

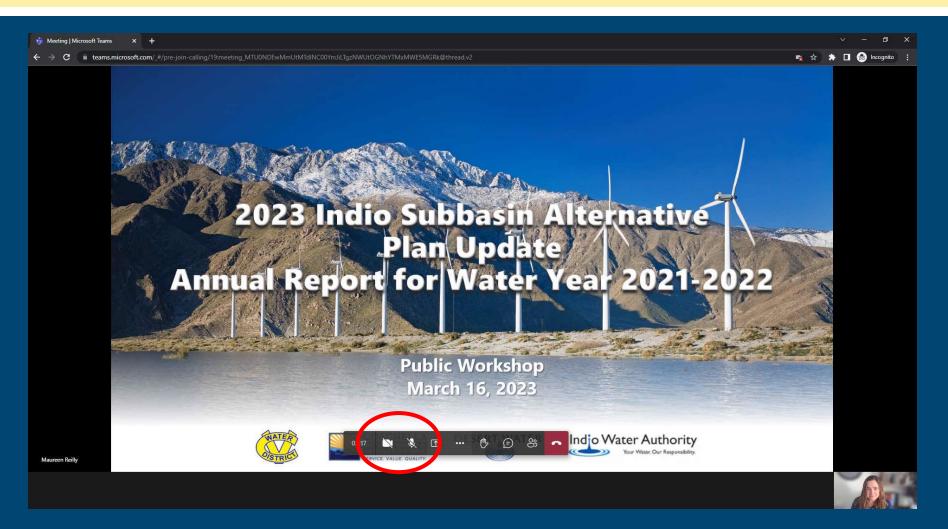








Teams – Quick How To



- 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)
 - Entering 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









