

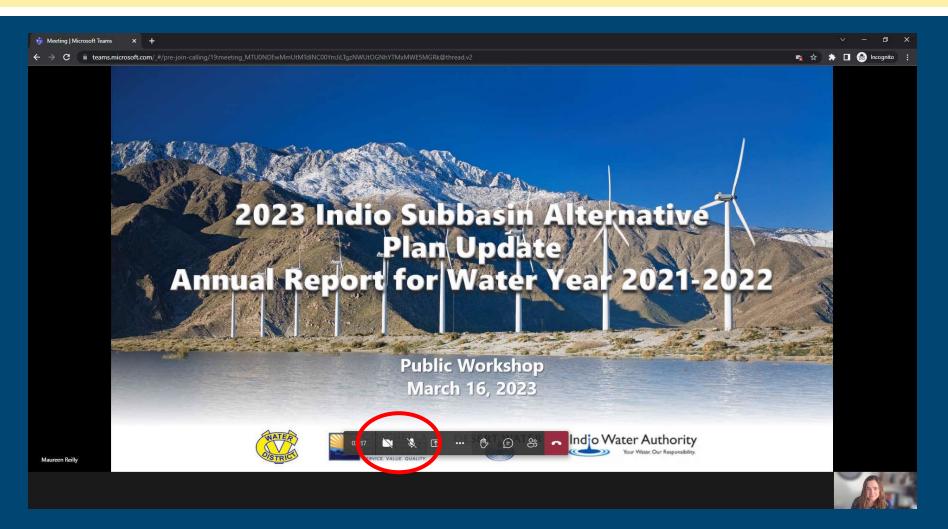








Teams – Quick How To



- Turn on/off your Mic (mute) and Camera (video) using the controls along the bottom
- You may need to wiggle your mouse to make the controls appear
- For Callers: use *6 to unmute on the phone



Teams – How to Ask a Question



- Our organizer will mute everyone at the beginning of the meeting
- Let us know you have a question by
 - * Raising your hand (bottom of screen)
 - Using the Chat (bottom of screen)
 - Click on the right panel, type your message and hit SEND
- Once we receive your request, we will call on you and answer your question
- For Callers: when asked for questions or comments, use *6 to unmute



- Welcome and Introductions
- Annual Report Status
- Groundwater Elevation Data
- Groundwater Extractions
- Surface Water
- Total Water Use
- Change in Groundwater Storage
- Plan Implementation Progress
- Public Comment



Indio Subbasin Team

- Project Consultants
 - Todd Groundwater



- Indio Subbasin Groundwater Sustainability Agencies (GSAs)
 - Coachella Valley Water District
 - Coachella Water Authority
 - Desert Water Agency
 - Indio Water Authority









