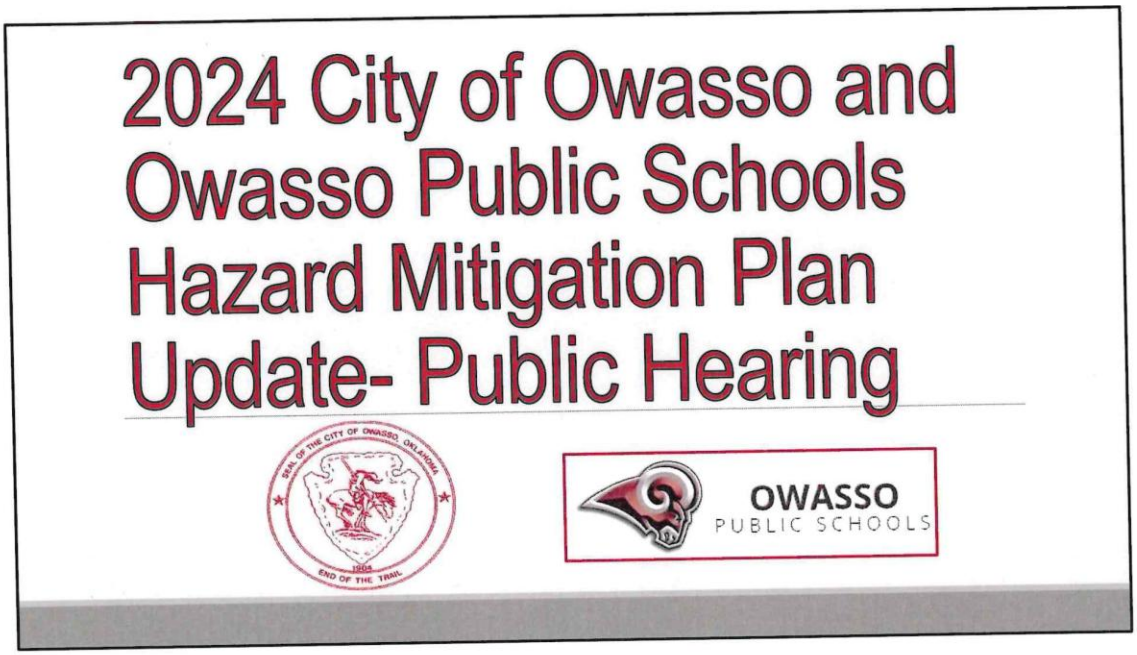
The hearing was called to order at 1:30 PM by Donald D. Lynch, Emergency Management Specialist.

There being no attendance, the hearing was closed.

Respectfully Submitted,

Donald D. Lynch

Donald D. Lynch
Emergency Management Specialist


2024 City of Owasso and
Owasso Public Schools
Hazard Mitigation Plan
Update- Public Hearing
OWASSO
PUBLIC SCHOOLS

1

WHY THIS PLAN IS IMPORTANT FOR OUR COMMUNITY

Mitigation is any action taken to reduce or eliminate long term risk to people and property from both natural and human - caused disasters.

According to FEMA, for every $1.00 spent towards pre-disaster mitigation efforts, we save $4.00 in post-disaster recovery actions.

- It is estimated that for every $1.00 spent towards pre-disaster mitigation actions, a community save roughly $4.00 in post-disaster recovery efforts.
- This is especially considering that a community is NOT guaranteed that FEMA will assist in recovery efforts after an event occurs. The event has to be Presidentially declared, and there is a state-wide threshold to meet before that happens.

COVERING THE BASES FOR GRANT FUNDING

This plan is a prerequisite from FEMA for mitigation grant funding. Additionally, items MUST be in the plan for eligibility for Federal Hazard Mitigation Assistance.

FEMA Funding Programs

Flood Mitigation Assistance Grant

Section 404 (HMGP) Grants

Section 406 (PA) Grants

Building Resilient Infrastructure and Communities Grants

Since the National Flood Insurance Reform Act of 1994 was signed into law, Federal funds have been used for projects that reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program. FEMA chooses recipients based on the applicant's ranking of the project, eligibility, and cost effectiveness of the project. 1.8 billion dollars have bene allocated to this program for FCY 2024.

Section 404 grant funding is used to protect undamaged parts of a facility or to prevent or reduce damages caused by future disasters. the 404 grant is managed by the state underfunding provided for in the Stafford Act. The State receives a percentage of the total Federal Share of the declared public Assistance damage amount (currently 20%) and can use the funds anywhere in the state, regardless of where the declared disaster occurred or the disaster type.

The Section 406 grant program is managed by the State under funding provided for in the Stafford Act for use in conjunction with Public Assistance repair funds for projects that were damaged, so it is limited to declared counties and eligible damaged facilities.

The Building Resilient Infrastructure and Communities Program supports State, Tribal, and local governments as they undertake hazard mitigation projects . The guiding principles are capability and capacity building; encouraging and enabling innovation; promoting partnerships; enabling large infrastructure projects; maintaining flexibility; and providing consistency. FEMA selects projects to be funded under this program. 800 million dollars is available in FY 24 grant program.

Other Funding Sources

CDBG

General Revenue

TransportationProject Funds

OUR PLANNING HISTORY

The City of Owasso and Owasso Public Schools joined forces in 2004 to create a plan that would serve both jurisdictions. A Hazard Mitigation Planning Team was formed to provide guidance and review during the preparation of the plan. The initial plan was adopted in August, 2004.

An updated version of the plan was adopted in July, 2014.

An update was stated in 2019 with 5 Planning Team meetings held. Before an update could be completed, personnel changed and the COVID Pandemic swept across the nation bringing in- person meetings to a stop.

UPDATE THE PLAN EVERY FIVE YEARS

The latest edition of our Hazard Mitigation Plan was adopted in 2014.

FEMA requires the plan must be updated every five years to account for changes in development, vulnerabilities, and progress on mitigation activities.

STEPS IN THE PLANNING PROCESS

- Build a Planning Team
- Create an Outreach Strategy
- Assess Hazards, Risks, and Capabilities
- Develop the Plan
- Keep the Plan Current

PLANS ARE BASED ON HAZARD AND VULNERABILITY ANALYSIS

Currently, there are eleven identified hazards in our plan, which include:

Dam Failure; Damaging Wind; Drought; Earthquake; Extreme Heat; Flooding; Hail; Lightning; Tornado; Wildfire; and Winter Storm

Current guidance suggests combining Damaging Wind; Hail; and Lightning into a Severe Thunderstorm category.

- Currently, there are 11 natural hazards that have been identified as posing a risk to Owasso in our plan.
- FEMA only requires natural hazards to be addressed for this plan to pass.
- Technological and national security events are not a requirement at this time.
- Therefore, we are only going to focus on the 9 identified natural hazards for now.
- As time and resources allow, additional hazards may be added in the future.

STRATEGY: design, develop, conduct, evaluate, and update:

1. Prevent certain hazard conditions from occurring or getting worse.
2. Implement structural activities that will mitigate damage and losses.
3. Modify existing infrastructure, buildings and property uses that are currently subject to damage.
4. Enhance public information and education.
5. Protect people via emergency services activities such as threat recognition, warning response, protective actions, and post-event recovery.

GOALS

- To increase city-wide ability to protect public safety and reduce losses from disasters and emergencies
- To enhance public awareness and understanding ofhazard mitigation to influence the public to undertake mitigation measures for their property
- To reduce repetitive flooding in floor-prone areas in the city of Owasso
- Build and support partnerships to enhance mitigation activities
- Undertake measures to protect existing structures from the effects of hazards affecting the community

PROJECT CATEGORIES

Local Plans and Regulations: Government authorities, policies, or codes that influence the way that land and buildings are developed and maintained.
Structure and Infrastructure: Projects that modify existing infrastructure to remove it from a hazard area or construct new structures to reduce impacts of hazards.
Natural Systems Protection: Actions that minimize damage and losses by preserving or restoring the functions of natural systems.
Education and Awareness Programs: Sustained programs to educate the public and decision-makers about hazard risks and community mitigation programs.

CITY OF OWASSO PROJECTS

- Evaluate, Upgrade, and maintain Outdoor Warning System
- Provide emergency power generators and related equipment for critical facilities
- Install lightning warning systems in parks

CITY OF OWASSO PROJECTS

- Upgrade construction of older facilities when damaged.
- Incorporate Xeriscaping, native species, and natural wetlands solutions into stormwater mitigation projects.
- Work with partners to implement a residential safe-room program.
- Coordinate with dam owners to update EAPs.

CITY OF OWASSO PROJECTS

- Provide neighborhood CERT training and supplies.
- Construct lightning rods, and other equipment to protect public and critical facilities.
- Acquire repetitive flood loss properties.
- Develop methods to mitigate power infrastructure failure/disruption.

