



# Imperial Irrigation District

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## IID Background Facts & Figures

### GENERAL FACTS ABOUT IID

The Imperial Irrigation District (IID), a community-owned utility, provides electricity and irrigation water to the lower southeastern portion of California's desert. Established in 1911 under the California Irrigation District Act, IID is governed by a five-member board of directors elected by the public. In the early years, IID acquired properties from the bankrupt California Development Company and its Mexican subsidiary and by 1922 had acquired 13 mutual water companies, which had developed and operated distribution canals in the Imperial Valley.

### WATER

IID is the largest irrigation district in the nation and ranks as one of the top ten agricultural counties as well. The 82-mile long All-American Canal delivers water to 500,000 acres of Imperial Valley farmland through a 1,668-mile network of main and lateral canals.

<b>AREA SERVED</b>	<u>Acres</u>
Gross acreage	1,061,637
Irrigated area	461,251
Average Agricultural use per year (varies per crop and soil type)	5.6 AF/acre
Water delivered thru All-American Canal	2.8 MAF/yr.

### WATER CUSTOMERS

Total Customers (Farm Accounts)	6,290
Owner-operated	2,760
Tenant-operated	3,530
Water rate	\$14.06/acre-foot

<b>CANALS &amp; DRAINS</b>	<u>Miles</u>
Main canals	230
Canals and laterals	1,438
Concrete lined or pipelined	1,109
Drainage	1,406

### IRRIGATION STRUCTURES

Delivery Gates	5,591
Lateral headings	493
Lateral checks	3,426

**FLOW INTO SYSTEM BELOW PILOT KNOB**

	<u>Acre-feet</u>
1998	3,097,829
1997	3,158,989
1996	3,154,973
1995	3,065,503
1994	3,043,050
1993	2,766,973
1992	2,567,621
1991	2,894,111
1990	3,050,008
1989	3,004,888

**WATER DISTRIBUTION**

Ninety-eight percent of the water IID transports is used for agriculture. The remaining two percent is then delivered to nine Imperial Valley cities, treated to safe drinking water standards, and distributed to residential water customers.

**WATER CONSERVATION**

In the 1988 agreement with the Metropolitan Water District of Southern California, IID participated in the most aggressive water conservation program ever undertaken by a single water district. More than 107,000 acre-feet of water is now being conserved annually through various water conservation projects as a result of this agreement.

Completed conservation projects include the construction of the Trifolium Interceptor and reservoir which collects surplus water from the Spruce Lateral 4 West Canal through the Trifolium Lateral 13 Canal and returns it to the Vail Canal for use.

Other projects under this agreement include various regulating reservoirs, lateral interceptors, concrete lining of canals, 12-hour deliveries, non-leak gates, system automation, and on-farm management.

**POWER**

After discovering its potential for low-cost hydroelectric energy from its five falling water drops along the All-American Canal, IID entered the power industry in 1936. Today, IID serves electricity to more than 92,000 connections in Imperial County and parts of Riverside and San Diego counties. When IID first began, its first power customers were served electricity which was produced at a diesel generation plant in Brawley. With the purchase of the Nevada-California Electric Company in 1943, IID expanded its power system to include the Coachella Valley. By that time, Drops 3 and 4 of the All-American Canal were generating hydroelectric power. With the repowering of Unit 2 at the El Centro Steam Plant, IID became the first utility in California to build new power plant capacity in the 1990s. IID now ranks as the sixth largest power utility in California based on power consumption.

**SERVICE AREA**

Area served by IID

6,471 sq.  
miles

**PEAK LOAD**

1998 peak demand	684.3MW
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**MILES OF LINE**

	<u>Miles</u>
Transmission Lines	1,339
Subtransmission Lines	321
Distribution Lines	
Overhead & Underground	3,667

**CUSTOMERS**

(As of March 1999)	<u>Meters</u>
Residential	77,535
Commercial & Industrial	12,554
Agricultural (pumping)	969
Other	1,746
Total Customers	92,804

**IID-OWNED GENERATING PLANTS**

	<u>MW</u>
El Centro Combined Cycle	115
El Centro Steam Units	118
Yucca Steam Unit	74
Gas Turbines	162
Hydroelectric (at minimum flow)	24
Total IID-Owned	493

**OTHER ENERGY SOURCES**

	<u>MW</u>
El Paso Electric (ends 2002)	150
So. Calif, Public Power Authority	
Palo Verde	14
San Juan	104
Western Area Power Admin. (summer)	33
Off-System Losses	(13)
Total	288

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