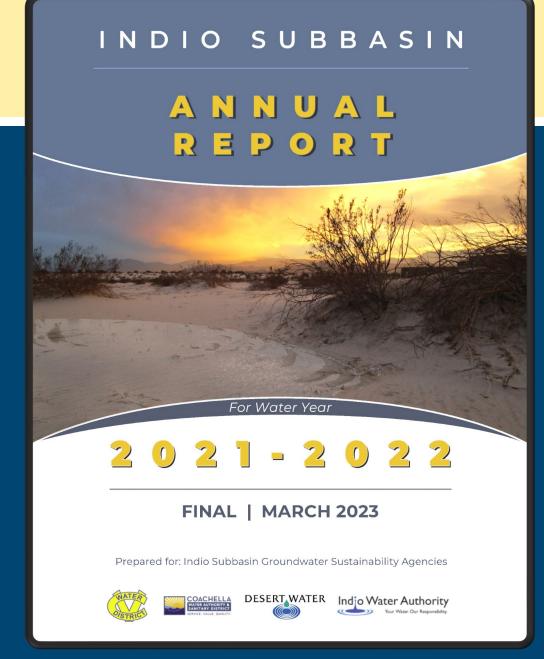


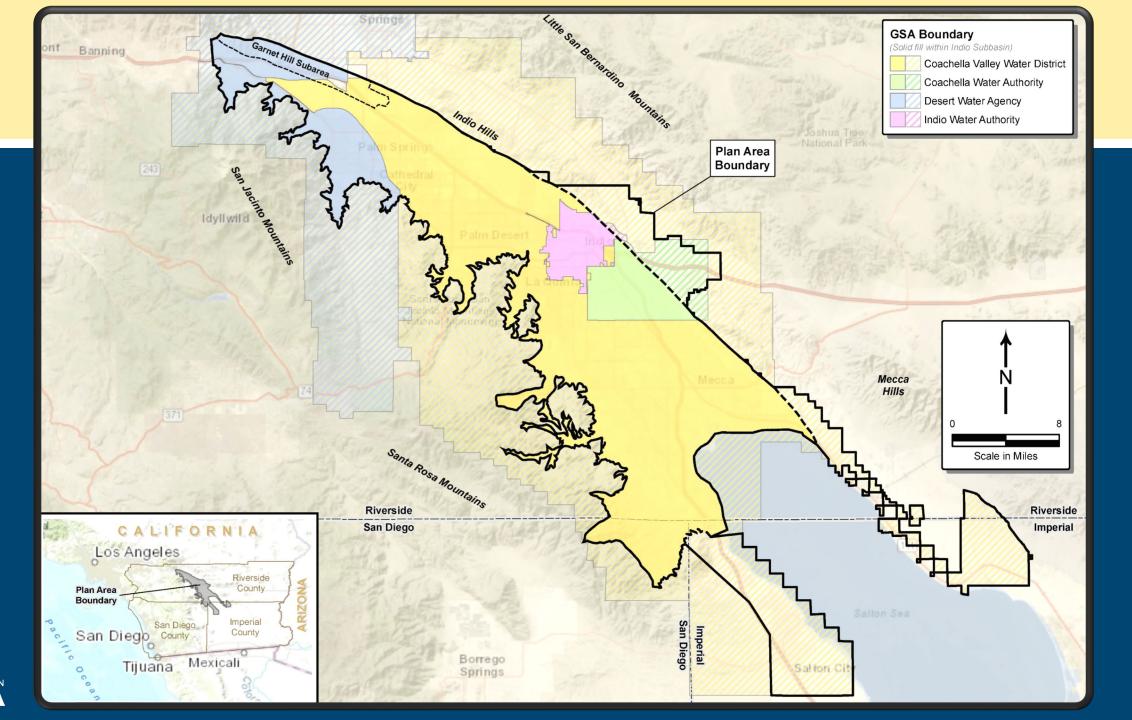
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Indio Subbasin Annual Report for WY 2021-2022

- Annual Report required by the Sustainable Groundwater Management Act (SGMA)
 - General information
 - Subbasin conditions
 - Implementation progress of projects and management actions (PMAs)
- 6th Annual Report (2nd report following submittal of *Indio Subbasin 2022* Alternative Plan Update)
 - *Covers WY 2021-2022 (Oct. 1, 2021 Sept. 30, 2022)
- Will be submitted to DWR by April 1, 2023