CITY OF OWASSO PROJECTS

- Redesign and rebuild roadways that have been damaged or frequently flood to mitigate against future events.
- Design, develop, and conduct hazard awareness and prevention campaigns.
- Construct an additional fire station to serve the eastern part of the City.
- Develop a system of public emergency heating/cooling stations.

CITY OF OWASSO PROJECTS

- Put hail guards on HVAC systems or City facilities.
- Continue drainage improvements in neighborhoods.
- Cooperate with partners to develop landslide related mitigation measures.
- Obtain master UPS systems for critical facilities.

CITY OF OWASSO PROJECTS

- Create shelters to keep hail/snow off of City vehicles parked outside to reduce response time.
- Obtain mobile command/communications vehicle.
- Develop a City Drought Management Plan
- Update the City's Stormwater Drainage Master Plan.
- Incorporate life-line planning into mitigation projects.

OWASSO PUBLIC SCHOOLS PROJECTS

- Continuewithwater-savingfixtures
- Energy-efficientwindowreplacement
- "Allmedia"information program
- Retrofittingschoolgymsintosaferooms
- Next Phase of keyless entry

OWASSO PUBLIC SCHOOLS PROJECTS

- Backup power generators
- Redundant IT Hub Site
- Enhance2-way communications Equipment
- Roofing Systems upgrades for each site
- Protective Walkways for School Campuses

PUBLIC SURVEY

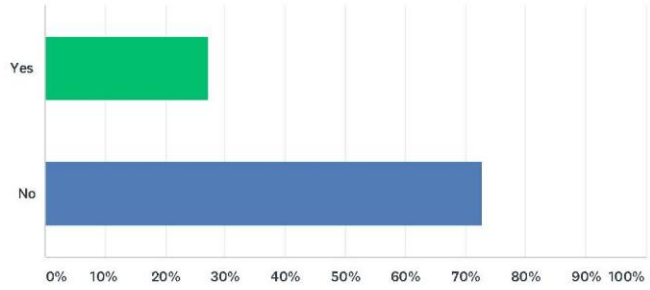
https://www.surveymonkey.com/r/HazardMitigation

Appendix 4:
Owasso Hazard Mitigation Survey

Owasso Hazard Mitigation

Q1 Has your current residence ever been damaged by a disaster in Owasso?

Answered: 224 Skipped: 1

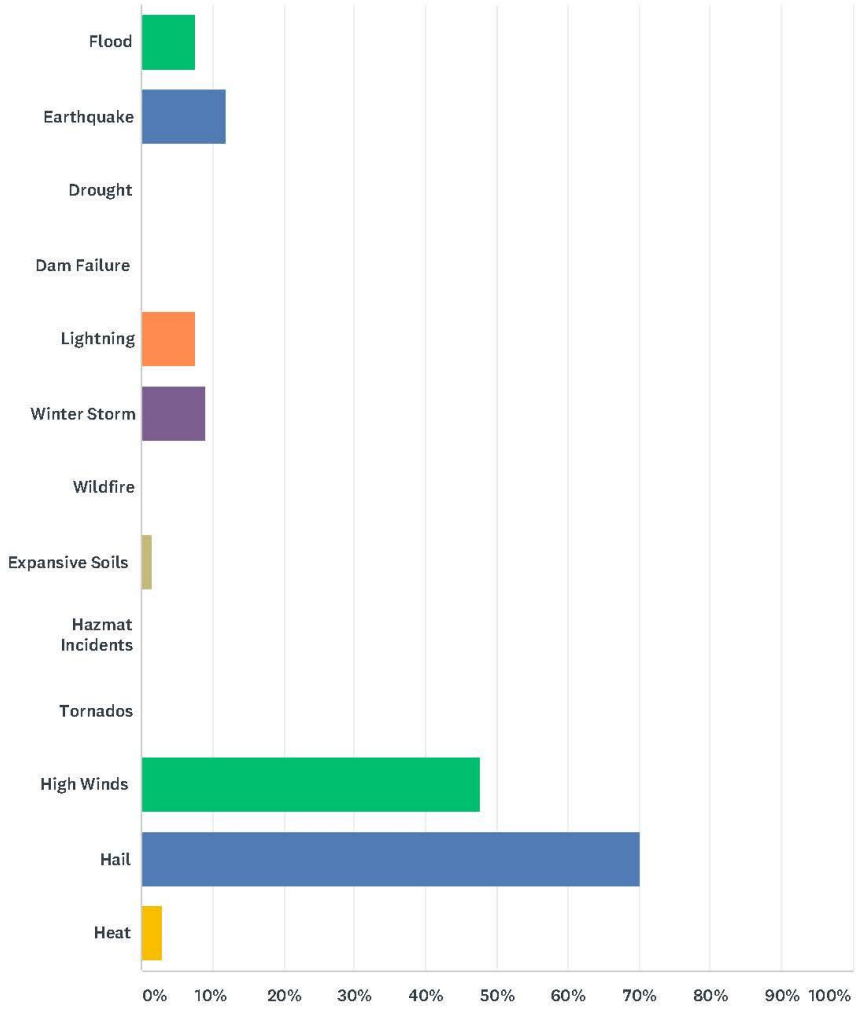


ANSWER CHOICES	RESPONSES	
Yes	27.23%	61
No	72.77%	163
TOTAL		224

Owasso Hazard Mitigation

Q2 If you answered Yes to Question 1, what type of disaster damaged your residence? (Select all that apply)

Answered: 67 Skipped: 158



ANSWER CHOICES	RESPONSES	
Flood	7.46%	5
Earthquake	11.94%	8
Drought	0.00%	0
Dam Failure	0.00%	0
Lightning	7.46%	5

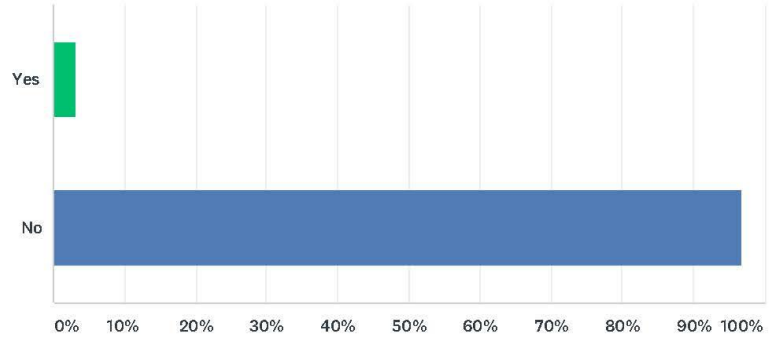
Owasso Hazard Mitigation

Winter Storm	8.96%	6
Wildfire	0.00%	0
Expansive Soils	1.49%	1
Hazmat Incidents	0.00%	0
Tornados	0.00%	0
High Winds	47.76%	32
Hail	70.15%	47
Heat	2.99%	2
Total Respondents: 67		

Owasso Hazard Mitigation

Q3 Prior to this survey, were you aware of the Owasso Hazard Mitigation Plan?

Answered: 220 Skipped: 5

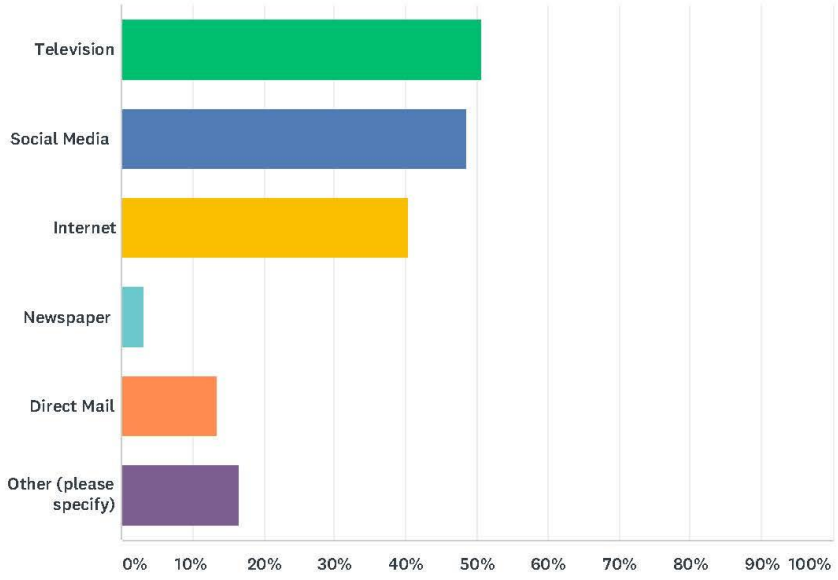


ANSWER CHOICES	RESPONSES	
Yes	3.18%	7
No	96.82%	213
TOTAL		220

Owasso Hazard Mitigation

Q4 What is the most effective way you receive information to make your home safer from natural disasters?

