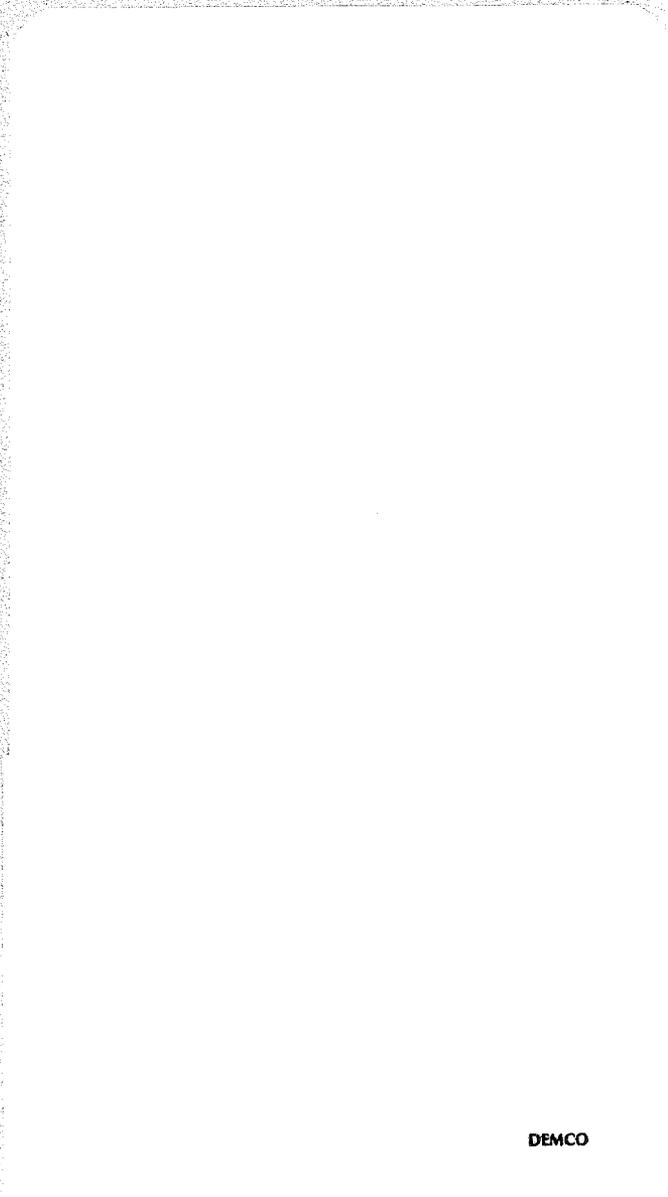


# Water Service Organizations In Arizona

Arizona Department  
of Water Resources

1998

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## **INTRODUCTION**

A continuing need exists for the Arizona Department of Water Resources, as well as other agencies, groups and individuals to have a comprehensive reference containing up-to-date information on water service organizations in Arizona.

## **AUTHORIZATION AND SUPPORT**

The Arizona Water Commission in late 1977 requested that the University of Arizona Water Resources Research Center compile a reference work on Arizona water organizations. Subsequently an intergovernmental contract was implemented between the Arizona Water Commission and the Arizona Board of Regents for the University of Arizona, providing the necessary work. Funding support for the project was provided jointly by the Arizona Water Commission and the Central Arizona Water Conservation District and the report was completed in August 1978. A revised 1991 edition and this 1998 edition have been updated by the Arizona Department of Water Resources.

## **PURPOSE AND SCOPE**

The general objective of this work is to provide a compilation of descriptive information on political subdivisions and non-profit organizations in the State of Arizona which play a significant functional role in water supply, distribution and control. This work is intended as an aid in the State water resources planning process and as a source of information for water administrators and water users.

This compilation includes information on agricultural water service organizations, municipal and industrial water suppliers, Assured and Adequate Water supply, Incorporated cities, selected special districts and Indian irrigation projects. Summary information is also included on the Groundwater Management Code and significant water decrees. The agricultural entities are irrigation and drainage districts, irrigation water delivery districts and agricultural water companies. The municipal suppliers include private domestic water companies and municipal water departments, limited to those with significantly large service areas. Special districts and projects include a multi-county district and an agricultural improvement district. Four court decrees on water rights in Arizona are briefly reviewed: Globe Equity No. 59, also known as the Gila River Decree, the Kent Decree, the Benson-Allison Decree and the Norviel Decree.

## PROCEDURE

The Arizona Department of Water Resources contacted water service entities and asked them to provide information on their current organization and operation. The Department did not confirm any of the data, but relied on the accuracy of the information provided by the various water service organizations. The Department did not receive responses from all water service organizations. If updated information was not received, information was included from the previous edition.

Irrigation and drainage district, irrigation water delivery districts and agricultural water companies received the primary emphasis of project data collection efforts. Their responses have been used to update the 1991 edition of Water Service Organizations in Arizona to this current edition. If any organization listed in this publication has changes/corrections to their listing, please contact the Arizona Department of Water Resources' planning staff at 417-2460.

Copies of this publication may be purchased from the  
Arizona Department of Water Resources  
500 North Third Street, Phoenix, Arizona 85004 or call (602) 417-2400.

# AGRICULTURAL WATER SERVICE ORGANIZATIONS

## LEGAL AUTHORITY

In Arizona, there are numerous types of agriculture related districts. Three forms of districts are considered to be agricultural water service organizations, and each of these forms has separate statutory authorization: (1) irrigation and drainage districts; (2) irrigation water delivery districts; and (3) agricultural water companies.

### IRRIGATION DISTRICTS AND IRRIGATION AND DRAINAGE DISTRICTS

Irrigation districts are municipal corporations with broad powers and purposes.<sup>1</sup> Districts can purchase or acquire water rights, own or sell property and real estate, construct facilities, generate electricity, appropriate water for irrigation and power generation, tax and charge for services, appropriate money, and provide the district with water, electricity and other public conveniences and necessities generally provided by municipalities. If an irrigation or water district also contains the word drainage, appropriate powers extend to the district.<sup>2</sup>

Districts are formed by petition of a majority of the holders of real property in the district's boundaries. Boards of Directors are elected by vote of those holding title to property in the district, who are 18 years of age or more, and registered voters. Directors hold office for three years and have sufficient power to carry out the purposes of the district, including construction of works and collection of taxes and charges. All district taxes are levied at a uniform rate per acre.

Irrigation and drainage districts have the power of eminent domain.

Instead of assessments and tax levies, the Board of Directors may operate on a cash basis, charging a minimum annual rate on each acre with water rights.

### IRRIGATION WATER DELIVERY DISTRICTS

Irrigation water delivery districts are corporate bodies, but not municipal corporations.<sup>3</sup> They have perpetual succession and can contract, sue, acquire, hold, and sell real and personal property, adopt a seal, incur debts and contract with the federal government for irrigation services. A district is formed by a petition of a majority and landowners. Control of the district is in a three-member Board of Directors who are elected from landowners. Each landowner casts one vote for every 1/5 acre owned. Directors serve staggered terms of office.

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<sup>1</sup>A.R.S. § 48-2901 to 3256.

<sup>2</sup>A.R.S. § 48-2601 to 2813.

<sup>3</sup>A.R.S. § 48-3401 to 3477.

Irrigation water delivery districts have the power of eminent domain.

Districts are financed by taxes and charges. Taxes pay for a water supply at the head of the district's ditch and for system maintenance, including reasonable overhead, administrative expenses and contract payments. The costs of distributing water to land parcels are paid by a sliding scale of water charges, with rates varying according to the costs of service to different land parcels.

### **AGRICULTURAL WATER COMPANIES**

Agricultural water companies are also labeled as water associations, mutuels, canal companies and irrigation companies. They are private corporations and associations with perpetual succession. They have the right to sue, make contracts, acquire and transfer property, exempt the private property of shareholders from corporate debts and make rules and regulations for management. They serve an area determined by the membership and control is vested in an elected Board of Directors. Each shareholder votes as the charter allows.

Companies and associations have no powers of eminent domain. Companies are funded by issuing stocks and bonds, and are not tax-exempt. Revenues are generated from water sales and fees.

**IRRIGATION DISTRICTS  
AND  
IRRIGATION AND  
DRAINAGE DISTRICTS**



## AGUILA IRRIGATION DISTRICT

### PERSONNEL

President: Henry Brubaker  
Aguila Irrigation District  
P.O. Box 263  
Aguila, AZ 85320

Manager: None

Secretary: Maria Carmen Anaya  
(520) 685-2233 ext. 10

Legal Counsel: Jay I. Moyes  
Meyer, Hendricks, Bivens & Moyes, P.L.C.  
3003 N. Central Avenue  
Phoenix, AZ 85012  
(602) 604-2200

### WATER RIGHTS AND SOURCES

Groundwater is the sole source of water for all irrigation in the District. No water rights are necessary to irrigate.

### FACILITIES AND WORKS

The District owns no facilities and a consolidated distribution system does not exist. All wells and ditches are privately owned.

### WATER DELIVERIES

The outer boundary of the district is shown on the attached map. Because central water facilities are not in operation, groundwater pumping amounts are estimated. U.S. Geological Survey Publications indicate a maximum pumping amount of 144,000 acre-feet during 1981 for the entire basin which includes more irrigated land than just this District. More recent pumping estimates in the basin are at an amount less than 100,000 acre-feet for the basin. This District is located in the same designated basin as the McMullen Valley Water Conservation District.

### ORGANIZATIONAL HISTORY

This District was formed in 1938 by action of the Maricopa County Board of Supervisors acting under the authority of the Arizona Revised Statutes Title 45, Chapter 6 (renumbered to Title 48, Chapter 19). The District was reactivated in February 1984 in order to contract for Colorado River power.

## AVRA VALLEY IRRIGATION DISTRICT

### PERSONNEL

President: John Kai, Jr.  
15315 W. Silverbell Road  
Tucson, AZ 85743  
(520) 744-1573  
349-0567

District Office: P.O. Box 97  
Marana, AZ 85633

Legal Counsel: Michael Curtis  
Martinez & Curtis, P.C.  
2712 N. 7th Street  
Phoenix, AZ 85006-1003  
(602) 248-0372

Three persons serve on the Board of Directors. Presently, they are elected on a one-vote-per-landowner basis. There are no employees.

### WATER RIGHTS AND SOURCES

Groundwater is the sole source for all irrigation. The district is in the Tucson Active Management Area.

### FACILITIES AND WORKS

There are no consolidated facilities or works. All ditches and wells within district boundaries are owned, either privately or by the Arizona State Land Department.

### WATER DELIVERIES

Water is delivered from wells through individually owned farm ditches. The gross irrigated acreage within the District is 16,058 acres, of which 6,501 acres are on state land and 9,557 acres are privately owned.

### ORGANIZATIONAL HISTORY

The District was organized in 1980.

## BUCKEYE WATER CONSERVATION AND DRAINAGE DISTRICT

### PERSONNEL

President: R.M. Narramore  
P.O. Box 9  
Palo Verde, AZ 85343

Secretary: Kyle Hindman  
25390 W. Hwy. 85  
Buckeye, AZ 85326

Member: Wilbur Bushong  
17800 W. Southern  
Buckeye, AZ 85326

### BUCKEYE IRRIGATION COMPANY

President:	William Hardison P.O. Box 9 Palo Verde, AZ 85343	Members:	Twain Black Stephen Grandy John Kerr Steve Bales
Secretary:	Gary Colvin P.O. Box 1726 Buckeye, AZ 85326		Lonny Carmichael William Lanford
Legal Counsel:	John S. Schaper P.O. Box 26860 Phoenix, AZ 85068-6860		

The Buckeye Water Conservation and Drainage District has three directors. The Buckeye Irrigation Company, a non-profit mutual company which operates the District and the entire system, is governed by a seven-member board of directors, each serving one year. Stockholders elect the directors on a one-vote-per-acre (or share) basis. There are between 17 and 20 employees.

### WATER RIGHTS AND SOURCES

The District water supply is delivered from groundwater, treated sewage effluent and surface water.

Groundwater is pumped from wells within the District and along the main canal system. Effluent discharged from the City of Phoenix's 91st Avenue sewage treatment plant is diverted as flow from the Gila River channel at the Buckeye heading. The quantity is determined by a 40-year agreement made in June 1971 with the City of Phoenix, under which the District received 2,500 acre-feet of effluent per month, as measured at the treatment plant discharge point.

Rights to surface water sources have evolved over many years. Early uses of water upstream from the Buckeye heading were adjudicated as to priority by the "Haggard Decree" (Arizona Territorial District Court, 1903). This affected the water supply at Buckeye diversion points, and by 1917 an action was brought through the Maricopa County Superior Court which resulted in the "Benson-Allison Decree",

adjudicating all rights to divert water from the Salt-Gila system downstream from Joint Head Dam including the "Haggard Decree" lands. The latter decree also established a duty of water of 80 miner's inches per 160 acres as measured at the farm headgate, allowing losses of 1.5 percent per mile in determining diversion duty. (A miner's inch is equivalent to 3.33 acres or one cubic foot per second (CFS) for 133 acres.)

