# OLYMPIC VALLEY
# PUBLIC SERVICE DISTRICT
## BOARD REPORT

| | | | |
|---|---|---|---|
| **SUBJECT:** | Water and Sewer System Annual Report | **EXHIBIT:** | F-2, 27 Pages |
| **AUTHOR:** | Nicolas Massetani, Operations Superintendent | **MEETING DATE:** | April 28, 2026 |

**RECOMMENDED ACTION:** This report is informational only; no action is requested from the Board.

**DISCUSSION**: This report is a summary of the Operations Department's activities during the 2025 calendar year. The report covers notable crew accomplishments and administrative work, water and sewer inventories, graphs representing trends on aquifer levels, water production, sewer collection, vehicle maintenance, and fuel usage.

**FISCAL/RESOURCE IMPACTS:** None

**ATTACHMENTS**:

- 2025 Water and Sewer System Annual Report
- Presentation Slides

**DATE PREPARED**: April 20, 2026

# OLYMPIC VALLEY
# PUBLIC SERVICE DISTRICT

## 2025 WATER & SEWER SYSTEM REPORT

Prepared April 2025

By

Nicolas Massetani

# Table of Contents

# OVPSD Utilities Report 2025

## Annual Summary

This past year was another productive one for our water and sewer operations crew. We're a small team, but we continue to take on a wide range of work and keep things moving in the right direction.

From an operations and compliance standpoint, the crew stayed on top of water quality sampling and regulatory reporting requirements with the State Water Board and Division of Drinking Water. We collected 63 required samples and remained in full compliance. The team also kept up with required certifications and continuing education through training and conferences.

One of the bigger milestones this year was completing installation of cellular endpoint water meters for all residential customers. This has significantly improved how we monitor the system and respond to issues. In the past, leak detection was limited to periodic monthly reviews. With continuous data now available, we're able to identify potential leaks much earlier, notify customers faster, and reduce overall water loss.

In addition to that work, the crew replaced over 147 water meters, repaired three water service lines, and addressed two water main leaks. On the sewer side, we replaced the T45 sewer flow meter and continued to build on our preventive maintenance program. We inspected and cleaned over 50% of the system's sewer lines and manholes, which played a direct role in achieving another year with zero sanitary sewer overflows. That proactive approach continues to be a priority for reducing emergency work and keeping the system operating efficiently.

Customer service remains a core part of what we do. Despite the departure of Operations Superintendent Samuel Donahue, the team maintained a high level of responsiveness to service requests and emergencies. We also brought on Christian Hamil, who has been a great addition and is already contributing to the team.

Overall, it was a strong year. The crew continues to take pride in the work and stays committed to providing reliable service to the community. We're looking forward to continuing this progress and building on it in the year ahead.

**Respectfully,**

Nicolas Massetani

Operations Superintendent

# Flow Report

## Water Production

- Total = 103.75 MG
- Comparison: +2.6 MG compared to 2024

## Sewer Collection

- Total Collected: 85.81 MG
- Comparison: +6.65 MG compared to 2024

## Aquifer Level

- 2025 Maximum Level: 6189.9’ (May 12, 2025)
- 2025 Minimum Level: 6182.1’ (September 29, 2025)
- 2025 Static Water Level Change: 7.8’
- 2024 Static Water Level Change: 9.4’

## Precipitation Total

- 2025 Water Year Total: 52.34"
- 60-Year average: 53.55"
- Percent of Average: 97.74%

Notes:

*** Lowest recorded aquifer level: 6,174.0 feet (October 12, 2001).*

**** Creek bed elevation near Well 2r: 6,186.9 feet. (West Yost Associates)*

***** Precipitation total measured from October 2024 - September 2025.*

****** Historical precipitation data (1994-2004) may have inaccuracies*

******* Water production totals may differ from SCADA due to time of day reading variations.*

# Leaks, Repairs, and Maintenance

## Water

- Water meters replaced/installed: 147
- Customer service water meters turned on/off: 13
- Leak/high usage notification: 35
- Customer leak detection services: 15
- No water responses: 7
- Fire hydrants flushed: 165
- Blow-offs flushed: 20
- Valves exercised: 81
- Service line repair/replace: 3
- Water main leaks: 2
- Backflow devices tested: 576
- Quarterly vault inspections (Well 1R and Well 3): 8
- Water tank inspections: 12
- Water quality complaints: 12
  * All related to Tiger Tail broken water main
- Air/Vac breakers replaced: 0
- Water samples collected:
  - Bacteriological: 48
  - Secondary Standards: 1
  - Nitrite/Nitrate: 5
  - VOC: 2
  - Cyanide: 0
  - Asbestos: 0
  - Inorganic: 0
  - Lead/Copper: 0
  - Gross Alpha: 0
  - Uranium: 0
  - Radium: 0
  - 1,2,3-Trichloropropane: 0
  - Hex chromium: 5
  - SOC: 2
  - Dinoseb: 0
  - Lead/Copper: 0
  - Perchlorate: 0

## Sewer

- Sanitary sewer overflows: 0
- Quarterly vault inspections (HWY 89): 4

Cleaning Activities:

- High priority lines cleaned: Spring and Fall
- Main sewer lines cleaned: Sections 1 and 3

## Inspections

- Underground Service Alerts: 136
- Final Inspections: 5
- Fixture count inspections: 1
- Water service line inspections: 8
- Sewer service line inspections: 19
- Sewer service line pressure test: 30
- Sewer main line inspections: 3
- Water quality complaint investigations: 12
- Cross-connection Control Surveys: 5
- Fog Inspections: 0
- Second Unit Inspection: 1

## Operation & Maintenance Projects

- T45 Sewer Meter Replacement
- Vegetation removed along tank access roads
- Gate valve box repairs
- Sewer system I/I inspections
- Manhole paving repairs
- Manhole casting replacements
- Spring and fall flushing
- Annual and high priority sewer cleaning
- Hydrant bollard and fire hydrant repairs
- Tank inspections
- Sewer C/O locating
- Meter box replacements
- Green waste cleanup
- Meter and cellular endpoint replacement project
- 1810 Sand Barn Roof Replacement
- Well 5 Roof Replacement

# Building and Grounds Maintenance and Repair

## 305 Olympic Valley Rd Fire Department and Administration

- Ongoing monthly service and maintenance of facility, equipment and HVAC system
- Backflow repair
- Roof repair
- Boiler water control valve replacement
- Boiler pump replacement
- Hydronic Leak Repair
- Bathroom Faucet Replacement
- Kitchen faucet and drain repair

## 1810 Olympic Valley Rd District Equipment Garage

- Ongoing monthly service and maintenance of facility and equipment
- Hot Water Heater Replacement
- Exhaust Fans Repaired

## Vehicles and Equipment

### Vehicles

- All vehicles serviced annually, with the exception of the 2014 Ford F-150, which received biannual services.

### Equipment

- All small equipment received annual service.

