

THE EVOLUTION OF METROPOLITAN'S AGRICULTURAL PARTNERSHIPS

WATER ADVISORY COMMITTEE OF ORANGE COUNTY FRIDAY, AUGUST 5, 2022



Quantification Settlement Agreement Quantified Water Budgets

<u>F</u>	Priority			Million Acre-feet	
	1 & 3b	PVID]	0.42 (Average)	
	2	Yuma Project		0.42 (Avelage)	
	3a	IID		3.10	1 01 16
	3a	CVWD		0.33	
	4	MWD*	PI	0.55	
			Total	4.40	

*Amount fluctuates based on PVID/Yuma Project use, unused IID and CVWD water



IID Water transfer agreements with:

- Metropolitan Water District
- San Diego County Water Authority
- Coachella Valley Water District



Evolution of Metropolitan's Agricultural Partnerships



IID-MWD Water Conservation Program

PVID Fallowing Program

Bard Seasonal Fallowing Program

2016



Quechan Seasonal Fallowing Pilot Program



IID-Metropolitan Conservation Program

- MWD funded conservation projects, and funds Operations and Maintenance of the projects
- 105,000 AFY
- No requirement for reduction in IID use of Colorado River water
- Allows IID to grow the same crops with less water
- Annual funding on average \$ 11M 14M

IID-Metropolitan Conservation Projects





 5 additional, doubled storage

Canal Lining & Lateral Interceptors

- 270 miles of laterals
- 34 lateral interceptors
- Installation of 14 nonleak gates

Irrigation Management & 12-Hour Delivery



- 55,000 deliveries per year
- Delivery measurement and Pump back Systems
- Installation of drip irrigation systems



 Main canal automation and Water Control Center

Palo Verde Partnerships

- MWD committed to finding innovative ways to promote Colorado River supply reliability
- Landmark land fallowing program executed in 2005





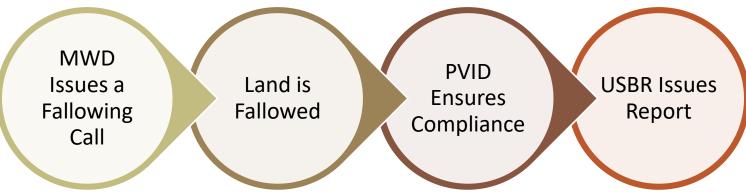


PVID Fallowing Program Overview

- Variable Fallowing Level
 - 25% 100% of program lands
 - Enrollment of up to 25,947 acres
 - Approximately up to 125,000 AF at maximum
- Voluntary sign up
- Stabilizes Farm Economy
- Established Community Improvement Program

