



RPU'S GROUNDWATER ATLAS

Riverside Public Utilities

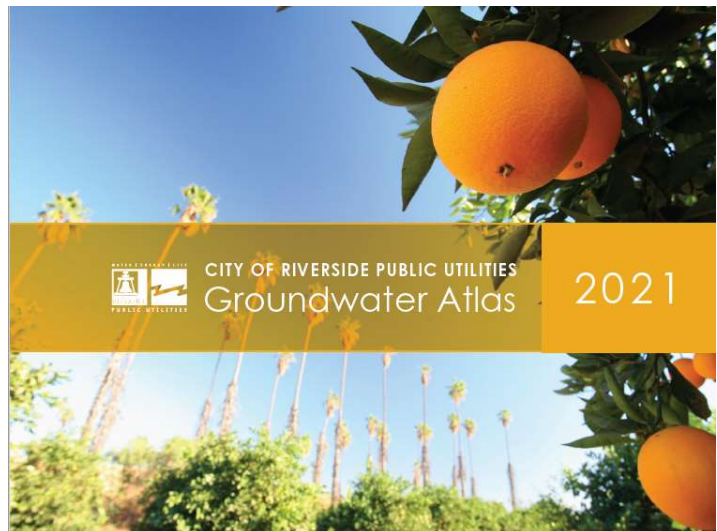
Board of Public Utilities

December 12, 2022

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INTRODUCTION

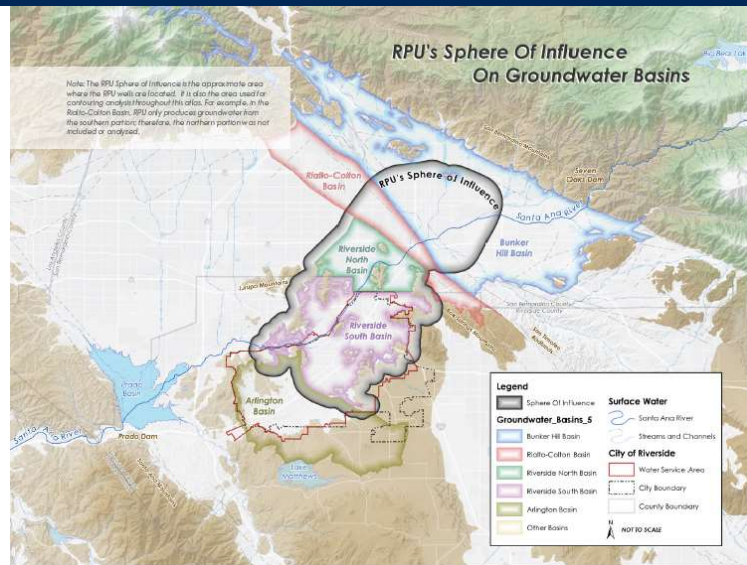
1. Atlas-style document
2. Current condition of the groundwater basins
3. Provide readable data
4. All data up to 2021
5. RPU Staff collaboration with WSC, Inc.



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RPU GROUNDWATER BASINS

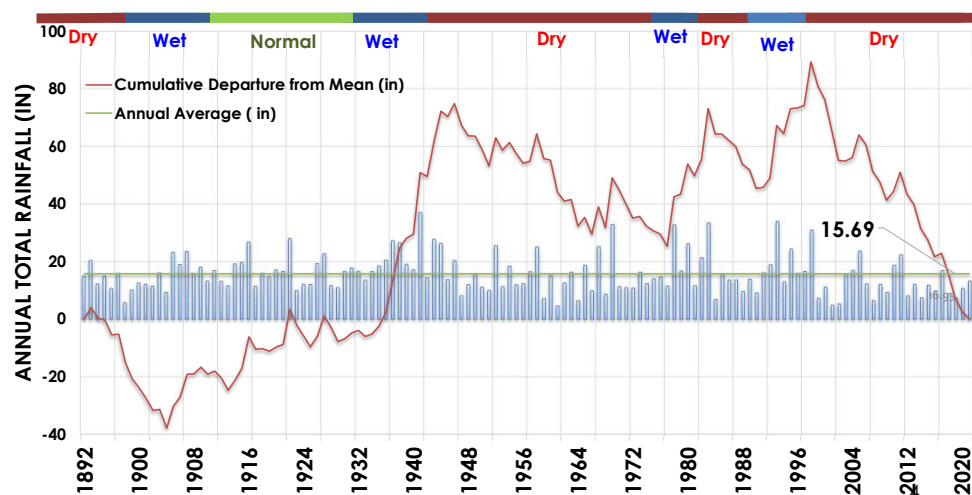
RPU produces water from four groundwater basins adjacent to the Santa Ana River, including the San Bernardino, Rialto-Colton, Riverside North, and Riverside South Basins.



