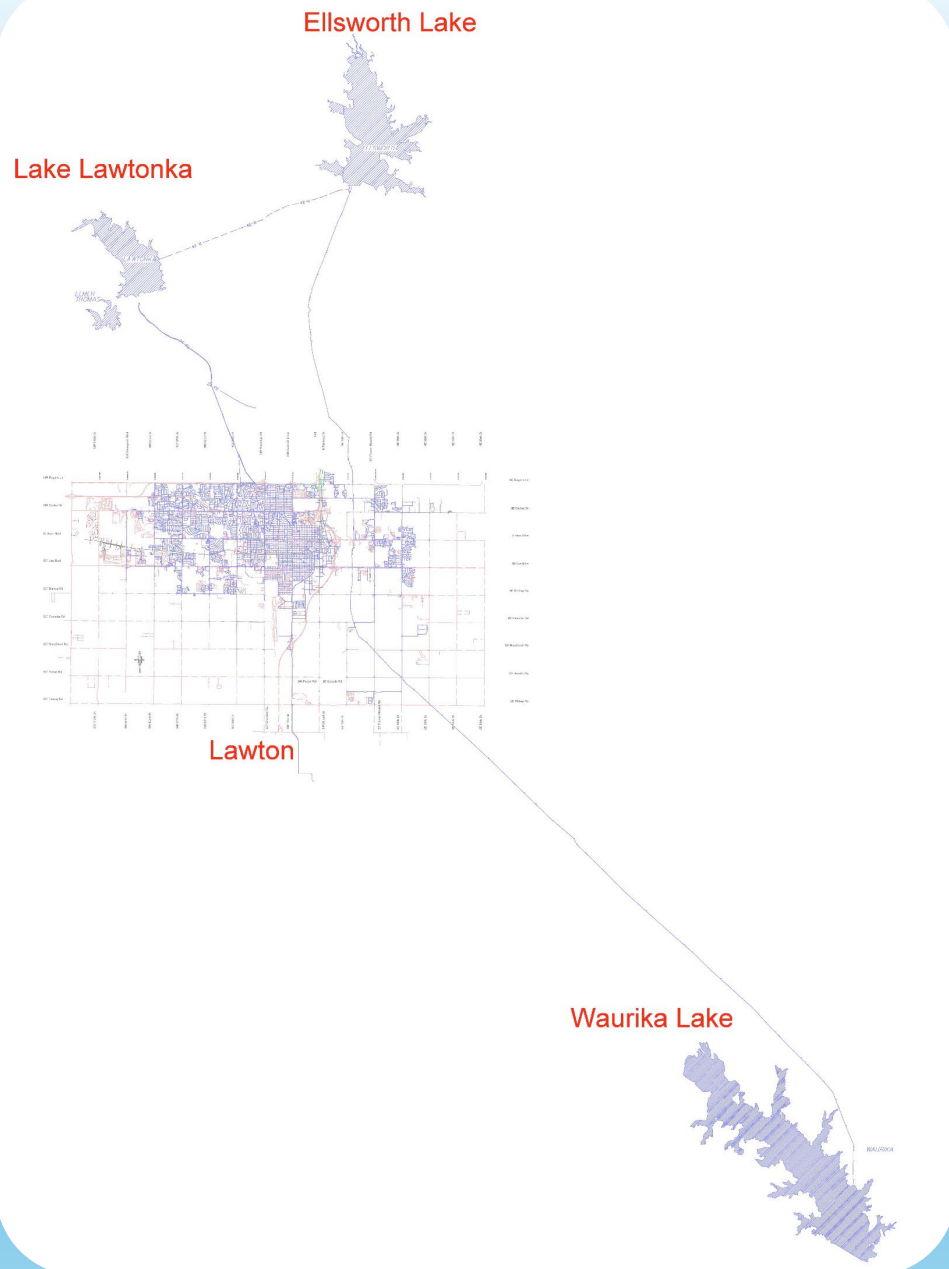




City of Lawton Public Utilities

Update on Lake Levels &
Water Resources





The City of Lawton draws its water supply from three surface water sources:

- **Ellsworth Lake**
- **Lake Lawtonka**
- **Waurika Lake**

The lake levels are monitored closely by staff at the Medicine Park Water Treatment Plant.