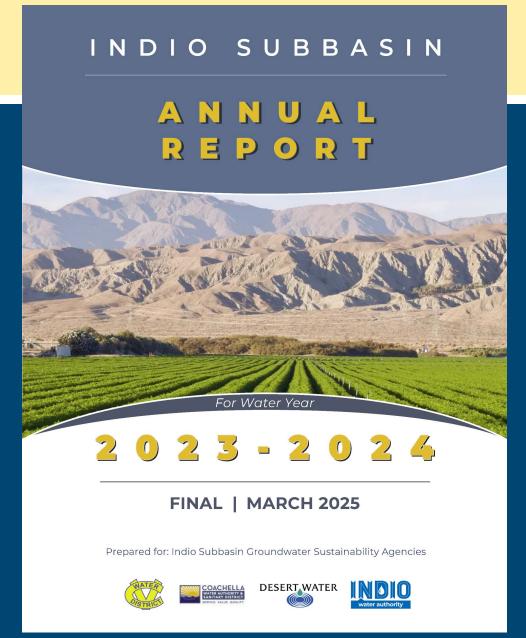


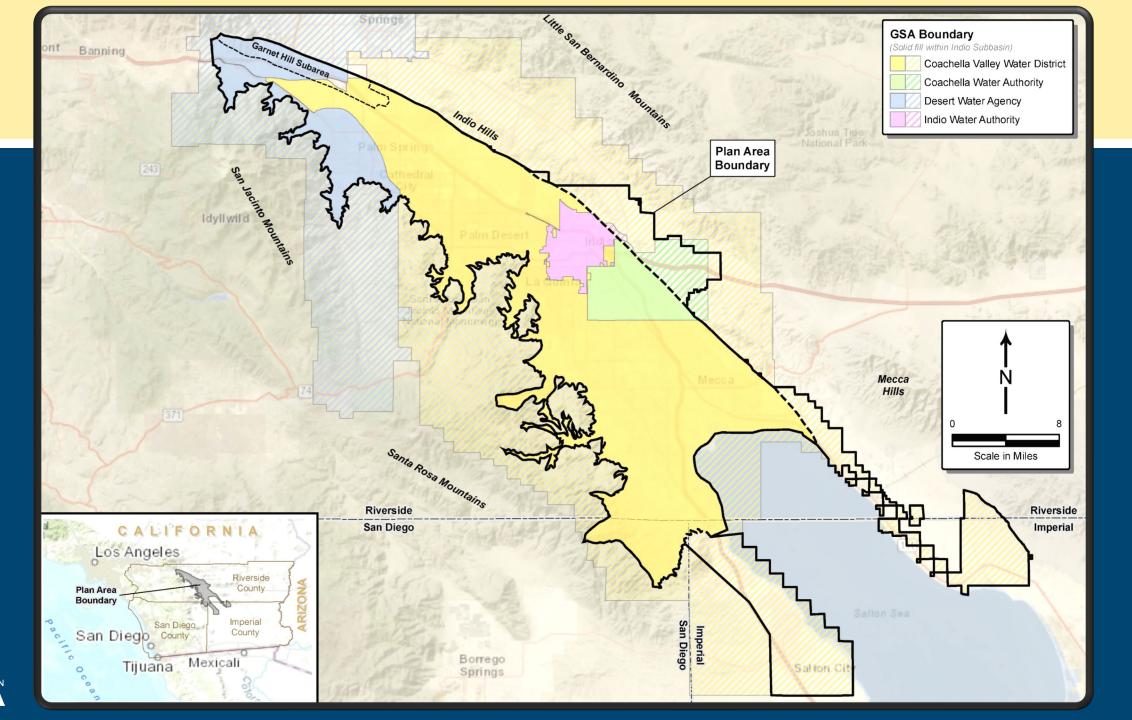
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Indio Subbasin Annual Report for WY 2023-2024

- Annual Report is required by Sustainable Groundwater Management Act (SGMA)
 - General information
 - Subbasin conditions
 - Implementation progress of projects and management actions (PMAs)
- 8th Annual Report (4th report following submittal of *Indio Subbasin 2022* Alternative Plan Update)
 - *Covers WY 2023-2024 (Oct. 1, 2023 Sept. 30, 2024)
- Will be submitted to DWR by April 1, 2025







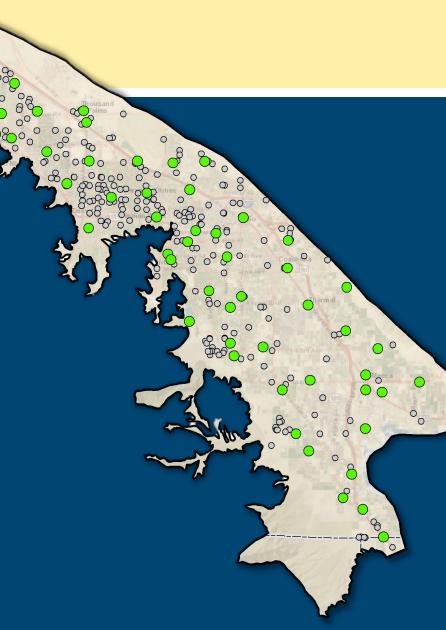
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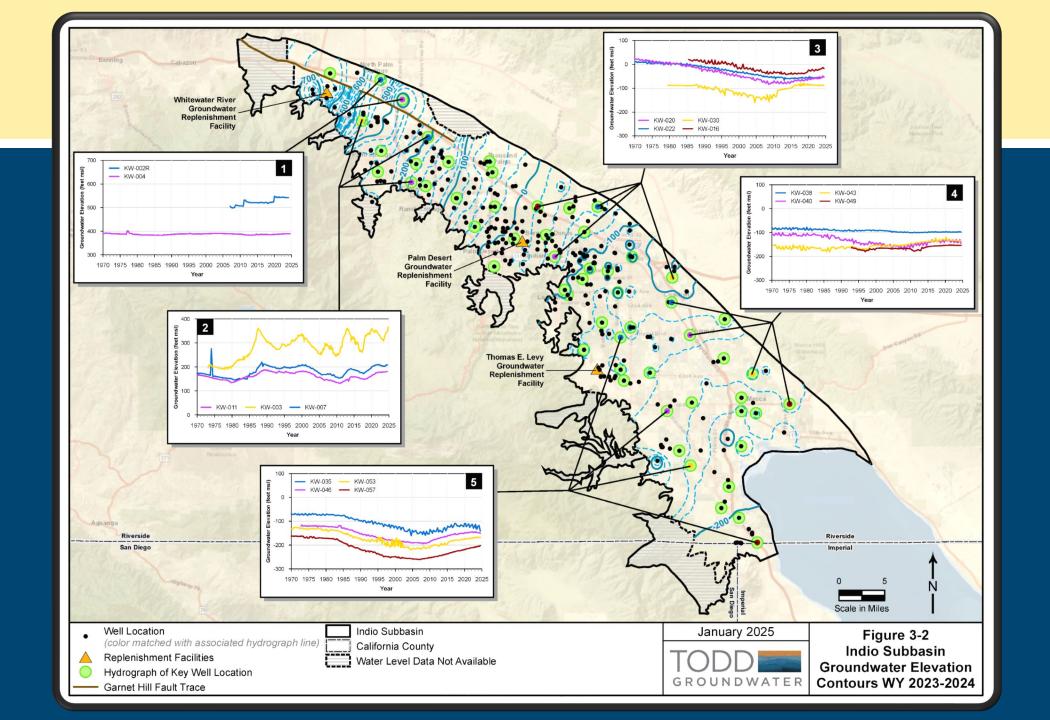