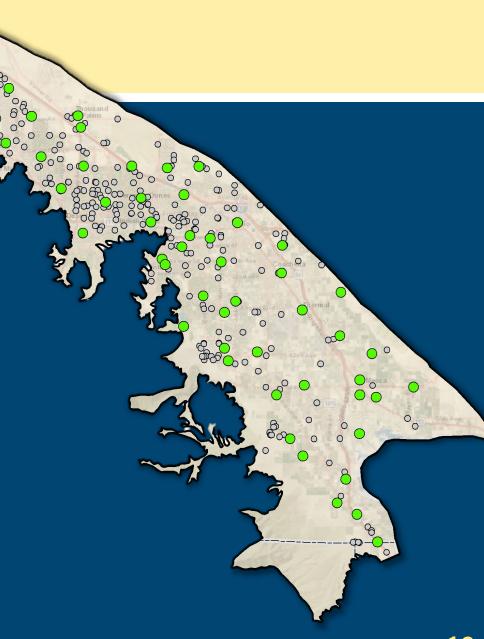
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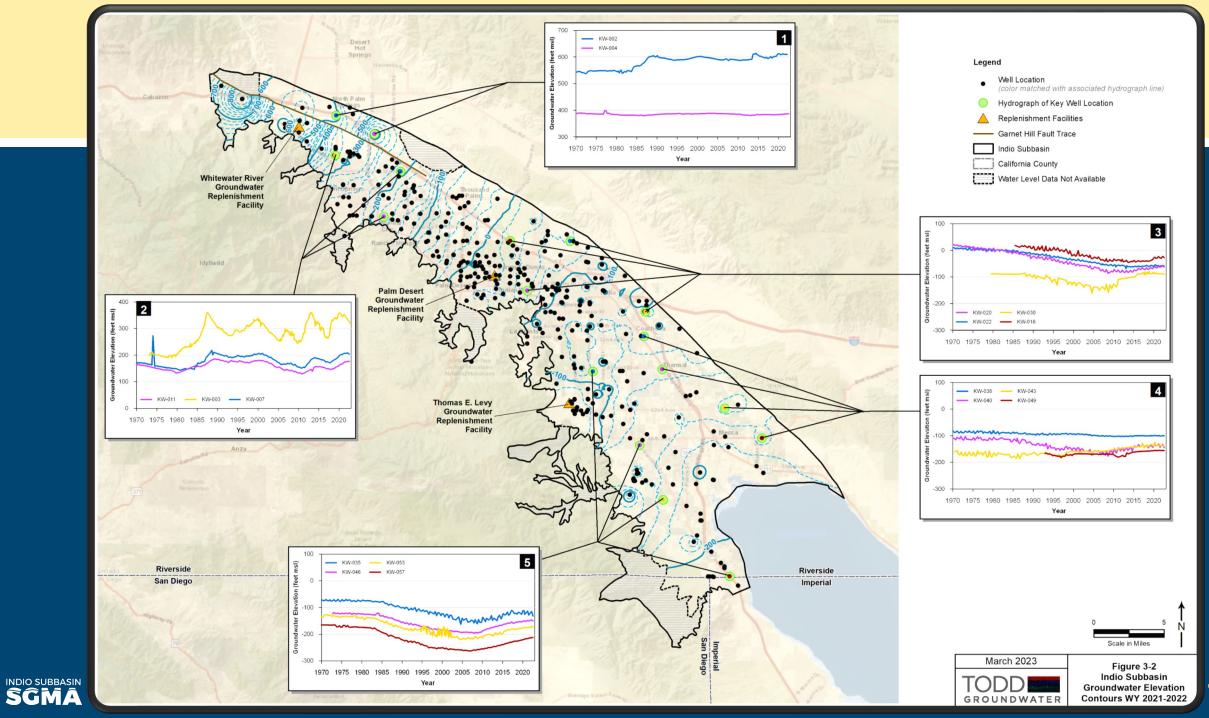


Groundwater Elevation Data

 Groundwater elevations from 374 wells were used to develop contour maps and change in storage maps

- 2022 Plan Update identified 57 Key Wells to track groundwater sustainability
 - Each well has a minimum threshold (MT—set at recent observed lowest elevation)
 - Current groundwater elevations were compared to the MTs
 - Levels in all wells were above the MT
 - Hydrographs of each of these wells are included in the report as an Appendix





