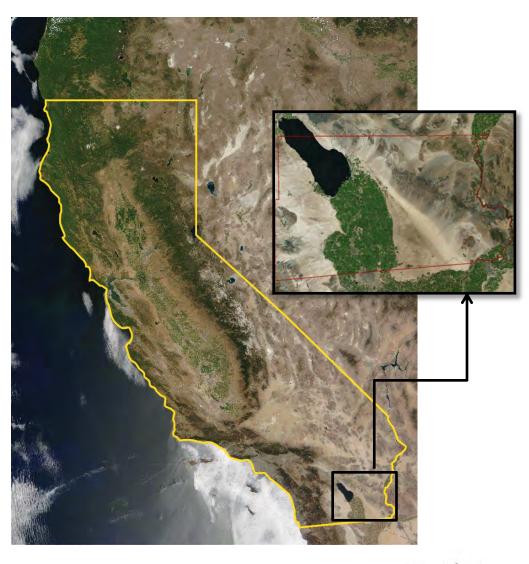
Agricultural-to-Urban
Water Conservation
Transfers:
Imperial Irrigation
District's Efficiency
Conservation
Programs

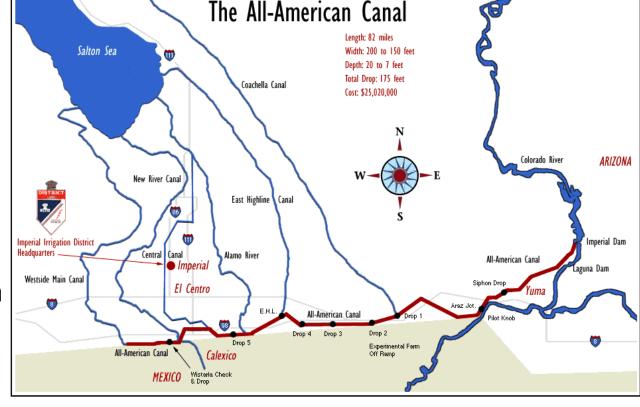
Tina Shields, PE Water Manager tlshields@iid.com





## IID's Water Supply & Service Area

- 3,100,000 acre-feet annual Colorado River consumptive use entitlement
- 1,061,637 gross acres within boundaries
- 520,307 total acreage receiving water
- 471,682 total farmable acreage
- Imperial Dam diversion structure, headworks and six desilting basins
- 82-mile long All-American Canal