Additionally, agricultural water users in the Buckeye area are entitled to receive, from upstream sources, an amount equivalent to 1.1 percent of diversions at Granite Reef Dam by the Salt River Project, under a settlement reached in 1943 (Halpenny and Greene, 1975).

The Buckeye Irrigation District is in the Phoenix AMA. All land owners must have irrigation GFR to irrigate with groundwater.

### FACILITIES AND WORKS

The principal physical facilities serving the District are the Buckeye Headgate, Main Canal and its south extension, the lateral system, and the well system. In addition to production wells, the District operates seven wells as drainage wells in the lower portion of the District.

### WATER DELIVERIES

Water is delivered by the District to a gross farmed area of approximately 18,000 acres each year (18,673 acres in 1976). Water is measured by weirs at the farm delivery points and is priced to the water user at a rate set for each irrigation season (April 1-October 1). The summer 1988 price was \$10.00 per acre-foot. There is also an assessment of \$8.00 per year.

The total annual water supply of the District in terms of gross pumpage and diversions has ranged from about 90,000 to more than 150,000 acre-feet. In 1987 total supply was 209,258 acre-feet, of which 27,358 was pumped groundwater, 157,133 was diverted at Buckeye Heading as river flow (including effluent) and 24,767 was the entitlement of surface water furnished by the Salt River Project.

The quantity of drainage water pumped from the District in 1977 was about 22,600 acre-feet.

### ORGANIZATIONAL HISTORY

Water rights for irrigation of lands from the Gila River in the Buckeye area were first acquired in 1885. The diversion works and irrigation system were operated as a private enterprise until 1907, when the present Buckeye Irrigation Company bought out the system and began operation as a mutual, non-profit organization. In 1922 the Buckeye Water Conservation and Drainage District was formed as a legal entity under the statutes governing organization of Districts in Arizona (Halpenny and Greene, 1975).

## CENTRAL ARIZONA IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President:	DeWitt Weddle P.O. Box 605 Eloy, AZ 85231	Secretary: Thomas Isom
Legal Counsel:	Paul R. Orme, P.C. H.C. 63 Box 3042 Mayer, AZ 86333 (520) 465-0445	
District Office:	231 S. Sunshine Blvd. Eloy, AZ 85231 (520) 466-7336 (520) 258-3756	Manager: Ron McEachern P. O. Box 605 Eloy, AZ 85231

The District is controlled by a nine-member board of directors. Directors are elected by landowners in the District by an acreage system of voting. There are currently 26 employees.

### WATER RIGHTS AND SOURCES

All water in the district is supplied by District operated wells or Central Arizona Project (CAP) water. The District has an agricultural allocation of CAP water equal to 18.01% of the total CAP agricultural supply.

### FACILITIES AND WORKS

Construction of the district's distribution system was completed in 1990. The distribution system has three CAP turnouts, 32 miles of main canals, and 208 miles of laterals and pipe.

### WATER DELIVERIES

CAIDD is composed of approximately 87,300 acres and has typically required about 165,000 acre-feet of irrigation water annually from 1984 to 1995, around 40% of which was CAP water.

In 1995, 180,805 acre-feet of water was delivered to approximately 47,200 acres of district lands.

### ORGANIZATIONAL HISTORY

Organized in 1964, the District was formed for the purpose of contracting water from the Central Arizona Project.

Cotton, grains, pecans and citrus are the major crops grown within the District.

## CHANDLER HEIGHTS CITRUS IRRIGATION DISTRICT

### PERSONNEL

President: Dan Kleinman

Vice President: Ron DeMaranville

Dep Secretary: R. Todd Anderson  
Secretary: B J Reinhardt  
P.O. Box 9038  
Chandler Heights, Arizona 85227

Legal Counsel: Rodney Matheson  
1837 South Mesa Drive  
Mesa, AZ 85202

The Board of Directors is comprised of three persons elected on a one person-one vote. In addition to the secretary, the District employs a full-time zanjero for irrigation deliveries and one domestic zanjero.

### WATER RIGHTS AND SOURCES

Groundwater and Central Arizona Project (CAP) water serve as the sources of water for the District.

### FACILITIES AND WORKS

The District owns four wells and approximately 23 miles of underground tile drains. One private well is owned by Henry Klekot within District boundaries.

### WATER DELIVERIES

Of the 1,290 acres in the District, approximately 1,250 are irrigated primarily for citrus, some grapes and a little pasture. Well pumpage is measured in gallons per minute and farmers are charged by the acre-foot. This charge is currently \$45.00. Deliveries are made on the basis of request and availability of water. From June 30, 1994 to June 30 1995, 4,200 acre-feet of water was distributed within the District for irrigation. During the same period approximately 37 million gallons of water was served to more than 250 domestic connections. A property tax of \$50.00 per acre was assessed in 1995.

### ORGANIZATIONAL HISTORY

The District was organized in 1929.

## CHINO VALLEY IRRIGATION DISTRICT

### PERSONNEL

Chairman:	Robert J. Davis (602) 636-4535
Clerk of the Board:	Sue Rees P.O. Box 105 Chino Valley, AZ 86323
Maintenance Board Member:	Delbert Applebee
Administrative Board Member:	Helen Wells

Three persons serve on the Board of Directors, elected on the basis of one vote per landowner. The District employs a zanjero when necessary.

### WATER RIGHTS AND SOURCES

Watson Lake and Willow Creek reservoir provide irrigation water for the District. Watson Lake dam was constructed on Granite Creek in 1916 and the earliest appropriation rights were filed in 1911. The appropriate right for Willow Creek was filed in 1935 and the dam was completed in 1936 or 1937.

### FACILITIES AND WORKS

The dams, main canal and laterals are owned and maintained by the District. Some private ditches are lined, however, the main canal and laterals are not. The District also owns one well which was not used during the qualifying period for irrigation grandfathered rights.

### WATER DELIVERIES

The District includes approximately 2,458 acres, generally about 700-800 acres of the land are irrigated. Alfalfa, permanent pasture and wheat are the primary crops. Some lands have been subdivided and have relinquished their water shares.

Prior to each irrigation season (May through July), reservoir holdings are calculated in acre-feet and divided by the number of shares entitled to water. The water is run continuously at a normal head of 100 miner's inches, with each irrigator issued a fixed number of hours.

The basic charge for water distribution and administration was \$5.00 per acre in 1987 and the same in 1995.

### ORGANIZATIONAL HISTORY

The District, located in Chino Valley, about 12 miles north of Prescott, was formed in 1925 in order to facilitate securance of a federal loan to build the Willow Creek dam. Its predecessor, the Chino Mutual Water Users' Association, sold water shares to landowners prior to 1920 to pay for Watson Lake Dam. The district currently has 500 shareholders, 100 actively ordering water.

## CIBOLA VALLEY IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: Wayne Sprawls  
Rural Route 2, Box 2  
Cibola, AZ 85328

Secretary: Joe D. McCain  
(619) 922-3903

Legal Counsel: Dale Shumway  
30 West First Street  
Mesa, AZ 85201  
(602) 834-7200

Water Conservation  
Coordinator: William H. Allen  
ASL Hydrologic & Environmental Services  
1130 East Missouri Avenue, Suite 110  
Phoenix, AZ 85014

There are five persons on the Board of Directors. Each landowner registered to vote in the district is entitled to one vote per acre up to a maximum of 640 votes in regard to general matters or no more than 1,280 votes in an election of directors.

The district employs two individuals, one as an office secretary and one to operate district facilities and works. Part-time employees are hired periodically as mechanics and heavy equipment operators.

### WATER RIGHTS AND SOURCES

The Colorado River is the sole source of district water. Agricultural, municipal and industrial uses are covered in the district's U.S. Bureau of Reclamation contract in the aggregate amount of 24,120 acre-feet. The district also has a 3,000 acre-foot allotment (fifth priority) for an unused Arizona Entitlement and a sixth priority allotment of 4,000 acre-feet for surplus water which includes unused Arizona Entitlement. The maximum diversion in any one year is 31,120 acre-feet.

### FACILITIES AND WORKS

Three of the seven river pumps which provide water to the farming operation are district-owned. All but one are metered. The three district pumps provide approximately 85 percent of the water deliveries in the Cibola Valley Irrigation and Drainage District's (CVIDD's) service area. All main distribution canals are district owned and concrete-lined. There are approximately 110 domestic wells and three large wells that are pumped for municipal and industrial (M&I) purposes in the district. Water use from these wells is estimated and reported annually to the U.S. Bureau of Reclamation.

## WATER DELIVERIES

The district's service area encompasses 6,720 acres, of which approximately 4,800 acres may be cultivated. There are 4,500 acres that are privately owned fee simple parcels, 1,260 acres that are State Trust Lands, and 960 acres that are federally controlled.

Over the past 25 years, an average of 3,550 acres of farm land has been cultivated annually. Production varies yearly with the following crops having been grown since 1971: alfalfa, cotton, barley, wheat/oats, milo/maze, bermuda grass, rye, sudan, corn, melons, onions and tomatoes. Alfalfa, bermuda grass and cotton have been the primary crops.

Water charges to users are based on the actual cost of distribution and maintenance for six-month periods. In 1995, the charge has been established at \$9.50 per acre-foot. This figure goes up and down depending on the variable cost of pumping water from the river and the distribution and drainage system costs which are projected in the annual budget. In 1995, major expenditures have been incurred to clean and repair ditches, and to clean out and realign the districts drainage system. These costs are covered by a construction charge of up to \$20.00 per acre.

## ORGANIZATIONAL HISTORY

CVIDD lands are situated on the Arizona side of the Colorado River about 20 miles south of Blythe, California. The valley is a continuation of the Palo Verde Valley on the California side of the river. The first attempt to supply water to the valley was made by the Cibola Canal Company organized in 1898. The canal company filed notices and began diverting in 1901 under a statutory method adopted by the 17th Territorial Legislature in 1893 for formal appropriation of water. In 1902, two pumps were installed in a slough which extended from the Colorado River.

After the death of the manager of the Cibola Canal Company in 1912, the settlers established the Cibola Valley Irrigation District in 1913. It was dissolved in 1944.

CVIDD was formed in 1962 in order to come under the provisions of the Boulder Canyon Project Act and to furnish an organization for the protection of the mutual interests of its members. Owners of land in Cibola Valley were not named as parties in the pre-trial directives of Arizona v. California (373 U.S. 546.83 Sup. Ct. 1468, 1963). In 1964, the southern half of the district was incorporated into the Cibola National Wildlife Refuge and subsequently that area was designated to have a priority date that corresponded to the date of formation of the refuge. The district boundaries were not modified until special action of the Arizona State Legislature in 1978.

On November 15, 1966, the district petitioned the Secretary of Interior to issue them a contract. That document was finally signed on January 31, 1983. It was revised and amended on September 2, 1992 to include additional lands, to modify the boundary of the district's services area, to include domestic use, to provide for exchanges, leases, transfers and to include the use of a part of Arizona's unused Colorado River apportionment.

## CORTARO-MARANA IRRIGATION DISTRICT

### PERSONNEL

President: Arthur B. Pacheco

Manager: Robert Condit  
12253 W. Grier Road  
Marana, Arizona 85653

Secretary: Robert Condit

Legal Counsel: Michael Curtis  
Martinez & Curtis, P.C.  
2712 N. 7th Street  
Phoenix, AZ 85006-1003  
(602) 248-0372

There are two Boards of Directors:

Cortaro-Marana Irrigation District: Three board members are elected from three subdistricts within the Irrigation District on an alternating annual basis. Voting is on the basis of one man (shareholder), one vote.

Cortaro-Marana Water Users' Association: Elections are Association-wide and are held every uneven numbered year in April. Voting is based on an acreage system. There are seven Board members and their terms of office rotate, two of the members' terms expiring each election (3 expires every 6th year).

In addition to the project manager, the District employs a treasurer/accountant, a domestic water superintendent, four zanjeros and a maintenance crew.

### WATER RIGHTS AND SOURCES

An appropriative right to 29,100 acre-feet per year of the Santa Cruz River "underflow" was obtained through the decision in the case of Pima Farms Co. v. Proctor, 30 Arizona 96, 245 Pac. 369 (1926). The District also uses groundwater and effluent.

The District contracts with Pima County for sewage effluent from the Ina Road treatment plant. The District has contracted for municipal and industrial Central Arizona Project water amounting to 47 acre-feet per year.

Appropriative right to effluent in Santa Cruz River; 1,800 acre-feet per year contract for up to 10,000 acre-feet per year CAP Recharge (In-direct).

### FACILITIES AND WORKS

The District owns and maintains canals, irrigation and non-irrigation distribution systems and more than 50 irrigation and domestic wells. Individual farmers own their ditches. All canals and laterals are concrete-lined.

Within the 19,800 acre District, 53 farm units are served irrigation water on approximately 12,000 acres of cultivated lands and approximately 500 customers receive domestic water. Private wells with capacities of more than 50 gallons per minute are prohibited by Association/District deed restriction.