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HYDROLOGIC CONDITIONS

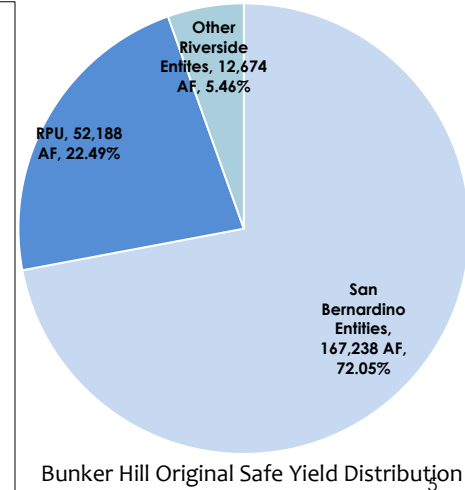
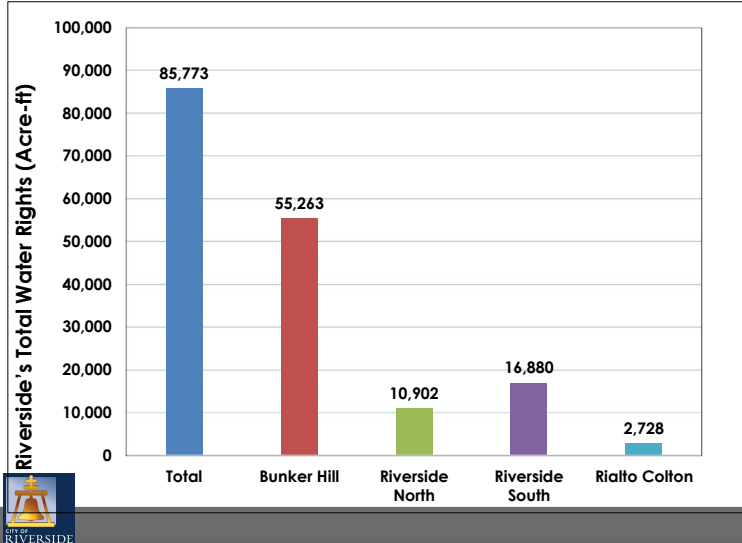
129 Years(1892-2021) Rainfall Patterns and variability From San Bernardino Hospital Gauge



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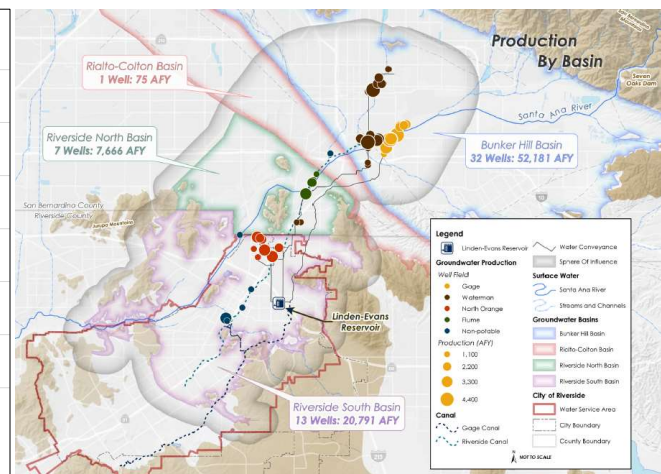
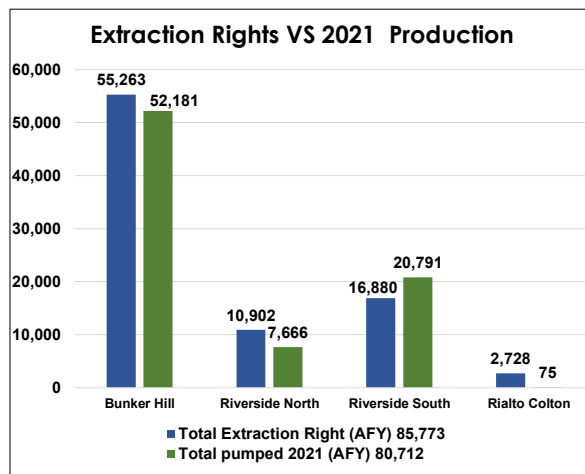
GROUNDWATER RESOURCES MANAGEMENT