## Administrative

- VUE Works data input
- Sewer monthly/annual reports
- CCRs preparation
- CARB reporting
- eAR
- SAFER Clearinghouse submissions

# Year End Charts & Graphs

## Water System Inventory – 2025

**Updated Information to Match District GIS Database**

1. Water Well #1R – 380 GPM average *
2. Water Well #2R – 330 GPM average *, **
3. Water Well #3 – 110 GPM average *
4. Water Well #4 – (Not in Service)
5. Water Well #5R – 390 GPM average *
6. Horizontal Well – (Out of Service) ***
7. West Tank - 1,150,000 Gallon Water Tank
8. East Tank - 500,000 Gallon Water Tank
9. Zone 3 Tank - 135,000 Gallon Water Tank

Total Storage – 1,785,000 Gallons

10. 2 Booster Pumping Stations
11. 901 Water Meters connected
12. 132 Fire Hydrants
13. 24 Air Release Valves
14. 576 Backflow Prevention Devices
15. 419 Gate Valves

Notes:
* GPM averaged from the time wells were on and running.
** Well 2R GPM is affected by seasonal aquifer level changes. During low aquiver level years, the well GPM is reduced to prevent pumping below the well screens.
*** Horizontal Well is out of service. When it runs GPM is affected by gravity flow and changes from one year to the next. Longer periods of operation will lower the GPM. The average in 2016 was 70 GPM.

## Continued, Water System Inventory – 2025

16. 10 Butterfly Valves
17. 27 Blow Off Assemblies
18. 6 Control Valves (Granite Chief, East Booster, Zone 3 Booster, Hz Well, Well 5)
19. 3 Transducer Stations (West Tank, East Tank, and Zone Three Tank)
20. 7 Remote Terminal Units (RTU), SCADA Telemetry System
21. 16,358 Feet 12" Water Distribution Main
22. 10,514 Feet 10" Water Distribution Main
23. 28,960 Feet 8" Water Distribution Main
24. 26,927 Feet 6" Water Distribution Main
25. 726 Feet 4" Water Distribution Main
26. 505 Feet 2" Water Distribution Main
27. 30 Feet 8" Water Service Line
28. 87 Feet 6" Water Service Line
29. 20 Feet 4" Water Service Line
30. 143 Feet 3" Water Service Line
31. 2,847 Feet 2" Water Service Line
32. 291 Feet 1.5" Water Service Line
33. 3,109 Feet 1" Water Service Line
34. 11,518 Feet ¾" or smaller Water Service Line

Total Water Main = 84,014 Feet = 15.91 Miles
Total Water Services = 18,047 Feet = 3.42 Miles
Combined Total = 102,061 Feet = 19.33 Miles

# Year End Water Audit Report 2025

Report Date: April 9, 2026 Performed By: Nic Massetani

Year: 2025

Begin Audit Period: 1/3/25 12:00 AM
End Audit Period: 12/31/25 12:00 AM

Total Metered Consumption for audit period specified (including hydrant meters): 84,893,408

| Additional Consumption - Unmetered | | |
|---|---|---|
| Fire Department Use: | 95,000 | |
| Hydrant Flushing: | 2,320,355 | |
| Blow-Off Flushing: | 144,375 | |
| Sewer Cleaning: | 80,370 | |
| Street Cleaning: | | |
| Well Flushing: | | |
| Tank Overflows: | | |
| Unread Meter Estimated Reads: | 4,882,099 | |
| Other: | | |
| Total Unmetered Consumption (for audit period specified): | | 7,522,199 |

| Estimated Unknown Loss - Unmetered | | |
|---|---|---|
| Known Theft: | | |
| Known Illegal Connections: | | |
| Total Estimated leaks that have been repaired: | 913,930 | |
| Total Estimated Unmetered (for audit period specified): | | 913,930 |