Answered: 225 Skipped: 0



ANSWER CHOICES	RESPONSES	
Television	50.67%	114
Social Media	48.44%	109
Internet	40.44%	91
Newspaper	3.11%	7
Direct Mail	13.33%	30
Other (please specify)	16.44%	37
Total Respondents: 225		

#	OTHER (PLEASE SPECIFY)	DATE
1	Text Message	8/1/2019 4:30 AM
2	Radio Braodcast	7/25/2019 4:34 PM
3	Text	7/24/2019 1:13 PM
4	Text messaging	7/24/2019 1:48 AM
5	Phone alert	7/22/2019 1:39 PM
6	Text messaging or auto-calls	7/22/2019 12:27 PM
7	Emergency Texts Messages	7/22/2019 11:44 AM

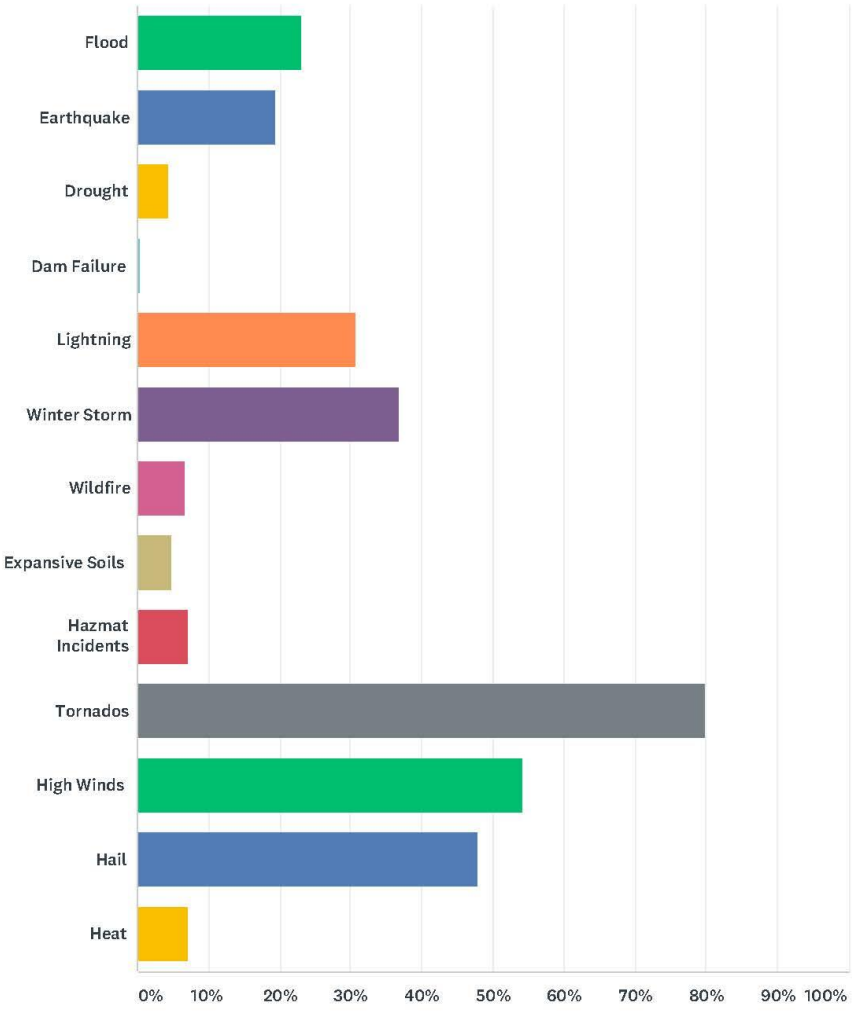
Owasso Hazard Mitigation

8	Please stop using Facebook as your only social media presence. Post the same things to your website, in a dedicated area. We don't Facebook, and we won't because their privacy policies suck.	7/22/2019 8:33 AM
9	text Messages	7/17/2019 3:22 PM
10	email newsletter	7/17/2019 12:53 PM
11	Email	7/17/2019 7:54 AM
12	Twitter or news apps	7/17/2019 1:38 AM
13	Text alerts	7/16/2019 5:39 PM
14	Text for emergencies	7/16/2019 4:00 PM
15	Text message	7/16/2019 3:10 PM
16	Text	7/16/2019 9:02 AM
17	Next door is good, now that i'm starting to use it more	7/16/2019 8:40 AM
18	Text/call	7/16/2019 8:28 AM
19	Text	7/16/2019 7:40 AM
20	PHONE APPS	7/16/2019 7:20 AM
21	Text message	7/16/2019 7:14 AM
22	Nextdoor	7/16/2019 6:32 AM
23	Chamber of Commerce	7/16/2019 6:15 AM
24	Text messages	7/16/2019 5:58 AM
25	Nextdoor Application	7/16/2019 5:47 AM
26	Cell phone aleart	7/16/2019 5:28 AM
27	Email or text message	7/16/2019 5:24 AM
28	Text	7/16/2019 5:14 AM
29	Text	7/16/2019 4:51 AM
30	Email	7/16/2019 4:51 AM
31	Text alerts	7/16/2019 4:48 AM
32	Radio	7/16/2019 4:47 AM
33	email	7/16/2019 1:26 AM
34	Cell phone	7/15/2019 3:10 PM
35	Owassoisms website	7/15/2019 2:18 PM
36	Text	7/15/2019 12:46 PM
37	Texts	7/15/2019 12:35 PM

Owasso Hazard Mitigation

Q5 The following hazards are among those which could potentially impact the City of Owasso. Please mark three (3) hazards that are of the most concern to your neighborhood or home.

Answered: 225 Skipped: 0



ANSWER CHOICES	RESPONSES	
Flood	23.11%	52
Earthquake	19.56%	44
Drought	4.44%	10
Dam Failure	0.44%	1

Owasso Hazard Mitigation

Lightning	30.67%	69
Winter Storm	36.89%	83
Wildfire	6.67%	15
Expansive Soils	4.89%	11
Hazmat Incidents	7.11%	16
Tornados	80.00%	180
High Winds	54.22%	122
Hail	48.00%	108
Heat	7.11%	16
Total Respondents: 225		

Owasso Hazard Mitigation

Q6 Please list any additional hazards that present a threat to your home or neighborhood.

Answered: 63 Skipped: 162

#	RESPONSES	DATE
1	Heavy storms flood three of five entrances.	8/19/2019 12:22 PM
2	Speeding teenagers.	8/15/2019 9:09 AM
3	High winds	8/4/2019 9:52 AM
4	Ice Storms/Winter Storms, Airport incidents at Tulsa International or Gundy's airport on 76th St. N.	8/1/2019 4:30 AM
5	People setting off explosives on their private, unincorporated property which is very near the Fairways at Bailey Ranch.	7/25/2019 2:51 AM
6	not sure of others	7/23/2019 10:17 AM
7	None	7/23/2019 12:47 AM
8	Fire	7/22/2019 5:46 PM
9	Tornado, earthquake	7/22/2019 2:34 PM
10	Flash flood from Elm Creek	7/22/2019 1:39 PM
11	Nothing at this time	7/22/2019 12:27 PM
12	I am concerned with the way that people street park and that if there was a fire or emergency you would be unable to make it down my street	7/22/2019 12:23 PM
13	Biological disasters.	7/22/2019 12:14 PM
14	Airplane crash	7/22/2019 11:55 AM
15	Earthquake	7/22/2019 11:53 AM
16	Just tree limbs that might sway in high winds and break powerlines	7/22/2019 11:44 AM
17	Health hazards (mosquitoes, rodents,etc) from poorly maintained nearby yards	7/22/2019 8:33 AM
18	Lightning	7/22/2019 6:09 AM
19	Mosquitoes are a big problem in my neighborhood.	7/19/2019 3:31 AM
20	Deer overpopulation	7/18/2019 7:32 AM
21	Fire	7/17/2019 3:22 PM
22	unknown	7/17/2019 10:29 AM
23	Lightning & flood	7/17/2019 7:54 AM
24	None	7/17/2019 6:58 AM
25	Large unmowed field behind my house at 96th and mingo.	7/17/2019 1:13 AM
26	Trees growing in drainage easement taking over our fense	7/16/2019 5:24 PM
27	Displaced animals from clearing and growth that end up reaking havoc in neighborhoods, such as coyotes and rats, with no help or plan from city.	7/16/2019 4:00 PM
28	Tornados	7/16/2019 3:34 PM
29	Wild coyotes	7/16/2019 3:03 PM
30	Hail and winter storms also rank high	7/16/2019 12:49 PM
31	Lightning fire	7/16/2019 11:51 AM
32	wenter storm	7/16/2019 11:34 AM

