## Water Conservation Master Plan 5-Year Update

Climate Resilience and Sustainability Board June 12, 2025



### Water Conservation Master Plan Overview

- First adopted by City Council resolution in July 2020
- Provides details for the City's Water Department's work to promote residential and commercial water conservation
- Plan was developed from Council ordinance (ORD 35630) focused on intertie agreements and specific conservation planning efforts
- Since 2003, state law requires public water systems to create and maintain water efficiency programs
- City adopted first water stewardship program in 2006





### Water Conservation Master Plan Overview

- City Council has adopted more specific code requirements promoting conservation
- 2022 drought ordinance (ORD C36209) established watering rules to reduce summer watering
- Water-Wastewater credit for the 20% of water customers who have the lowest winter water use





- 2025 marks the fifth year of the plan and it's time for an update
- Climate Resilience and Sustainability Board being asked to serve as External Advisory Group for the update to support a recommended 2025-2030 plan for City Council's adoption



## Conservation Master Plan Goals







### Water Wise Spokane

#### Conservation Programs









### Hydrants & Filling Stations











### **Commercial & City-Owned Properties**



By Leak Identification & Repair, Irrigation Efficiency, Cooling Tower Monitoring & Sub-Metering.



### 2020-2024 Total Pumping + Evapotranspiration (ET)





### 2024 Metered Water in Gallons and GPCD



GALLONS PER CAPITA PER DAY (GPCD) 2018 BASELINE: 200 2024 SPOKANE: 199 Range 130 – 454 GPCD

GROWTH WITHOUT ADDITIONAL PUMPING. REDUCE GPCD BY 5% SHAVE THE BASE

MG Million Gallons BG Billion Gallons

#### **2024 GALLONS PUMPED BY MONTH & GPCD**

\*Gallons Per Capita Day is calculated using total annual consumption, without wholesale sales and population estimate of water service area.



## **2020-2024 Results**



### Water Wise Program Water Savings



#### **TOTAL GALLONS SAVED**

### **344.5 MILLION**

**Through the Conservation Program Lifespan** 





### Looking at the Data

#### Residential Usage by Tier, 2024

● Use from Tiers 1-4 ● Use from Tier 5



### **Climate Change Influence on Wells**

Change in Summer-Low Groundwater Elevations in 2070-2099 at Spokane Well Stations -Representative Concentration Pathway (RCP) 4.5





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### **Understanding the Future**



Potential Influence of Climate Change on Future Year 2072 Monthly Water Demands (City of Spokane)

Water Solutions, Inc.



### Costs to the System based on how much we conserve

- Looking at various conservation possibilities
- Strategies needed to reduce the need for additional Capital Facilities

#### **Possible Scenarios**

- ► Uniform percentage reduction across the service area
- Consider ways to reduce usage in higher elevation pressure zones
- Look at "super users"
- Consider ways to reduce irrigated acreage







# Possible Policy Considerations

- ► Water Consumption Tier Structure for Commercial Customers
- Consider irrigation and landscape standards for City operations and for new development
- Consider ways to promote appropriate water use for parks and schools to support needed community green space
- Evaluate Indoor Water Use Credit
- Other things likely will be identified during update process



## **QUESTIONS?**