Total Production for audit period specified: 103,543,721

Total Metered/Unmetered Consumption for audit period specified: 93,329,537

**Total Water Loss (Production - Consumption): 10,214,184**

**Loss Percentage: 9.9%** ***

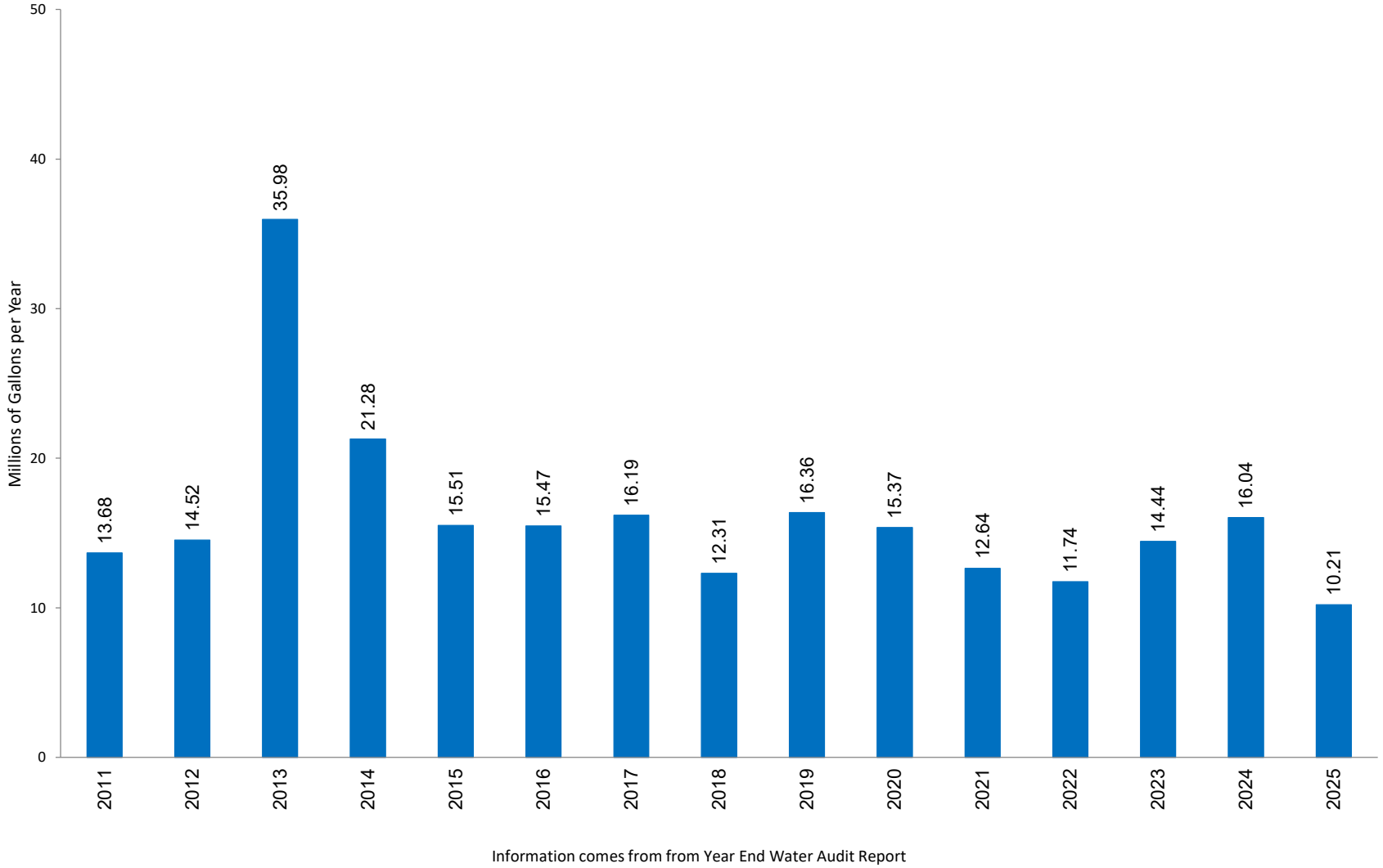
**Comments:**

* Instructions - Only fill in the blue cells *

* Note - All Production & Consumption Totals In U.S. Gallons *

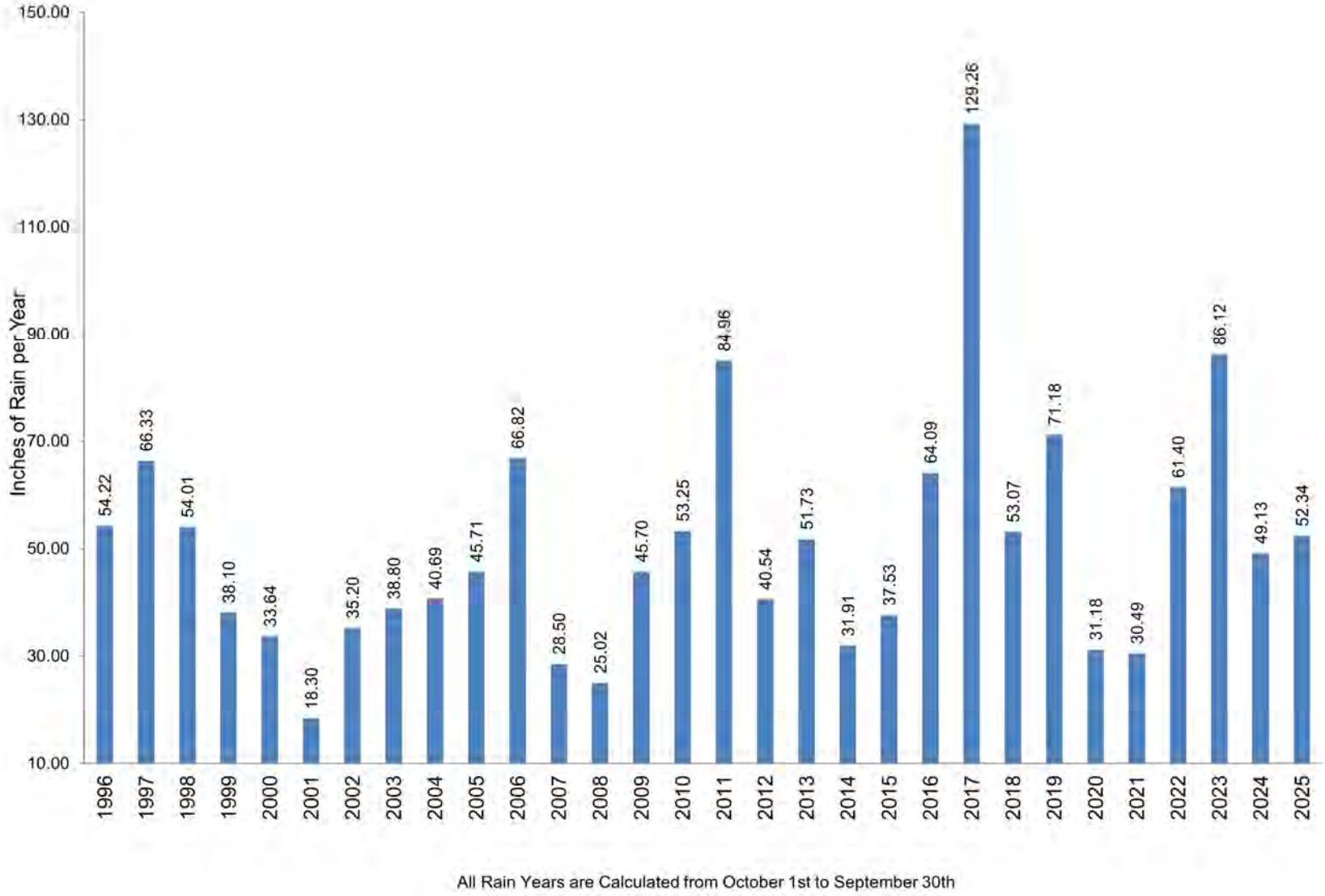
*** Note - Total Water Loss Percentage inclued theft, Illegal Connections or Leaks that have been repaired