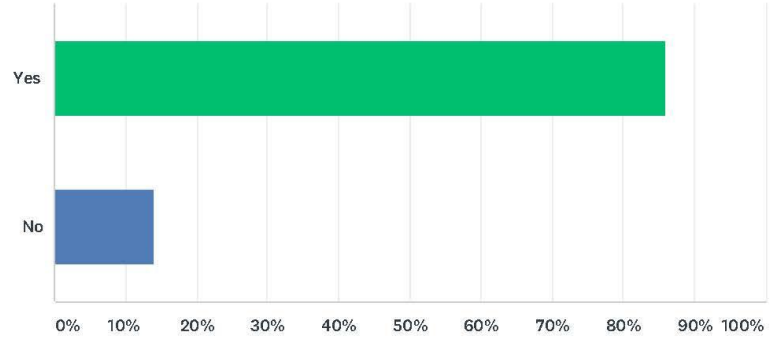
Owasso Hazard Mitigation

33	Flooding, wildfire	7/16/2019 10:04 AM
34	High winds, hail	7/16/2019 10:01 AM
35	Pot holes	7/16/2019 8:20 AM
36	Unmaintained greenspace drainage ditches meant to drain whole neighborhoods need to be mowed often and short , need to be keep free of trash and nuisance wildlife and need their maintenance plan in HOA covenants, "to be maintained by the city using City equipment." HOAs are not good at this kind of Maintenance and homeowners' residential lawn equipment isn't sufficient for this purpose. But failure to maintain these drainage areas leads to flooding.	7/16/2019 7:49 AM
37	Na	7/16/2019 7:34 AM
38	EXCESSIVE INSECTS - PRIMARILY MOSQUITOS	7/16/2019 7:20 AM
39	none	7/16/2019 6:58 AM
40	Speeders on 123rd e ave by Smith Elementary	7/16/2019 6:52 AM
41	Tornado	7/16/2019 6:21 AM
42	Tremors created by blasting at quarry located @ n 145th & e 66th st	7/16/2019 6:10 AM
43	Tornadoes	7/16/2019 6:09 AM
44	Opportunity crime	7/16/2019 5:47 AM
45	Fire	7/16/2019 5:28 AM
46	Moles	7/16/2019 5:21 AM
47	Power outage	7/16/2019 5:05 AM
48	Extended loss of power Bridge integrity	7/16/2019 5:03 AM
49	Vandals	7/16/2019 5:02 AM
50	None	7/16/2019 5:01 AM
51	People property draining on mine, washing away my soil. Draining due to weather and draining their pool. During rain causes more flood chances to my home	7/16/2019 5:00 AM
52	Snakes, bugs, pests from yards not cared for...houses empty foreclosed or just not taken care of by owner.	7/16/2019 4:57 AM
53	Lightning	7/16/2019 4:55 AM
54	Not having drug enforcement agency..	7/16/2019 4:52 AM
55	none	7/16/2019 4:10 AM
56	Heat	7/15/2019 3:10 PM
57	There are no storm water drains on my block. Water has no where to go.	7/15/2019 3:00 PM
58	Flooding on these narrowing roads are washing out the edges badly. My house is on a hill but to get here are the roads on the East side. Eroding shoulder to NO shoulders left.	7/15/2019 2:57 PM
59	The roaches from the apartments across the street	7/15/2019 2:48 PM
60	Rain run off	7/15/2019 12:58 PM
61	N/A	7/15/2019 12:57 PM
62	Break in the utility lines the city needs to provide utility insurance	7/15/2019 12:18 PM
63	The streets flood on E 8th street	7/15/2019 12:13 PM

Owasso Hazard Mitigation

Q7 If you are a homeowner, do you have adequate insurance to cover the hazards that could impact your home? It is important to note that, as a rule, homeowners and renter's insurance does not cover damage from flooding. To protect your home, be sure to understand the risk of flooding and your options.

Answered: 220 Skipped: 5

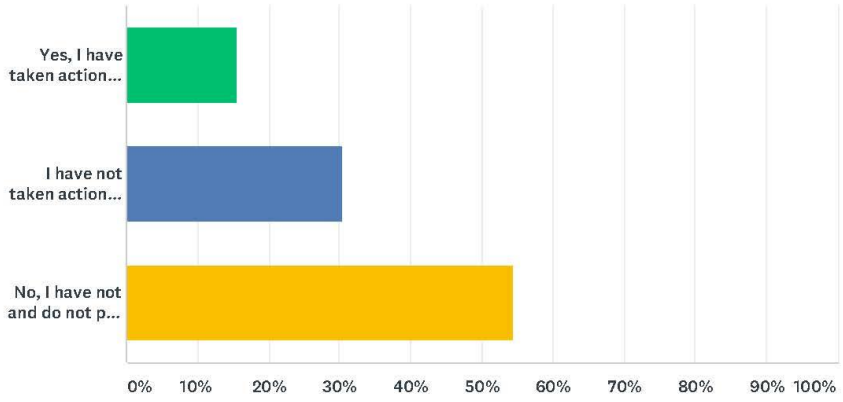


ANSWER CHOICES	RESPONSES	
Yes	85.91%	189
No	14.09%	31
TOTAL		220

Owasso Hazard Mitigation

Q8 Have you done anything to your home to make it less vulnerable, such as using impact-resistant shingles or added roof ties to the trusses and wall studs of your home?

Answered: 221 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes, I have taken action to make my home less vulnerable.	15.38%	34
I have not taken action to make my home less vulnerable to hazards, but plan to.	30.32%	67
No, I have not and do not plan to take action to make my home less vulnerable to hazards.	54.30%	120
TOTAL		221

Owasso Hazard Mitigation

Q9 If you selected "Yes" on question 8, what actions have/do you plan to take?

Answered: 56 Skipped: 169

#	RESPONSES	DATE
1	Impact-resistance shingles being added soon when roof is replaced. Damaged during June 18, 2019 wind, rain and hail storm.	8/19/2019 12:22 PM
2	Impact-resistant shingles, moisture barrier on the roof	7/25/2019 2:51 AM
3	impact resistant shingles, tree trimming	7/24/2019 4:24 AM
4	better shingles	7/23/2019 10:17 AM
5	Storm shelter	7/23/2019 12:59 AM
6	Non	7/23/2019 12:47 AM
7	Impact resistant shingles	7/22/2019 1:55 PM
8	Recently replaced roof with high impact shingles	7/22/2019 12:14 PM
9	Fix roof	7/22/2019 11:58 AM
10	Insurance & risk inspections	7/22/2019 11:44 AM
11	Will decide at time of remodel with contractors what is reasonable and feasible	7/22/2019 8:33 AM
12	Installed impact-resistant shingles	7/22/2019 6:09 AM
13	Roof ties	7/21/2019 10:05 AM
14	Upgrading roof with new shingles	7/19/2019 3:31 AM
15	better shingles once replaced	7/17/2019 12:53 PM
16	NA	7/17/2019 7:54 AM
17	We have been in constant remodeling stages. Our next remodeling project is a roof.	7/17/2019 6:57 AM
18	Impact resistant shingles	7/17/2019 6:32 AM
19	high impact shingles	7/17/2019 6:23 AM
20	New higher rated roof	7/16/2019 10:54 PM
21	New shingles, storm shelter	7/16/2019 5:24 PM
22	Impact resistant shingles	7/16/2019 3:03 PM
23	new roof with high wind resistant shingles	7/16/2019 10:23 AM
24	Impact resistant shingles.	7/16/2019 10:01 AM
25	Not sure	7/16/2019 10:01 AM
26	Impact resistant shingles	7/16/2019 9:16 AM
27	nails not staples to shingles. (that is the only one i know of for now) Dont know what else to do. I'm not trained in it.	7/16/2019 8:40 AM
28	Grounding. All other hazards are outside forces that little can be mitigated.	7/16/2019 8:28 AM
29	Added french drain to keep water from coming into laundry room	7/16/2019 8:16 AM
30	Impact resistant shingles	7/16/2019 7:57 AM