In 1995, the basic charge per acre for distribution and other operating expenses was \$46.50 paid in installments of \$15.50 and \$31.00 near the beginning of the calendar year. This entitles the landowner to 1.5 acre-feet of water per acre. Additional water in 1995 cost \$46.50 per acre-foot. Tail water is redistributed to the extent possible.

#### ORGANIZATIONAL HISTORY

Cortaro-Marana Irrigation District was formed in 1961. Cortaro Water Users' Association, predecessor of the Irrigation District, deeded all assets to the District and became solely the management agent.

The first well within the area served by the District was drilled in 1919 and a water and power distribution system quickly followed. The water supply system has been used continuously since this time although ownership changed several times prior to 1947. The Cortaro Water Users' Association was formed in 1948.

Crops grown in the District include cotton, lettuce, barley, wheat, maize and alfalfa.

**DUNCAN VALLEY IRRIGATION DISTRICT**  
**(FORMERLY LISTED AS FRANKLIN IRRIGATION DISTRICT)**

**PERSONNEL**

<b>President:</b>	Wilbur Lunt RR1, Box 51 Duncan, AZ 85534 (520) 359-2533
<b>Secretary:</b>	Grant Howard RR1, Box 420 Duncan, AZ 85534 (520) 428-2804
<b>Legal Counsel:</b>	Mark S. Bryce 605 Main Street Safford, AZ 85546 (520) 428-1800
<b>Secondary Counsel:</b>	David Brown Brown & Brown P.O. Box 3128 Pinetop, AZ 85935 (520) 367-3235

The Franklin Irrigation District is governed by a three member board of directors (President and two board members).

**WATER RIGHTS AND SOURCES**

Both surface and groundwater are utilized by the District. Surface rights are specified in the Globe Equity No. 59 Decree (U.S. District Court, 1935), known as the Gila River Decree.

In 1940 the District drilled approximately ten wells along their canals (three were not in use in 1983) and additional groundwater is pumped by private wells.

**FACILITIES AND WORKS**

The District holds title to ten wells. Canals and laterals were deeded to the canal companies functioning within the District such that the District is not responsible for upkeep or maintenance. The majority of the canals and laterals are lined.

**WATER DELIVERIES**

The District boundaries encompass 4,736.35 acres of Gila River bottom land in the Duncan Valley. Nearly all of this acreage is actively cropped and irrigated.

Surface water is allocated to canal companies by the Gila Water Commissioner in accordance with the Gila River Decree and the quantities allocated are reported annually to the U.S. District Court by the Gila Water Commissioner. In 1982, 24,239 acre-feet were allocated. The companies, in turn, convey the water to individual farmers. No domestic service is provided.

Three canal companies operate within the District, although independent of the District. Major canals in operation are the Sunset, New Model and Valley Canals. The Valley Canal, New Model and Sunset Canal Companies divert from the Gila River in Hidalgo County, New Mexico.

Approximately 1,500 acres each are planted to cotton, alfalfa and pasture. Vegetables, pinto beans, small grains, corn silage, wheat and maze constitute the remainder of the irrigated acreage. A tax assessment of \$1.25 per acre was made in 1987.

### ORGANIZATIONAL HISTORY

The District was formed in 1922 as a legal entity to protect the water rights of the canal companies operating in the Duncan Valley. Originally, thirteen companies operated within the District, delivering water diverted from the Gila River. Erratic surface water supplies and the expense of maintaining diversion structures has encouraged the utilization of groundwater. A resolution of the board of directors changed the District's name from "Franklin Irrigation District" to "Duncan Valley Irrigation District" however, the County Board of Supervisors has failed to legalize the proposed name change.

## GILA VALLEY IRRIGATION DISTRICT

### PERSONNEL

President: Dennis Layton  
DISTRICT OFFICE  
207 5th Street  
Safford, AZ 85546

Manager: Darwin Weech  
(520) 428-4189

Legal Counsel: Mark S. Bryce  
605 Main Street  
Safford, AZ 85546  
(520) 428-1800

The District is governed by a nine-member board of directors, elected on a one-vote-per-acre basis. The district employs a manager and secretarial staff.

### WATER RIGHTS AND SOURCES

Both surface and groundwater are utilized for irrigation within the District. Surface water rights are authorized through the Gila River Decree (U.S. District Court, 1935). Wells within the District are privately owned.

### FACILITIES AND WORKS

The District owns consolidated distribution facilities and several concrete dams. Montezuma and Consolidated Brown Canals are lined and a portion of the Union Canal is underground. Several of the ten canal companies operate wells.

### WATER DELIVERIES

Surface water is allocated to the canal companies by the Gila Water Commissioner in accordance with the Gila River Decree of 1935. In 1989, the canal companies received a total of 117,705 acre-feet of water for 32,512.4 decreed acres (Gila Water Commission, 1983). The water master of each canal company distributes the water to farmers' ditches. Some domestic service is provided.

Generally, the entire 32,512.4 acres within the District boundaries is cropped and irrigated. Grains and cotton are the main crops grown within the District.

Approximately \$8.00 per acre is assessed for District administrative and legal costs. Each canal company charges from \$15.00 to \$60.00 per acre for water distribution and system maintenance.

### ORGANIZATIONAL HISTORY

The District was organized in 1923, primarily as a legal entity to protect the water rights of eleven canal companies operating in the Safford Valley. These canal companies have priority dates ranging from 1872 to 1926 with respect to surface water diversions from the Gila River.

## HARQUAHALA VALLEY IRRIGATION DISTRICT

### PERSONNEL

President: W.T. Gladden  
DISTRICT OFFICE  
402 S. Harquahala Valley Road  
Tonopah, AZ. 85354  
(520) 372-4791

Assistant Manager: Rick Warren

Secretary: Russell Stephens

Members: Stephen Pavich, Donald Wiechens & Steve Martori

The five persons on the board of directors are elected on a one-vote-per-owned acre. The District has an average of six employees.

### WATER RIGHTS AND SOURCES

The land within the District is irrigated with groundwater and Central Arizona Project (CAP) water.

### FACILITIES AND WORKS

The District's distribution system for CAP water is complete. All irrigation canals and laterals are concrete lined, consisting of a link canal-CAP turnout to the District, three main canals with laterals canals from each to supply individual farms. The District's system has a design capacity of 400 cubic feet per second (cfs). The District headquarters and office are complete and equipped.

### WATER DELIVERIES

The District has been delivering CAP water since 1984, beginning with limited delivery until the system was complete. The District delivered 112,900 acre-feet of CAP water to District land owners in 1989. The District can irrigate totally with CAP water for the majority of the year and the individually owned wells of the farmers can be used to meet the peak summertime demands. There are 33,500 acres of active crop land in the District. Cotton is the predominant crop (average 12,000 acres). Other crops include jojoba, grapes, wheat, alfalfa, vegetables and fruits.

### ORGANIZATIONAL HISTORY

The first irrigation wells in Harquahala Valley were drilled about 1958. Development proceeded rapidly and by 1963, 33,000 acres were cultivated and irrigated (Gookin and Associates, 1969). The District was organized in 1964 to permit unified action in the application for Central Arizona Project water and in the solution of common problems such as flood hazard.

In June 1981, the water basin in which the District is located was designed as an Irrigation Non-Expansion Area. (See "Arizona Groundwater Manager Act of 1980").

## HILLANDER "C" IRRIGATION DISTRICT

### PERSONNEL

President:	Harold Ormsby Route 1, Box 20M Somerton, AZ 85350 (520) 627-8531
Secretary:	Michael Weatherwax 790 S. Gila Street Yuma, AZ 85364
Public Accountants:	Eddie Loo Loo & Gray 680 West Eighth Street Yuma, AZ 85364 (520) 782-9831
Legal Counsel & Public Inquiries:	John Plante P.O. Box 2979 Yuma, AZ 85366-2979 (520) 782-7895

Three persons serve on the Board of Directors. The District has no employees.

### WATER RIGHTS AND SOURCES

Groundwater is the source of supply for the District.

### FACILITIES AND WORKS

The District owns no wells or distribution infrastructure. Ten private wells and the United States Bureau of Reclamation (USBR) furnish water to irrigators within District boundaries. The USBR's source is groundwater pumping from the five mile zone established in minute 242 of the Mexican Treaty.

### WATER DELIVERIES

Private wells in the area serve 2,400 acres. Actual pumpage volume is not known.

### ORGANIZATIONAL HISTORY

When formed in 1967, the District included 2,960 irrigable acres. It was later expanded to 3,760 acres. District lands lie south of Yuma within 1.5 miles of the Arizona-Sonora border.

### ASSESSMENTS

The District is active and assesses land-owners through the Yuma County Assessor's Office.

## HOHOKAM IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: B. Doug Gladden  
8133 W. Highway 287  
Casa Grande, AZ 85222

District Office: 142 South Arizona Boulevard  
Coolidge, AZ  
(520) 723-7751

Vice President: Wilbur H. Wuertz  
Manager: Jack C. Long  
Secretary: Bruce Bartlett  
Member: David Wuertz & Jack K. Henness  
Clerk: Marvena Shoaf & Mark Benedetto  
Water Operations: Leon Yates & Manual Villarreal  
Legal Counsel: Martinez & Curtis, P.C.  
2712 North 7th Street  
Phoenix, AZ 85006-1003

District members are elected on a one person, one vote basis.

### WATER RIGHTS AND SOURCES

Irrigation water in the District is planned to be supplied by private wells and Central Arizona Project (CAP) deliveries, with no groundwater being delivered through the District's distribution system. The District's original CAP water allocation was set at 6.36% of the available non-Indian supply.

### FACILITIES AND WORKS

The District is currently operating its main canal which is approximately 15 miles in length and has approximately 70 miles of open concrete lined laterals and pressure pipelines.

### WATER DELIVERIES

There are, at present, approximately 27,000 acres included in the District, most of which have a recent history of irrigation. The predominant crops grown within the District are cotton, followed by grain, alfalfa and an increasing amount of melons. In 1995, 101,415 acre-feet of water was delivered to district lands.

### ORGANIZATIONAL HISTORY

The Hohokam Irrigation and Drainage District was formed in 1972 to contract for the construction, operation and maintenance of a distribution system to deliver Central Arizona Project water to agricultural interests in the area. The original intent was to enlarge and rehabilitate the water distribution historically operated and maintained by the San Carlos Irrigation and Drainage District (SCIDD), but this plan was abandoned after negotiations with the SCIDD failed.

## LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: Dick Hileman

Manager: William Madigan  
1795 Civic Center Boulevard  
Lake Havasu City, AZ 86403  
(520) 453-4147

Legal Counsel: Maureen George  
2360 McCulloch Boulevard  
Lake Havasu City, AZ 86403

There are seven members on the Board of Directors. Electors are required to 1) own land within the District, 2) reside in Mohave County for six months, and 3) register with the Lake Havasu Irrigation and Drainage District. Thirty-two individuals are employed by the District, and the District is charged some administrative overhead fees by Lake Havasu City.

### WATER RIGHTS AND SOURCES

Lake Havasu Irrigation and Drainage District has a contract with the Secretary of the Interior for 19,180 acre-feet per year of Colorado River water. At present the District pumps its Colorado River allocation from wells and a lake intake.

### FACILITIES AND WORKS

The municipal water system is owned and operated by the District. There are 14 District-owned wells in service, 18.96 million gallons of storage capacity and 434.5 miles of water line.

### WATER DELIVERIES

Domestic and irrigation water is provided by the District with a portion of the irrigation water obtained from two sewage treatment plants which are owned by the Lake Havasu Sanitary District. No farming is found within the District, only yards and a golf course are irrigated.

Approximately 12,000 connections are served. The basic assessment for Fiscal Year 1995 was 282.16 per acre, with minimum assessment based on one-half acre increments. Domestic and industrial water delivery charges range from 50 cents per 100 cubic feet to 66 cents per 100 cubic feet based on the size of the delivery and the monthly meter charge.

### ORGANIZATIONAL HISTORY

The District, composed of some 19,450 acres, is encompassed by Lake Havasu City on the Colorado River. In 1963, the District was organized as a legal entity for the Lake Havasu City development.

## MARICOPA-STANFIELD IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: Dennis C. Nowlin  
205 Date Drive  
Casa Grande, AZ 85222  
(520) 424-3344

Manager: Grant R. Ward  
(520) 424-3344

Secretary: Dan Walker  
P.O. Box 474  
Stanfield, AZ 85272  
(520) 424-3344

General Counsel: Paul R. Orme, P.C.  
HC-63 Box 3042  
Mayer, AZ 86333  
(520) 465-0445

Maricopa-Stanfield Irrigation & Drainage District has 34 full-time employees. There are nine directors on the board elected on a share vote basis.

### WATER RIGHTS AND SOURCES

Central Arizona Project water is the main source of surface water for the District. Irrigation wells acquired from District growers serve as the source of groundwater for the District.