Restrictions on water usage are determined based on the combined percentage of lake levels.

Medicine Park WTP - Total Water Treated

Date	TWT		Sent to Distribution		Remarks
10/29/24	13.700	MGD	12.321	MG	

Lake Elevations

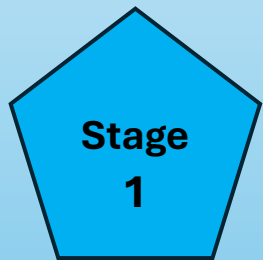
<i>Lawtonka</i>	1339.87	Feet	SSE Wind @ 19 mph Water Temp. @ 67 degrees
<i>Ellsworth</i>	1229.29	Feet	
<i>Waurika</i>	947.83	Feet	

City of Lawton - Water Resources

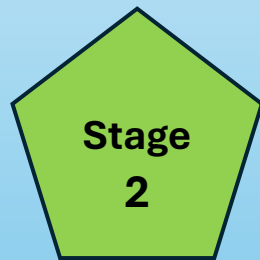
LAKE	Conservation ACRE/FT.	Current ACRE/FT.	% Full
<i>Lawtonka</i>	55,171.00	47,080.00	85.33%
<i>Ellsworth</i>	60,000.00	43,510.00	72.52%
<i>Waurika</i>	188,760.00	154,237.00	81.71%
10/30/24	TOTAL GALLONS STORED	79,813,602,000	79.85%

Restrictions on Water Usage

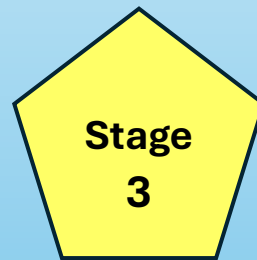
There are 5 stages of restrictions that may be established during times of drought beginning when the combined level of the lakes drop below 70%.



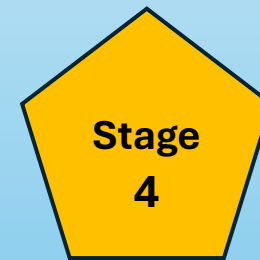
- Lake Levels at 70% or less
- Voluntary Conservation
- Limits on outside watering to every other day



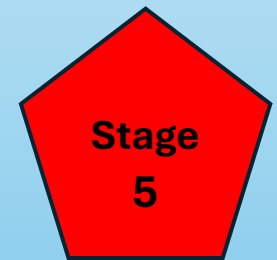
- Lake Levels at 60% or less
- Mandatory Restrictions
- Limits on outside water usage to every other day



- Lake Levels at 50% or less
- Mandatory Restrictions
- Limits on outside water usage to Wednesdays & Saturdays only



- Lake Levels at 40% or less
- Mandatory Restrictions
- Limits on outside water usage to one day per week



- Lake Levels at 30% or less
- Mandatory Restrictions
- Restriction on all outside water usage.

Lake Levels information is always available to the public on our website:

Can't find the information you're looking for?
Email: PublicUtilities@LawtonOK.Gov

From the www.LawtonOK.Gov Homepage

Hover over "Departments"

Then, navigate to "Gate Operations/ Lake Levels" under the "Lakes" header

The screenshot shows the City of Lawton website's navigation menu. At the top left is the City of Lawton logo featuring a bison. To the right are links for "City of Lawton Home", "Jobs", "Contact Us", and a "SERVICE FINDER" button. Below these are four main menu categories: "RESIDENTS", "BUSINESS", "DEPARTMENTS", and "GOVERNMENT". The "DEPARTMENTS" category is currently selected and expanded, showing a list of various city services. A green arrow points to the "Lakes" header, and another green arrow points to the "Gate Operations/Lake Levels" link under it. Other departments listed include Animal Welfare, Arts and Humanities, City Clerk, Community Services, Emergency Communications, Engineering, Finance, Fire, Human Resources, Information Technology, Legal Services, McMahon Auditorium, Municipal Court, Parks and Recreation, Planning, Police, Public Utilities, Public Works, and Utility Services.