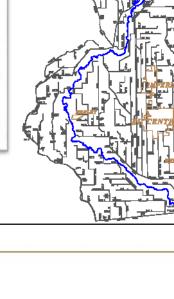
# Irrigation and Drainage System

Imperial Dam diversion works and desilting basins

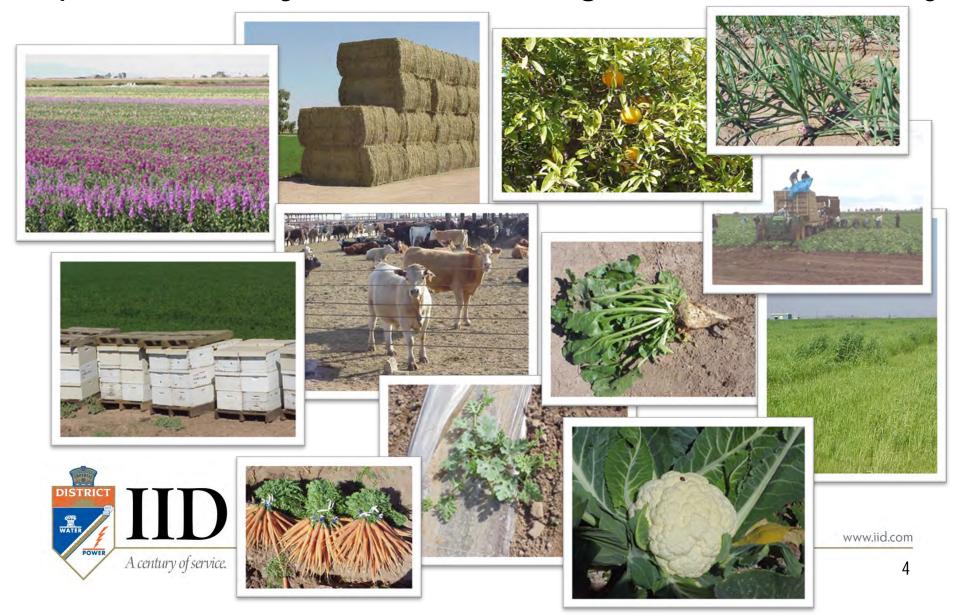
1,590 miles of conveyance facilities







## Imperial County - \$2.6 Billion Agricultural Economy

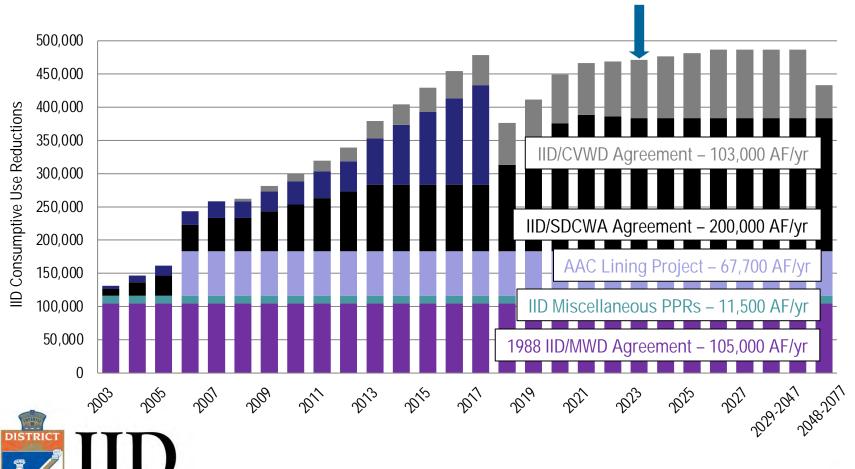




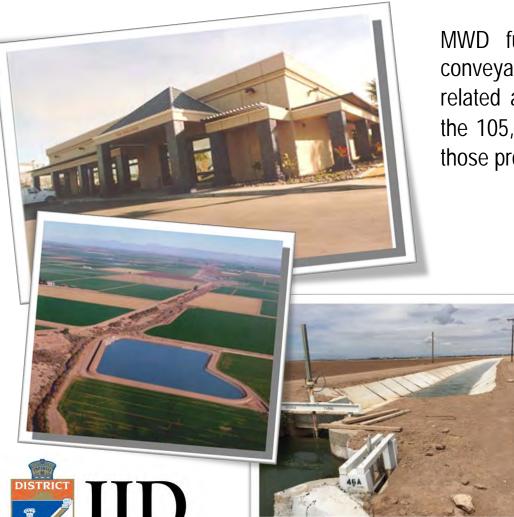
A century of service.

## **QSA Water Conservation Programs**

**2003-2023 Total Conservation = 7.7+ Million Acre-Feet** 



## 1988 IID/MWD Conservation Program



A century of service.

MWD funded capital improvements to IID's conveyance system (completed in 1997) and related annual O&M expenses in exchange for the 105,000 acre-feet per year of conservation those projects generate.

- 5 Reservoirs (Bevins, Young, Russel, Willey and Galleano)
- 270 miles of concrete lined canals
- 3 Lateral Interceptors (Plum-Oasis, Mulberry-D, Trifolium)
- System Automation (SCADA, main canal automated gates, water information system and Water Control Center)
- 12-Hour Delivery Program

## 2003 SDCWA/CVWD Conservation Programs

303,000 AFY of conservation generated from the construction of capital improvement projects that increase operational efficiency and provide water management flexibility, combined with on-farm conservation programs that provide funding to growers for verified conservation measures that improve agricultural water use efficiency.

