Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

Date Submitted: 6/17/2025

Water Use Efficiency
Annual Performance Report - 2024

WS Name: NAPAVINE CITY OF

Water System ID# : 58200 WS County: LEWIS

Report submitted by: *Bryan Morris*

Meter Installation Information:

Estimate the percentage of metered connections: *100%*

If not 100% metered – Did you submit a meter installation plan to DOH? No

Within your meter installation plan, what date did you commit to completing meter installation?

Current status of meter installation:

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? *No*

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	*55,008,615* gallons	
Authorized Consumption (AC) – Annual Volume in gallons	*50,390,459* gallons	
Distribution System Leakage – Annual Volume TP – AC	*4,618,156* gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	*8.4 %*	
3-year annual average - %	*6.5 %*	*2022, 2023, 2024*

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: *05/28/2024*

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):

1. Switch out all old radio read Master meters and replace with cellular Badger meters. 2. Continue to inform and educate all citizens that are upgraded or currently have a cellular Badger meter about the benefits provided with the EyeOnWater App. 3. Continue to inform and educate all citizens on installing and using low flow appliances and apparatuses for homes.

Customer (Demand Side) Goal Progress:

1. Switch out all old radio read Master meters and replace with cellular Badger meters. Currently have 324 Badger meters installed. Badger meters provide staff with instant leak detection. 2. Continue to inform and educate all citizens that are upgraded or currently have cellular Badger meter about the benefits provided with the EyeonWater app. Currently have 49 EyeonWater App users enrolled, this allows immediate leak detection that citizens can access at their fingertips. 3. Continue to inform and educate all citizens on installing and using low flow appliances and apparatuses for homes.

Additional Information Regarding Supply and Demand Side WUE Efforts

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.

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	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

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

Katie Williams

From: wue@doh.wa.gov
Sent: Tuesday, June 17, 2025 9:25 AM
To: Bryan Morris
Cc: Default for Testing
Subject: Water Use Efficiency Report Successfully Received

Your Water Use Efficiency Annual Performance Report has been successfully received by the Department of Health's online reporting system.

Please use the link below to view the report:

2024 Water Use Efficiency Performance Report for NAPAVINE CITY OF

If you have any questions, please contact Brian Walsh at Brian.Walsh@doh.wa.gov or (360) 236-3102.

Thank you for your participation!

MONTH	WELL #2	WELL #3	WELL #4	WELL #5	WELL #6	TOTAL		
JANUARY	1,537,290	125,589	757,000	1,221,409	896,500	4,537,788		2024 Water Billed
FEBRUARY	1,301,520	103,822	658,300	977,187	766,100	3,806,930		
MARCH	1,371,682	113,322	680,000	926,174	783,100	3,874,278		
APRIL	1,267,935	124,841	757,400	1,237,042	777,400	4,164,618		
MAY	1,322,015	-	1,220,400	1,078,317	866,800	4,487,532	Gallons Billed	49,308,459
JUNE	619,793	-	2,221,000	28,424	954,800	3,824,017		
JULY	-	-	3,668,500	2,324,260	1,850,400	7,843,160		
AUGUST	-	-	3,045,000	969,034	1,552,100	5,566,134		
SEPTEMBER	-	-	3,110,700	691,077	1,356,800	5,158,577		
OCTOBER	-	-	2,453,300	849,878	989,600	4,292,778		
NOVEMBER	-	-	1,935,300	822,127	611,000	3,368,427		
DECEMBER	-	-	2,385,500	981,376	717,500	4,084,376		
TOTAL GALLONS	7,420,235	467,575	22,892,400	12,106,305	12,122,100	55,008,615	55,008,615	

Supplies Water ONLY to Water Tower

WELL #2-IN CUBIC FT.	START CU. FT./Reads	CONVERTED TO GALLONS	END/Reads	GALLON END	TOTAL GALLONS USED			
JAN	5,327,540	39,849,999	5,533,060	41,387,289	1,537,290			
FEB	5,533,060	41,387,289	5,707,060	42,688,809	1,301,520			
MAR	5,707,060	42,688,809	5,890,440	44,060,491	1,371,682			
APR	5,890,440	44,060,491	6,059,950	45,328,426	1,267,935			
MAY	6,059,950	45,328,426	6,236,690	46,650,441	1,322,015		Total loss	
JUNE	6,236,690	46,650,441	6,319,550	47,270,234	619,793	6-13 shutdown	5,700,156	
JULY	6,319,550	47,270,234	6,319,550	47,270,234	-			
AUG		-		-				
SEPT	-	-		-	-			
OCT	-	-		-	-			
NOV	-	-		-	-			
DEC	-	-	-	-	-			
TOTAL			992,010	7,420,235	7,420,235		7,420,235	

