



Date Submitted: 6/6/2025

Water Use Efficiency Annual Performance Report - 2024

WS Name: WASHINGTON STATE UNIVERSITY

Water System ID# : 93200 WS County: WHITMAN

Report submitted by: *Jeff Lannigan*

Meter Installation Information:

Estimate the percentage of metered connections: *More Than 75%*

If not 100% metered – Did you submit a meter installation plan to DOH? Yes

Within your meter installation plan, what date did you commit to completing meter installation? 6/30/2021
12:00:00 AM

Current status of meter installation:

WSU has continued to prioritize and design solutions for the remaining unmetered facilities, and installed 89 additional water meters in 2024 and early 2025 to achieve 95% campus metering by area. The remaining unmetered connections will be addressed as funding becomes available, with timing TBD. Due to limited resources, metering funds are primarily allocated to maintaining existing meters and supporting new energy metering requirements under Clean Buildings and other climate legislation.

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period 01/01/2024 To 12/31/2024

Incomplete or missing data for the year? Yes

If yes, explain:

Water use is not fully metered; therefore, Authorized Consumption is estimated using a comparable water use intensity (WUI) analysis.

Total Water Produced & Purchased (TP) – Annual volume gallons	419,614,000 gallons	
Authorized Consumption (AC) – Annual Volume in gallons	356,304,000 gallons	
Distribution System Leakage – Annual Volume TP – AC	63,310,000 gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	15.1 %	
3-year annual average - %	17.2 %	2022, 2023, 2024

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 04/17/2025

Has goal been changed since last performance report? No

Note: Customer goal must be re-established every 6 years through a public process.

Customer WUE Goal (Demand Side):

Other goals are to limit annual aquifer pumping increases to 1% of the pumping volume based on a 5 year moving average starting with 1986 (642 mgy). At no time shall the accumulated total pumping exceed 125% of the 1981 to 1985 average (702 – 877mgy), to improve irrigation systems to automatic systems (70-90% in ten years) and to eliminate 20 gpm of cooling water to the drain in 3 years.

Customer (Demand Side) Goal Progress:

WSU has continued outreach to both the residential and non-residential population on campus to encourage conservation and stewardship. Outreach to communicate the importance of efficient water use is ongoing.

Additional Information Regarding Supply and Demand Side WUE Efforts

WSU's Water Conservation Task Force, comprising operations, engineering, and demand-side staff, continues to meet monthly to evaluate water use data, identify anomalies, investigate demands, resolve issues, and verify corrections. This initiative has effectively identified leaks, system inefficiencies, and faulty meters, ensuring efficient water use. Additionally, WSU has implemented low-flow fixtures in select facilities and upgraded all irrigation systems to be fully automated and centrally controlled.

Describe Progress in Reaching Goals:

- Estimate how much water you saved.
- Report progress toward meeting goals within your established timeframe.
- Identify any WUE measures you are currently implementing.
- If you established a goal to maintain a historic level (such as maintaining daily consumption at 65 gallons per person per day for the next two years) you must explain why you are unable to reduce water use below that level.

Water use at WSU Pullman in 2024 totaled 419,614,000 gallons, a decrease from 436,185,896 gallons in 2023. Over the past 30 years, water use has trended downward while campus GSF has increased by 40%. The median domestic WUI was 12.24 gal/GSF in 2024.

The water use goals established in 2015 and reaffirmed in 2022 have been met. Total pumping in 2024 (419.6 million gallons) remains well below the 125% threshold of the 1981–1985 average (877 million gallons). Efforts to eliminate cooling water waste are ongoing.

The following questions will help DOH better understand water usage, water resources management and drought response. The data will be used to provide technical assistance, not for regulatory purposes.

All questions are voluntary

Month	Date of Measurement	Static Water Level (feet below measuring point)	Dynamic Water Level (feet below measuring point)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

Water level data:

Please provide the following information (if known) to help us better utilize the water level data.

Well tag Id number:

Well depth:

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)

Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc...)

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)?

Month	Volume of Water Produced in gallons
January	22,780,088
February	21,950,016
March	22,234,976
April	23,937,920
May	29,128,064
June	47,247,016
July	75,239,928
August	69,470,072
September	43,589,000
October	27,504,984
November	19,791,928
December	16,776,008

Water shortage response:

Did you activate any level of water shortage response plan the previous year?

- Yes No There was no need to

If you activated a water shortage response plan the previous year, what level did you activate? (Check all that apply)

- Advisory Conservation Voluntary Conservation
 Mandatory Conservation Rationing Other

What factors caused your water shortage the previous year?

- Drought Fire Landslides Earthquakes
 Flooding Water Supply Limitations Other

Do not mail, fax, or email this report to DOH