RESIDENTS	BUSINESS	DEPARTMENTS	GOVERNMENT
<ul style="list-style-type: none">Animal WelfareArts and Humanities<ul style="list-style-type: none">Film and Music Production SupportCity Clerk<ul style="list-style-type: none">Accessibility InformationView City AlertsCommunity Services<ul style="list-style-type: none">Neighborhood ServicesHousingBuilding DivisionEmergency Communications<ul style="list-style-type: none">Contact UsForm DirectoryEngineering<ul style="list-style-type: none">Our TeamLatest NewsFinance<ul style="list-style-type: none">Budgets & FinancialsStale Dated Checks	<ul style="list-style-type: none">Fire<ul style="list-style-type: none">DivisionsResourcesAbout UsHuman Resources<ul style="list-style-type: none">BenefitsHuman Resources StaffEmployee TrainingCareersInformation TechnologyLakes<ul style="list-style-type: none">About UsGate Operations/Lake LevelsEllsworthLawtonkaLawton Public Library<ul style="list-style-type: none">About UsNewslettersE-ResourcesServicesLegal Services<ul style="list-style-type: none">Tort Claim	<ul style="list-style-type: none">McMahon Auditorium<ul style="list-style-type: none">Seating ChartVisitor InfoMunicipal Court<ul style="list-style-type: none">ResourcesServicesFAQsAbout UsParks and Recreation<ul style="list-style-type: none">AmeriCorp Seniors Lawton RSVPRecreational/Assembly PermitsAquaticsFacility RentalFind a ParkFind a CampgroundPlanning<ul style="list-style-type: none">Boards and CommitteesZoning MapRezoning and Plan RequestsUrban Renewal Plans	<ul style="list-style-type: none">Police<ul style="list-style-type: none">ServicesProgramsAbout UsAwards and CommendationsOfficer ComplaintsPublic Utilities<ul style="list-style-type: none">DivisionsAbout UsContact UsPublicationsSewer Line Construction Activities ReportPublic Works<ul style="list-style-type: none">DivisionsAdopt-A-Stream and Stream Clean-upResidential Refuse and Bulky Waste Pick-UpMosquito Control MapFlood Plain ManagementLawton Drainage Issue InputUtility Services

Click the hyperlink to navigate to the Gate Operations GIS Site.

ABOUT US

GATE OPERATIONS/LAKE LEVELS

ELLSWORTH

LAWTONKA



Gate Operations/Lake Levels

Font Size: Share & Bookmark Feedback Print



To view the lake levels & gate operations of Lake Lawtonka & Lake Ellsworth, please click [here](#).

To view the lake levels & gate operations of Lake Lawtonka & Lake Ellsworth, please click [here](#).



View real-time data for Lake Lawtonka and Lake Ellsworth on this page.

Gate Operations - Lake Levels



Esri, NASA, NGA, USGS | Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, ... Powered by Esri

Data collected and processed into a graph for Lake Lawtonka and Lake Ellsworth by USGS. Data updated by USGS. Secondary data provided by "Live Stream Gages", feature layer from ESRI. To view a full list of contributors, please visit the link for the ESRI feature layer. Storage data provided by OWRB "Lake Level and Streamflow Conditions" for Oklahoma interactive map.