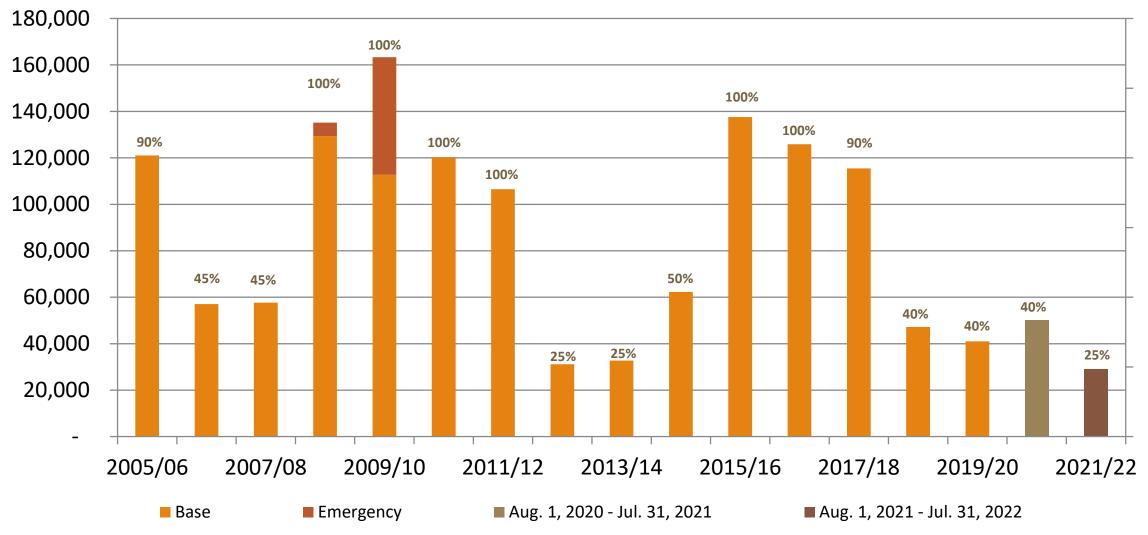


PVID Fallowing Program Implementation



PVID Fallowing Program Yield

Water Saved (AF), Contract Year (August 1 – July 31)

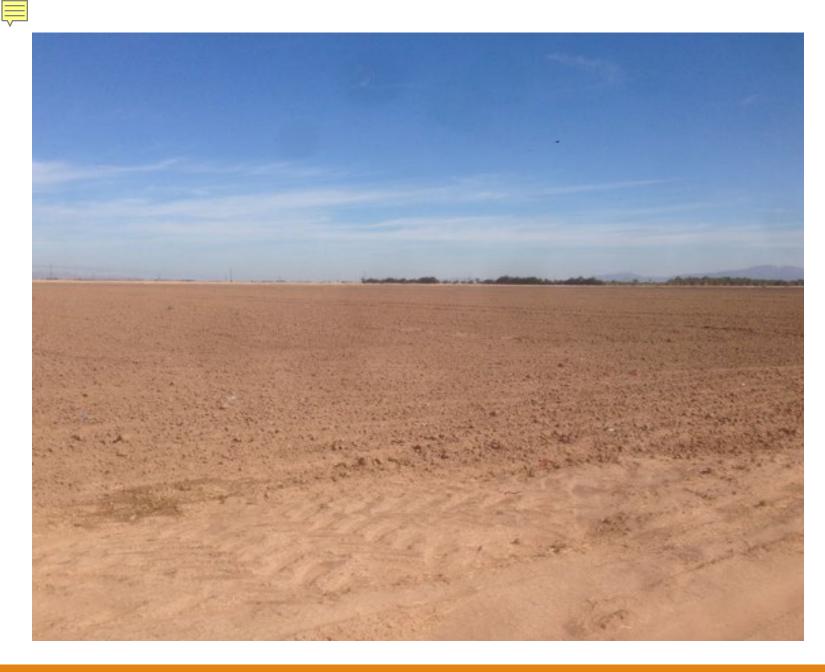






Community Improvement Fund

- •Supports Palo Verde Community
- Metropolitan provided a \$6 million endowment in 2005
- Managed by Volunteer Board
- •MWD and PVID are non-voting members
- •Economic study concluded program is successful



Seasonal Fallowing Programs in the Yuma Area

•Partnerships with:

- Bard Water District
- Quechan Indian Tribe of the Fort Yuma Indian Reservation

•Seasonal fallowing occurs in the summer

• Focus on fallowing lower-value, water-intensive crops



Broccoli is a higher-value winter crop



Sudan grass is a water-intensive summer crop



Up to 6,000 acre-feet of water made available for urban use

\$1.4 Million maximum payments for Bard farmers

Bard Seasonal Fallowing Program



Fallowing Call to Bard WD by October 1st of each year

Fallowing Season April 1st to July 31st 2020-2026

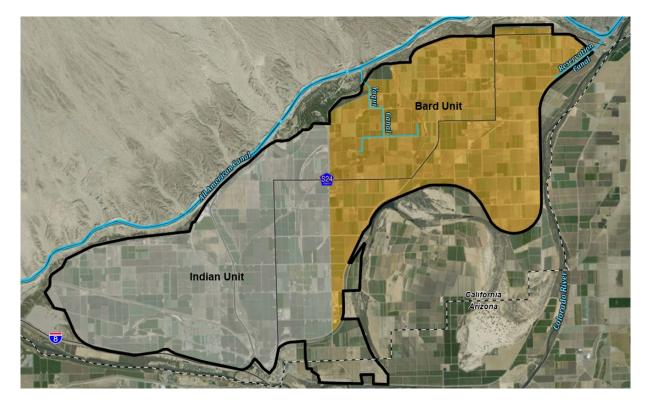
Requirements:

 At least 10 contiguous irrigable acres
Have been farmed for at least three of the last five years / previously fallowed



Bard Water District





Bard Water District

• A unit of the Yuma Project

• Diverts water from the All-American Canal

•6,400 irrigated acres

BWD's PERSPECTIVES

Fallowing Aids BWD in CIP Projects





BWD's PERSPECTIVES

BWD collaborates with growers to fallow areas in the district that require construction projects

The funds that BWD receives from the fallowing program enable BWD to preform these CIP Projects

Often, fallowing funds are used with grant funds to maximize construction opportunities



BWD's PERSPECTIVES





Bard Seasonal Fallowing Program; Innovative, Flexible, and Affordable Water Supply

•A long-term partnership

 Supports the local economy by providing stable source of income for farmers and funding system improvements for Bard

 Conserved water will be for Metropolitan's use or stored in Lake Mead for future use



Participants	Payment Allocation	\$/Fallowed Acre (2022)
Participating Farmers	75%	\$354.30
Bard Water District*	25%	\$118.10
Total	100%	\$472.40

*Bard receives an additional \$15,000 for direct program costs and system improvements

Fallowing Year	Count of Participating Famers	Fallowed Acres	Payment (Mil \$)	Water Savings (AF)	AF/ Acre*
2020	4	2,749	\$1.26	6,075	2.21
2021	5	2,887	\$1.37	5,803	2.01
2022	4	1,426	\$0.69**	2,866**	TBD

* AF/Acre estimated savings are updated following the release of the latest USBR Water Accounting Report

** Values are estimated and will be finalized following the end of the fallowing season

2022 Incentives and Historical Production



Up to 3,500 acre-feet of water made available for urban use

\$1.6 Million maximum payments for farmers and Quechan Tribe over the pilot period

Quechan Tribe Seasonal Fallowing Pilot Program



2 – Year Pilot Program

Will provide information that could lead to the development of a longerterm fallowing program

Fallowing Season April 1st to July 31st 2022-2023

Requirements:

 Have been farmed for at least three of the last five years / previously fallowed
Must be Quechan tribal land

2022 Incentives and Production

Participants	Payment Allocation	\$/Fallowed Acre (2022)
Participating Farmers	75%	\$354.30
Quechan Tribe*	25%	\$118.10
Total	100%	\$472.40

*Quechan receives an additional \$15,000 for costs related to the development and administration of the Pilot

Fallowing Year	Count of Participating Famers	Fallowed Acres	Payment (\$)	Water Savings (AF)	AF/ Acre*
2022	1	118	± \$71,000	238**	TBD

* AF/Acre estimated savings are updated following the release of the latest USBR Water Accounting Report

** Values are estimated and will be finalized following the end of the fallowing season

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Fallowing Program Key Takeaways

- Great tool for collaboration between agricultural and urban users
 - Benefits both parties
- •Focuses on lower use higher value crops
- Depends on market condition
- A variable fallowing call makes this a flexible program
- •Could be a model for other water districts



Metropolitan Continues to Explore Innovative Agriculture Conservation

Deficit irrigation

 Incentivizing to lower water use crops

•Tiered rates for our lessees





Nadia R. Hardjadinata

Water Resource Management Group Supply Acquisition Team (213)217-6445 <u>NHardjadinata@MWDh2o.com</u>



Nick Bahr

General Manager (760) 356-0714 <u>Info@BardWaterDistrict.com</u>