- Seepage recovery systems, lateral interties, operational reservoirs, canal concrete lining, automation, and technology improvements.
- \$500+ million in direct payments to growers/landowners to implement field-level irrigation improvements (tailwater return systems, drip irrigation, sprinklers, precision land-leveling, etc.)

A century of service.



#### Lower Basin Plan Conservation and IID's Role



- 3 MAF of additional conservation created by Lower Basin States through 2026, with 50 percent left in Lake Mead by EOY 2024. California will create 1.6 MAF of conservation or ICS to build elevation.
- IID's 800,000± AF of conservation was preconditioned on the mitigation of Salton Sea impacts related to accelerated playa exposure that was accomplished through a \$250 million federal funding commitment and a 4,000 acre dust control/aquatic habitat project expansion by the California Natural Resources Agency.
  - ✓ IID 2023 SCIA ≈ 100,000<sup>±</sup> AF (on-farm conservation)
  - IID 2024-2026 SCIA ≈ 250,000 ± AFY (pending final environmental compliance and permitting)
    - Expanded On-Farm Efficiency Conservation
    - Deficit Irrigation Program
    - System conservation
    - Existing conservation/transfer programs
    - Fallowing Program www.iid.com



#### The Salton Sea



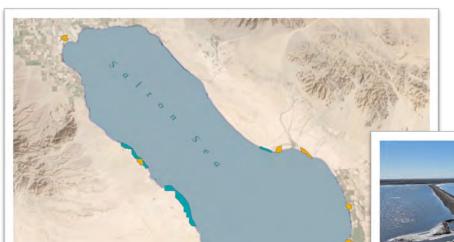
DISTRICT
WATER
POWER
A century of service.

- 360 square miles, up to 52' deep
- Congressionally designated agricultural sump for IID/CVWD
- Volume of 7.5 MAF with annual inflow of up to 1.3 MAF, no outflow
- Nearly 50% saltier than the ocean
- Repository for agricultural drainage
- Heavily used by migratory waterfowl including endangered species
- > 11' elevation decline since 2003 and 30,488 acres of playa exposed since 2003
- Without transfers, Sea was estimated to turn hypersaline between 2010 and 2025
- With transfers, Sea was estimated to turn hypersaline 1-9 years earlier





## California Salton Sea Management Program

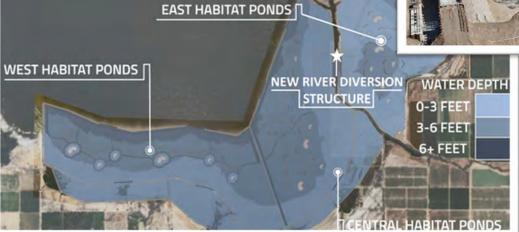


- 4,110 acre Species Conservation Habitat project is a series of constructed ponds with islands and areas of varying water depths to provide fish and bird habitat
- 750 acres dust suppression projects









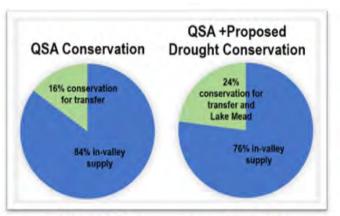
### The Colorado River – A Critical Community Resource



POWER A century of service.

- The Colorado River is the region's only water supply.
- IID has a year-round growing season with robust cropping yields that provide the nation a safe and reliable food supply.
   One in every six jobs in Imperial Valley is directly related to agriculture.
- The communities that rely on IID for water are largely disadvantaged, underserved minority populations.
- All IID conservation reduces Salton Sea inflows, contributing to ecosystem and public health (air quality) impacts.
- IID already conserves and transfers 16 percent of its water supply, more than 485,000 AFY, to Southern California.

≈ 750.000 AFY



≈ 500,000 AFY

For the Lower Basin
 Drought Plan IID will
 increase its conservation
 target to ≈ 750,000 AFY,
 or more than 24 percent
 of IID's entitlement.

# IID's QSA Water Conservation & Transfer Summary (2003-2023 Totals ≥ 7.7 million acre-feet)