### FACILITIES AND WORKS

The District received its CAP water through one aqueduct turnout and operates 75 miles of main conveyance canals, 136 miles of lateral canals and pipelines, 186 farm turnouts and 396 irrigation wells. Construction of all federally funded CAP facilities in the District was completed in 1989. The Santa Rosa Canal, operated by the District, is currently used jointly by the District with the Central Arizona Irrigation District and the AK-Chin Indian Community. The District's annual water requirements range between 250,000 and 300,000 acre feet with 1995 water deliveries totaling 281,047 acre-feet. The greater District area encompasses approximately 148,000 acres with 87,000 acres of irrigable land receiving water service from the District. In 1995, the District delivered water to approximately 66,000 acres. Cotton, small grains, pecans, grapes and specialty crops are grown within the District. A property tax of \$37.68 per acre was being levied on District lands for the 1995 tax year (July 1, 1995 - June 30, 1996).

### ORGANIZATIONAL HISTORY

The District was organized in July 1962 to obtain supplemental water from the Central Arizona Project. Maricopa Irrigation District was dissolved upon the new District's inception.

## MARICOPA WATER DISTRICT

### PERSONNEL

President: Thomas W. Ryan  
P.O. Box 900  
Waddell, AZ 85355-0900  
(520) 546-8266

Vice President: Robert W. Moore

General Manager: James R. Sweeney

Maricopa Water District (MWD) provides water and power service to approximately 40,000 acres. MWD's service area is divided into three electoral divisions and governed by a five-member Board of Directors, each of which serves a three-year term. Three of the Directors are elected every third year by each division and two are elected at large. Rules, regulations and rates are adopted by the Board of Directors annually.

### ORGANIZATIONAL HISTORY

Formally organized in 1925, as Maricopa County Municipal Water Conservation District Number One, MWD is an irrigation and water conservation district, a municipal corporation and a political subdivision of the State of Arizona.

Renowned as the only privately financed reclamation project of its kind, MWD's historical development dates back to the mid-1880's. Under the direction of its predecessor, the Agua Fria Water and Land Company, and spearheaded by William Beardsley, the Waddell Dam Project began. The vision, later to become a reality, was to bring water to the Northwest Valley to develop otherwise arid lands and create development agricultural opportunities. In 1888 water appropriations to the full normal flow and sub-flow of the Agua Fria River and its tributaries were filed and construction site for the Project was selected. Four decades later, after surviving a devastating flood, a national depression and other nearly insurmountable obstacles, MWD's construction of Waddell Dam and other related facilities was completed in 1927.

Waddell Dam was designed by the Oklahoma firm of Peckham and James, under the capable guidance of engineer, Carl Pleasant. At the time, the design of the multiple arch dam represented innovative engineering and the dam had the distinction of being the highest multiple arch structure in the world, rising 250 feet above bedrock. In recognition of the dynamic leadership necessary for financial stability of the Project, Waddell Dam was named after Donald W. Waddell, from the New York City investment firm of Brandon, Gordon and Waddell. It was Waddell who secured the initial and critical \$3.325 million bonds to finance the construction of the dam and related facilities.

For over 65 years, MWD, owned and operated Waddell Dam, which created MWD's main storage reservoir of 157,600 acre foot capacity, known as Lake Pleasant. MWD also owned and operated Camp Dyer Diversion Dam, which created MWD's regulatory reservoir known as Hank Raymond Lake; the Beardsley Canal, a 33-mile water transportation system extending 33 miles from Lake Pleasant to MWD's service area; 100 miles of laterals and sublaterals throughout the service area; and other water and power facilities.

In 1992, the United States Bureau of Reclamation constructed New Waddell Dam, a short distance downstream of MWD's Waddell Dam, greatly increasing the capacity of Lake Pleasant with its additional storage of Central Arizona Project water. By agreement, MWD continues its rights to 157,600 acre-feet of storage capacity in the enlarged Lake Pleasant, as well as ownership of its other facilities. In addition, MWD operates the River Outlet Works of New Waddell Dam and today, provides water and power service to its Shareholders and other customers as it has done since the 1920's.

## McMICKEN IRRIGATION DISTRICT

### PERSONNEL

President: Leyton Woolf  
8805 N. Reems Road  
Waddell, AZ 85355  
935-5887

Manager/Secretary: R.D. Justice  
14629 W. Peoria Avenue  
Waddell, AZ 85355  
935-6253

Legal Counsel: Sheryl A. Taylor  
Ryley, Carlock & Applewhite  
101 N. First Avenue, Suite 2600  
Phoenix, AZ 85003  
258-7701

The District has a nine member board of directors. At present, the directors are elected on a one-vote-per-landowner basis.

### WATER RIGHTS AND SOURCES

The District does not supply water for irrigation purposes. Landowners within the District pump groundwater from privately owned wells to supply their irrigation needs. Pumping in the area purportedly began in the early 1900s.

The District has subcontracted with the United States and Central Arizona Water Conservation District for Municipal and Industrial (M&I) water service from the Central Arizona Project (CAP). Pursuant to the subcontract, the District is entitled to take maximum of 9,513 acre feet of M&I CAP water per year.

### FACILITIES AND WORKS

There are no consolidated facilities or works. All ditches and wells are privately owned.

### WATER DELIVERIES

In 1997, there were approximately 26,200 irrigated acres within the District. Annual pumpage by District landowners, based on an average of 5 acre-feet per acre actually irrigated, historically amounted to approximately 131,000 acre-feet per year (Gookin and Associates, 1983). The District does not plan to construct or operate a distribution system for its M&I CAP water. The District intends to sell its CAP supply to the cities, towns and private water companies located within the District's boundaries. M&I water service to District lands will be provided by the appropriate city, town or private water company. A tax rate of \$2.91 per acre is levied on District lands.

## ORGANIZATIONAL HISTORY

The District is located approximately 15 miles northwest of Phoenix. In 1964, farmers in the area organized the District for the purpose of solving common problems such as flood hazards and water supply, including contracting for any water that might become available to the District from the Central Arizona Project.

Development in the area first began in the early 1900s and was accomplished by individual landowners who drilled their own wells. In 1971, there were 43,771.84 acres within the District (Gookin & Associates, 1974). Of this acreage, 2,650 acres were reportedly in subdivisions or residential use. Of the remaining 41,121.84 acres, all have a history of irrigation, although 9,856 acres of land were reportedly idle at that time. Generally, cotton, barley, vegetables and citrus are the predominant crops within the District.

The following are water companies which may have service areas encompassed by or overlapping with District lands:

Adaman Mutual	Utilities, Inc.	New River Water Co.
Agua Fria Water Co.	Dysart Water Co.	Rose Valley Water Co.
Balley, Joe T. and Sons	El Mirage	Sun City Water Co.
Clearwater Co.	Lake Pleasant Water Co., Inc.	Tierra Buena Water Co.
Consolidated Water	Litchfield Park Service Co.	

## McMULLEN VALLEY WATER CONSERVATION DISTRICT

### PERSONNEL

President: Mary E. Urrea  
P.O. Box 70  
Salome, AZ 85357

Manager: None

Secretary: Frank Ales  
(520) 261-8812

Legal Counsel: Jay I. Moyes  
Meyer, Hendricks, Bivens & Moyes, P.L.C.  
3003 North Central Avenue  
Phoenix, AZ 85012  
604-2200

### WATER RIGHTS AND SOURCES

Groundwater is the supply for all irrigation in the District.

### FACILITIES AND WORKS

The District does not own any facilities and a consolidated distribution system does not exist. All wells and ditches are privately owned.

### WATER DELIVERIES

The outer boundary of the District encloses about 56,000 acres. A maximum of 14,000 acres have been cultivated (1972). Central water facilities are not in operation, and groundwater pumping amounts are not directly known. U.S. Geological Survey Publications indicate a maximum pumping amount of 144,000 acre-feet during 1981 in the entire basin which includes more irrigated land than just this district. More recent pumping estimates in the basin are at an amount of less than 80,000 acre-feet.

### ORGANIZATIONAL HISTORY

This District was formed to apply and contract for water and power from the Colorado River. Contracts for Hoover power and energy were completed in the early 1980's, and delivery of preference power began on June 1, 1987.

## MOHAVE VALLEY IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President:	Joe Hancock (520) 768-3530	Board Member:	John Vanderslice
General Manager:	Robert Johnson P.O. Box 5813 Mohave Valley, AZ 86440 (520) 768-4942	Legal Counsel:	Terrence Leek Leek & Perry, P.C. 126 N. Marna Prescott, AZ 86301

The three member board of directors is elected on the basis of one-vote-per-landowner. The District employs one person to monitor water usage and record information for reporting to the Bureau of Reclamation.

### WATER RIGHTS AND SOURCES

The Colorado River is the District's source of water. Pumped groundwater is considered river water; the water table averages 8 to 20 feet below the land surface. In the 1960's, the Secretary of the Interior allotted District lands 51,000 acre-feet of Colorado River water in perpetuity, of which 10,000 acre-feet has been made available for lands north of the District by contract to Bullhead City and the Mohave water Conservation District. Indian land is interspersed throughout the southern half of the District.

### FACILITIES AND WORKS

Irrigators within the District own and operate their private pumps and distribution systems.

### WATER DELIVERIES

The District does not deliver water; irrigators pump their own and pay only a per-acre tax to the County, which is passed onto the district for administration. (In 1990 this tax was \$0.64). Of the 31,531 acres within the District boundaries approximately 3,830 is currently under cultivation.

In 1989, water usage was about 30,581 acre-feet. Principal crops grown were alfalfa (1,200 acres) and cotton (1,000 acres), with other hay, wheat and oats combining for 430 acres.

The District does not deliver domestic water, however, there are six franchised water companies which operate within District boundaries, and the District is responsible for reporting their use to the Bureau of Reclamation. Municipal and industrial uses totaled 5,139 acre-feet in 1989. The Bureau charges \$0.25 an acre-foot for domestic water.

### ORGANIZATIONAL HISTORY

The District was formed in 1963 and the contract for Colorado River water with the Secretary of Interior was written in 1968.

## MOHAVE WATER CONSERVATION DISTRICT

### PERSONNEL

President: Thomas Griffin  
P.O. Box 2419  
Bullhead City, AZ 86430  
(520) 754-2555

Legal Counsel: Gurtler, Kelley & Moyer  
2031 Highway 95  
P. O. Box 20189  
Bullhead City, AZ 86439-0189

### WATER RIGHTS AND SOURCES

Well extraction of Colorado River water based on contract entitlements from the Bureau of Reclamation.

### FACILITIES AND WORKS

The district has no facilities or works. The eight wells in the area are owned by domestic water companies. The domestic distribution system in the area is also owned by the water companies.

### WATER DELIVERIES

The district does not deliver water. Citizens Utilities, North Mohave Water Company and Thumb Butte Water Company distribute domestic water in the area to approximately 800 customers.

### ORGANIZATIONAL HISTORY

The district, lying north and east of Bullhead City proper, includes six or seven sections checker-boarded from the North and East of the Bullhead/Laughlin Airport. It was formed in March 1975 to contract with the Secretary of the Interior for water from the River and has obtained a contract with the Secretary of the Interior for approximately 1,800 acre-feet.

## NEW MAGMA IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: Robert Barcello

Manager: Timothy S. Phillips  
34630 N. Schnepf Road  
Queen Creek, AZ 85242

Secretary: William D. Baker

Legal Counsel: William D. Baker  
Ellis Baker and Porter, P.C.  
P.O. Box 16450  
Phoenix, AZ 85011  
956-8878

There are seven members on the Board of Directors of New Magma Irrigation and Drainage District, elected on an acreage system of voting. The District has 8 employees.

### WATER RIGHTS AND SOURCES

The District is dependent upon groundwater pumpage and Central Arizona Project water for irrigation.

### FACILITIES AND WORKS

The District owns no wells. In 1969 there were 103 private wells within District boundaries. The District has built a distribution system to deliver CAP water.

### WATER DELIVERIES

Water used within the District is a combination of groundwater and CAP water. Approximately 40,000 - 50,000 acre-feet of CAP water is used.

Groundwater used within the District is privately pumped. The District is comprised of 26,900 acres. The most recent figure (1969 with respect to groundwater shows pumpage at 86,000 acre-feet per year. A property tax of 21.81 per acre is levied by the District.

### ORGANIZATIONAL HISTORY

New Magma Irrigation District was formed in 1965 upon the dissolution of the Magma Irrigation District which was created in 1945 and included 4,320 acres. The new District was formed for the purpose of receiving Central Arizona Project water.

Although the District contains over 26,900 acres, only 15,000 acres were cropped in 1969. Further, 29,676 acres are considered "tillable". Approximately 27,000 acres were assessed in 1990.

## NEW STATE IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President:	L.B. Brogdon	Secretary:	Don E. Smith P.O. Box 52025 Phx., AZ 85072-2025
Legal Counsel:	SRP Legal Counsel		

The board of Directors has three members and the District's only paid employee is the secretary.