Groundwater Elevation Data

 Groundwater elevations from 355 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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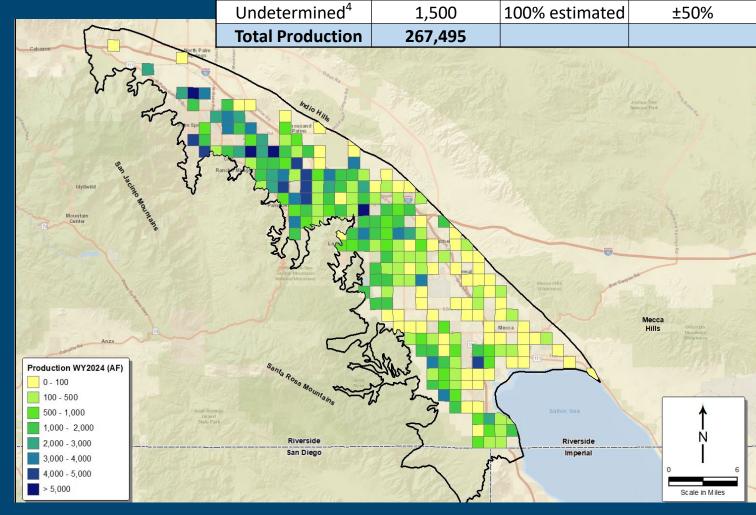


Groundwater Extractions

Groundwater extractions from metered use except

- Minimal pumpers
- Tribal trust lands
- **267,495** AF
- Groundwater pumping increased 3 percent from last water year

Groundwater Extractions (AF)	Method of Measurement	Accuracy of Measurement
39,708	100% metered	±2%
1 000	15% metered	±2%
1,808	85% estimated	±50%
224.470	99% metered	±2%
Urban ³ 224,479	1% estimated	±50%
1,500	100% estimated	±50%
267,495		
	Extractions (AF) 39,708 1,808 224,479 1,500	Extractions (AF) Method of Measurement 39,708 100% metered 1,808 15% metered 85% estimated 99% metered 1% estimated 1,500 100% estimated





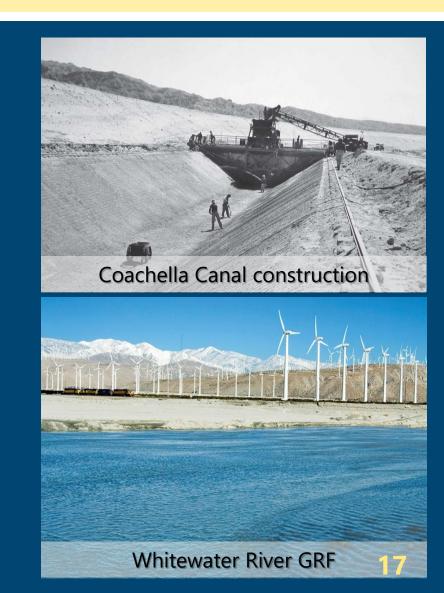


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Multiple Water Sources

- 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

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



WY 2023-2024 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	298	100% metered	±2%
Industrial	0	Not applicable	
Urban ¹	309	100% metered	±2%
Total Surface Water Use	607		