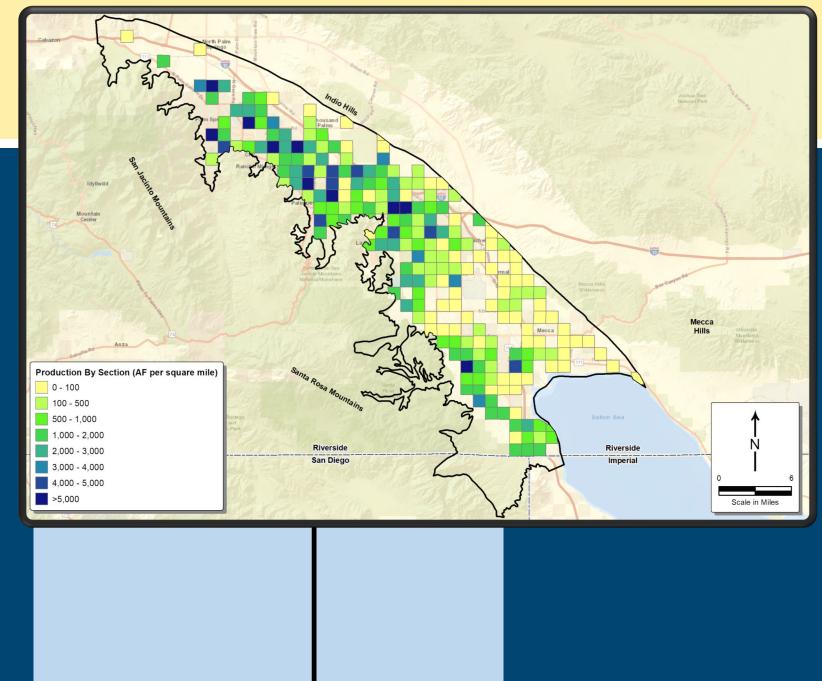


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Groundwater Extractions

- Groundwater extractions are metered for most uses except
 - Minimal pumpers
 - ❖Tribal trust lands
- **282,079** AF
- Groundwater pumping decreased 2 percent from last water year



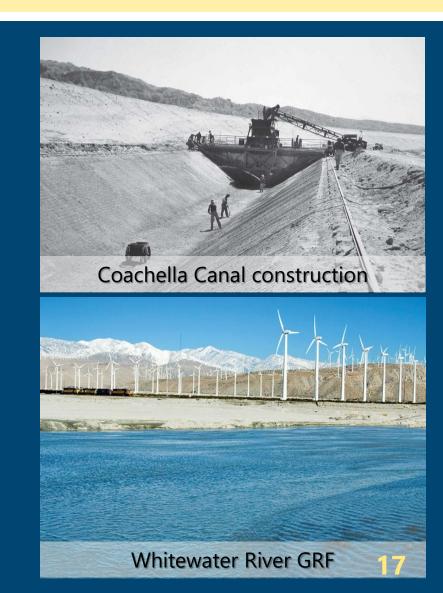


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Multiple Water Sources

- Capture and recharge of Whitewater River stormflows began in 1918
- Coachella Canal completed in 1949
- CVWD and DWA contract for State Water Project (SWP) water in 1963
 - *Recharge at Whitewater River Groundwater Replenishment Facility (GRF) begins in 1973
- Water recycling began in 1965





Local Surface Water – Direct Use

- DWA stream diversions
 - Snow and Chino Creeks, and Whitewater River
- 611 AF surface water use in DWA's service area
 - ❖49% agriculture
 - ❖51% urban



WY 2021-2022 Direct Use of Local Surface Water in the Indio Subbasin

Water Use Sector	Surface Water Use (AF)	Method of Measurement	Accuracy of Measurement
Agriculture ¹	300	100% metered	±2%
Industrial	0	Not applicable	
Urban ¹	311	100% metered	±2%
Total Surface Water Use	611		



Imported Water - Direct Use

- CVWD receives
 Colorado River water
 from the Coachella
 Canal
- 271,485 AF of Coachella Canal water for direct use in Plan Area
 - ♦85% agriculture
 - ♦ 15% urban



WY 2021-2022 Imported Water for Direct Use in Plan Area

Water Use Sector	Water Source	Imported Water Use (AF)	Method of Measurement	Accuracy of Measurement
Agriculture ¹	Coachella Canal	230,227	100% metered	±2%
Urban ²	Coachella Canal	41,258	100% metered	±2%
Industrial	Coachella Canal	0	100% metered	±2%
Environmental ³	Coachella Canal	0	Not applicable	
Total Imported Water for Direct Use ⁴		271,485		



Imported Water – Groundwater Replenishment

- Two sources of water used for replenishment:
 - DWA and CVWD receive State Water Project and other transfers exchanged for Colorado River Aqueduct (CRA) water
 - CVWD receives Colorado River water through the Coachella Canal
- 67,438 AF imported water for replenishment
 - ❖ 10,662 AF at Palm Desert GRF
 - ❖ 37,673 AF at Thomas E. Levy GRF
 - ❖ 19,103 AF at Whitewater River GRF