Owasso Hazard Mitigation

31	Should building codes in tornado country require homes to be sturdy enough for frequently-occurring inclement weather without extensive aftermarket modifications at the expense of the homeowner? Will flood insurance cover damage caused by negligence in maintaining intended Watershed areas? Or failure of local government to expand drainage infrastructure when PUD and commercial building permits are continuing to be issued?	7/16/2019 7:49 AM
32	New roof	7/16/2019 7:34 AM
33	SLOWING DOWN THE WATER FLOW THROUGH MY PROPERTY FROM HIGHER ELEVATIONS	7/16/2019 7:20 AM
34	Good updated windows, newish roof	7/16/2019 6:32 AM
35	In 2015 we had french drains put in the backyard to help with the constant flooding issues. My home was built MUCH lower than the homes that sit behind me. I still have flooding issues, even with the french drain. We have also taken extra precautions with roofing and gutters. Another issue is when my home was built in 2004, a maple tree was planted right in front of the house. I did not purchase the home until 2013. After purchasing, it was brought to my attention that the tree had been planted too close to the home and the roots have caused constant plumbing issues. It is a huge tree at this point and I'm unsure of how to correct the issue without spending a fortune.	7/16/2019 6:15 AM
36	Better siding better windows	7/16/2019 5:47 AM
37	Storm shelter, impact resistant shingles, storm doors, security system	7/16/2019 5:47 AM
38	Getting storm shelter & French drains	7/16/2019 5:33 AM
39	Impact shingles were put on after last hail storm.	7/16/2019 5:22 AM
40	High wind resistant roofing shingles	7/16/2019 5:14 AM
41	6-nail shingles (vs. standard 4 or 5).	7/16/2019 5:04 AM
42	Roof ties and shingles	7/16/2019 5:02 AM
43	N/a	7/16/2019 5:01 AM
44	Add dirt to my property to create a dam to force water to stay on other property. Change to land flow	7/16/2019 5:00 AM
45	Impact resistant shingles	7/16/2019 4:57 AM
46	Improved quality of shingles	7/16/2019 4:52 AM
47	Last year new impact resistant roof put on.	7/16/2019 4:51 AM
48	Impact resistant shingles	7/15/2019 3:48 PM
49	Hail resistant shingles	7/15/2019 2:58 PM
50	Storm shelter, stronger windows	7/15/2019 2:57 PM
51	Whatever I can	7/15/2019 2:48 PM
52	Shingles and storm shelter	7/15/2019 1:24 PM
53	Upgraded roofing.	7/15/2019 12:57 PM
54	Home built up to city codes	7/15/2019 12:23 PM
55	Under consideration	7/15/2019 12:18 PM
56	Reinforced concrete and roof	7/15/2019 12:11 PM

TO: The Honorable Mayor and City Council

FROM: David Hurst
Fire Chief

SUBJECT: Adoption of the City of Owasso Hazard Mitigation Plan (2025–2030)

DATE:

BACKGROUND:

The City of Owasso, in partnership with Owasso Public Schools, has updated its Hazard Mitigation Plan (HMP) for the 2025–2030 planning cycle. The Oklahoma Emergency Management (OEM) has reviewed and approved the plan, and FEMA has issued final approval confirming that it meets all federal requirements.

The intent of the City of Owasso and Owasso Public Schools Hazard Mitigation Plan (2025–2030) is to identify natural hazards that pose risks to the community, assess vulnerabilities of people, property, and critical facilities, and establish strategies to reduce or eliminate those risks. The plan is designed to protect public safety, health, and welfare; minimize the impacts and costs of future disasters; and promote resilient growth and development by integrating hazard mitigation into local decision-making.

This plan also formalizes collaboration between the City of Owasso and Owasso Public Schools, ensuring a unified approach to disaster risk reduction. Adoption of the plan maintains eligibility for federal and state hazard mitigation assistance programs, providing access to funding that supports projects to strengthen resilience and safeguard the community.

Next Steps:

FEMA requires formal adoption of the HMP by each participating jurisdiction's governing body for the plan to take effect. Adoption demonstrates the City's commitment to reducing disaster risks and ensures eligibility for FEMA Hazard Mitigation Assistance (HMA) programs, including the Hazard Mitigation Grant Program (HMGP), Building Resilient Infrastructure and Communities (BRIC), and Flood Mitigation Assistance (FMA).

RECOMMENDATION:

Staff recommends that the City Council adopt the attached resolution approving the City of Owasso Hazard Mitigation Plan (2025–2030).

ATTACHMENT:

Resolution of Adoption
Hazard Mitigation Plan

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

6th Grade Center

Chase Morris Act Compliance Site Plan

The Sixth Grade Center has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Leslie Turner	Assistant Principal
Stacey Baker	Nurse
Ben Kozma	Teacher
Kelly Murphy	Assistant Principal
Matt Roberts	Principal
Joshua Proctor	Behavioral Tech

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
9/9/2026	8:45 AM, All Committee members participated, Location: Cafeteria

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
Cafeteria wall next to north entry of gym	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
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	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan

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- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
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- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

7th Grade Center

Chase Morris Act Compliance Site Plan

7th Grade Center has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Mitch Haun	AP
Eric Nantois	Principal
Cassandra Batista	School Nurse
Amber McMath	AP
Matt Louviere	Security Officer

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
8/21	The drill went well

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
7th Grade Center gym lobby	Unit Replacement: 11/25/2025 Battery Replacement: 12/1/2025 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
7th Grade Main Office	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement:12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
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	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



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- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

8th Grade Center

Chase Morris Act Compliance Site Plan

8th Grade Center has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Ryan Cooper	Principal
Sami Duffield	Assistant Principal
Jake Bray	Assistant Principal
Kellie Aylor	Nurse
Kaitlyn Montgomery	Admin Assistant
Jessica Murphy	Teacher
Makia Blades	Para
Tiffany Stump	Attendance Admin Assistant

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
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Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
10/1/2026	Went well.

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
8th Grade Center Cafeteria	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
8th Grade Center Gym	Unit Replacement: 11/25/2025 Battery Replacement:12/1/2025 Adult Pad Replacement:12/25/2025 Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
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	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



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- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Ator Elementary

Chase Morris Act Compliance Site Plan

Ator Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Kalissa Stang	Principal
Katie Sebastian	Nurse
Nicole Burkhardt	Assistant Principal
Andrea Thompson	Health Aid
Haley Rumbaugh	Counselor
Pa Vue	Administrative Assistant

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
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Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
09/29/2026	The team met to conduct the first Code Blue Drill

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
North/South hallway located right outside of main office, above the water fountain	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
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	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



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- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Bailey Elementary

Chase Morris Act Compliance Site Plan

Bailey Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Tiffanie Palmer	Principal
Kristian Stitt	Assistant Principal
Jaye Herndon	Nurse
Emma Neighbors	Behavior Technician
Melissa LeMaster	Secretary
Angela Sellers	Secretary

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

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Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
9/17/26	

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
Cafeteria (South Wall) left side of the entrance into the gym foyer.	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
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	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



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- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Barnes Elementary

Chase Morris Act Compliance Site Plan

Barnes Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Katie Sebastian	Lead/Airway-Nurse
Andrea Thompson	Lead/Airway-Health Aide
Rylee Zaragoza	Call 911/Initiate Hold for Building/Take Notes-Principal
David Bacher	Chest Compressions- Asst. Principal
Cassie Sory	AED placement/follow prompts-Counselor
Pam Braisted/Tracye Crowder	Stay in office to direct emergency personnel-Office staff

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
9/30/26	School was put on Hold and Code Blue drill was ran in front office area including all members as listed in this document.

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
Main Building Foyer; West side between bathrooms and west hallway.	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Hodson Elementary

Chase Morris Act Compliance Site Plan

Hodson Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Dawn Testa	Principal
Brittani Smith	School Nurse
Kaci Warren	Counselor
Dr. Jennifer Holloway	Assistant Principal
Krystal Klahr	Paraprofessional
Heather Sundberg	Building Assistant
Shannon Davis	Special Ed Teacher
Deirdra Abrams	Health Aide

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
9/22/25	The drill went well. We completed it at 10:00 AM in the office with the team and Nurse Stacey.
3/10/26	The drill went well.
9/22/26	The drill went well.