Supplies Water to Schools

WELL #3-IN CUBIC FT.	START CU. FT./Reads	CONVERTED TO GALLONS	END CU. FT./Reads	GALLON END	TOTAL GALLONS USED		
JAN	3,121,200	23,346,576	3,137,990	23,472,165	125,589		
FEB	3,137,990	23,472,165	3,151,870	23,575,988	103,822		
MAR	3,151,870	23,575,988	3,167,020	23,689,310	113,322		
APR	3,167,020	23,689,310	3,183,710	23,814,151	124,841		
MAY	3,183,710	23,814,151	3,183,710	23,814,151	-	4-29 shutdown	
JUNE		-		-			
JULY		-		-	-		
AUG	-	-		-	-		
SEP	-	-		-	-		
OCT	-	-		-	-		
NOV	-	-		-	-		
DEC	-	-		-	-		
TOTAL			62,510	467,575	467,575		467,575

Birch Resevoir supplies Water Tower

WELL #4-IN GALLONS	CONVERTED TO CU. FT.	START GALLONS/Reads	END CU. FT.	GALLON END/Reads	TOTAL GALLONS USE		
JAN	7,686,925	57,498,200	7,788,128	58,255,200	757,000		
FEB	7,788,128	58,255,200	7,876,136	58,913,500	658,300		
MAR	7,876,136	58,913,500	7,967,045	59,593,500	680,000		
APR	7,967,045	59,593,500	8,068,302	60,350,900	757,400		
MAY	8,068,302	60,350,900	8,231,457	61,571,300	1,220,400		
JUNE	8,231,457	61,571,300	8,528,382	63,792,300	2,221,000		
JULY	8,528,382	63,792,300	9,018,824	67,460,800	3,668,500		
AUG	9,018,824	67,460,800	9,425,909	70,505,800	3,045,000		
SEP	9,425,909	70,505,800	9,841,778	73,616,500	3,110,700		
OCT	9,841,778	73,616,500	10,169,759	76,069,800	2,453,300		
NOV	10,169,759	76,069,800	10,428,489	78,005,100	1,935,300		
DEC	10,428,489	78,005,100	10,747,406	80,390,600	2,385,500		
TOTAL			3,060,481	22,892,400	22,892,400		22,892,400

Birch Resevoir supplies Water Tower

WELL #5-IN CUBIC FT.	START CU. FT./Reads	CONVERTED TO GALLON	END CU. FT./Reads	GALLON END	TOTAL GALLONS USE		
JAN	9,221,570	68,977,344	9,384,860	70,198,753	1,221,409		
FEB	9,384,860	70,198,753	9,515,500	71,175,940	977,187		
MAR	9,515,500	71,175,940	9,639,320	72,102,114	926,174		
APR	9,639,320	72,102,114	9,804,700	73,339,156	1,237,042		
MAY	9,804,700	73,339,156	9,948,860	74,417,473	1,078,317		
JUNE	9,948,860	74,417,473	9,952,660	74,445,897	28,424		
JUL	9,952,660	74,445,897	10,263,390	76,770,157	2,324,260	add 10 to front	
AUG	10,263,390	76,770,157	10,392,940	77,739,191	969,034		
SEP	10,392,940	77,739,191	10,485,330	78,430,268	691,077		
OCT	10,485,330	78,430,268	10,598,950	79,280,146	849,878		
NOV	10,598,950	79,280,146	10,708,860	80,102,273	822,127		
DEC	10,708,860	80,102,273	10,840,060	81,083,649	981,376		
TOTAL			1,618,490	12,106,305	12,106,305		12,106,305

WELL #6-IN GALLONS	CONVERTED TO CU. FT.	START GALLONS/Reads	END CU. FT.	GALLON END/Reads	TOTAL GALLONS USE	
JAN	4,058,730	30,359,300	4,178,583	31,255,800	896,500	
FEB	4,178,583	31,255,800	4,281,003	32,021,900	766,100	
MAR	4,281,003	32,021,900	4,385,695	32,805,000	783,100	
APR	4,385,695	32,085,000	4,489,626	33,582,400	777,400	
MAY	4,489,626	33,582,400	4,605,508	34,449,200	866,800	
JUNE	4,605,508	34,449,200	4,733,155	35,404,000	954,800	
JULY	4,733,155	35,404,000	4,980,535	37,254,400	1,850,400	
AUG	4,980,535	37,254,400	5,188,035	38,806,500	1,552,100	
SEP	5,188,035	38,806,500	5,369,425	40,163,300	1,356,800	
OCT	5,369,425	40,163,300	5,501,725	41,152,900	989,600	
NOV	5,501,725	41,152,900	5,583,409	41,763,900	611,000	
DEC	5,583,409	41,763,900	5,679,332	42,481,400	717,500	
TOTAL			1,620,602	12,122,100	12,122,100	12,122,100

49 308 459
600 000
282010
200,000
50390459