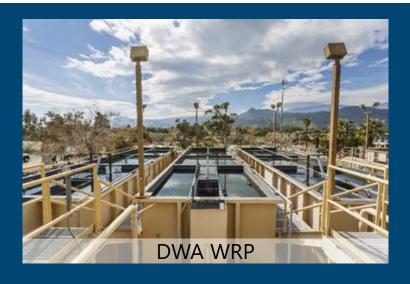
WY 2021-2022 Imported Water for Replenishment in Plan Area

Water Use Sector	Water Source	Imported Water Use (AF)	Method of Measurement
Groundwater	Coachella Canal ⁶	48,335	100%
Replenishment	Codericina Cariai		metered
Groundwater	SWP Exchange/CRA	19,103	100%
Replenishment	SWF LACHAIIGE/CNA		metered
Total Imported Water for Groundwater Replenishment		67,438	



Recycled Water

- Three water reclamation plants (WRPs) provide recycled water
 - ❖Palm Springs WWTP/DWA WRP
 - **CVWD WRP-7**
 - **CVWD WRP-10**
- 13,875 AF recycled water produced
 - ◆100% urban



WY 2021-2022 Recycled Water Use in the Indio Subbasin

Water Use Sector	Water Source	Recycled Water Use (AF)	Method of Measurement	Accuracy of Measurement
Urban ¹	DWA WRP	3,345	100% metered	±2%
Urban¹	CVWD WRP 7	2,488	100% metered	±2%
Urban¹	CVWD WRP 10	8,042	100% metered	±2%
Total Recycled Water Use		13,875		



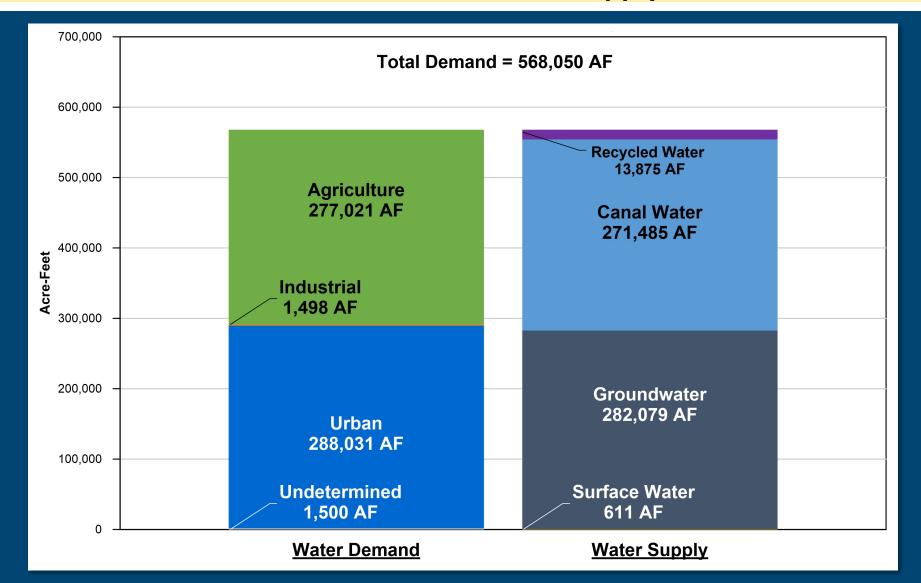


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Total Water Use

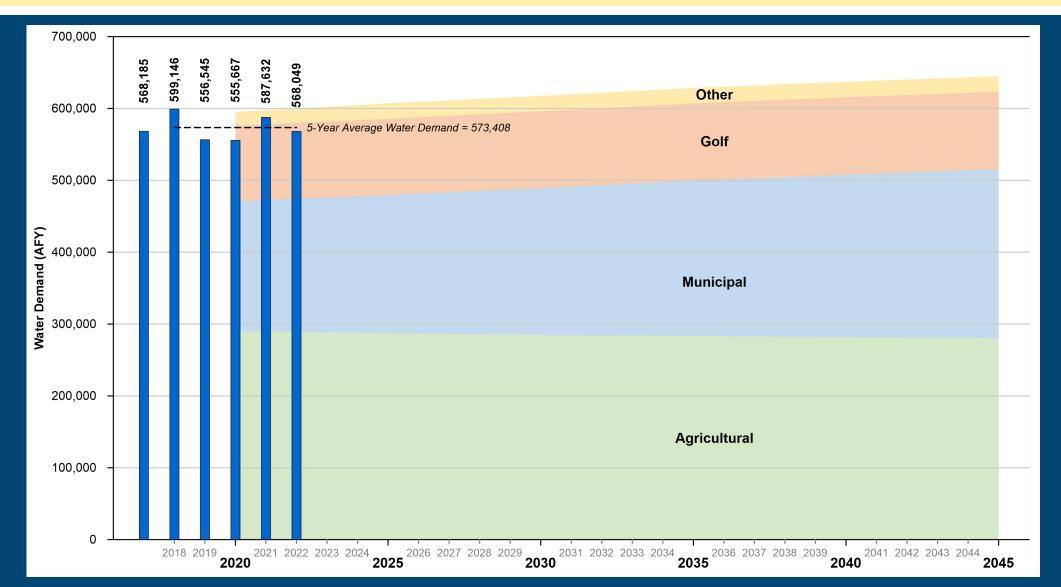
WY 2021-2022 Water Demand and Supply – Plan Area