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
Entry by the Gymnasium	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
Entry by the Gymnasium	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan

SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Jeff O. Mills Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Mills Elementary

Chase Morris Act Compliance Site Plan

Mills Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	*Role*
Gina Metcalf	Principal
Jeff Paul	Assistant Principal
Lauren Craig	School Nurse
Emma Westoff	Health Aid
Jeff Quick	PE Teacher
Chelsea Alvarez	Behavior Tech

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	*Notes*
10/8/26	AED drill in the gym

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	*Contact Information*
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
Cafeteria	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan
2026/2027

SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Morrow Elementary

Chase Morris Act Compliance Site Plan

Morrow Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Tyler Martin	Admin
Jacqueline Pope	Admin
Brittani Smith	School Nurse
Deirdra Abrams	Health Aid
Amy Wilks	Counselor
Heather Mears	Instructional Assistant
Melissa Marshall	Teacher
Amanda Mears	Instructional Assistant

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
September 24, 2026	Practice drill with AED/Code White
	Practice drill with AED/Code White

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
East main hallway between the gym and cafeteria on the wall next to the gym doors.	Unit Replacement: 11/25/2025 Battery Replacement: 12/1/2025 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: 9/2/2030 Battery Replacement:9/2030 Adult Pad Replacement:9/2/2030 Pediatric Pad Replacement:No Peds
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Northeast Elementary

Chase Morris Act Compliance Site Plan

Northeast Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Lori Lewis	School Nurse
Michelle Million	Principal
Melody Egger	Assistant Principal
Jean Carlisle	Counselor
Stephanie Beal	Special Education Teacher
Elisa Cannon	Behavior Paraprofessional

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
10/09/2025	8:20 am completed
04/29/2026	8:30 am completed
09/23/2026	9:05 am completed

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
East side of front office doors	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Smith Elementary

Chase Morris Act Compliance Site Plan

Smith Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Jaye Herndon	School Nurse
Windy Gaghins	School Health Aide
Jacob Rincon	Assistant Principal
Nick Hughes	Principal

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
12/5/2024	Simulated student in nurse office experiencing cardiac arrest
4/16/2025	Simulated a parent collapsing in the office.
9/29/2025	Simulated medical event in hallway
4/1/2026	Simulated medical event in office
8/18/2026	Simulated medical event in a classroom

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
Cafeteria - NE Wall	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Stone Canyon Elementary

Chase Morris Act Compliance Site Plan

Stone Canyon Elementary has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Lauren Craig	Nurse
George Holderman	Principal
Anne Cates	Assistant Principal
Roxanne Hinther	Counselor
Emma Westhoff	Health Aid
Tonya Loving	Administrative Assistant

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
9-24-26	Drill was performed at 8:15 with staff

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
Main Hallway, located on the northeast wall, south of the cafeteria doors.	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: 12/28/2025
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Owasso High School - East Campus

Chase Morris Act Compliance Site Plan

Owasso High School - East has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Danielle Petty	Assistant Principal
Haley Schlepp	Head Nurse
Lanita Wimer	Nurse Aide
Asa Poteete	Teacher/Coach
Dylan Cahwee	Assistant Principal

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
10/22/26	

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
OHS East Main Hall across from 414	Unit Replacement: 7/15/2027 Battery Replacement:51/2027 Adult Pad Replacement:12/28/2025 Pediatric Pad Replacement: N/A
OHS East Ram Café' North Wall	Unit Replacement: 7/15/2027 Battery Replacement:51/2027 Adult Pad Replacement:12/28/2025 Pediatric Pad Replacement: 12/28/2025
OHS East Gym	Unit Replacement: 11/24/2028 Battery Replacement: 9/24/2024 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
OHS East 2nd Floor North end by staircase near Special-Ed Wing	Unit Replacement: 11/25/2025 Battery Replacement: 12/1/2025 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
OHS East 2nd floor South End by Jr.attendance	Unit Replacement: 11/25/2025 Battery Replacement: 12/1/2025 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
Band Hallway	Unit Replacement: 11/25/2025 Battery Replacement: 12/1/2025 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
OHS East Multipurpose Facility West End	Unit Replacement: 11/25/2025 Battery Replacement: 12/1/2025 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
OHS East New Gym/Cheer	Unit Replacement: 11/25/2025 Battery Replacement: 12/1/2025 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools

Chase Morris Sudden Cardiac Arrest Response Plan



SB1921 requires public schools to create a sudden cardiac emergency response plan, and lists requirements for the plan. Requirements include:

- Creating a cardiac emergency response team for each school site and requiring them to conduct periodic drills;
- Coordination with local emergency medical service providers;
- Placement of automated external defibrillators (AED) and routine maintenance of AEDs in accordance with national guidelines;
- Placement of AEDs at each athletic venue, or within 1-3 minutes of each venue; also found in Riley Boatright Emergency Procedures Plan
- Provide communication and dissemination of the plan to the school site.

School nurses, athletic trainers, and other appropriate school staff are required to complete the cardiac arrest training required by the State Department of Health, and training in first aid, cardiopulmonary resuscitation, and use of an automated external defibrillator annually.

Owasso High School - West Campus

Chase Morris Act Compliance Site Plan

Owasso High School (West Campus) has developed a sudden cardiac emergency response plan. The district has collaborated with the Owasso Fire Department in the development of this plan.

Sudden Cardiac Emergency Response Team:
The team MUST include a school administrator. The school administrator will determine other team members needed for the team including but not limited to a school nurse and/or health aid.

Team Member	***Role***
Beth Boling	Nurse
Lanita Wimer	Nurse Aide
Gina Osburn	Assistant Principal
Nathan Desandre	Teacher/Coach

All members of the Sudden Cardiac Emergency Response Team will be trained in First Aid, CPR, and the location and use of the onsite AED. In addition to the response team members being trained, nurses, all athletic trainers, and athletic coaches will be trained.

Team Activation:
The Cardiac Response Team will be activated by any of the following ways:

- Verbal communication from staff that the team should respond. Specific location must be communicated.
- An announcement will be made over the intercom system for the team to respond to a specific location. A Code Blue announcement will indicate members of the team are to respond immediately

Any time the team is activated, the first team member to go by the AED should take it with them to the location of the emergency. If no team member has the opportunity to pick up the AED in route to the emergency, the school administrator or nurse will direct one member to retrieve the AED if needed.

Plan Communication
This Sudden Cardiac Emergency Response Plan will be communicated to building staff during staff meetings and/or professional development sessions. Site plans will also be communicated to the School Board by district administration on behalf of each school site.

Drill Documentation:
**NOTE: These drills are NOT required to be entered on the Oklahoma School Security Institute website

Date of Drill	***Notes***
10/22/26	

Emergency Medical Providers for Owasso Public Schools:
**NOTE: The Director of Safety and Security will coordinate site plans with local agencies

Name of Provider	***Contact Information***
Owasso Fire Department	EMS Cpt. Chase Coates: 918-272-5253
Owasso Police Department	Sgt. Matt Goodell: 918-376-1578

Location of AED(s) at school site and next maintenance date(s)

AED Location	*Maintenance Dates*
OHS West - South side by Main Gym	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
OHS West - Across from rm 226, near principals offices	Unit Replacement: 7/15/2027 Battery Replacement: 5/1/2027 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
OHS West - Unit 1	Unit Replacement: 11/20/2028 Battery Replacement: 09/1/2024 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
OHS West - Unit 6 by Safe Gym	Unit Replacement: 11/20/2028 Battery Replacement: 09/1/2024 Adult Pad Replacement: 12/28/2025 Pediatric Pad Replacement: N/A
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:
	Unit Replacement: Battery Replacement: Adult Pad Replacement: Pediatric Pad Replacement:

In addition to trainers having portable AED's for athletic events, games hosted at school sites are also equipped with AEDs that may be retrieved within one to three minutes.

Date of update and School Board Review: _____

School Board President: _____

Owasso Public Schools
Treasurers Report
as of October 31st, 2026

	General Fund prior year 7/1/25 to 10/31/25	General Fund current year 7/1/26 to 10/31/26	Building Fund prior year 7/1/25 to 10/31/25	Building Fund current year 7/1/26 to 10/31/26	Child Nutrition prior year 7/1/25 to 10/31/25	Child Nutrition current year 7/1/26 to 10/31/26	Sinking Fund prior year 7/1/25 to 10/31/25	Sinking Fund current year 7/1/26 to 10/31/26
Beginning Fund Balance	20,271,993.58	17,474,493.08	4,281,377.64	6,016,735.83	2,233,404.82	2,244,821.55	5,553,565.30	12,132,173.06
Revenue								
local	547,031.24	592,478.79	76,224.01	109,526.96	589,275.94	579,176.80	227,809.27	345,327.70
intermediate	352,374.77	495,733.32	0.00	0.00		0.00		0.00
state	12,111,157.66	12,802,617.25	42.64	39.51	0.00	0.00	222.30	220.46
federal	1,000,105.80	1,617,409.70	0.00	0.00	517,748.85	241,477.50		
premium on bond sale							0.00	0.00
reimb/correcting entry	52,967.64	196,756.89	0.00	0.00	39.00	0.00	0.00	0.00
total revenue	**14,063,637.11**	**15,704,995.95**	**76,266.65**	**109,566.47**	**1,107,063.79**	**820,654.30**	**228,031.57**	**345,548.16**
Expenditures								
salary	11,983,051.10	15,759,229.11		808,351.67	414,114.33	561,837.65	0.00	0.00
benefits	3,887,243.50	4,562,690.10		256,511.06	130,715.39	164,065.67	0.00	0.00
contracted prof / tech svcs	315,592.37	285,285.26	1,010.00	715.00	14,060.00	15,624.50	0.00	0.00
property svcs	367,198.26	318,959.48	448,642.36	461,419.16	40,350.33	33,534.20	0.00	0.00
other purchased svcs	373,324.89	158,126.00	39,707.90	41,599.66	386,966.78	430,885.70	0.00	0.00
supplies	564,714.73	597,652.42	1,046,921.49	1,097,104.10	19,410.06	19,903.18	0.00	0.00
property	450.00	703.98	0.00	0.00	101,394.65	15,977.38	0.00	0.00
dues/fees/registration/tuition	127,688.84	146,852.71		116.50	0.00	116.50	0.00	0.00
bond principal & interest							362,227.50	2,123,962.50
other uses	12,935.81	39,069.31	0.00	0.00	12,539.00	12,500.00	0.00	0.00
total expenditures	**17,632,199.50**	**21,868,568.37**	**1,536,281.75**	**2,665,817.15**	**1,119,550.54**	**1,254,444.78**	**362,227.50**	**2,123,962.50**
prior year estopped checks	0.00	0.00						
Balance as of Oct 31st	16,703,431.19	11,310,920.66	2,821,362.54	3,460,485.15	2,220,918.07	1,811,031.07	5,419,369.37	10,353,758.72
bank balance 10-31-26		11,582,307.18		3,553,596.00		1,814,430.34		10,353,758.72
outstanding checks		(271,386.52)		(93,110.85)		(3,399.27)		0.00
balance 10-31-26		11,310,920.66		3,460,485.15		1,811,031.07		10,353,758.72

