



Recommended Ordinances to Extend Limited Water Supplies

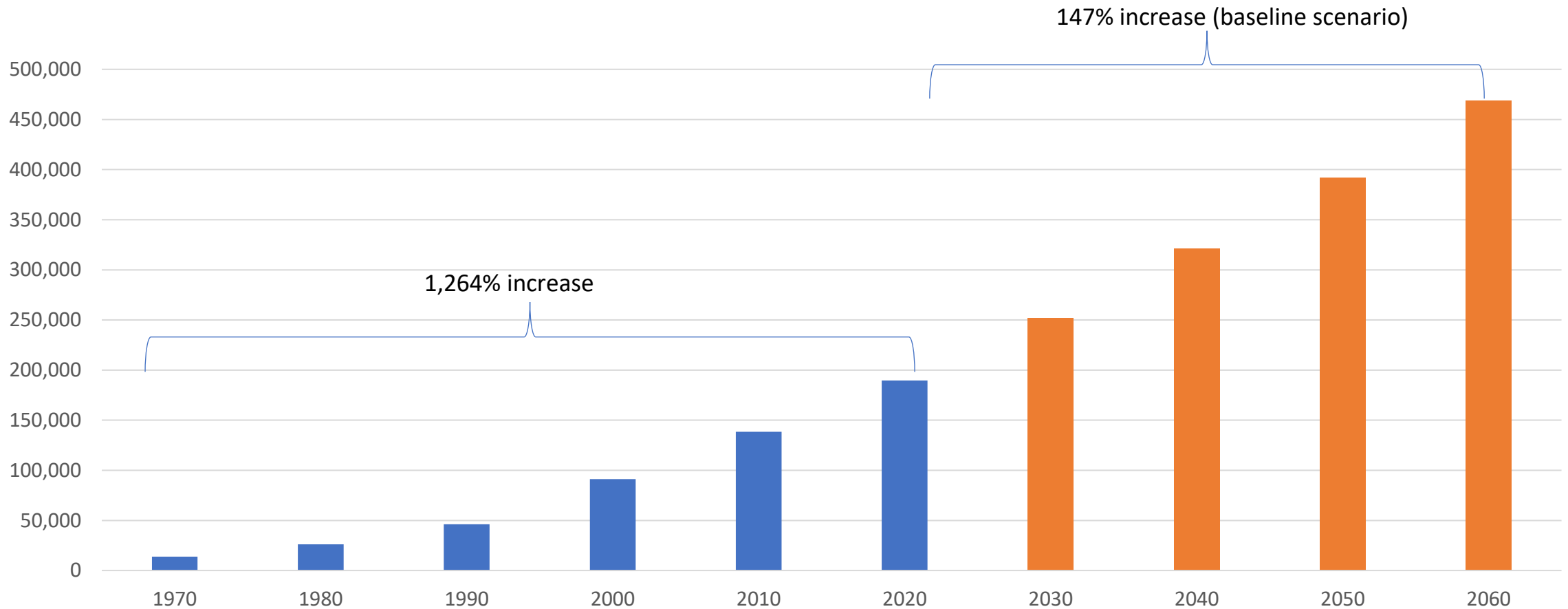
Zach Renstrom | City Council Meetings | September 2021

Water Supply

Washington County's major population centers are 100% dependent on the Virgin River basin, which is closed to further appropriations.



Population Growth



Source: ■ U.S. Census Bureau, ■ Kem C. Gardner Policy Institute





Water Conservation

- Washington County has decreased its water use by more than 30% since 2000
- First county to meet the statewide water conservation goal
- More than \$70 million invested in recent conservation efforts



District Recommendations

- Time-of-day watering ordinance
- Water waste ordinance
- Water efficiency standards for all new construction




Water Efficiency Standards

- Ongoing collaboration with all our municipal partners to ensure standards are consistent throughout the county
- Standards would apply to all **new** construction, including all homeowner association areas and those served by secondary irrigation water



Residential Standards

Applies to all new residential construction, including single and multi-family housing



Two options:

Traditional Conservation

WaterSense Certified

Residential Standards: Traditional

- Indoor requirements
 - Hot water recirculation system
 - WaterSense labeled fixtures
 - Energy Star appliances
 - Multi-family housing individually metered with the capability of tracking/reporting unit specific use





Residential Standards: Traditional

- Outdoor requirements
 - Limit irrigated landscape area to 2,500 square feet, lawn to 750 square feet
 - Pools, spas and other water features count toward 750 square feet unless covered
 - Install landscape specific meters at each property
 - Use a minimum number of approved water-efficient trees and shrubs; irrigate with a drip system
 - Install water-smart irrigation controllers
 - Avoid lawn on park strips, slopes greater than 25% and areas less than 8 ft wide
 - Require pool covers
 - Secure city verification
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Residential Standards: Traditional Cost

Conservation Measure	Average Cost	Anticipated Water Savings (per gallon/year/home)
Hot water recirculation system	\$550	10,600
WaterSense toilet	\$0	1,900
WaterSense faucet	\$0	3,700
WaterSense showerhead	\$0	2,800
Energy Star dishwasher	\$100	400
Landscape modifications (separate meter, smart controller and more efficient landscape on 10,000 sq ft lot)	\$3,250	28,700
Pool cover	\$10,000	10,000

Residential Standards: Traditional Concept



Examples



10,300 sf lot



9,040 sf lot



Large Lot Examples



18,500 sq ft lot



18,700 sq ft lot





Residential Standards: Certified

- Allows for greater flexibility
 - Certification by approved verifier
 - Additional costs
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Residential Standards: Certified Concept



22,000 sq ft lot



Examples Requiring Certification



10,900 sq ft lot



18,200 sq ft lot





Commercial, Institutional and Industrial Standards

- Indoor requirements
 - Hot water recirculation system
 - WaterSense labeled fixtures
 - Energy Star appliances
 - Submeter all units
 - Recycle pumps at carwash facilities
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Commercial, Institutional and Industrial Standards

- Outdoor requirements
 - Lawn prohibited unless a waiver is granted demonstrating a functional purpose
 - Install landscape specific meters at each property
 - Use only approved water-efficient trees and shrubs; irrigate via drip system
 - Install water-smart irrigation controllers
 - Enforce water budget and require use of secondary irrigation at golf courses
 - Prohibit decorative water features
 - Limit commercial misting systems for use from May – August
 - Secure city verification



Feedback, Q&A

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