### WATER RIGHTS AND SOURCES

New State lands had water rights adjudicated under the Benson-Allison Decree (Nels Benson v. John Allison et al, Decree No. 7589, Superior Court of Maricopa County, 1917), for 1,711 acres, from the year 1901 to the year 1917, inclusive.

Until 1923, water was available most of the time for New State lands; however, from 1923 to May 22, 1928, New State Canal obtained water from the Salt River Valley Water Users' Association (SRVWUA). A permanent contract with the New State Irrigation and Drainage District obligates the SRVW UA to furnish the District lands with a supply of water equal in quantity to the amount allocated to project land, acre for acre. This water has been supplied from wells and thus, the District has not maintained the river water right.

### FACILITIES AND WORKS

No facilities are owned by the Irrigation District; however, there are some private wells on District lands.

### WATER DELIVERIES

In 1989, 2,327 acres were served with 1,824 acre-feet of water from the SRVW UA. Individual water users within the New State Irrigation and Drainage District are treated like any user in the SRVWUA, with respect to water service. (See Salt River Valley Water Users' Association for water pricing and allocation description). Cotton is the principal crop in the area.

### ORGANIZATIONAL HISTORY

Predecessor of New State Irrigation and Drainage District was the New State Canal Company, formed in January 1914. New State Irrigation and Drainage District was organized in 1924 to enable landowners in the 2,400-acre area to float bonds to improve existing facilities to SRVWUA standards in order to contract for water deliveries. Other terms of contract required the District to pay \$38 per acre in back assessments and \$5 an acre for drainage. The SRVWUA must deliver water to New State lands as long as the Association exists. Landowners of the New State Irrigation and Drainage District have voting privileges in the Salt River Project Agricultural Improvement and Power District but may not participate in the Salt River Valley Water Users' Association voting.

## NORTH GILA VALLEY IRRIGATION DISTRICT

### PERSONNEL

President: James Ferguson  
2260 4th Avenue, Suite 2000  
Yuma, AZ 85364  
(520) 726-5421

Secretary: Janet Pierson  
(520) 783-8321

Legal Counsel: Wade Noble  
Westover, Choules & Shadle, P.C.  
2260 4th Avenue, Suite 2000  
Yuma, AZ 85364  
(520) 726-5421

The three members of the Board of Directors are elected on a one-vote-per-landowner basis. Two persons are employed by the District.

### WATER RIGHTS AND SOURCES

The District receives its water supply from the Colorado River. The basis of the District's water right is a contract with the Secretary of the Interior for a maximum of 150 cubic feet per second (CFS).

### FACILITIES AND WORKS

Diversion from the Colorado River is made on the east side of the Imperial Dam. Water flows through the desalting basin into the Gila Gravity Main Canal. The North Gila Valley Irrigation District obtains water from the canal at Station 409+25.

From 1918 to 1953, the District diverted water from the headgate at the easterly end of Laguna Dam. On May 12, 1953, the District signed a new contract for diversion of water from Imperial Dam (U.S. Bureau of Reclamation, 1965).

The District owns no wells, however, there is one private well within the area.

### WATER DELIVERIES

Approximately 45,000 acre-feet of water were delivered to some 12 farms in the North Gila Irrigation District in 1982 for irrigation of approximately 6,000 acres excluding double-cropped acreage. Crop production in 1982 was as follows: 3,000 acres of lettuce double-cropped with wheat; 2,000 acres of cereals; and 500 acres of fruits and beans.

Landowners are not limited in the amount of water used except for the beneficial use doctrine and the 150 cfs limit specified in the contract with the Secretary of the Interior. Water use averages approximately 5.5 acre-feet per acre. In 1982, the basic assessment for water distribution and debt retirement payment was \$15.00 per acre.

## ORGANIZATIONAL HISTORY

North Gila Irrigation District, also known as the North Gila Unit of Gila Project, includes 6,230 acres in southern Yuma County, north of Yuma extending to the Laguna Dam, between the Colorado River and the Gila Gravity Main Canal. Approximately 6,120 irrigable acres of land are eligible for Colorado River water under the Reauthorization Act of July 30, 1947 (U.S. Bureau of Reclamation, 1965). Water was first delivered there in 1911 as part of the Yuma project.

## QUEEN CREEK IRRIGATION DISTRICT

### PERSONNEL

President: Roy Willis  
399 N. Apache Drive  
Chandler, AZ 85224  
963-3168

Manager: Dean Griffith  
100 S. McQueen  
Chandler, AZ 85225

Secretary &  
Legal Counsel: Vernon Nicholas  
Killian, Nicholas, Fischer, Wirken, Cook & Pew  
40 North Center  
Mesa, AZ 85201  
461-4600

Public Inquiries: Dean Griffith  
P.O. Box 690  
Queen Creek, AZ 85242  
987-3192

The three-member board of directors is elected on a one-vote-per-landowner basis. There are two full time employees.

### WATER RIGHTS AND SOURCES

Groundwater and CAP water provide the irrigation supply in the District.

### FACILITIES AND WORKS

The District owns 6 acres, an office building and plans to build a shop and equipment yard in the near future. The District Distribution system was completed in August 1989 and is now delivering CAP water to all eligible land in the District.

### WATER DELIVERIES

In 1990 the District had 20,648 irrigation acres. The District levied a tax of \$20.00 per acre in 1996.

### ORGANIZATIONAL HISTORY

The District, located in southeastern Maricopa County, was organized in 1923. Its purpose was to obtain electrical power to operate pumps, which it continues to do through contract with the Salt River Project. Potatoes, cotton, grapes and citrus are the primary crops in the area.

## ROOSEVELT IRRIGATION DISTRICT

### PERSONNEL

President: W. Bruce Heiden

Superintendent: Stan Ashby  
103 West Baseline Road  
Buckeye, AZ 85326  
(520) 386-2046

Legal Counsel: Burch & Cracchiolo, P.A.  
702 East Osborn Road  
P.O. Box 16882  
Phoenix, AZ 85011  
274-7611

### WATER RIGHTS AND SOURCES

The District water supply is derived entirely from groundwater. The right of the District to pump groundwater from the lands of the Salt River Project in the Tolleson area is covered by contract with the Salt River Valley Water Users' Association.

### FACILITIES AND WORKS

The District is served by 50 miles of main canals and 136 miles of laterals, mostly concrete-lined. The collector canals in the Tolleson area are connected to the District main canal by a 108 inch diameter inverted syphon under the Agua Fria River.

Water is pumped from 104 operating wells, of which 54 are located in the Tolleson or Salt River Project area and 50 are located in the District.

### WATER DELIVERIES

The total acreage in the District is slightly more than 38,000 acres, of which approximately 34,800 acres comprise the net irrigable acreage. During any specific year, between 32,000 and 35,000 acres are cropped.

Orders for water are filled under a pro-rated allotment system during the April-September period, at a maximum delivery rate of 1/3 acre-foot each 20 days; during other periods, no limitation is in effect. Water is priced \$28.00 per acre-foot. Water is measured at the farm headgate by means of the Clausen weir rule.

Quantity of water delivered to District farms varies considerably from year to year. In 1989, 123,000 acre-feet were delivered from all sources.

### ORGANIZATIONAL HISTORY

In August 1921, a contract was executed between the Salt River Valley Water Users' Association (SRVWUA) and the Carrick and Mangham Agua Fria Land and Irrigation Company. The latter company agreed to pump not less than 70,000 acre-feet per year of groundwater from an area northeast of Tolleson in the Salt River Project, for the purpose of dewatering lands in that area where waterlogging had become a problem.

In 1923, the Roosevelt Irrigation District was formed, and all the provisions of the Carrick and Mangham contract were assigned to the new District. In February 1927, the contract was modified and amplified by a supplemental contract between the District and SRVWUA. The agreement remains in effect and the District continues to pump water from the Tolleson collection system.

## ROOSEVELT WATER CONSERVATION DISTRICT

### PERSONNEL

President and Board of  
Directors, 1995:  
Secretary:

Mark W. Dobson  
Norman L. Knox

General Manager:

Michael O. Leonard  
P.O. Box 100  
Higley, AZ 85236-0100  
(520) 988-9586

Legal Counsel:

Richard N. Morrison  
Jennings, Strouss & Salmon, P.L.C.  
One Renaissance Square  
Two North Central Avenue  
Phoenix, AZ 85004-2393

Michael J. Brophy  
Ryley, Carlock & Applewhite  
101 N. First Ave., Suite 2700  
Phoenix, AZ 85003-1973

### WATER RIGHTS AND SOURCES

The District obtains approximately 30 percent of this water supply by diversion from the Salt-Verde River system. The basis of the surface water right is an October 1924 agreement between Salt River Valley Water Users' Association (SRVWUA) and the Roosevelt Water Conservation District, updated by a stipulation in Cause No. 32021-C by the Superior Court in Maricopa County, dated September 19, 1940. The agreement stipulated that the SRVWUA would credit the District with 5.6 percent of all water diverted at Granite Reef Dam for irrigation use by the SRVWUA. About 70 percent of the District water supply is pumped groundwater.

### FACILITIES AND WORKS

The principal District works consist of the main pumping plant in the northern end of the District, the District's Main Canal, which is about 21 miles in length, and the Eastern Canal Extension, which is about 6 miles in length. There are approximately 120 miles of laterals, 40 miles of pipeline, and 60 operating wells.

### WATER DELIVERIES

Water deliveries are made to virtually all the net irrigable acres in the District. In 1989, the gross irrigable area was 39,415 acres. Out of the 39,415 gross acres, 36,980 acres were available for crop production. In 1989, water was delivered to approximately 32,000 acres.

Around 2,000 water accounts are active in the District. Water is apportioned to these units on a per-acre basis. The annual amount of water delivered is commonly 3.5 to 4.0 acre-feet per-acre.

Water delivery pricing is at a current rate of \$25.00 per acre-foot. The annual service charge is \$30.00 per active account. Water delivery from the Salt River Project facilities is determined by a computer rated Parshall flume measurement. Farm deliveries are measured by the Clausen weir rule and Hall flowmeter. During the 1985-89 period, average District water production was approximately 125,000 acre-feet per year.

#### ORGANIZATIONAL HISTORY

The Roosevelt Water Conservation District is located on the southeastern boundary of Salt River Project in Maricopa County, and extends from a diversion point northeast of Mesa to the Gila River Indian Reservation southeast of Chandler.

The predecessor of the present District was formed in 1917, when the Auxiliary Eastern Canal Landowner's Association was formed for the purpose of acquiring and utilizing irrigation water obtained through the Salt River Valley Water Users' Association. On September 13, 1920, the Auxiliary Eastern Irrigation District was formed under state statutes, and the name was changed to Roosevelt Water Conservation District in 1924.

## SAN CARLOS IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President:	J. Michael Urton	Legal Counsel:
District Manager:	Douglas D. Mason P.O. Box 218 Coolidge, AZ 85228 (520) 723-5408	Riney B. Salmon II Salmon, Lewis & Weldon 4444 N. 32nd St. #200 Phoenix, AZ 85018
Secretary:	C.R. Skousen	

The nine-member board of directors is elected on the basis of one-vote-per-landowner. Only agricultural landowners may vote.

### WATER RIGHTS AND SOURCES

The San Carlos Irrigation and Drainage District includes the 50,000 acres of private and public lands of the San Carlos Irrigation Project.

Water rights for District lands are in the name of the United States as set forth in Landowners' Agreements with the Secretary of the Interior, San Carlos Project Act of June 7, 1924.

Water sources for the lands include stored water from the San Carlos Reservoir on the Gila River, natural flow of the Gila River, groundwater underlying Project lands and interim Central Arizona Project (CAP) water. The division of water to Project lands is set forth in the Gila River Decree (Globe Equity No. 59, 1935). All lands share equally in all of the available stored and pumped water. Normal flow water is delivered on a priority basis.

### FACILITIES AND WORKS

All facilities and works of the Project are in the name of the United States. These are divided into three parts: Joint Works, Indian Works and District Works. The United States, through the Bureau of Indian Affairs, operates and maintains the Joint Works, which are those that are used jointly by the District and Indian parts of the Project. The Indian Works are those used solely for Indian Lands and the District Works are those used only for District lands.

Waters of the Gila River for lands of the Project are diverted at the Ashurst-Hayden Diversion Dam on the Gila River about ten miles east of Florence.

Repayment of the District's share of the construction costs of the Project is by terms of a Repayment Contract entered into between the District and the United States on June 8, 1931.

### WATER DELIVERIES

Total irrigable area in the District is 50,000 acres. According to 1995 District crop and acreage reports, the net acreage cropped was 37,513 acres. The 13-year average number of acres irrigated during 1983-95 was approximately 32,434 acres.

An apportionment of water is made to the irrigated lands early in each calendar year based upon the amount of stored and pumped water available, at that time, reduced by the anticipated conveyance losses. As additional supply becomes

available during the year the apportionment is increased. Normal flow in the river system is additionally available to lands covered by the priority schedule during each 10-day delivery period.