Owasso Public Schools
Treasurers Report

Bond / Lease Purchase Funds Summary
as of 10-31-26

	bond 31 year to date	bond 32 year to date	bond 35 year to date	bond 39 year to date	LP 05 year to date
FY 27 Beginning Fund Balance	26,202,181.45	7,977,847.16	10,713.84	46,369.54	120,671,642.47
Revenue					
interest/other	262,440.90	199,457.37	0.00	0.00	1,348,524.77
correcting entry	0.00	0.00	0.00	0.00	0.00
bond / lease proceeds	0.00	23,030,000.00	0.00	0.00	0.00
total revenue	262,440.90	23,229,457.37	0.00	0.00	1,348,524.77
Expenditures	6,659,705.85	23,490,233.76	6,724.56	0.00	3,157,084.05
Balance as of 10-31-26	19,804,916.50	7,717,070.77	3,989.28	46,369.54	118,863,083.19

Owasso Public Schools **Bond Fund Budgets F.Y. 2027** report date 10/31/2026

project	description	Bond 39 budget	Bond 39 encumbered	Bond 39 balance	Bond 35 budget	Bond 35 encumbered	Bond 35 balance
000	non categorical	**46,369.54**	**0.00**	**46,369.54**	**10,713.84**	**9,424.56**	**1,289.28**

project	description	Bond 31 budget	Bond 31 encumbered	Bond 31 balance	Bond 32 budget	Bond 32 encumbered	Bond 32 balance
000	non categorical	469,796.86	27,787.00	442,009.86	212,297.16	69,250.00	143,047.16
010	lease payment				23,395,550.00	23,395,550.00	
111	copiers	247,176.00	113,828.00	133,348.00			
112	buses	243,391.96	186,800.00	56,591.96			
113	technology	4,950,465.96	2,497,433.78	2,453,032.18			
114	instructional resources	3,546,926.29	414,069.39	3,132,856.90			
116	athletics uniforms/equip	161,538.31	40,562.00	120,976.31			
117	safety	407,929.20	149,201.09	258,728.11			
119	plant operations	5,011,762.38	1,387,111.78	3,624,650.60			
120	fine arts uniforms/equip	633,320.37	142,795.18	490,525.19			
171	nurses equipment	63,209.90	23,975.22	39,234.68			
172	library budgets	186,212.94	126,450.63	59,762.31			
	Total Annual Budgets	15,921,730.17	5,110,014.07	10,811,716.10			
	Construction Projects						
139	8th Grade Safe Room		9,749,023.03		7,400,000.00	7,366,266.00	33,734.00
141	5th grade center		5,055.00				
142	transportation facility		66,558.00				
	Total Construction	10,280,451.28	9,820,636.03	459,815.25			
total		**26,202,181.45**	**14,930,650.10**	**11,271,531.35**	**31,007,847.16**	**30,831,066.00**	**176,781.16**

Owasso Public Schools

Lease Purchase Report Fund 05
Report Date 10-31-2026

Project Code	Description	Original Budget	FY 26 Expended	FY 27 Beginning Balance	FY 27 Encumbered as of 10-31-26	Budget Balance as of 10-31-26
101	site allocation furniture/equipment	510,000.00	51,566.28	458,433.72	144,590.10	313,843.62
103	fine arts addition hs west campus	17,542,152.00	272,280.00	17,269,872.00	795,720.00	16,474,152.00
104	hs east campus renovations	10,100,000.00	55,043.00	10,044,957.00	24,763.20	10,020,193.80
105	7th grade safe structure / multisports complex	17,967,820.00	620,494.35	17,347,325.65	769,106.00	16,578,219.65
106	prek furniture/instructional equipment	1,030,000.00	0.00	1,030,000.00		1,030,000.00
107	tennis court resurface	650,000.00	174,337.29	475,662.71	452,670.00	22,992.71
109	playground equipment	450,000.00	0.00	450,000.00		450,000.00
110	transition program room remodel	260,000.00	0.00	260,000.00		260,000.00
115	ram academy science room remodel/furniture	185,750.00	0.00	185,750.00		185,750.00
117	safety	700,000.00	0.00	700,000.00	699,654.47	345.53
118	perfoming arts center upgrades	135,000.00	0.00	135,000.00		135,000.00
119	plant operations	31,500.00	0.00	31,500.00		31,500.00
122	art room remodels	134,838.00	0.00	134,838.00	140,253.80	(5,415.80)
123	ag fence	80,000.00	50,635.00	29,365.00		29,365.00
126	turf replacement	1,650,000.00	0.00	1,650,000.00	583,600.00	1,066,400.00
134	roofing district wide	7,300,000.00	1,171,073.69	6,128,926.31	874,555.08	5,254,371.23
139	8th grade safe structure	363,000.00	224,295.25	138,704.75	136,432.00	2,272.75
141	5th grade center	57,134,275.00	1,826,485.25	55,307,789.75	50,734,208.78	4,573,580.97
	Total Budget	**116,224,335.00**	**4,446,210.11**	**111,778,124.89**	**55,355,553.43**	**56,422,571.46**

Proposed Changes of:
4.01 Employee Travel Expense Reimbursement

Statement of Policy

Expenses incurred by individuals for travel on behalf of the School District should be reimbursed by the School District. Reimbursement to individuals should be made upon approval by the Board of Education after proper presentation of supporting documentation, as defined below.

Definitions

Terms used in this policy are defined as follows:

- "Travel" means transportation arrangements made or incurred by car, airplane, train, bus or other means or hotel accommodations and meals*, for the purposes of advancing the interests of the School District. Travel may be within or without the School District. Travel does not mean transportation to and from the employee's residence or abode to the School District for employment.
- "Employee" means any person employed by the School District or a member of the board acting in his capacity as a board member on behalf of the School District.
- "Expenses" means any actual indebtedness incurred and paid by an individual employee on behalf of the School District, for the benefit of the School District or for the purpose of advancing the interests of the School District, with the intention of being reimbursed by the School District.

Expenses may include, but are not limited to, these items:

1. Roundtrip coach airfare and baggage fees. Every effort should be made to make travel plans as far in advance of the trip as possible so discount fares may be arranged. The District will pay up to the cost of a 14-day advance ticket. If the cost exceeds that amount, the employee will be responsible for the balance. Any exception to this procedure must be authorized in advance of ticketing by the Superintendent or designee. Local transportation may also include bus, taxi, train fares and car rentals.
2. Mileage for the use of a personal vehicle will only be reimbursed if a school owned vehicle is not available. The mileage basis for transportation reimbursement for use of a privately-owned vehicle shall be in accordance with the prevailing rate established by the Internal Revenue Service. If an employee drives a personal vehicle for out-of-state meetings, mileage will be reimbursed in the amount of the lesser of the two rates. Toll fees and parking fees are reimbursable with receipts. No receipt is required when traveler is utilizing the PikePass automated payment process.
3. Meals for employees attending education conferences or school business trips will cover food costs incurred by the employee while in travel status. Employees will pay for their own meals while in travel status. Employees will be paid by the School District a per diem rate ~~of $55 per day for travel within the state of Oklahoma and~~

~~$60 per day for travel outside the state of Oklahoma~~ in accordance with current GSA Approved Rates. Exceptions to this per diem rate will be provided in writing to the employee previous to the travel window. Possible exceptions may include: when a conference registration fee also includes all meals, when the employee travels only a partial day, etc.