# 15 Year Water Loss Trend



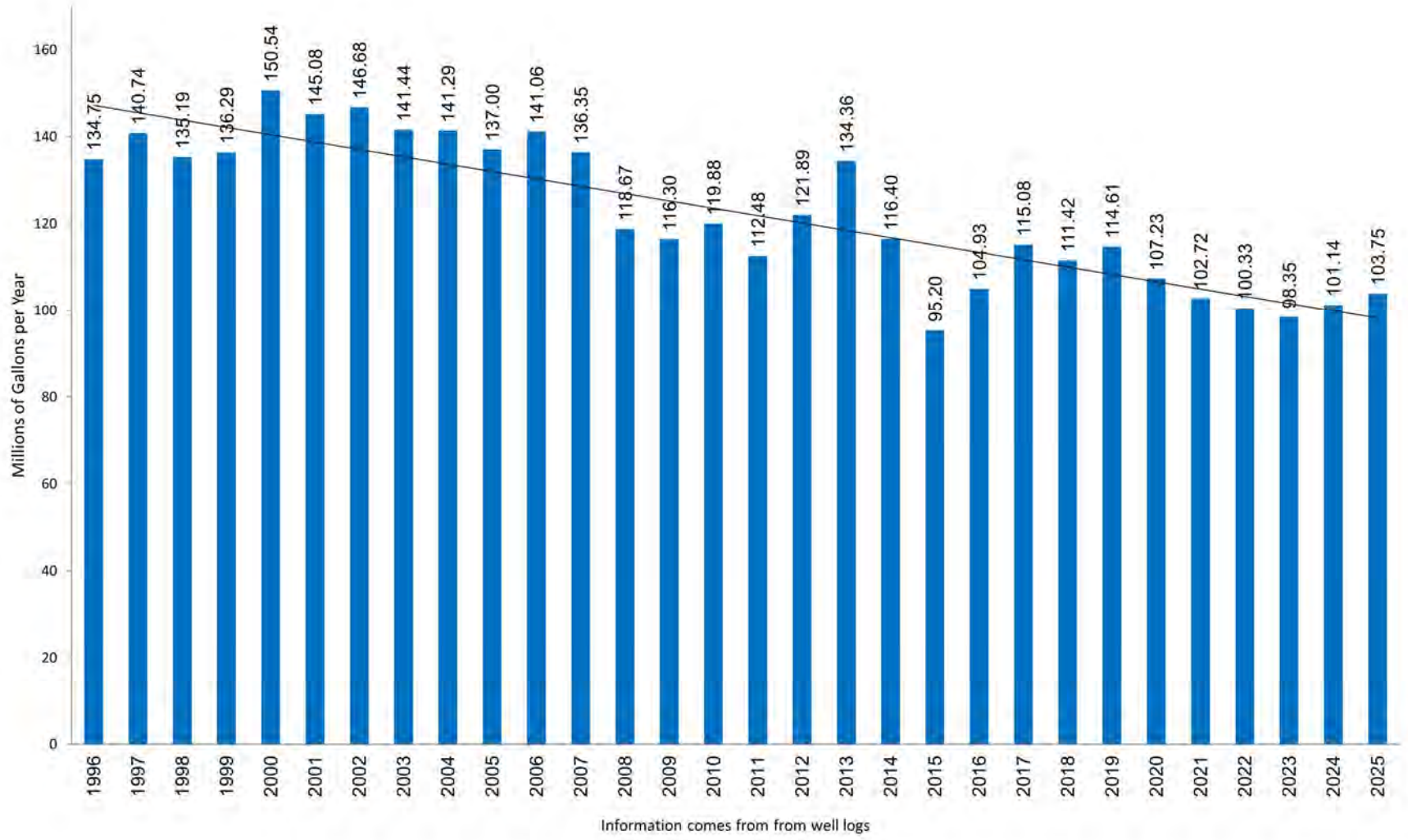

Information comes from from Year End Water Audit Report

# 30 Year Precipitation Trend

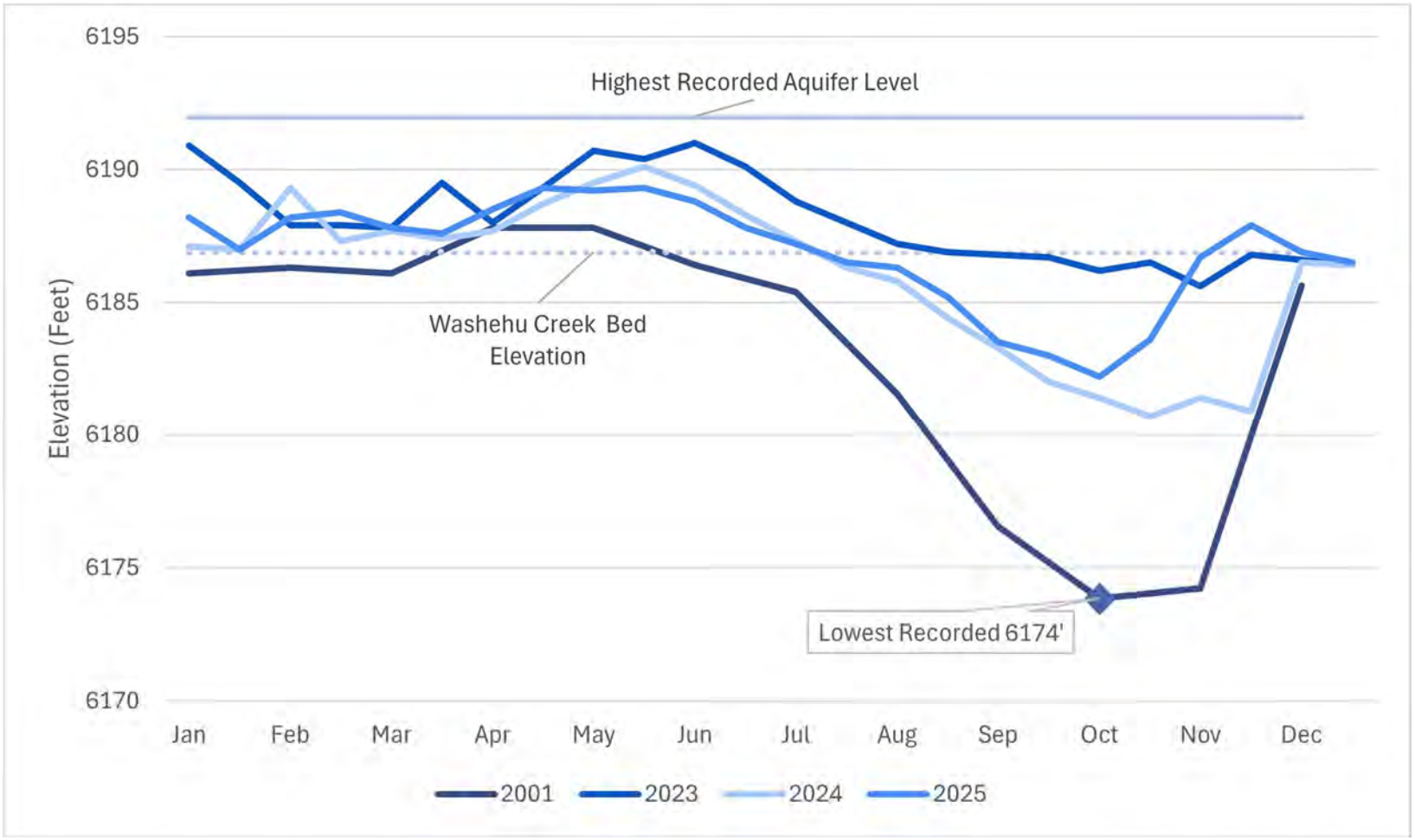



All Rain Years are Calculated from October 1st to September 30th

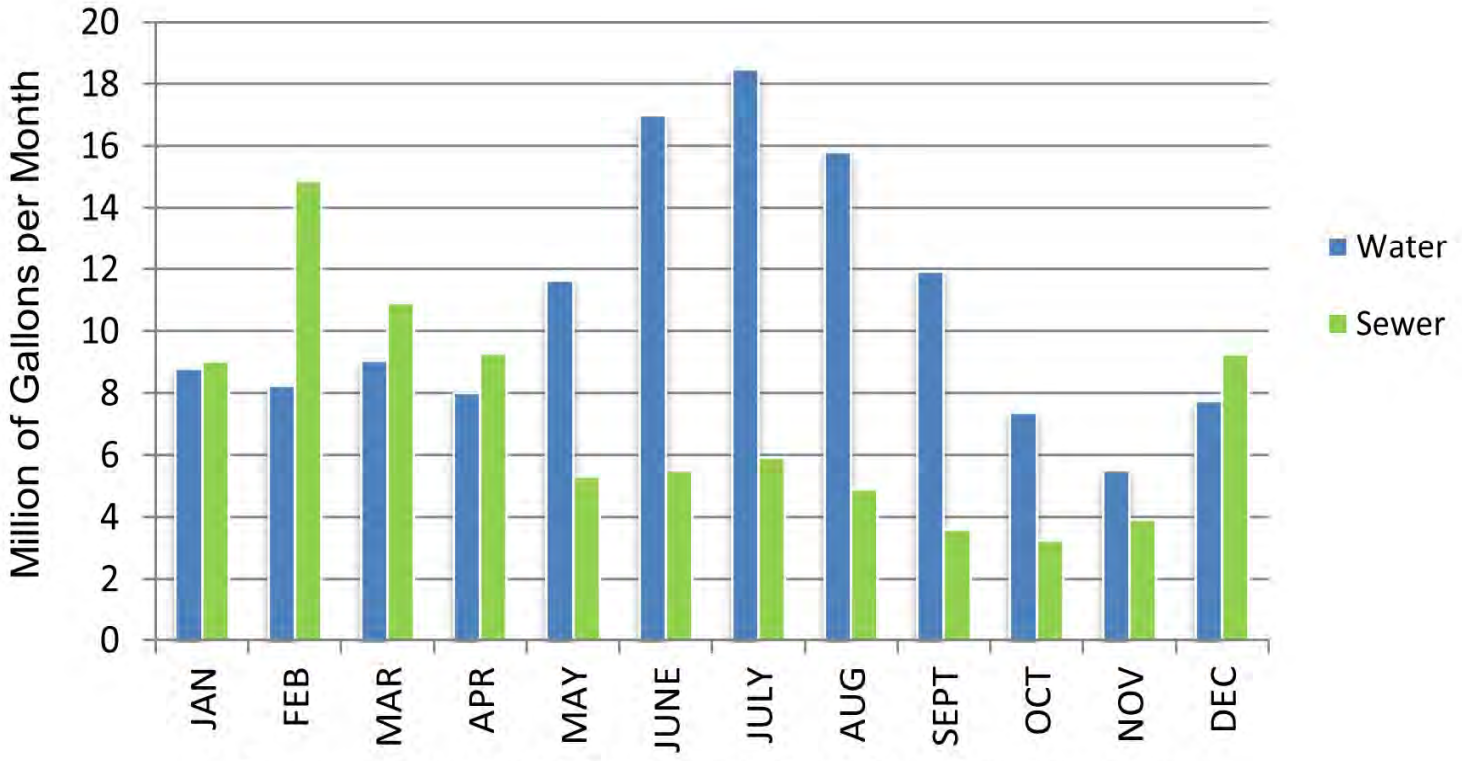
# 30 Year Water Production Trend



# Aquifer Levels 3 Year Trend



# Water & Sewer Comparison-Graph

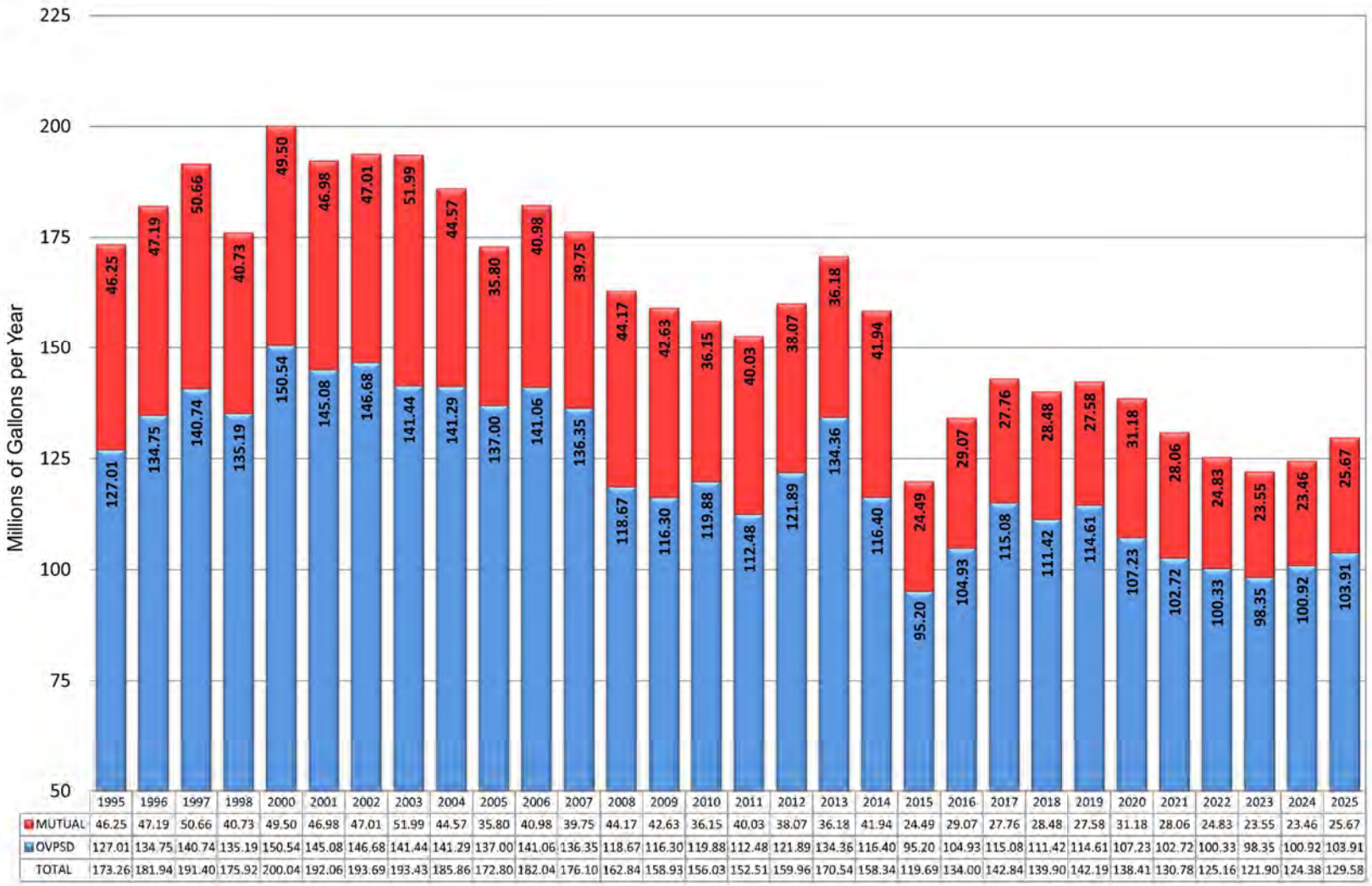



Compares Total Monthly Water Production to Total Sewer Collection
Water information comes from well logs
Water total includes OVPSD and SVMWC
Sewer information comes from SCADA

# Water & Sewer Comparison-Data

| Water and Sewer Production 2025 | | | | | |
|---|---|---|---|---|---|