Imported Water - Direct Use

- CVWD receives Colorado River water from the Coachella Canal
- 273,121 AF imported water for direct use in Plan Area
 - *85% agriculture
 - ♦ 15% urban
- 6 percent increase last year



WY 2023-2024 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	231,659	100% metered	±2%
Urban ²	Coachella Canal	41,462	100% metered	±2%
Industrial	Coachella Canal	0	100% metered	±2%
Environmental ³	Coachella Canal	0	Not applicable	
Total Imported	Water for Direct Use ⁴	273,121		

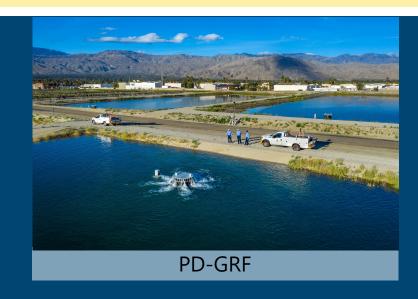


Groundwater Replenishment

WY 2023-2024 Total Groundwater Replenishment

Replenishment Facility	Water Source	Volume Recharged in WY 2024 (AF)
Whitewater – GRF	Imported Water	281,207
	Local Surface Water	2,297
Palm Desert – GRF	Imported Water	11,855
TEL – GRF	Imported Water	1,368
Total		296,726

- Three sources of water used for replenishment:
 - DWA and CVWD receive State Water Project exchange water from Colorado River Aqueduct (CRA)
 - CVWD receives Colorado River water from Coachella Canal
 - DWA recharges local surface water

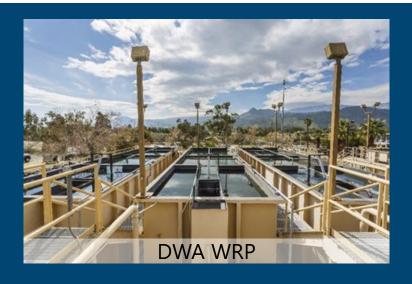


- 296,726 AF water for replenishment
 - ♦ 11,855 AF at Palm Desert GRF
 - ♦ 1,368 AF at Thomas E. Levy GRF
 - ◆ 283,503 AF at Whitewater River GRF
- 63 percent increase over last year



Recycled Water

- Three water reclamation plants (WRPs) provide recycled water
 - ❖Palm Springs WWTP/DWA WRP
 - **CVWD WRP-7**
 - **CVWD WRP-10**
- 13,164 AF recycled water produced
 - ❖ 100% urban



WY 2023-2024 Recycled Water Use in the Indio Subbasin

Water Use Sector	Water Source	Recycled Water Use (AF)	Method of Measurement	Accuracy of Measurement
Urban¹	DWA WRP	3,122	100% metered	±2%
Urban ¹	CVWD WRP 7	2,055	100% metered	±2%
Urban¹	CVWD WRP 10	7,987	100% metered	±2%
Total Recycled Water Use		13,164		