Total Water Use

Total Water Demand Actual and Forecasted – Plan Area



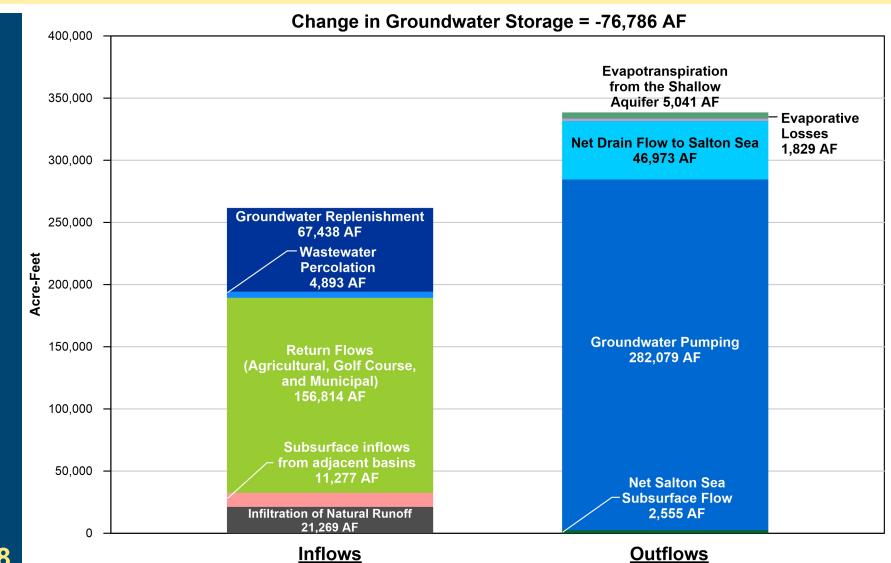


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Change in Groundwater Storage

- Comparison of Inflows and Outflows
- Inflows
 - Return Flows
 - Replenishment
 - Natural Infiltration
 - Subsurface Flow
 - WW Percolation
- Outflows
 - Pumping
 - Drains
 - ❖ Evapotranspiration (ET)
 - Subsurface Flow