| | WATER | WATER | **WATER** | **SEWER** | |
| | OVPSD | OVMWC | **TOTAL** | **TOTAL** | |
| JAN | 7.12 | 1.68 | 8.80 | 9.02 | |
| FEB | 6.76 | 1.48 | 8.24 | 14.89 | |
| MAR | 7.40 | 1.66 | 9.06 | 10.92 | |
| APR | 6.32 | 1.68 | 8.00 | 9.29 | |
| MAY | 8.47 | 3.17 | 11.64 | 5.31 | |
| JUNE | 13.59 | 3.40 | 16.99 | 5.52 | |
| JULY | 15.19 | 3.29 | 18.48 | 5.91 | |
| AUG | 12.84 | 2.97 | 15.81 | 4.92 | |
| SEPT | 9.68 | 2.25 | 11.93 | 3.61 | |
| OCT | 6.01 | 1.37 | 7.38 | 3.24 | |
| NOV | 4.33 | 1.18 | 5.51 | 3.91 | |
| DEC | 6.20 | 1.54 | 7.74 | 9.27 | |
| | 103.91 | 25.67 | 129.58 | 85.81 | Million Gallons |
| Water information comes from well logs | | | | | |
| Sewer information comes from SCADA -- HWY 89 Flowmeter | | | | | |