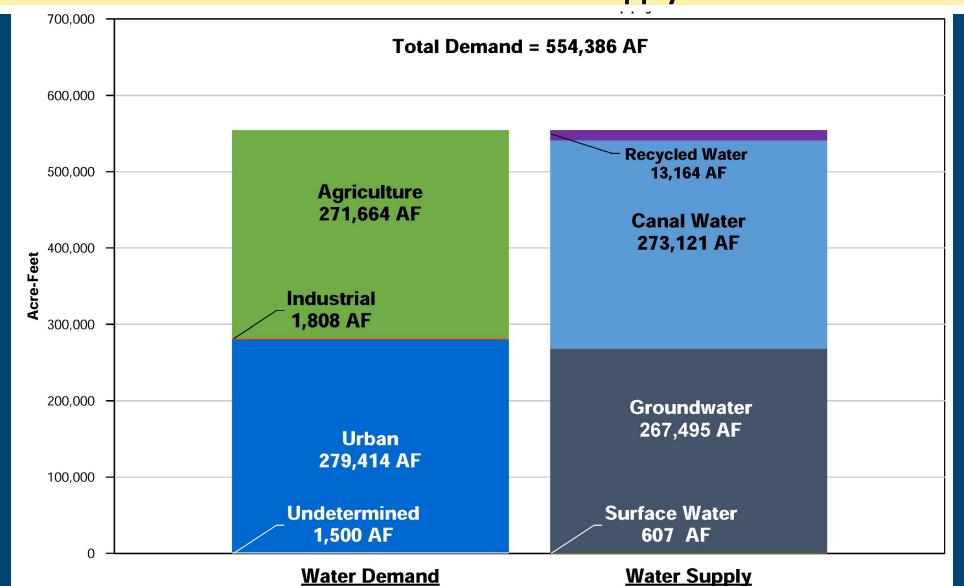


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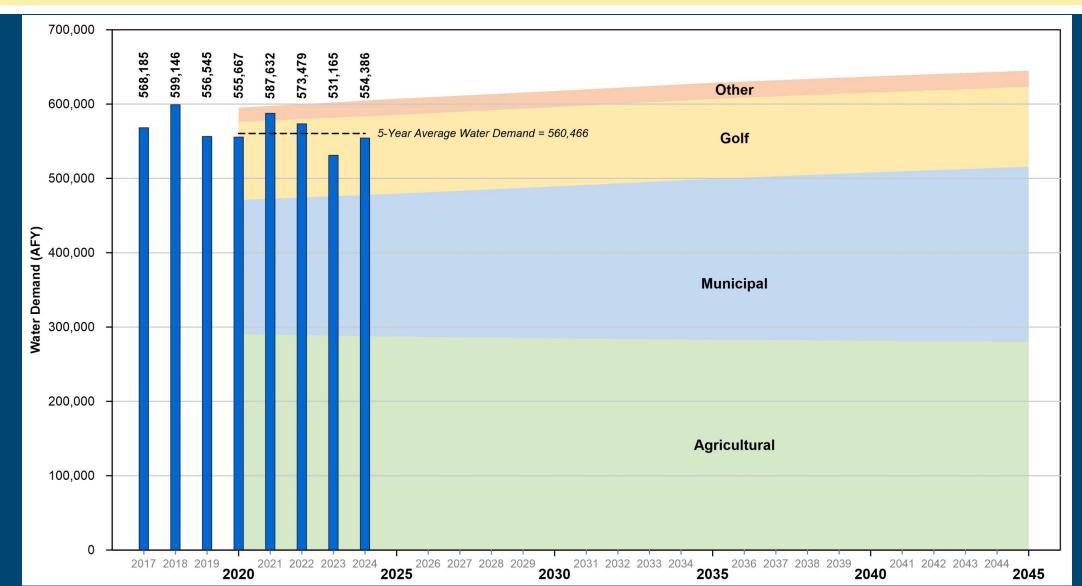
Total Water Use