The City of Riverside Total Water Right and Base Period Production (in acre-feet) by Basin



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GROUNDWATER PRODUCTION

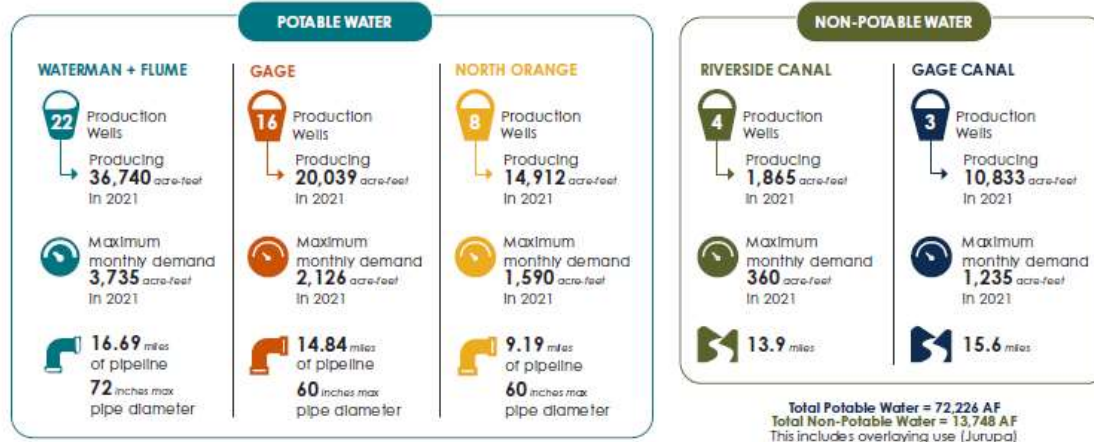


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GROUNDWATER FACILITIES

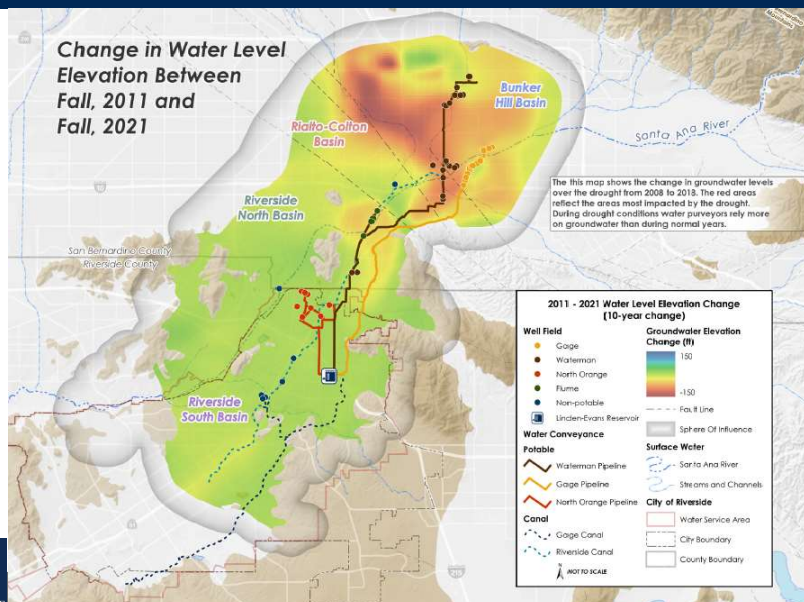
Groundwater Well Production and Pipes



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GROUNDWATER LEVELS



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Rate of Groundwater Level Decline from 1999 to 2021 within RPU's Sphere of Influence