# 30 Year Combined Water Production Trend




| | 1995 | 1996 | 1997 | 1998 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MUTUAL | 46.25 | 47.19 | 50.66 | 40.73 | 49.50 | 46.98 | 47.01 | 51.99 | 44.57 | 35.80 | 40.98 | 39.75 | 44.17 | 42.63 | 36.15 | 40.03 | 38.07 | 36.18 | 41.94 | 24.49 | 29.07 | 27.76 | 28.48 | 27.58 | 31.18 | 28.06 | 24.83 | 23.55 | 23.46 | 25.67 |
| OVPSD | 127.01 | 134.75 | 140.74 | 135.19 | 150.54 | 145.08 | 146.68 | 141.44 | 141.29 | 137.00 | 141.06 | 136.35 | 118.67 | 116.30 | 119.88 | 112.48 | 121.89 | 134.36 | 116.40 | 95.20 | 104.93 | 115.08 | 111.42 | 114.61 | 107.23 | 102.72 | 100.33 | 98.35 | 100.92 | 103.91 |
| TOTAL | 173.26 | 181.94 | 191.40 | 175.92 | 200.04 | 192.06 | 193.69 | 193.43 | 185.86 | 172.80 | 182.04 | 176.10 | 162.84 | 158.93 | 156.03 | 152.51 | 159.96 | 170.54 | 158.34 | 119.69 | 134.00 | 142.84 | 139.90 | 142.19 | 138.41 | 130.78 | 125.16 | 121.90 | 124.38 | 129.58 |

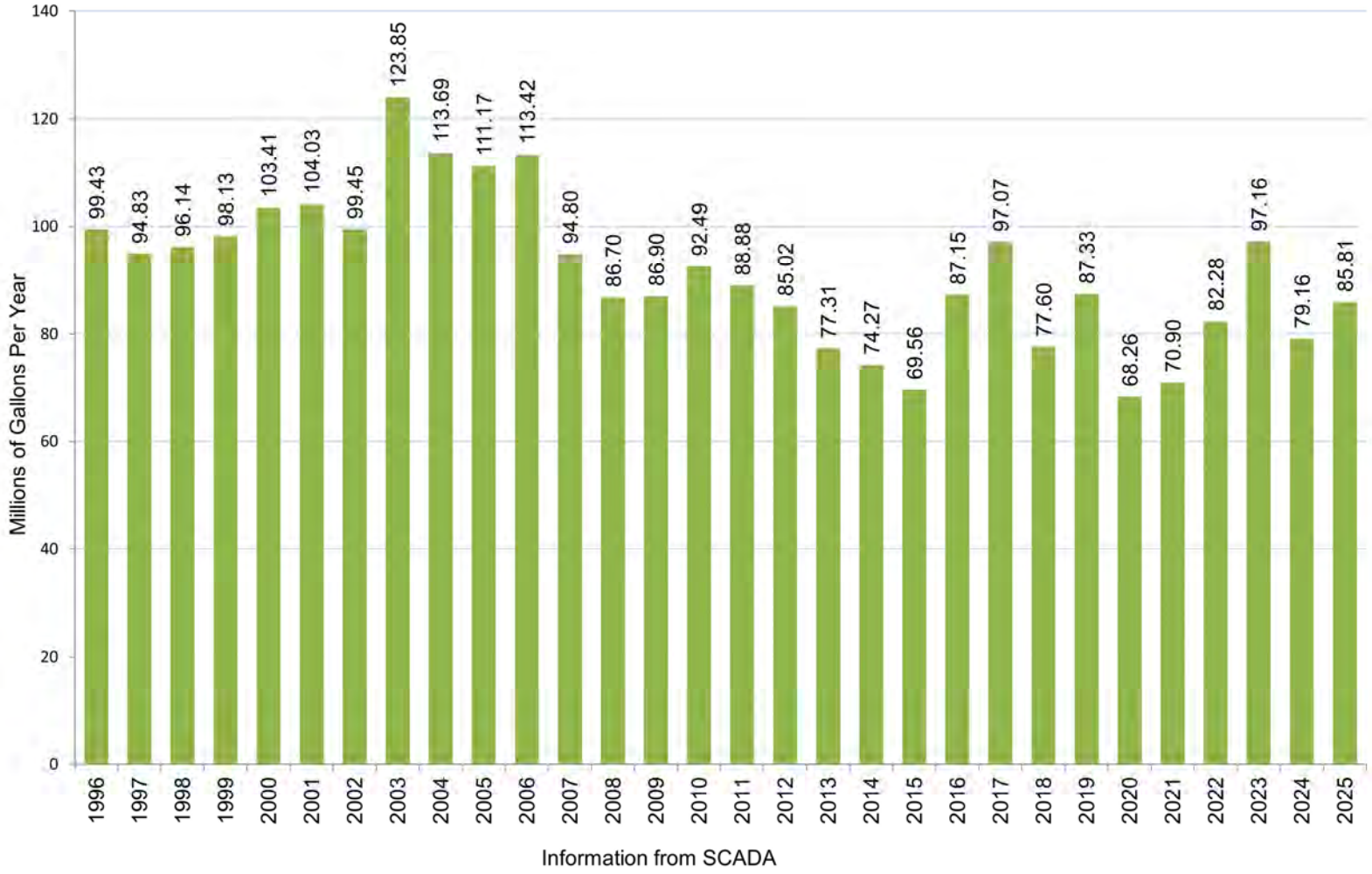
# Sewer System Inventory – 2025

Updated Information to Match District GIS Database

- 440 Sanitary Manholes
- 3 Siphons (6",12",16")
- 3 Sewer Flow Meters
    - Mag Meter, Painted Rock Siphon T-45A - District owned
    - Mag Meter, Mountain Run - Ski Corp owned
    - Mag Meter, HWY 89 - T-TSA owned
- 9 Feet 18" Sewer Main
- 11,170 Feet 15" Sewer Main
- 2,406 Feet 12" Sewer Main
- 9,012 Feet 10" Sewer Main
- 16,771 Feet 8" Sewer Main
- 49,061 Feet 6" Sewer Main
- 6,933 Feet 4" Sewer Main
- 19,658 Feet 4" District Sewer Lateral
- 668 Feet 6” District Sewer Lateral
- 1,054 Sewer Connections per Billing
- 2 Remote Terminal Units (RTU)

| | |
|---|---|
| Total Sewer Main | = 95,362 Feet (18.06 Miles) |
| Total District Sewer Laterals | = 20,326 Feet (3.85 Miles) |
| Combined Totals | = 115,689 Feet (21.91 Miles) |