WY 2023-2024 Water Demand and Supply – Plan Area



Total Water Use

Total Water Demand Actual and Forecasted – Plan Area



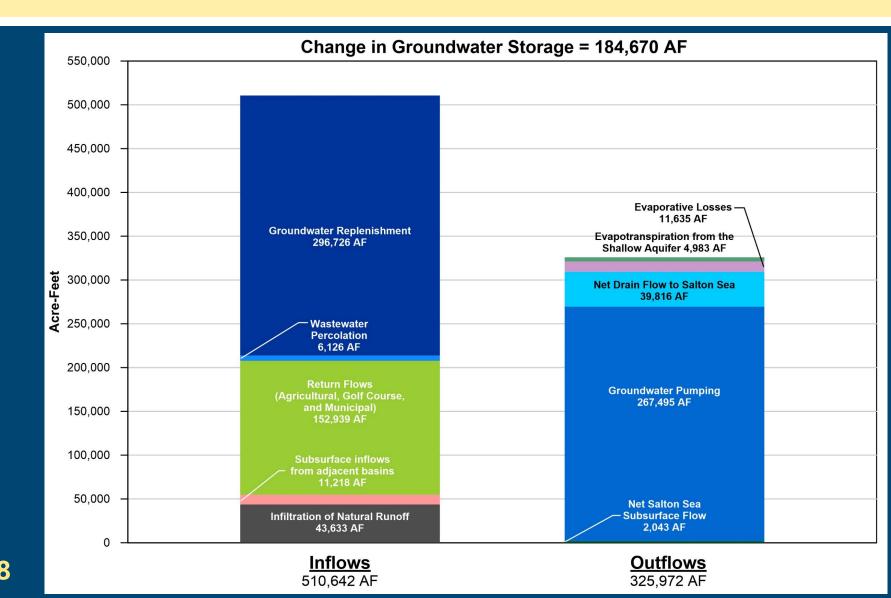


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Change in Groundwater Storage

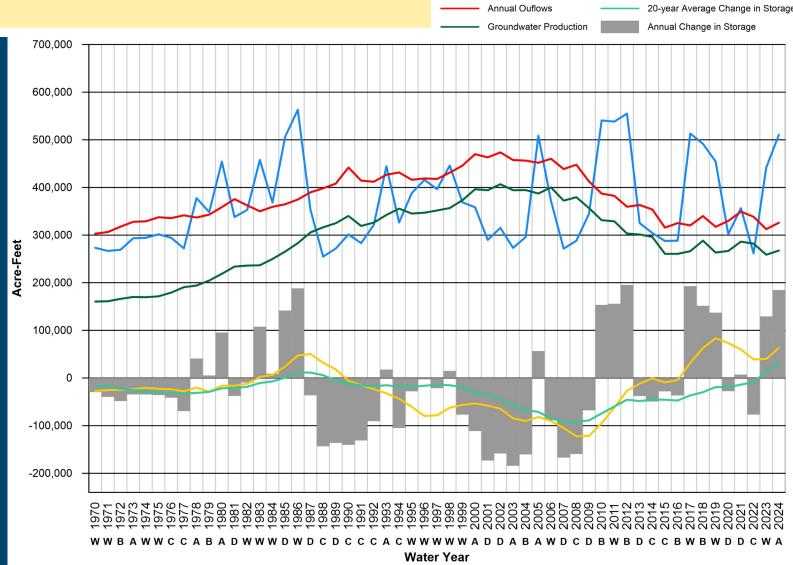
- Comparison of Inflows and Outflows
- Inflows
 - Return Flows
 - ❖ Replenishment
 - Natural Infiltration
 - Subsurface Flow
 - WW Percolation
- Outflows
 - Pumping
 - Drains
 - Evapotranspiration (ET)
 - Subsurface Flow





Change in Groundwater Storage

- Annual change in storage
 - ♦ Wet Conditions (+129,357AF)
- Average change in storage
 - ❖Since 2009, 10-year average (yellow line) is positive and the 20-year average (green line) since WY 2023
 - Shows the Indio Subbasin is still sustainable