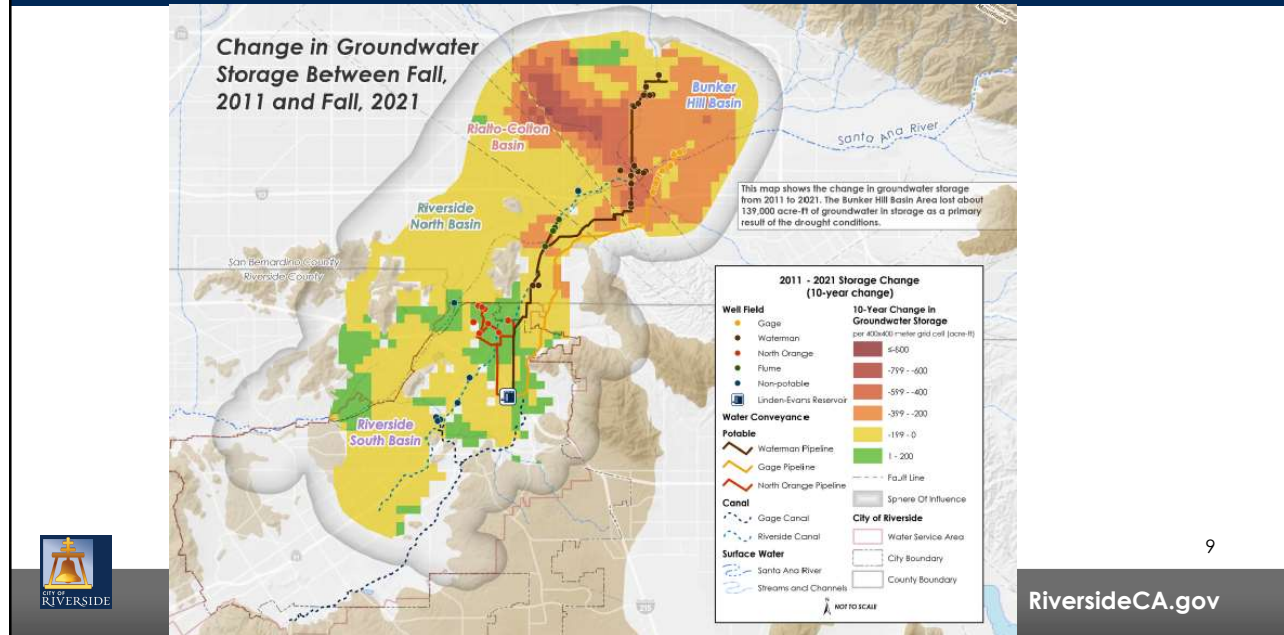
BUNKER HILL
Decline of about 5.6 ft/yr

RIALTO-COLTON
Decline of about 2.2 ft/yr

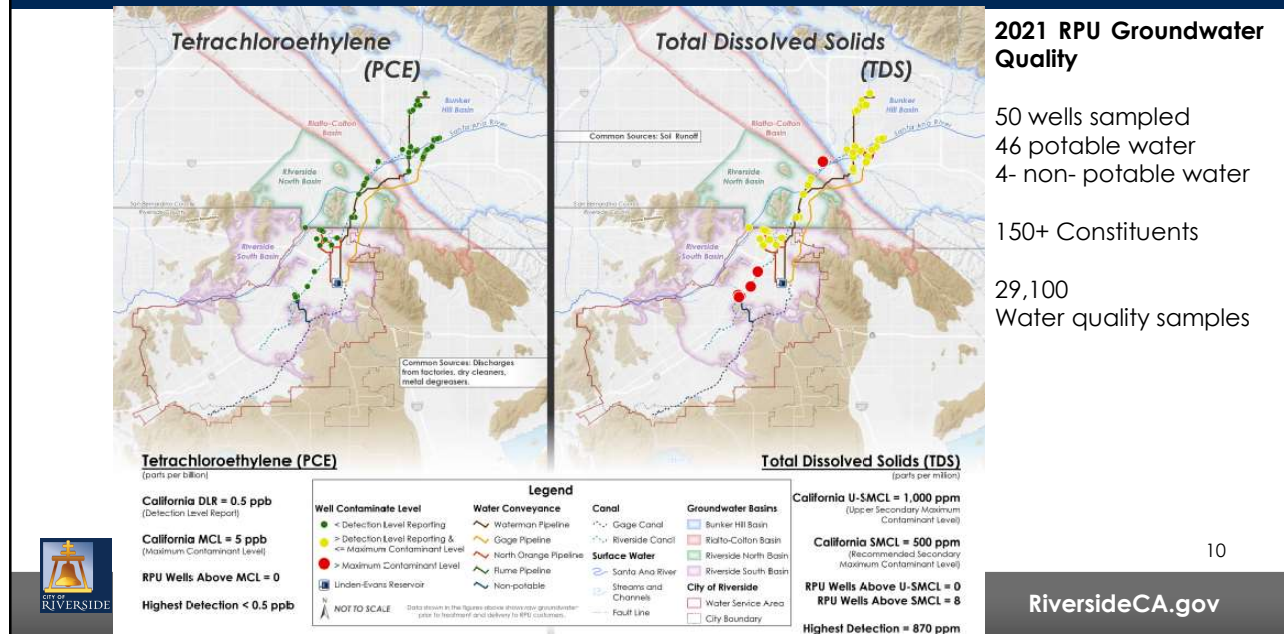
RIVERSIDE NORTH
Decline of about 4.6 ft/yr

RIVERSIDE SOUTH
Decline of about 0.7 ft/yr

GROUNDWATER IN STORAGE

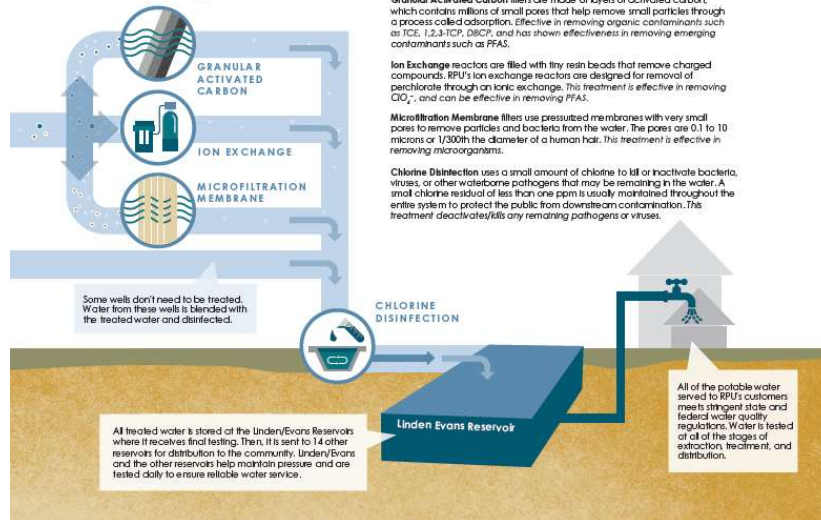


GROUNDWATER QUALITY



GROUNDWATER TREATMENT

RPU routinely monitors each groundwater well for contaminants and provides targeted treatment.



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STRATEGIC PLAN ALIGNMENT



Strategic Priority 4 - Environmental Stewardship

Goal 4.2 – Sustainably manage local water resources to maximize reliability and advance water reuse to ensure safe, reliable, and affordable water to our community.

Cross –Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



Innovation



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RECOMMENDATION

That the Board of Public Utilities receive an update on Riverside Public Utilities' 2021 Groundwater Atlas.



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