The District per acre assessment covers repayment of construction cost and cost of operation and maintenance, and entitles each acre to 2.0 acre-feet per acre if available in a given year. This assessment was \$56.00 per acre for 1995. A charge of \$20.00 is made for the third acre-foot and \$20.00 for the fourth and fifth acre-foot, if available. As water orders are placed, delivery requirements are figured at the approximate rate of 5 cubic feet per second (cfs) per order, which is considered to be a normal "head" of water.

The 1936-1995 average quantity of water diverted to the District, from both pumped and gravity systems, was about 153,709 acre-feet per year, and the quantity delivered to the lands was about 101,503 acre-feet or 66 percent of annual diversions.

## ORGANIZATIONAL HISTORY

The Ashurst-Hayden diversion works was authorized by an Act of Congress dated May 18, 1916, known as the Florence-Casa Grande Irrigation Project. The Act also approved the construction of a delivery system to deliver water to works irrigating 35,000 acres of Indian land and 27,000 acres of private land.

The San Carlos Project was authorized by an Act of Congress approved June 7, 1924, commonly called the San Carlos Act. The Act provided, among other things, that Coolidge Dam be constructed, that a District be formed under State law, and that an appropriate repayment contract be executed by the District.

An Act of Congress of March 7, 1928, (45 Stat. 200) authorized development of electric power at Coolidge Dam and authorized the consolidation of the Florence-Casa Grande Project with the San Carlos Project. One hundred thousand acres of land were subsequently designated for inclusion in the Project.

The organization of the San Carlos Irrigation and Drainage District was completed July 16, 1928, under Arizona law providing for the organization of irrigation districts. A Repayment Contract was executed on June 8, 1931, under which the District landowners are obligated to repay to the government, in annual installments, one-half of all Project construction costs.

Conflicts regarding relative water use from the Gila River system in the San Carlos Project area and in the upper valleys (Duncan-Virden and Safford Valleys) were resolved by litigation in U.S. District Court, resulting in the Gila River Decree (Globe Equity No. 59, 1935). The Decree set forth a method of apportionment and a priority schedule of rights in waters of the river, and provided administration of the Decree by a Commissioner. Certain issues regarding disposition of waters from tributary watersheds have remained unresolved.

## SAN TAN IRRIGATION DISTRICT

### PERSONNEL

President: Mark McKay

General Manager: Don Davis  
998-2881

District Office: 17958 E. Chandler Heights Road  
Highley, AZ 85236

Secretary: Glenda Miller  
P.O. Box 8  
Chandler Heights, AZ 85227  
998-3385

Legal Counsel: Michael Curtis  
Martinez & Curtis, P.C.  
2712 N. 7th Street  
Phoenix, Az. 85006-1003

The three members of the board of directors are elected on an average voting basis. The District employs a zanjero and a person to do maintenance.

### WATER RIGHTS AND SOURCES

Water sources include groundwater and Central Arizona Project (CAP) water. The District has signed a contract for CAP water for both municipal and industrial use and agricultural use.

### FACILITIES AND WORKS

The District owns 11 wells, none of which are private. Twenty-six miles of distribution system, totally lined, are owned by the District.

### WATER DELIVERIES

Approximately 10,000 acre-feet of water is delivered to users by the District annually. One hundred percent of the water is used for irrigation. Nearly all of the 3,185 acres within the District is irrigated. The primary crop is citrus, followed by cotton and potatoes.

The water is metered, and users are limited to three acre-feet per acre between April and September. The charge is \$39.00 per acre-foot.

### ORGANIZATIONAL HISTORY

San Tan Irrigation District was organized in 1965. It is located north of the Gila River Indian Reservation approximately 20 miles west of Florence Junction.

## SILVER BELL IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: Werner G. Goering  
District Office  
6632 Los Leones  
Tucson, AZ 85718  
(520) 299-1900

Superintendent: Irvin Church

Secretary: Joyce Richart  
P.O. Box 869  
Arizona City, AZ 85223-0869  
(520) 466-5175

Legal Counsel: G. Lawrence Shubart  
Robert R. Stubbs & Associates  
P.O. Box 50547  
Tucson, AZ 85703  
(520) 623-5466

Directors: Sam Schreiner  
Raymond Farnsworth

There are four elected members on the board of directors, elected on the acreage system of voting.

### WATER RIGHTS AND SOURCES

Groundwater is the sole water source in the area.

### FACILITIES AND WORKS

The District owns two wells and a domestic water distribution system. There is no other consolidated distribution system and all other pumps are privately owned.

### WATER DELIVERIES

Data is not available on private pumping volumes. However, a domestic water distribution system provides water to certain lands within the District.

### ORGANIZATIONAL HISTORY

Silver Bell Irrigation and Drainage District was organized in December 1969 for the purpose of contracting for Central Arizona Project water. However, the District was not included in the Secretary of Interior's allocation of CAP water (January 1983). The District includes some 2,200 acres of land with a recent history of irrigation. Between 1975 and 1980 an average of 1,400 acres were irrigated.

**SNOWFLAKE IRRIGATION DISTRICT**  
(FORMERLY KNOWN AS SHOW LOW-SILVER  
CREEK WATER CONSERVATION AND POWER)

**PERSONNEL**

President: Joe Rencher  
P.O. Box 127  
Snowflake, AZ 85937  
(520) 536-4963

Manager: Vacant

Three persons serve on the board of directors, elected on an acreage voting basis. The District has one part-time employee in addition to the manager.

**WATER RIGHTS AND SOURCES**

The District is dependent upon surface water from Show Low Creek and flood waters, and a spring forming what is locally called White Mountain Lake. Water rights to this surface water source date from the 1880's. Groundwater supplements the surface water source.

**FACILITIES AND WORKS**

The District owns and operates Daggs Reservoir (damming the spring and flood waters) and Lone Pine Dam (previously condemned) on Show Low Creek. Five wells are District owned, whereas there are many privately owned wells within District boundaries. An underground pipeline from Little Mormon Lake has greatly increased the District's storage capacity.

**WATER DELIVERIES**

Approximately 2,500 acres are irrigated with water delivered by the District. Distribution is on twelve-day rotation basis with the available volume apportioned per acre. The water is measured by weir.

The price of the water depends upon actual District operating costs, which in 1983 came to \$30.00 per acre.

Gardening, pasture, alfalfa, corn and some small grains represent the crops for which the bulk of the water is used. There are no domestic users.

**ORGANIZATIONAL HISTORY**

The District is located about 30 miles south of Holbrook and contains approximately 3,000 acres including the communities of Snowflake, Taylor and Shumway. Irrigation began in the Snowflake and Taylor Valleys around 1882 with diversions from Silver Creek by the Snowflake-Taylor Irrigation Company.

## ST. DAVID IRRIGATION DISTRICT

### PERSONNEL

President: Dean Goodman  
(520) 720-4794

Secretary: Jeanie Hardwick  
P.O. Box 463  
St. David, AZ 85630  
(520) 720-4736 & 720-4460

The District is managed by a three-member board of directors elected on an acreage voting basis. A ditch rider is employed part-time as is the secretary.

### WATER RIGHTS AND SOURCES

Lands are irrigated with water from the San Pedro River, supplemented by groundwater pumpage during dryer periods.

### FACILITIES AND WORKS

The District owns and maintains two wells and an earthen dam seven miles south of St. David on the San Pedro River. The main ditch is owned by the District.

### WATER DELIVERIES

Irrigation water is delivered to some 1,600 acres per year. Fescue, alfalfa, permanent pasture and small quantities of corn and grain are the major crops. Irrigators receive water on an average of once every two weeks, each acre allotted one hour of whatever volume flows down the ditch. A basic assessment (\$32.00 in 1995) is made each year to pay distribution costs. Pump water is also delivered by the hour at \$4.00 (1995) per hour. There are private wells within the District.

### ORGANIZATIONAL HISTORY

The District is located in west central Cochise County along the east bank of the San Pedro River. It was organized in 1883 with an appropriation history prior to 1880.

## ST. JOHNS IRRIGATION DISTRICT

### PERSONNEL

President: William L. Amator  
6242 S. 115th Avenue  
Tolleson, AZ 85353

Secretary: Paula D. Amator  
11622 W. Southern  
Tolleson, AZ 85353

Three persons serve on the Board of Directors. In addition, one full-time zanjero is employed and one part-time secretary.

### WATER RIGHTS AND SOURCES

St. Johns' lands have river water rights adjudicated under the Benson-Allison Decree for 999 miner's inches. This right dates back to 1885, making it one of the older rights in the Salt River Valley. At the time of the creation of this right, the District obtained its irrigation water from the flow of the river. Due to the erection of storage dams by the Salt River Valley Water Users' Association (SRVWUA), which resulted in the loss of water delivery to St. Johns, an agreement was entered into on March 3, 1924, whereby SRVWUA agreed to deliver 600 miner's inches of water to the District for the flat sum of \$2,000 per year. The 600 inch flow proved not to be an adequate supply of water for the District during the summer months, and in March, 1929, another agreement was entered into by the Association and the District to purchase additional water to be paid for by the acre-foot. Since the demand for water continued to increase, the District drilled their own well in 1949, thereby freeing them from using the higher priced water of the second contract. In March, 1955 the District and the Association entered into a supplemental agreement to the 1924 agreement for 9,400 acre-feet of water per year for the flat sum of \$2,000. The District well supplements this source.

### FACILITIES AND WORKS

The District owns and operates one well. The water supplied is distributed through lined ditches.

### WATER DELIVERIES

Two thousand acres are served by the District. Approximately five acre-feet of water per acre is delivered at a cost of \$28.75 (1988 fiscal year) per acre of land annually. Farmers receive a normal head for one hour per acre every 14 days during the growing season, as the supply permits.

### ORGANIZATIONAL HISTORY

St. Johns Irrigation District was originally known as the St. John's Canal Co. in 1887 when several individuals appropriated right-of-ways for a canal heading and ditches. In 1921, St. Johns Canal Company was re-organized under State laws as the St. Johns Irrigation District.

## TONOPAHA IRRIGATION DISTRICT

### PERSONNEL

President: Charles Ditsch  
(520) 386-4066

Administrator: Elizabeth Story  
P.O. Box 159  
Tonopah, AZ 85354

Legal Counsel: Jay I. Moyes  
Meyer, Hendricks, Bivens & Moyes, P.L.C.  
3003 North Central Avenue  
Phoenix, AZ 85012  
604-2200

The three directors on the board are elected on the acreage system of voting.

### WATER RIGHTS AND SOURCES

The Tonopah Irrigation District receives CAP water and delivers it to farms for irrigation. Individual farms own wells which are also used for irrigation.

### FACILITIES AND WORKS

The District owns canals which are used to distribute CAP water to farms within the District.

### ORGANIZATIONAL HISTORY

The District, located approximately 40 miles west of Phoenix, was formed in 1977 to apply for Central Arizona Project water. Its exterior boundaries encompass over 4,000 acres of land, approximately 3,500 of which is District land. Major crops in the area are cotton and alfalfa.

## UNIT B IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: Dave Crist  
Route 1, Box 31M  
Somerton, AZ 85350

Manager: Pat Morgan  
(520) 627-8891

Secretary: Pat Kahlen  
(520) 627-8891

Legal Counsel: Larry Suci  
1763 W. 24th Street  
Suite 200  
Yuma, AZ 85364  
(520) 726-6892

Three persons serve on the board of directors. To become a director, a landowner must own an acre. The voting system is that of one-vote-per-landowner. Seven persons are employed by the District.

### WATER RIGHTS AND SOURCES

The source of water is the Colorado River by contract with the Secretary of the Interior. The District has a contract for 100 cubic feet per second (cfs) of flow.

### FACILITIES AND WORKS

The Water supply for the District is diverted at Imperial Dam. The water is delivered in the Gila Gravity Main Canal to a lift unit east of Yuma where it is pumped to the mesa. From there it flows to the District in the "A" Canal. The distribution system within the District is lined. The District was originally served from the East Main Canal of the Yuma Project by a 72-foot pump lift. In 1953, the source of water supply was changed to the Gila Project. There are private domestic wells in the District, and one private irrigation well.

### WATER DELIVERIES

Of the 3,406 irrigable acres in the District, (this includes some Warren Act lands) 3,301 acres were irrigated in 1982. Approximately 27,089 acre-feet of water were delivered to farms and a 30 acre subdivision. In 1982 citrus covered 1,100 acres, alfalfa in 1,040 acres, cotton in 203 acres and the remaining acreage in various crops or lying fallow.

Irrigators order water several days ahead and the zanjero allocates the flow on the basis of the orders and crop requirements. Each landowner, in 1982, was charged a basic fee for 60 acre-feet at \$10.50 an acre-foot in addition to the repayment assessment of \$8.67. The next four acre-feet were optional and cost \$11.50 per acre-foot.

## ORGANIZATIONAL HISTORY

Unit B Irrigation and Drainage District, known as the Yuma Auxiliary Unit of the Gila Project, lies about eight miles south of Yuma and includes mesa land lying between the flood plain of the Colorado River and the Yuma Mesa Irrigation and Drainage District.