10-year Average Change in Storage

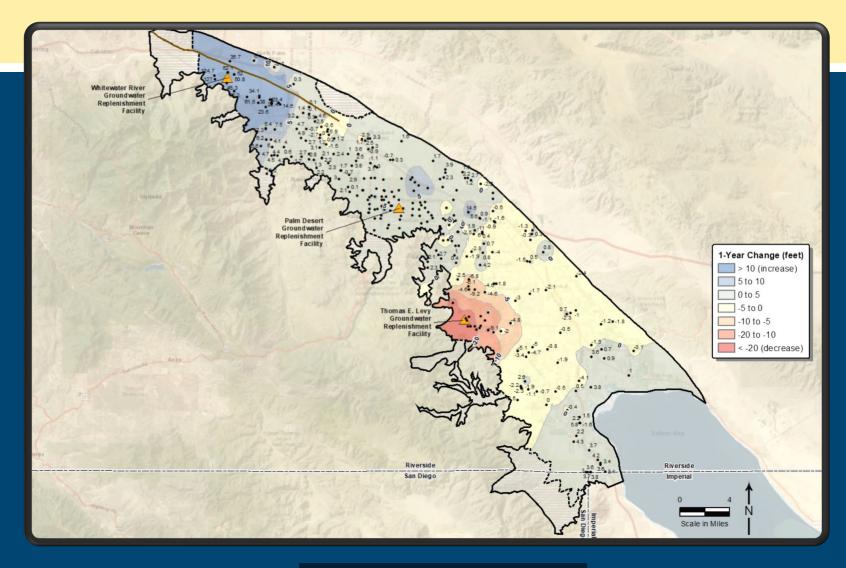
Change in Groundwater Levels

- 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 355 wells throughout the Indio Subbasin



One Year Change

- Groundwater levels generally increased in the past water year
 - Increases near WWR-GRF but declines downstream due to variability in recharge
 - Declines in the western part of the Subbasin due to less TEL recharge

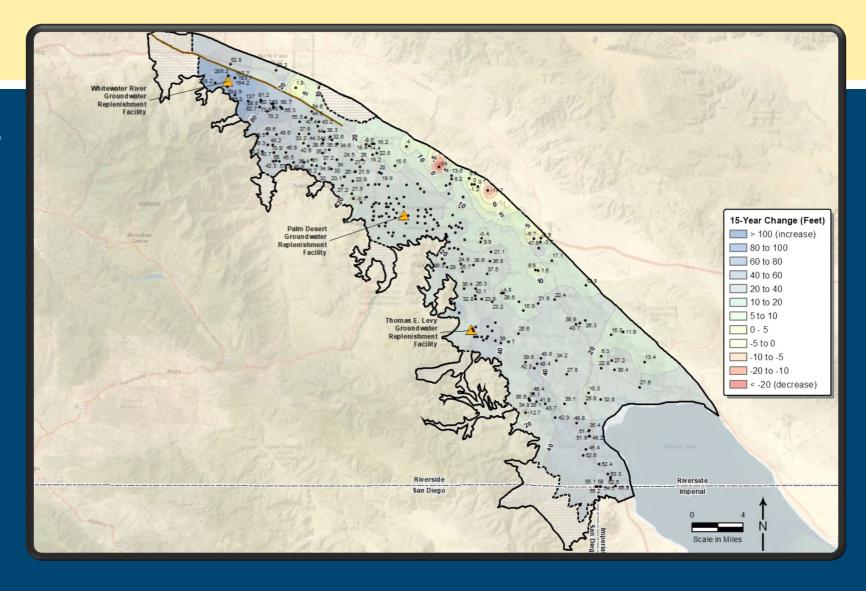


WY 2023 to WY 2024



Long-Term Change

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







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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 2022-2023

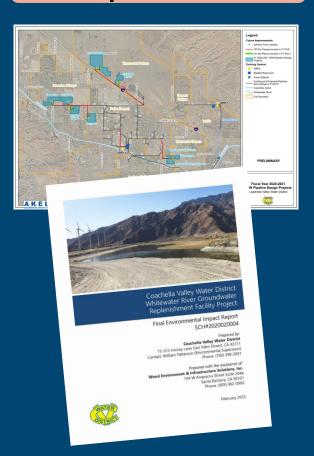
Water Conservation



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 2023 Annual Report can be downloaded:



www.IndioSubbasinSGMA.org

- Indio Subbasin Annual Report for WY 2023-2024 Council/Board Presentation
 - Coachella Valley Water District March 11, 2025
 - Coachella Water Authority TBD
 - ❖Desert Water Agency TBD
 - ❖Indio Water Authority TBD



Stay Involved – Visit our Website