# 30 Year Sewer Flow Trend

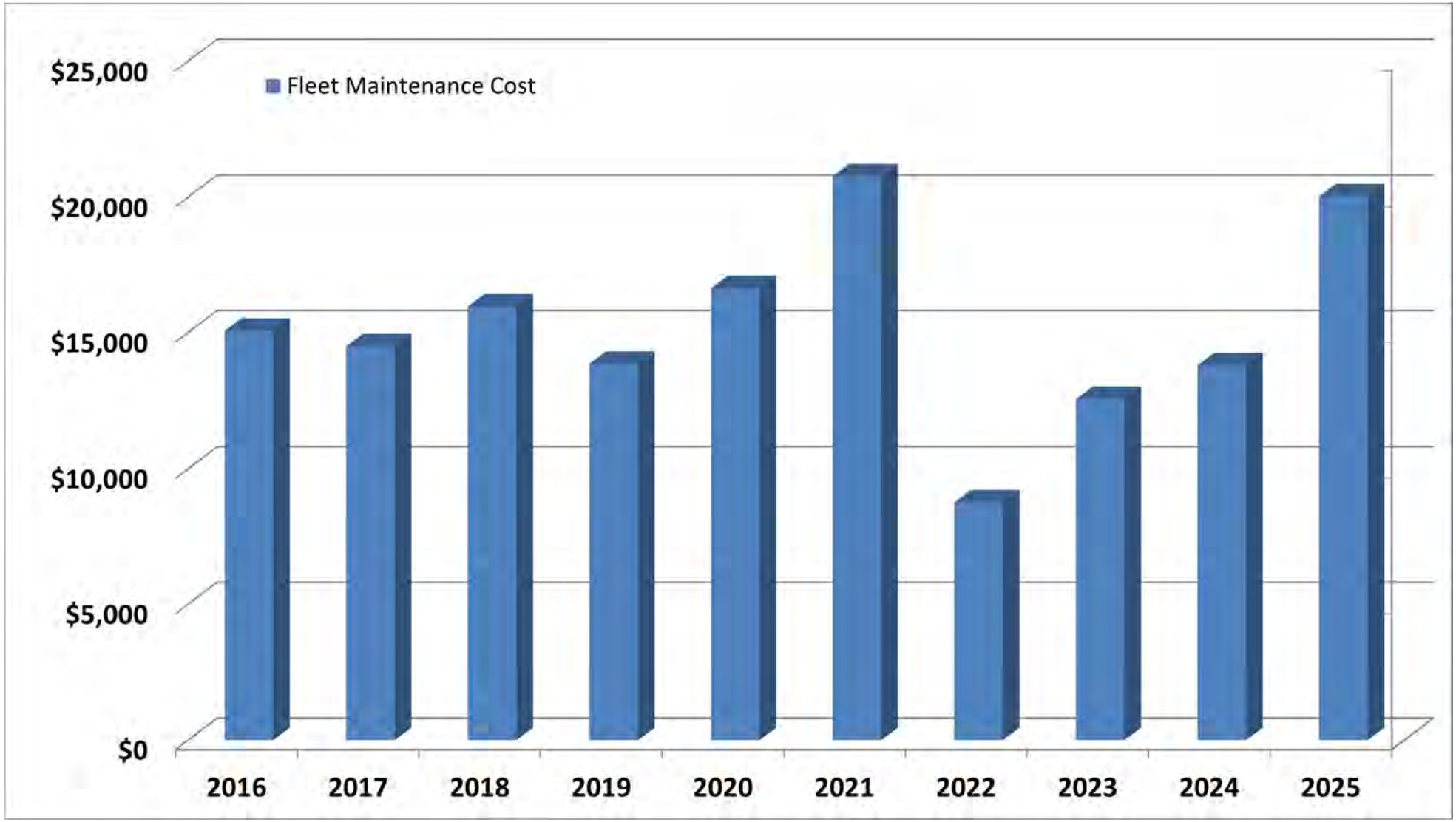


# Fleet

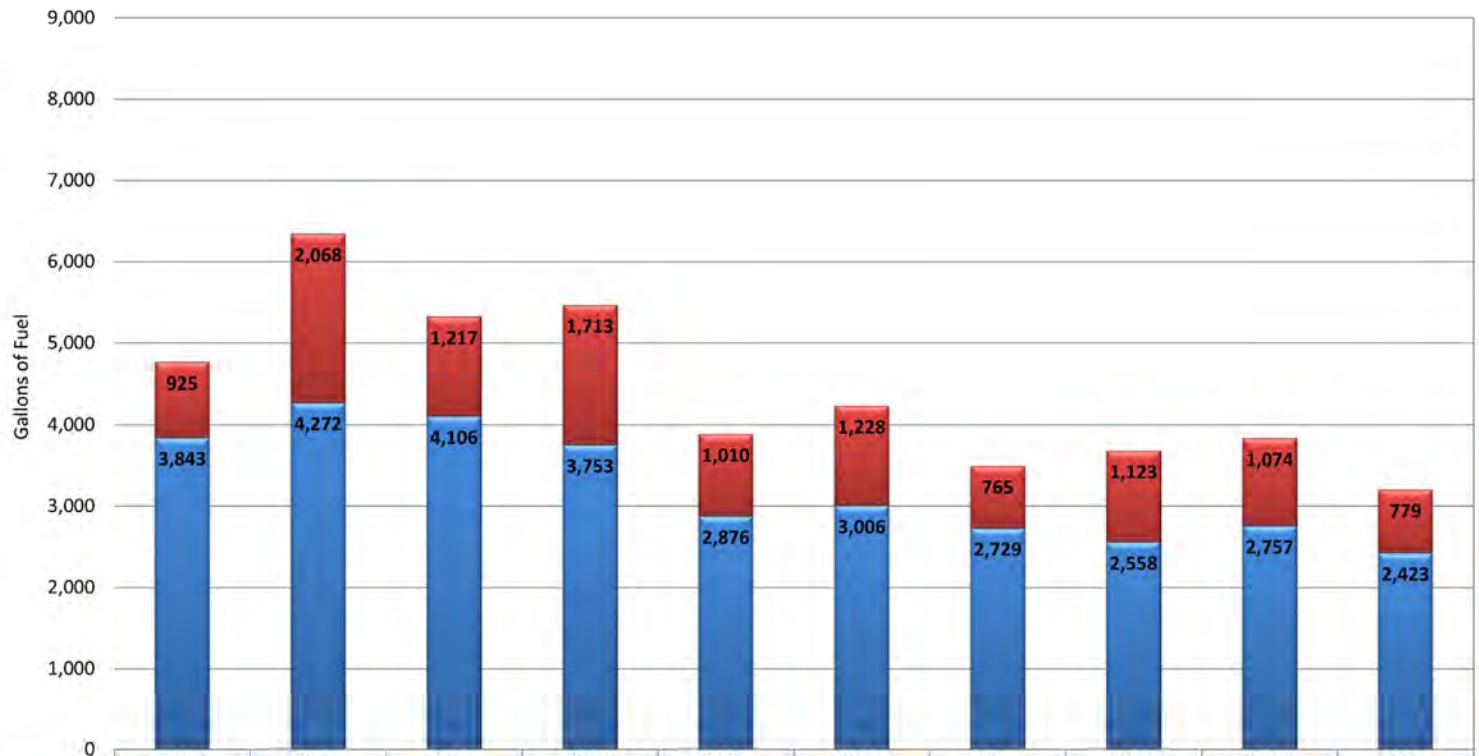
## Annual Report on District Fleet

| 2025 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Vehicle/Equipment** | **Mileage/Hours** | **Age** | **Replacement Schedule** | **Service Life** | | **Maintenance Due** | **2025** |
| 2008 Ford 1 Ton 4x4 Flat | 55,577 | 17 | 15 | -2 | | Annual Service | $100 |
| 2022 Ram 2500 Utility | 7,070 | 1 | 15 | 14 | | Annual Service | $100 |
| 2014 Dodge Ram 4x4 | 70,483 | 11 | 15 | 4 | | Annual Service | $100 |
| 2025 F-150 4x4 | 9,975 | 1 | 15 | 14 | | Annual Service | $100 |
| | | | | | | All-Season Tires | $1,628 |
| 2014 F-150 4x4 | 234,644 | 11 | 15 | 4 | | Annual Service | $100 |
| | | | | | | Brake Repair | $600 |
| 2008 F-750 Dump Truck | 12,363 | 17 | 30 | 13 | | Annual Service | $100 |
| | | | | | | Annual Dot Inspection | $190 |
| | | | | | | New Battery | $330 |
| 1998 JD 444H Loader | 4,359 | 27 | 30 | 3 | | Annual Service | $100 |
| | | | | | | New Blade | $1,198 |
| | | | | | | Wipers | $146 |
| JD Backhoe | 1,171 | 7 | 30 | 23 | | Annual Service | $100 |
| 2020 Isuzu I/R Compressor | 25 | 4 | 20 | 16 | | Annual Service | $50 |
| 2007 New Holland | 723 | 18 | 30 | 12 | | Annual Service | $100 |
| 2009 Vac-Con Hydro-Vac | 10,987 | 16 | 30 | 14 | | Annual Service | $100 |
| | | | | | | Repairs | $5,712 |
| Power Take Off (PTO) | 340 | 16 | 30 | 14 | | | |
| 2009 Duetz Rear Engine | 1353 | 16 | 30 | 14 | | Annual Service | $100 |
| | | | | | | Repairs | $5,493 |
| 2016 Ford Interceptor | 38,705 | 9 | 15 | 6 | | Annual Service | $100 |
| 6" Trash Pump (2020) | 18 | 4 | 30 | 26 | | Annual Service | $50 |
| 2010 Prowler Easement | 268 | 13 | 20 | 7 | | Annual Service | $50 |
| Well House Generator (1993) | 324.6 | 32 | 40 | 8 | | Annual Service | $1,127 |
| 1810 Generator (1991) | 884 | 34 | 40 | 6 | | Annual Service | $1,127 |
| 305 Generator (2004) | 248.6 | 21 | 40 | 19 | | Annual Service | $1,127 |
| **Total** | Fleet Ave. Age | 14.4737 | | | | | **$20,028** |