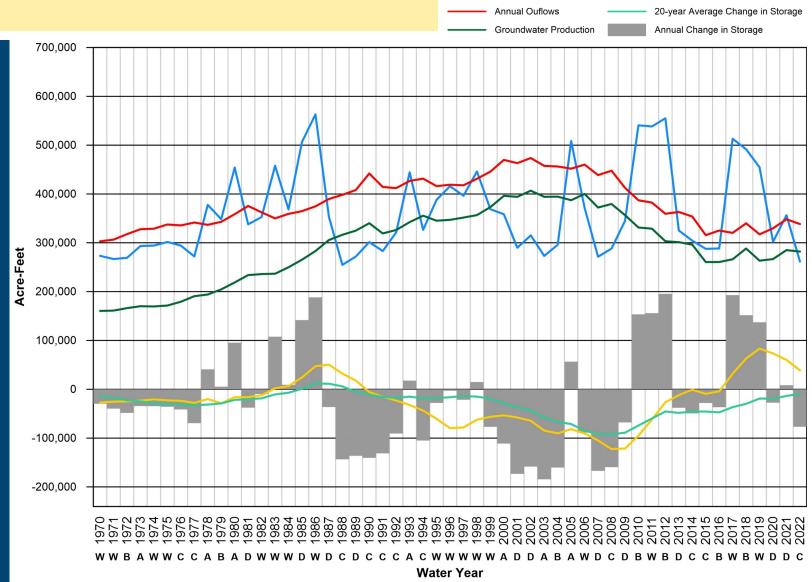


338,477 AF

261.691 AF

Change in Groundwater Storage

- Annual change in storage
 - ❖State-wide drought (-76,786 AF)
- Average change in storage
 - *Since 2009, 10-year average is positive and 20-year average is near balanced
 - Shows the Indio Subbasin is being managed sustainably





10-year Average Change in Storage

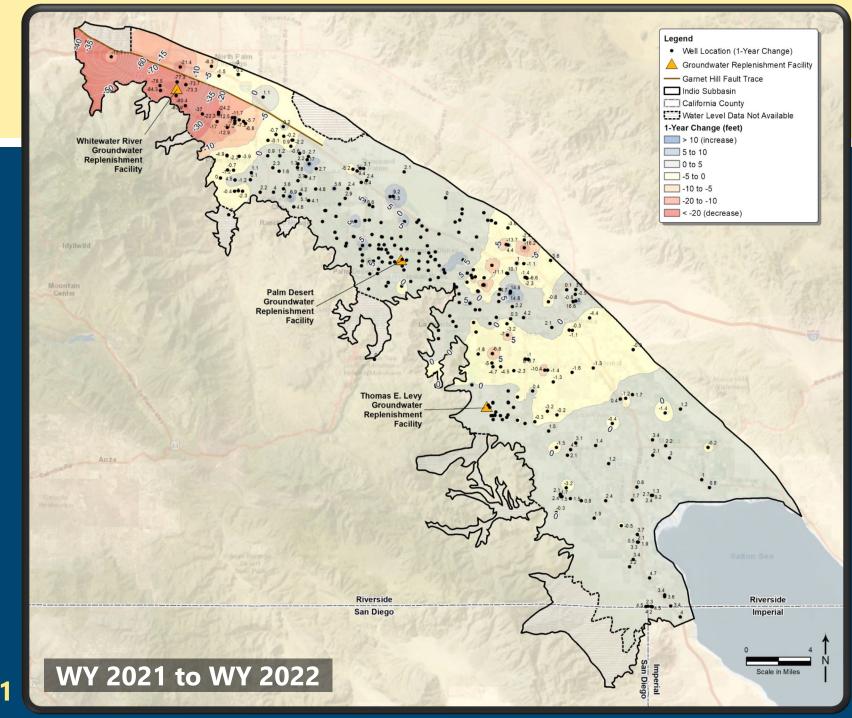
Change in Groundwater Levels

- Maps show change in groundwater levels
 - One year change (next slide)
 - Long-term change since 2009 historical lows (following slide)
- Change in groundwater levels is a proxy for change in storage
- Based on measured water levels at 374 wells throughout the Indio Subbasin