The District was organized April 29, 1947, with 3,276 acres having water rights. Prior to 1947 the project was operated by the Bureau of Reclamation. The area was included in the plans for the Yuma Project of 1911, but construction of the delivery facilities was halted until 1917 when Units A, B, C and D of the Yuma Auxiliary Project were authorized. Owing to fund limitation, Unit B was the one developed.

## WELLTON-MOHAWK IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: James McCollough

Manager-Secretary: C.L. Gould  
30570 Wellton-Mohawk Drive  
Wellton, AZ 85356  
(520) 785-3351

Legal Counsel: Wade Noble  
Westover, Choules & Shadle, P.C.  
2260 4th Avenue, Suite 2000  
Yuma, AZ 85364  
(520) 783-8321

Nine persons serve on the board of directors. To be elected, a landowner must own a minimum of ten acres. Voting is based on the one-vote-per-landowner system. Approximately 120 persons are employed by the District in the water and power divisions.

### WATER RIGHTS AND SOURCES

The Colorado River is the source of irrigation water for the District; water is diverted at Imperial Dam and conveyed eastward to the District. Water allocation is based on contracts with the Secretary of the Interior.

### FACILITIES AND WORKS

From the main diversion point at Imperial Dam, water is conveyed to the District via the Gila Gravity Main and Wellton-Mohawk Canals, then the water is delivered to the western part of the District by the Dome Canal, the central part of the District by the Wellton Canal, and to the eastern part of the District and its boundary areas by the Texas Hill and Mohawk Canals. Three major pumping plants lift the water to elevations enabling gravity flow to serve all farm areas. The distribution system in total contains about 305 miles of concrete-lined canals and 70 miles of concrete-lined drainage channels.

A system of drainage wells has been installed to pump relatively saline water from the District; the drainage water is discharged through the Main Outlet Drain and its extension to the Colorado River below the U.S.-Mexican border, approximately 55 miles, to the Santa Clara slough. In 1992 the drainage discharge was about 117,902 acre-feet.

### WATER DELIVERIES

According to the 1992 Crop Production Report by the U.S. Bureau of Reclamation, the District includes 62,975 acres classed as irrigable, of which 59,482 acres were in "irrigable area of service". The first four acre-feet per year delivered to each acre is an obligation to the land and is currently priced (1995) at \$51.96 per acre (\$12.99/af); additional increments of water are priced on a progressive scale.

The 1992 supply of water diverted to the District for farm delivery was approximately 377,094 acre-feet, or about 6.34 acre-feet per irrigated acre including losses. Net water after return flow credit was 259,192 acre-feet.

#### ORGANIZATIONAL HISTORY

The Wellton-Mohawk Irrigation and Drainage District occupies the Wellton-Mohawk Division of the Gila Project of the U.S. Bureau of Reclamation. It is located in the valley of the Gila River and extends east-west about 50 miles, the westerly end being a point approximately 15 miles east of Yuma.

The Wellton-Mohawk Division of the Gila Project was authorized by Congress in 1947, and the present Wellton-Mohawk Irrigation and Drainage District was formed March 4, 1952. The District holds a contract with the United States for water supply from the Colorado River.

## WESTERN MEADOWS IRRIGATION DISTRICT

### PERSONNEL

President: Chester Miller  
3923 West Topeka Drive  
Glendale, AZ 85308  
434-5390

Office Manager: Carol Simpkins  
3734 West Topeka Drive  
Glendale, AZ 85308  
582-6124  
Res: 582-5218

Legal Counsel: Brent Welker  
Burch & Cracchiolo, P.A.  
P.O. Box 16882  
Phoenix, AZ 85011  
234-9917

Five persons serve on the board of directors, elected on a one-vote-per-landowner basis.

### WATER RIGHTS AND SOURCES

Groundwater is the supply source.

### FACILITIES AND WORKS

The District owns and operates one well at Yorkshire Drive and 35th Avenue in Phoenix.

### WATER DELIVERIES

District boundaries encompass 279 acres wherein primarily pasture and some lawns are delivered water. The District does not distribute domestic water.

### ORGANIZATIONAL HISTORY

The District is bounded by Union Hills Drive, 35th Avenue, Yorkshire Drive, 41st Avenue, Westcott Drive and 43rd Avenue, Phoenix. Western Meadows Irrigation, Inc. was the District's predecessor, the reorganization occurred in 1977.

## WOODRUFF IRRIGATION DISTRICT

### PERSONNEL

President: Philip Bowler  
Box 26  
Woodruff, AZ 85942  
(520) 524-2778

Secretary: Lorin L. Hatch  
P.O. Box 5  
Woodruff, AZ 85942

Legal Counsel: County Attorney, Dale Patton  
Navajo County Complex Hwy, 77  
Holbrook, AZ 86025

Three persons serve on the board of directors. Voting is undertaken on one-vote-per-acre basis. The District has a part-time water master.

### WATER RIGHTS AND SOURCES

The District has an appropriative right to divert from the Little Colorado River which dates from around 1890. Groundwater supplements the river source.

### FACILITIES AND WORKS

Irrigation water is supplied from a pump in the Little Colorado River and a groundwater well. Thirteen dams have been constructed and lost at various times on the Little Colorado and its tributaries, the latest of which is located on Silver Creek three miles above Woodruff. Plans exist to repair this dam and lay plastic pipe from it to the distribution system. The District is replacing the entire open ditch system with plastic pipe.

### WATER DELIVERIES

Approximately 550 acres of truck crops, pasture, and alfalfa are served irrigation water by the District. No domestic water is provided. Members of the District receive water upon request at a cost of \$2.00 per hour for river water or groundwater. Both river and groundwater pumps have the same output capacity. There are also private wells within the District.

### ORGANIZATIONAL HISTORY

The District, located on the Little Colorado River at Woodruff, was organized in 1922. Preceding it was the Woodruff Irrigation Company which first appropriated water in 1898.

## YUMA IRRIGATION DISTRICT

### PERSONNEL

President: Mark Smith

Manager: Rex Green  
9510 Avenue 7E  
Yuma, AZ 85365  
(520) 726-1047

Secretary: Janet Pierson

Legal Counsel: Wade Noble  
Westover, Choules & Shadle, P.C.  
2260 4th Avenue, Suite 2000  
Yuma, AZ 85364  
(520) 783-8321

The Board of Directors is comprised of three persons elected on a one-vote-per-landowner basis. In addition to the manager, six other employees are engaged as ditch riders, maintenance crew and office manager.

### WATER RIGHTS AND SOURCES

The Colorado River water right of the District is predicated upon a contract with the Secretary of the Interior pursuant to the Reclamation Act of 1902. The Reauthorization Act of July 30, 1947, allotted Colorado River water to the South Gila Valley District for 10,600 irrigable acres. The surface supply is supplemented with groundwater.

### FACILITIES AND WORKS

As part of the "Gila Project", the District receives water from the infrastructure comprised of Imperial Dam, the Gila Desilting Works, and the Gila Gravity Main Canal. The District owns and maintains approximately 8 miles of lined open ditch and 25 miles of underground pipeline. In addition, there are many private wells.

### WATER DELIVERIES

Thirty to thirty-five farms units, which include some 10,525 agricultural acres, are served by the District. (Approximately 370 acres are in urban, suburban or industrial development). In 1988, the net supply to the District from the Colorado River was approximately 57,000 acre-feet, but with operation and transportation losses, the quantity delivered to the farms was approximately 45,113 acre-feet. From 1970 and 1976, an average of 18,600 acre-feet per year of groundwater was pumped (U.S. Geological Survey, 1977). Drainage wells pumped an average of 57,185 acre-feet per year between 1971 and 1982. Farmers must order water from the District no less than 72 hours prior to the expected delivery. Water meters are used to measure flow in open ditches at each farm turnout. Normal head is

12-15 cfs and irrigators may keep it for as long as they find it necessary within reason. A base charge of \$25 per acre entitles an irrigator to 5 acre-feet. Additional water is delivered for \$11 per acre-foot.

#### ORGANIZATIONAL HISTORY

Yuma Irrigation District, known as the South Gila Valley Unit with respect to the Bureau of Reclamation Gila Project, includes lands south of the Gila River immediately east of Yuma, Arizona.

The District was organized in 1919; however, all water was supplied through private pumping. The area was originally included in the plans for the Yuma Project but no river diversionary works were constructed. In the early 1950's when the Yuma Mesa unit was operationalized, the water in the Yuma Irrigation District area became too saline for use, so the farmers worked with the Bureau of Reclamation to obtain the surface water supply. In 1964, the first Colorado River water was delivered. Landowners within the District took over the operation in 1973.

Including multiple cropping (approximately 6,000 acres), total harvested cropland and pasture was 9,655 acres in 1989. Approximately 800 acres of cotton, 1,400 acres of alfalfa, 5,200 acres of cereals, and 8,000 acres of vegetables were harvested.

## YUMA MESA IRRIGATION AND DRAINAGE DISTRICT

### PERSONNEL

President: Elliot Waits  
Manager/Secretary: James Rhodes  
14329 South Fourth Avenue Extension  
Yuma, AZ 85365  
(520) 726-4353

Legal Counsel: Thadd Baker  
2370 S. Virginia Drive  
Yuma, AZ 85364  
(520) 782-1845

The three-member Board of Directors is elected on a one-vote-per-landowner basis. There are 36 employees.

### WATER RIGHTS AND SOURCES

The District's right to surface water from the Colorado River is by contract with the Secretary of the Interior. The surface water is not supplemented with groundwater.

### FACILITIES AND WORKS

A pumping plant at the edge of the Yuma Mesa pumps water derived from the Gila Gravity Main Canal 51 feet up to the District's main canal which splits into the "A" and "B" canals. The entire system (66 miles) is concrete-lined. In 1976, approximately 35,000 acre-feet of groundwater were pumped by USBR wells (U.S.G.S. 1977) and delivered to Mexico for return flow credits. There are private domestic wells but no private irrigation wells in the District.

### WATER DELIVERIES

Of the 20,132 acres within the District, approximately 18,930 acres were irrigated and harvested in 1982. Over 13,000 acres yielded citrus with the remaining acres in alfalfa, cotton, peanuts and miscellaneous field crops. Water is delivered to irrigators on the basis of their orders for a certain number of hours at a specified flow rate. The first nine acre-feet per acre cost \$55.00 in 1995 with the next two at \$6.30. The twelfth and thirteenth acre-feet cost \$9.65 and above that the charge is \$14.40 an acre-foot. In 1994, 200,434 acre-feet of water were delivered to farms. Average annual water application per acre is 10 acre-feet in this area of excessively sandy soils.

### ORGANIZATIONAL HISTORY

Located immediately south of Yuma in Townships 9, 10 and 11 South and Ranges 22, 23 and 24 West, Yuma Mesa Irrigation and Drainage District is part of the Gila Project which was authorized in 1937. The Mesa area was originally contained in the Yuma Reclamation Project which was approved for construction in 1911. The District was organized in May 1956 and took over operation and maintenance from the U.S. Bureau of Reclamation through negotiation of a repayment contract in January 1959.

**AGRICULTURAL  
WATER  
COMPANIES**



APACHE COUNTY  
LYMAN WATER COMPANY

PERSONNEL

President: Calvin Davis  
Box 271  
St. Johns, AZ 85936

Secretary: Eldon Pulsipher  
P.O. Box 521  
St. Johns, AZ 85936  
(520) 337-4945

Legal Counsel: David A. Brown  
Michael J. Brown  
P.O. Box 3128  
Pinetop, AZ 85938

Five individuals serve on the board of directors, they are elected on a one-vote-per-share basis. The company employs a water distribution overseer and a secretary.

WATER RIGHTS AND SOURCES

Surface water from Little Colorado River watershed is the primary water source. Water rights were established prior to 1923. Groundwater supplements the surface supply.

FACILITIES AND WORKS

Water is stored in Lyman Lake and delivered to water users through a canal system owned and operated by the water company. Fourteen miles of the 21-mile consolidated distribution system is lined. The company owns one well.

WATER DELIVERIES

The amount of water used annually varies considerably, dependent upon precipitation. Groundwater constitutes less than 800 acre-feet per year of the total supply.

Of the 5,200 acres within the service area, only one-third were irrigated during the 1982 season. Alfalfa, milo and some winter wheat are the primary crops.

In the spring of the year the water supply in the reservoir is assessed and divided among shareholders. In 1978, each share received 2.5 hours of water per share of a seven-inch (3.05 cfs) stream measured over a Cipoletti weir, or approximately 1,375 gallons per minute. Water is also delivered to the Town of St. Johns. Shares are owned by the town and the water is stored in two small ponds for emergency purposes.

ORGANIZATIONAL HISTORY

The company was organized in 1907. Most of the lands irrigated by way of the company's storage and distribution system lie within three miles south and six miles north of St. Johns in Apache County.