# Vehicle Maintenance Cost Trend



# Operation Department 10 Year Fuel Usage Trend




| | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 925.24 | 2,068.40 | 1,216.50 | 1,713.00 | 1,010.00 | 1,228.00 | 765.00 | 1,123.00 | 1,074.00 | 779.30 |
| Unleaded | 3,842.95 | 4,272.35 | 4,105.85 | 3,753.00 | 2,876.00 | 3,006.00 | 2,729.00 | 2,558.00 | 2,757.00 | 2,422.70 |

# 2025 Water and Sewer System Report



1

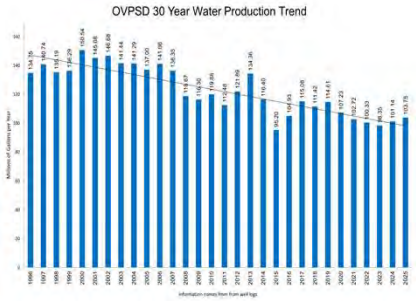
## Water

- Production : 103.75 MG (2.6MG More than 2024)
- Consumption (Metered + Unmetered) : 93.33 MG
  - Metered : 84.89 MG
  - Unmetered : 7.52 MG
- Total Unbilled Water (Loss) : 10.21 MG (9.9%)



2

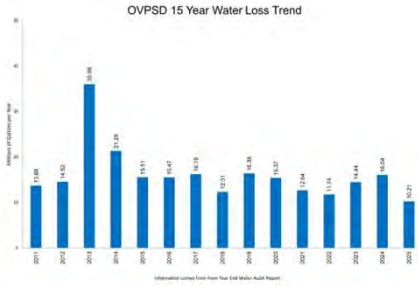
## Water






3

## Water






4

## Water – The Crew

- Installed 147 Meters
- Flushed 165 Hydrants
- Exercised 81 Water main Valves
- Collected 63 Water Samples
- Aided 15 Customers with Leaks
- Aided 7 Customers with No Water
- Repaired 5 Leaks
- Ensured 576 Backflow Devices Were Tested



5

## Repair Pics



6

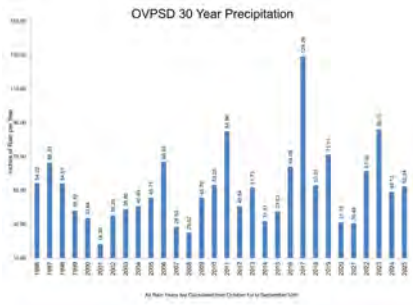
## Aquifer / Precipitation

- Maximum Aquifer Level 2025 : 6189.9' (May)
- Minimum Aquifer Level 2025 : 6182.1' (September)
- Total Change in Static Level 2025 : 7.8'
- Precipitation Total 24/25 water year : 52.34" (97.74% of avg.)



7

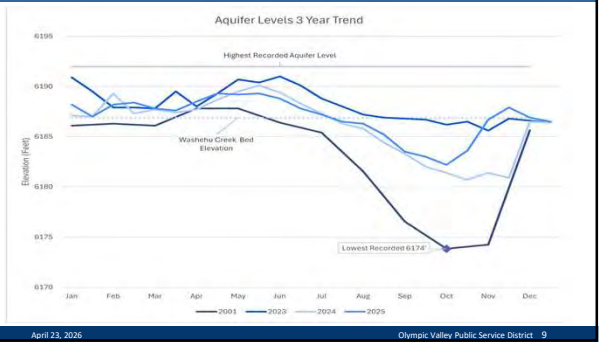
## Aquifer / Precipitation






8

## Aquifer / Precipitation






9

## Sewer

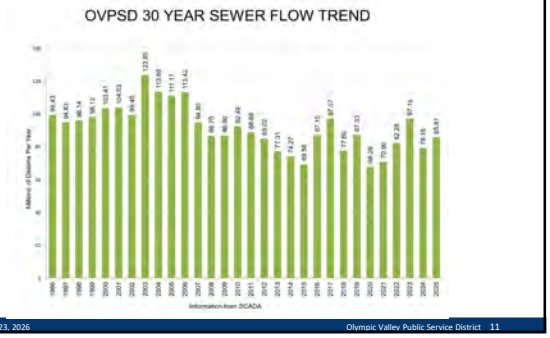
Total Sewer Collection : 85.81 MG

Comparison : 6.6 MG More than 2024



10

## Sewer






11

## Sewer -The Crew

- Responded to 0 Overflows
- Cleaned High Priority Lines: Spring and Fall
- Cleaned Mainlines: Sections 1 and 3
- Inspected 440 Manholes
- Conducted 30 Pressure Tests



12

## T45 Sewer Meter



13

## Vehicle/Fuel

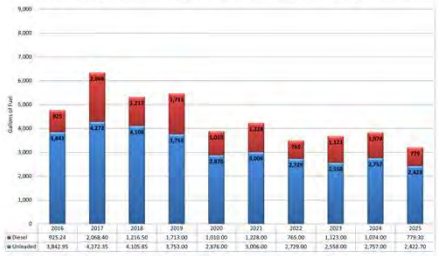
- All Large and Small Equipment Received Annual Service
- Total Service cost (Not Including Labor) : $20,028
- Total Gallons of Diesel Used : 779
- Total Gallons of Gasoline used : 2,423



14

## Vehicles/Fuel

OVPSD Operation Department 10 Year Fuel Usage Trend





15

## 2024 Water/Sewer Annual Report

Questions?



16