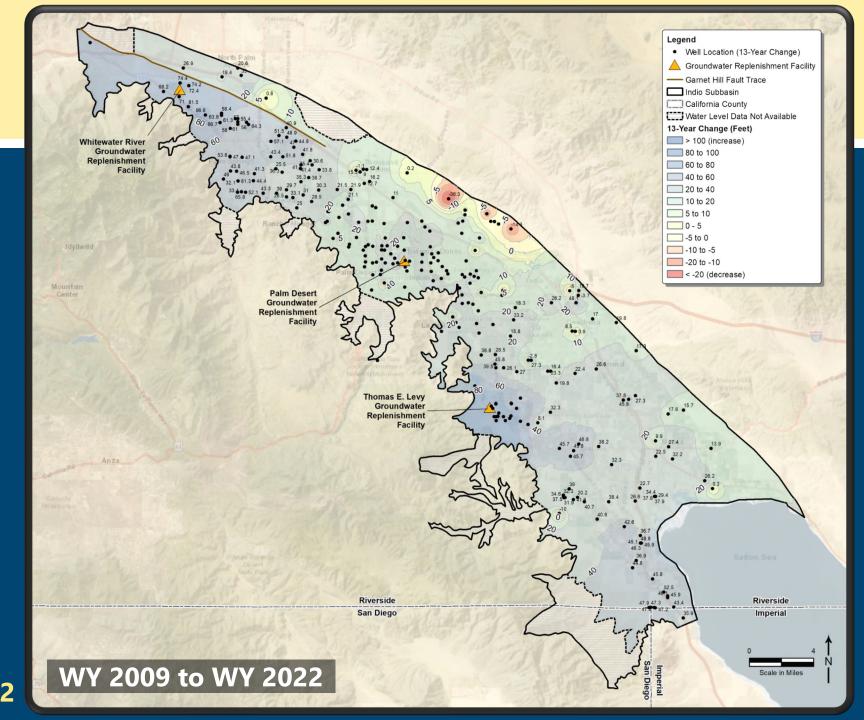
One Year Change

- Groundwater levels generally increased in the past water year
 - ❖ Declines in the northern part of the Subbasin of about 10-15 feet due to dry-year reductions in replenishment
 - Declines in the eastern part of the Subbasin were less than 5 feet



Long-Term Change

- Basin-wide increases since 2009 historical lows
- Water levels have increased or stabilized
- Very localized declines in Mid-Valley northern margin





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Projects & Management Actions

Water Conservation

1: Urban Water Conservation

2: Golf Water Conservation

3: Agricultural Water Conservation

Water Supply Development

4: Increased Surface Water Diversion

5: Delta Conveyance Facility

6: Lake Perris Seepage

7: Sites Reservoir

8: Future Supplemental Water Acquisitions

9: EVRA Potable Reuse

Source Substitution & Replenishment

10: Mid-Valley Pipeline Direct Customers

11: East Golf Expansion

12: Oasis Distribution System

13: WRP-10 Recycled Water Delivery

14: WRP-10 Tertiary Expansion

15: Canal Water Pump Station Upgrade

16: WRP-7 Recycled Water Delivery

17: WRP-4 Tertiary Expansion & Delivery

18: DWA WRP Recycled Water Delivery

19: PD-GRF Phase 2 Expansion

20: TEL-GRF Expansion

21: WWR-GRF Operation

Water Quality Protection

22: Eliminate Wastewater Percolation

23: Wellhead Treatment

24: Small Water System Consolidations

25: Septic to Sewer Conversions

26: CV-SNMP GW Monitoring Program Workplan

27: CV-SNMP Development Workplan

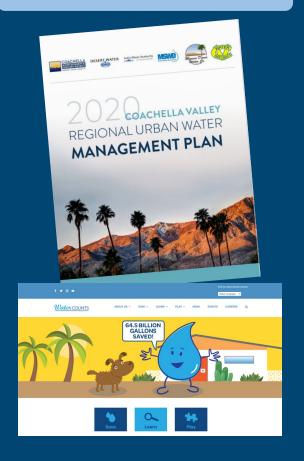
28: Colorado River Salinity Forum

29: Source Water Protection



Projects & Management Actions – Progress in WY 2021-2022

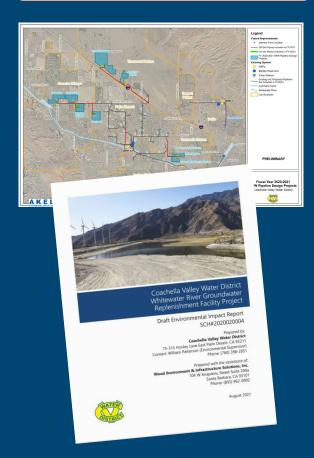
Water Conservation



Water Supply Development



Source Substitution & Replenishment



Water Quality Protection







Public Comment

Input and feedback are welcomed
For Callers – you may need to press *6 to unmute

Next Steps

WY 2022 Annual Report can be downloaded:



www.IndioSubbasinSGMA.org

- Indio Subbasin Annual Report for WY 2021-2022
 Council/Board Presentation
 - Coachella Valley Water District 3/28/2023
 - Coachella Water Authority TBD
 - ❖Desert Water Agency TBD
 - ❖Indio Water Authority TBD



Stay Involved – Visit our Website



