

IWVGA Board Meeting
March 12, 2025

Indian Wells Valley WY 2024 Annual Report

Water Year 2024 (October 1 2023 to September 30 2024)

Background

- SGMA Requirement
 - Submit annual report to DWR by April 1, reporting on the previous Water Year (WY)
 - Major Components:
 - Progress Toward Sustainability
 - Groundwater Elevation Data
 - Water Supply Data

Annual Report Organization

- Executive Summary
- General Information
- Progress Towards GSP Implementation and Sustainability
- Hydrologic Conditions
- Groundwater Elevation Data
- Water Supply Data
- Other Data Collection and Basin Management Tools

Progress Towards Sustainability

- Major Accomplishments in WY 2024

- Imported Water Project

- 30% Design
 - Draft Biological Assessment and draft Biological Evaluation prepared regarding the desert tortoise and Mojave ground squirrel
 - Discussions and negotiations for the purchase of imported water supplies
 - Draft Right of Way Acquisition Plan

- Shallow Well Mitigation Program

- Approval of two applications for partial funding to replace wells
 - Updated Shallow Well Mitigation Report Form and Facts Sheet
 - Development of Shallow Well Consolidation Project with IWWWD (funded by Urban Community Drought Relief Grant)

- Other Tasks

- Updates and upgrades to the numerical groundwater flow model
 - Addressed Recommended Corrective Actions
 - Preparation of the 2025 GSP Periodic Evaluation (draft completed in WY 2025)

Progress Towards Sustainability

- Sustainable Management Criteria
 - Chronic Lowering of Groundwater Levels
 - Representative Monitoring Sites and sustainable management criteria were evaluated
 - Currently 9 monitoring sites
 - Water levels at all sites are above minimum thresholds
 - Degraded Water Quality
 - Representative Monitoring Sites and sustainable management criteria were evaluated
 - Currently 12 monitoring sites
 - Water levels at all sites are below minimum thresholds
 - Land Subsidence
 - Available data does not indicate any significant land subsidence has occurred in WY 2024.

Hydrologic Conditions

Water Year Types based on Precipitation at China Lake NAF Station (No. 041733)

WY	Annual Precipitation (in/yr)	Water Year Type
2015	3.67	N
2016	1.38	BN
2017	4.61	AN
2018	1.43	BN
2019	6.13	W
2020	5.57	AN
2021	0.58	D
2022	1.87	BN
2023	8.27	W
2024	3.41	N

Notes: W = Wet, AN = Above Normal; N = Normal; BN = Below Normal; D = Dry.

Groundwater Elevation Data

- Hydrographs are provided in the Annual Report and are on the Data Management System (DMS). www.iwvgsp.com
- Groundwater in Storage

	Thiessen Area (acres)	Average Annual AFY			WY 2023 (AF)	WY 2024 (AF)	5-Year Cumulative Change (AF)
		WY	WY	WY			
		2020 (AF)	2021 (AF)	2022 (AF)			
IWV Main Basin	154,960	-15,883	-15,883	-15,883	-12,370	-9,931	-69,948
El Paso Subarea	34,010	2,390	2,390	2,390	-5,513	737	2,394
Total	188,971	-13,492	-13,492	-13,492	-17,883	-9,194	-67,553
Hydrologic Condition		AN	D	BN	W	N	

Water Supply Data

- **Groundwater Extraction Data**

- Based on reported groundwater pumping data for extraction fees and best available data from sources available to the IWVGA

Water Use Sector	WY 2024	WY 2024
	Reported Pumping	Estimated Pumping
	(AF)	(AF)
Urban	6,190	6,190
Industrial	2,810	2,810
Agriculture	5,430	8,760
Other – Federal		1,620
Other – Domestic/ Mutuals/Co-Ops	100	1,460
TOTAL	(incomplete)	20,840

Water Supply Data

- Groundwater Extraction Data

Water Year	Total Estimated Pumping (AF)
WY 2019	22,800
WY 2020	21,990
WY 2021	20,800
WY 2022	21,160
WY 2023	19,150
WY 2024	20,840

In WY 2024, the estimated total groundwater production was 2.7 times the estimated sustainable yield of 7,650 indicating overdraft conditions have continued in the IWV.

Next Steps

- Submittal to DWR by April 1
- Continued and ongoing data collection in WY 2025
 - Spring groundwater level data collection in mid- March 2025
- GSP implementation of Project and Management Actions