4. Lodging will be reimbursed for the same number of nights as the conference is in session. For example, if a conference begins Friday morning and concludes at noon on Sunday, the reimbursement will be made for a maximum of three nights lodging. If additional night(s) are necessary because of unusual circumstances, or particularly remote locations, arrangements should be approved in advance by the Superintendent or his designee, not to exceed one additional night. Receipts are required.
5. Conference or registration fees.
   Receipt" means an invoice document issued by a vendor which has been paid as an expense by an employee. A receipt must contain the following information:

- "Receipt" means an invoice document issued by a vendor which has been paid as an expense by an employee. A receipt must contain the following information:
  1. date indebtedness incurred;
  2. amount paid;
  3. amount of indebtedness;
  4. the purpose of the indebtedness including an itemized description of the goods or services purchased; and
  5. the name, address and telephone number of the vendor.

A credit card slip alone is not a receipt.

- "Supporting documentation" means a memorandum to the board containing a request for reimbursement and explanation of the reason for the expense. All receipts for which reimbursement is sought and a travel claim must be attached to the memorandum.
- "Travel claim" is a document prepared by an employee who seeks reimbursement which contains the following information:
  1. dates entering and ending travel status;
  2. points of travel;
  3. mileage to and from destination(s) when personally owned vehicle is used;
  4. air, bus or train fares when public transportation is used;
  5. parking fees, taxi fares, car rentals and turnpike fees;
  6. per diem rate established by the board of education;
  7. purpose, time, location and those in attendance for meals;
  8. motel and hotel expenses;
  9. registration fees and meeting expenses;
  10. other school business expenses such as telephone calls, tips, etc., which properly occur during the time an employee is in travel status;
  11. encumbrance to be charged for expense; and
  12. by whom the travel activity was approved.
- "Credit card slip" is the customer's copy of the credit card charge form. A credit card slip alone is not a receipt. To qualify as a receipt a credit card slip must be attached to a supporting invoice issued by the vendor which contains all the information required of a receipt.

- "Vendor" means the individual or entity that provided the goods or services to the School District for which reimbursement is sought and a receipt for payment has been issued.

Procedure for Reimbursement

To obtain reimbursement for travel expenses the employee must:

- Prepare supporting documentation to the board of education with attached receipts and travel claims. Requests for reimbursement with insufficient or incomplete documentation will be denied.
- Submit supporting documentation with attachments to the board treasurer. The board treasurer and superintendent of schools or his designee will review the memorandum and attachments for completeness and accuracy. If the memorandum is complete and accurate the board treasurer will advise the board clerk to list the reimbursement request as an agenda item on the next available board meeting.
- At the next available board meeting the board will consider the reimbursement request and authorize the board treasurer to issue a warrant to reimburse the employee for the amounts, if any, deemed appropriate by the board. The board has absolute discretion to deny the request or approve it in whole or in part. The board's decision is final.
- The board treasurer will issue the warrants for reimbursement authorized by the board as soon as is practicable following the board's action.

Other Issues

A request for reimbursement must be made within thirty (30) days after the vendor's invoice is issued. Notwithstanding this time limitation, all requests for reimbursement must be made prior to the end of the fiscal year in which the vendor's invoice was issued and services rendered, and it must be submitted in sufficient time to allow the board to take action at its last regular meeting of the fiscal year. Reimbursement requests not complying with these requirements will be denied unless unusual circumstances are presented to and approved by the board.

Reimbursements issued by the board are only for the actual amount of out of pocket expenses paid by the employee. No additional charges may be added by the employee and the employee may not obtain a warrant for funds he or she expects to pay or incur in the future.

Any interpretation of this policy shall be made solely by the Board of Education and shall be binding in all respects.

Violation of any of the provisions of this policy may result in dismissal or nonrenewal.

If an employee drives a personal vehicle for out-of-state meetings, mileage reimbursement shall not exceed the cost of flying coach with a 30-day advance purchased ticket.

Amended June 2026
Amended October 2016
Amended March 2015
Amended March 2014
Amended November 2006

Owasso Public Schools

Memorandum of Understanding

Between the Board of Education of Owasso Independent School District number 11 and the Owasso Education Association. Both parties acknowledge that this memorandum of understanding represents adjustments needed to the extra duty addendum of the negotiated agreement.

Date:11/9/26
Changes to the Extra Duty Stipend Addendum - OTEP Grant Received for Extra Duty Stipends (Nov. 2026)

Owasso schools will add or amend the following **78 extra duty positions** and stipends for the 2026 - 2027 school year to include additional funding to certified staff in the amount of $438,500 at a total cost to the district of $75,202.75 while offsetting district expenses by $16,297.25.

The OTEP grant must be applied for on a yearly basis. Should OPS not receive the grant for any subsequent years, the district agrees to pay the original amount of the extra duty stipend, noted in the negotiated agreement.

Teacher Leader Position	Job Description for Application Process	# of Stipends	Total OTEP Stipend	OTEP Designation
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD

School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$7,500	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
School Counselor-Individualized Student Support Leader	Job Description	1	$5,000	LEAD
Library Services Department Chair (ELEM.)	Job Description	1	$7,500	LEAD
Library Services Department Chair (SEC.)	Job Description	1	$5,000	LEAD
Subject Area Coordinators- Secondary	Job Description	1	$5,000	LEAD
Subject Area Coordinators- Secondary	Job Description	1	$7,500	LEAD
Subject Area Coordinators- Secondary	Job Description	1	$7,500	LEAD
Subject Area Coordinators- Secondary	Job Description	1	$5,000	LEAD
Secondary Computer Science & Technology Department Chair	Job Description	1	$7,500	LEAD
Secondary Department Chair - Physical Education	Job Description	1	$5,000	LEAD
Elementary - Grade Level Department Chair PE	Job Description	1	$7,500	LEAD
Secondary Special Ed. Department Chair	Job Description	1	$7,500	LEAD
Speech-Language Pathologist Department Chair	Job Description	1	$7,500	LEAD
Special Services Moderate/Severe & Profound Dept. Chair	Job Description	1	$7,500	LEAD
Health Services Coordinator + 6 days (Lead Nurse)	Job Description	1	$5,000	LEAD

Elementary Math & Reading Intervention Chair	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair PK	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair K	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair 1	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair 2	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair 3	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair 4 (Math/SC)	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair 4 (ELA/SS)	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair 5 (Math)	Job Description	1	$5,000	LEAD
Elementary - Grade Level Department Chair 5 (ELA)	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair 5 (SC/SS)	Job Description	1	$7,500	LEAD
Elementary - Grade Level Department Chair Computer/Tech.	Job Description	1	$7,500	LEAD
Elementary - Special Ed. Department Chair	Job Description	1	$7,500	LEAD
Elementary Art Department Chair	Job Description	1	$5,000	LEAD
District Department Chair - Elem Gen. Music K-5	Job Description	1	$7,500	LEAD
District Department Chair - Choir - 6th - 12th	Job Description	1	$5,000	LEAD
District Department Chair - Drama - 6th - 12th	Job Description	1	$5,000	LEAD
District Department Chair - Visual Arts- 6th - 12th	Job Description	1	$5,000	LEAD
District Department Chair-World Languages 7th-12th	Job Description	1	$5,000	LEAD
District Department Chair-FACS	Job Description	1	$5,000	LEAD
District Teacher of the Year	Job Description	1	$10,000	MASTER
School Psychologist - Extra Case for FY27(for 5 psychologists)	Job Description	1	$15,000	MASTER
School Psychologist - Extra Case for FY27 (for 5 psychologists)	Job Description	1	$15,000	MASTER
School Psychologist - Extra Case for FY27 (for 5 psychologists)	Job Description	1	$15,000	MASTER
School Psychologist - Extra Case for FY27 (for 5 psychologists)	Job Description	1	$15,000	MASTER

School Psychologist - Extra Case for FY27 (for 5 psychologists)	Job Description	1	$15,000	MASTER
Counseling Department Chair (ELEM.)-Individualized Student Support Leader	Job Description	1	$15,000	MASTER
Counseling Department Chair (SEC.)-Individualized Student Support Leader	Job Description	1	$15,000	MASTER
Site Teachers of the Year 2026 *Pending OSDE (OTEP Grant) Approval	Description	10	$4,500	Advanced
Site Teachers of the Year 2026 *Pending OSDE (OTEP Grant) Approval	Description	5	$3,000	Advanced
		78	**$530,000.00**	

The parties agree that these changes will be effective immediately and will be added to the negotiated agreement once the MOU has been signed by both parties.

BOE President Date

OWEA President 10/29/26 Date