Lake Lawtonka

All gates are closed at Lake Lawtonka. Last Updated: 6/6/2024, 9:09 AM

10/28/2024, 10:30 AM

 **1,340 ft**

Normal Elevation: 1,343.35 ft


Elevation

Storage

Lake Ellsworth

All gates are closed at Lake Ellsworth. Last Updated: 7/23/2024, 8:20 AM

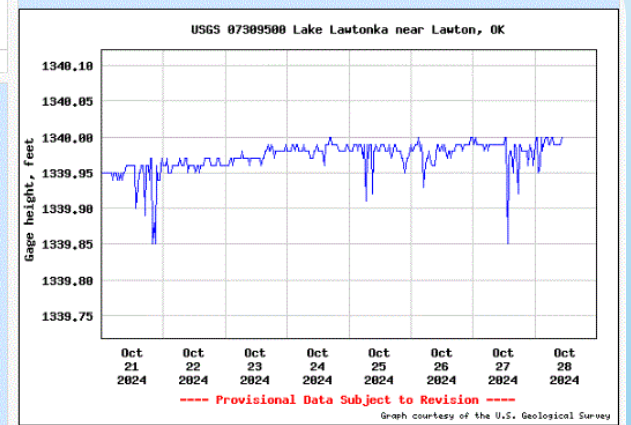
10/28/2024, 10:45 AM

 **1,229.34 ft**

Normal Elevation: 1,232.50 ft

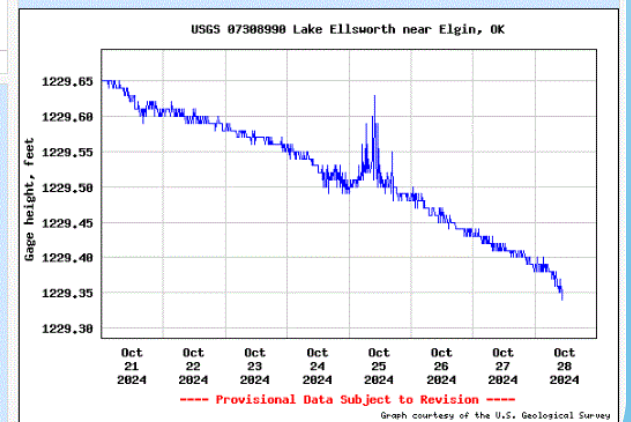
Elevation

Storage



Elevation

Storage

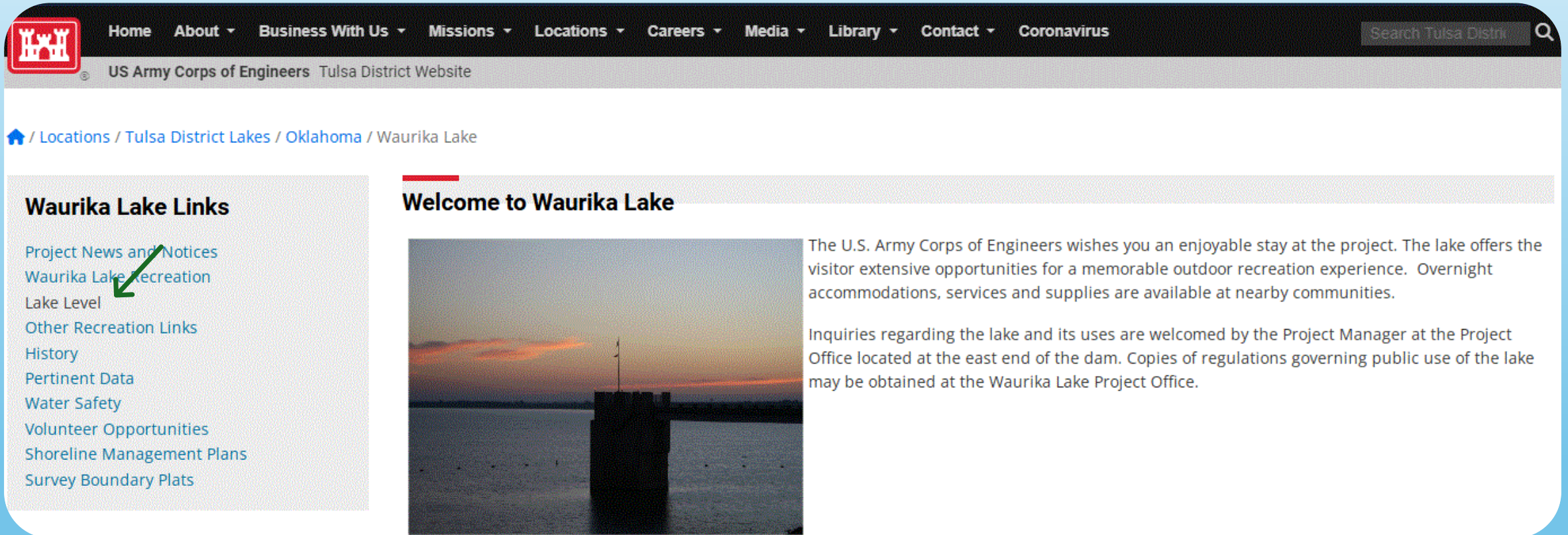


Elevation

Storage

Data for Waurika Lake is available from the US Army Corps of Engineers at:
www.swt.usace.army.mil/Locations/Tulsa-District-Lakes/Oklahoma/Waurika-Lake/

Click on “Lake Level” to view the data page.



The screenshot shows the website's navigation menu with options: Home, About, Business With Us, Missions, Locations, Careers, Media, Library, Contact, and Coronavirus. A search bar is located in the top right corner. The breadcrumb trail reads: Home / Locations / Tulsa District Lakes / Oklahoma / Waurika Lake. On the left, a sidebar titled "Waurika Lake Links" contains a list of links: Project News and Notices, Waurika Lake Recreation, Lake Level (highlighted with a green arrow), Other Recreation Links, History, Pertinent Data, Water Safety, Volunteer Opportunities, Shoreline Management Plans, and Survey Boundary Plats. The main content area features a "Welcome to Waurika Lake" section with a photograph of a dam structure in a lake at sunset. To the right of the photo, there are two paragraphs of text: the first welcomes visitors and lists amenities, while the second provides information on how to obtain regulations from the Project Office.

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Current Readings

- 3.58 ft **BELOW** normal
- Pool elevation is 947.82 feet on 30OCT2024 07:00 hours.
- At this elevation the total amount of water stored in Waurika Lake is 154149 acre-feet.

- Reservoir release is **0** cubic feet per second on Wednesday 30Oct2024 08:00.
- Conservation pool is 80.84% full.
- Conservation pool storage filled is 151473 acre-feet which is equivalent to 5.05 inches of runoff over the entire drainage basin.
- Conservation pool storage empty is 34611 acre-feet which is equivalent to 1.15 inches of runoff over the entire drainage basin.

Gate Change

Conditions at the time of Gate Change

▪ **Tuesday, 10 Oct 2023 1110**

- Pool Elevation = 947.31 feet.
- Total Release = 0 (cfs)
 - Gate Release = 0 (cfs)
 - Unregulated Release = 0 (cfs)
- Gate Settings:
 - All CLOSED

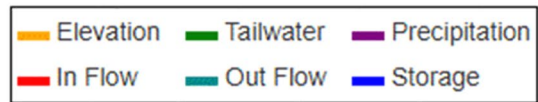
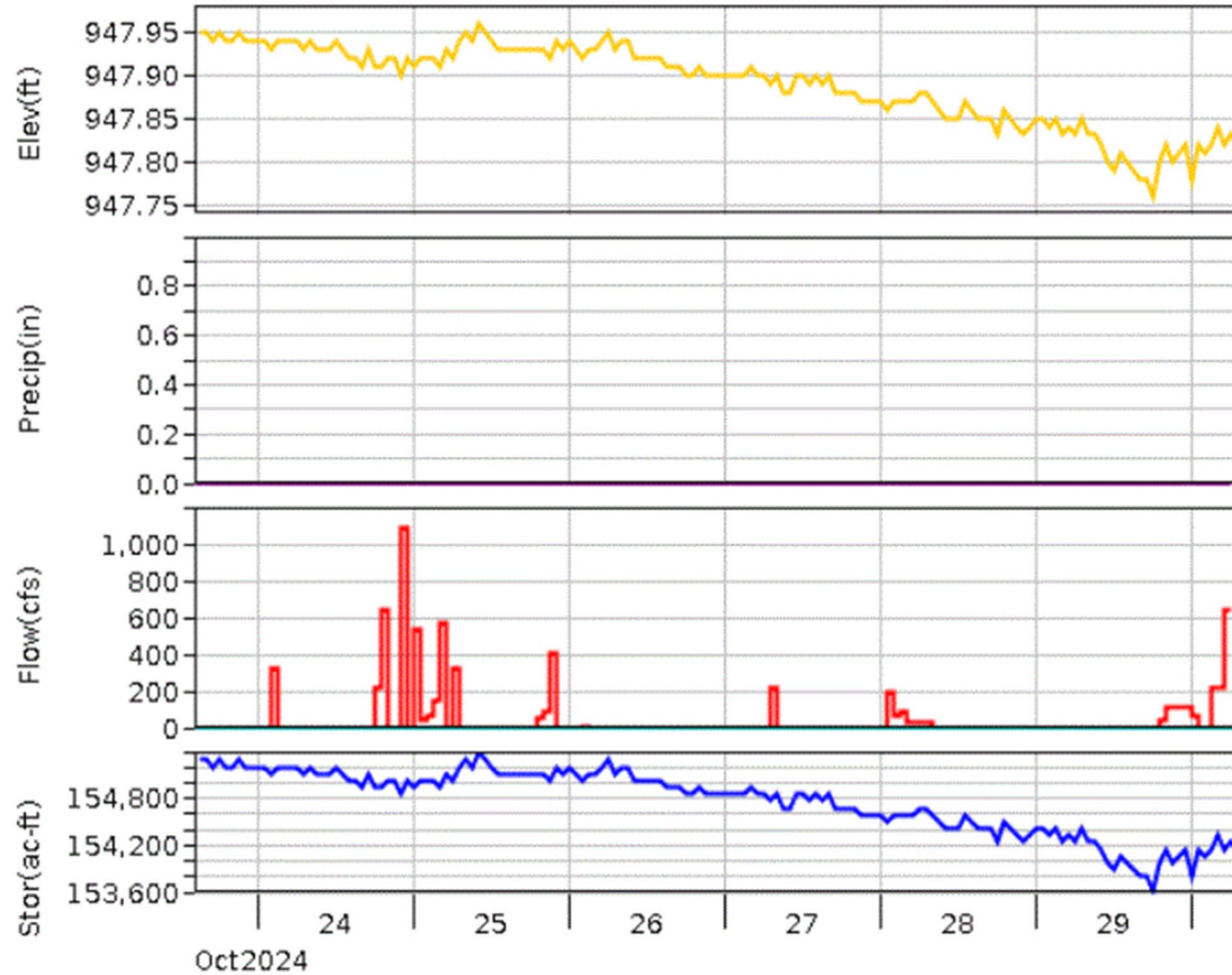
Scroll the page to view information such as current readings, the most recent gate change, current reservoir data, and more.

Graphs

of Measured and Calculated Lake Parameters

[View 24H and 7Day Graphs \(Enlarged\)](#)

Graphs are also available to show recent and current elevation, precipitation, flow, and storage for Waurika Lake.



Alternate Water Supply Projects

In order to sustain Lawton's water supply for the future, the alternate water supply projects are working to expand and diversify our water supply options by incorporating additional sources.

These projects aim to:

- Increase drought resiliency
- Augment the drinking water supply
- Decrease reliance on surface water
- Reduce the impact of emergency drought responses.

Alternate Water Supply Projects



PU2301 Groundwater Wells Project

- The well pictured here is the first production well in this project that has been successfully drilled to produce groundwater from the Arbuckle-Timbered Hills Aquifer.
- 4 more production wells with available water are currently contracted to be drilled for production.
- A reverse osmosis treatment system is being designed at the Southeast Water Treatment Plant to treat this water to potable standards.
- Additional pilots testing different treatment methods are underway to find the most economical and efficient form of water treatment.