APACHE COUNTY  
ST. JOHNS IRRIGATION AND DITCH COMPANY, INCORPORATED

**PERSONNEL**

President:            Kenneth Whiting  
                         P.O. Box 665  
                         St. Johns, AZ 85936  
                         (520) 337-4555

Secretary:           Zora Booth  
                         St. Johns, AZ 85936  
                         (520) 337-4620

Legal Counsel:     Mitch Platt  
                         St. Johns, AZ 85936  
                         (520) 337-4181

Seven individuals serve on the board of directors of the company. Each shareholder has one vote per share of water; there are 3,000 water shares in total. The company employs one person to oversee the water distribution.

**WATER RIGHTS AND SOURCES**

Salado Springs, located ten miles south of St. Johns along the Little Colorado River bank, is the principal water source for shareholders. The springs flow at approximately 12 to 13 cubic feet per second (cfs) throughout the year. In addition, the Lyman Water Co. is suppose to deliver 4 to 5 cfs throughout the irrigation season. Water rights are from the Little Colorado River.

**FACILITIES AND WORKS**

St. Johns Irrigation and Ditch Company, Inc. owns the Little Reservoir south of St. Johns, a concrete diversion structure in the Little Colorado River bed (for diversion of the spring water), and some ten miles of consolidated ditch system. The Little Reservoir is filled with water during the winter and the water is used for city irrigation in the summer. Only the fields may be irrigated from the springs during the summer. The city's irrigation water is delivered through plastic pipe.

**WATER DELIVERIES**

Approximately 500 acres are served water by way of the company's delivery system. The irrigated land is primarily in native pasture, permanent managed pasture, and alfalfa.

Water delivered to the city is \$9.00 per share. For field irrigation the charge is \$4.50 per share. Each field irrigator/shareholder receives the entire volume of flow for 30 minutes per share about every 21 days.

**ORGANIZATIONAL HISTORY**

The company was formed in the early 1900's. Lands served by the system lie near the town of St. Johns in southern Apache County.

COCHISE COUNTY  
POMERENE WATER USERS ASSOCIATION

PERSONNEL

President: Eldon Barney  
Box 436  
Pomerene, AZ 85627

Secretary: Harold Matthews  
HC1 Box 25  
Benson, AZ 85602

The association is governed by a five-member board of directors, elected on a one-vote-per-share basis. There are no employees.

WATER RIGHTS AND SOURCES

The San Pedro River is the Association's primary water supply. Private wells supplement this source.

FACILITIES AND WORKS

A concrete diversion dam approximately one-half mile north of the St. David Bridge and some six miles of main ditch are owned by the Association.

WATER DELIVERIES

The amount of water used varies considerably given the sporadic flow of the San Pedro River. Generally, 1,500 acres of permanent pasture, alfalfa, silage, cotton and grain are irrigated. All of the river flow at one-half hour per share is rotated among share holders. The charge for water distribution has varied from \$5.00 or \$6.00 per share to \$12.00 per share in 1982 due to the expense of erosion control work within the district.

ORGANIZATIONAL HISTORY

Lands included in the Association service area are in western Cochise County along the San Pedro River. The Benson Canal Company originally served the area until their dam washed out in 1927 and bankruptcy ensued. The Pomerene Water Users Association was formed shortly thereafter and was incorporated in 1936.

COCONINO COUNTY  
FREDONIA CONSOLIDATED IRRIGATION  
AND MANUFACTURING COMPANY

PERSONNEL

President: Veldon Judd  
Box 313  
Fredonia, AZ 86022  
(520) 643-7153

Vice President: Paul McCormick  
Box 211  
Fredonia, AZ 86022  
(520) 643-7489

Secretary and  
Manager: Roney Pratt  
Box 104  
Fredonia, AZ 86022  
(520) 643-7440

The District is governed by a board of three directors. Voting is done on a one-vote-per-share basis, there are 336 water shares total. The District employs a part-time water master.

WATER RIGHTS AND SOURCES

Irrigation water is obtained from Kanab Creek between the Kanab Dam and the Fredonia Dam. The District possesses an appropriate right to divert from the creek.

FACILITIES AND WORKS

The District presently owns and operates Fredonia Dam, constructed in 1918, and a concrete-lined distribution ditch.

WATER DELIVERIES

Between 1,400 and 1,850 acres of alfalfa, pasture, and a small amount of corn and grain are irrigated within the District. The volume of water delivered each year fluctuates, dependent as it is upon siltation and weather; the water flows over the dam and through the flood sluice of Kanab Dam and Fredonia Dam. Water pricing is based upon the District operations and maintenance costs. Assessments are made through the District office. In 1990, the cost was \$5.00 per share per year, which can be levied twice per year.

ORGANIZATIONAL HISTORY

The Fredonia Consolidated Irrigation and Manufacturing Company is located on the east side of Kanab Creek in Arizona south of the Utah state line. As formally organized, the company's service area includes 1,850 acres. Irrigation of the land began in the 1880's and the company was organized in May 1928. In 1943, 75 additional acres were added to Mohave County.

GRAHAM COUNTY

CONSOLIDATED BROWN CANAL CO.  
Manuel Fajardo  
(520) 428-4828

GRAHAM CANAL COMPANY  
Dennis Lunt  
(520) 485-2957

SAN JOSE CANAL COMPANY  
Randall Olsen  
(520) 428-6150

SMITHVILLE CANAL COMPANY  
Scott Alder  
(520) 485-2519

FOURNESS CANAL COMPANY  
Tommy Clonts  
(520) 428-2499

DODGE-NEVADA CANAL COMPANY  
Jim Bryce  
(520) 485-9242

MONTEZUMA CANAL COMPANY  
Randall Olsen  
(520) 428-6150

CURTIS CANAL COMPANY  
Jim Bryce  
(520) 485-9242

HIGHLINE CANAL COMPANY  
Arnold Norton  
(520) 485-2204

FORT THOMAS CANAL COMPANY  
Gerald Black  
(520) 485-2241

UNION CANAL COMPANY  
Phil Curtis  
(520) 428-6348  
Mike Guitierrez  
(520) 428-0596

COLVIN-JONES CANAL COMPANY  
Wayne Lutz  
(520) 485-2369  
Von Hancock  
(520) 485-2269

GREENLEE COUNTY

SUNSET CANAL COMPANY  
Ed White  
(505) 358-2924

VALLEY CANAL COMPANY  
Earl Lunt  
(520) 359-2112

NEW MODEL CANAL COMPANY  
David Ball  
(505) 358-2711

LAURA SHORT PUMPING  
Richard Powers  
(520) 687-1460

MARICOPA COUNTY  
ADAMAN IRRIGATION WATER DELIVERY DISTRICT #36

PERSONNEL

President: Ken Bickman  
7603 N. Alsup Road  
Litchfield, AZ 85340

Manager/Operator: Dave Schofield  
16251 W. Glendale  
Litchfield, AZ 85340  
935-2837

Legal Counsel: Ryley, Carlock & Applewhite  
Norm James  
Suite 2700  
101 No. 1st Avenue  
Phoenix, AZ 85003-1973

Adaman Irrigation Water Delivery District #36, organized as a corporation, is governed by a seven-member board of directors. Voting is undertaken on the basis of one-vote-per-acre. The company has one employee.

WATER RIGHTS AND SOURCES

Groundwater and surface water are the supply source.

FACILITIES AND WORKS

The company owns 14 wells and a completely lined distribution system.

WATER DELIVERIES

Water was distributed to 2,503.2 acres in 1982. No allocation method exists. Irrigators may use as much water as necessary at a charge of \$55.00 per acre-foot.

ORGANIZATIONAL HISTORY

The lands served by the company are in central Maricopa County north of Litchfield Park, between Luke Air Force Base and Maricopa County Municipal Water Conservation District No. 1. The company lands were included in the boundaries of the Maricopa County Municipal Water Conservation District #1 in December 1985.

The company was organized in 1943 and reorganized in November 1984 as Adaman Irrigation Water Delivery District #36.

MARICOPA COUNTY  
ARCADIA WATER COMPANY

PERSONNEL

President: Sandra B. Kelley  
Vice President: Larry F. Gilbert

Manager: James (Jim) Sullivan  
7009 E. Camelback Road  
Scottsdale, AZ 85252  
945-4621

Legal Counsel:	James D. O'Neil Ryley, Carlock & Applewhite 101 N. 1st Ave, Ste 2700 Phoenix, AZ 85003-1973	Preston W. Longino White Cummings & Longino 2920 W. Camelback Rd. #150 Phoenix, AZ 85016
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Eight individuals including the above officers are on the board of directors which governs the Company through a manager. The officers and directors are elected on a one-vote-per-share basis. The Company has six permanent employees.

WATER RIGHTS AND SOURCES

Groundwater is the sole water source.

FACILITIES AND WORKS

An office at 7009 E. Camelback. Five wells pump water to a 260,000 - gallon reservoir. Six controlled pumps and two main pipelines running approximately 10 miles ranging in size from 12 to 24 inches distribute water to quarter-sections in the service area shown on the map. One booster station pumps water uphill for gravity distribution. The office, wells and the main line pipe having 40 diversion boxes are owned by the Company along with the underlying fee property at Camelback Mall Shopping Center. The subdivision homeowners have over 250 diversion boxes and 40 miles of pipeline.

WATER DELIVERIES

The Company delivers water solely for irrigation use to 1,500 acres in the water district, 98 percent of which is subdivided. The principal crops within the subdivisions are citrus, lawns, ornamental shrubs and trees. Water is owned by the property owners in the district and is delivered on demand at a service charge rate of \$14.50 for one hour (or approximately 45,000 gallons). In recent years, an average of approximately 4,100 acre-feet was delivered. In addition to Arcadia's five wells, there are two other active wells in the 2,460 acre water district.

ORGANIZATIONAL HISTORY

The Company was organized in 1919. Lands served by the Company are in the Scottsdale\Phoenix area.

MARICOPA COUNTY  
ARLINGTON CANAL COMPANY

PERSONNEL

President: Gary P. Gable  
P.O. Box 488  
Buckeye, AZ 85326  
(520) 386-2162

Secretary: Kevin Richardson

Legal Counsel: Dale R. Shumway  
Udall, Shumway, Blackhurst,  
Allen & Lyons  
P.O. Box 1446  
Mesa, AZ 85211-1446

Three individuals serve on the board of directors, they are elected on a one-vote-per-acre basis. The Company has a full-time zanjero and bookkeeper.

WATER RIGHTS AND SOURCES

The Company's water supply is derived from: 57,000 acre-feet per year of surface water from the Gila River, priority dates between 1891 and 1919 confirmed by the Simpson Decree. Surface water is diverted at Oglesby Road and the Gila River, tailwater from the Buckeye Irrigation District, flood water that flows from the Gila River into the distribution system, and deep wells. The volume of water obtained from the river channel as opposed to the wells varies. The pumps are used on an "as needed" basis. The City of Buckeye effluent is obtained through contract. Contracts are also held with the Buckeye Irrigation Co. and the Buckeye Drainage District for the drain water pumped by the district.

FACILITIES AND WORKS

Eleven pumps and 22 miles of unlined distribution systems are owned by the Company. At one time a diversion structure was in operation; however, the river bed has become so high that water flows into the Company's canal system unaided.

WATER DELIVERIES

Roughly 4,400 acres of cotton, alfalfa, and ensilage were irrigated with 27,000 acre-feet of water in 1977. The service area of the District is about 4,800 acres and there are twenty to twenty-five stockholders. Current water charges are \$12.00 per acre-foot regardless of whether or not pumps are being used.

ORGANIZATIONAL HISTORY

The Company's service area is in south-western Maricopa County, west of the Gila River and immediately north of Gillespie Dam. On August 15, 1899, the Company was incorporated under the territorial laws of Arizona.

MARICOPA COUNTY  
PENINSULA DITCH COMPANY

PERSONNEL

President: George Knapple  
Rt. 1, Box 273  
Laveen, AZ 85339  
(602) 237-4913

Manager: Rocky Shelton  
(602) 276-3879

Secretary: Vida Thude

WATER RIGHTS AND SOURCES

Lands under the Peninsula, Horowitz and Champion ditches have rights to water from the Salt River as fixed by the Benson-Allison Decree from 1883 to 1909 inclusive, consisting of 1,991.68 acres with decreed water rights and 271.05 acres of undecreed water rights for a total of 2,262.73 acres.

Water is furnished by the Salt River Valley Water Users' Association, by contract, from pumps: two acre-feet per acre (4,525.46 acre-feet) and 3,300 acre-feet from Roosevelt Irrigation District, making a total minimum of 7,825.46 acre-feet yearly.

The Salt River Valley Water Users' Association supplies the Company with 1,200 miner's inches constant flow from three wells.

FACILITIES AND WORKS

The Company owns three wells and a sump pump. The Salt River Project owns three wells from which it supplies the Company.

WATER DELIVERIES

In 1997, 1,991.68 acres were irrigated and the Company maintained 200 accounts. A \$35.00 user fee per year is imposed in addition to \$43.75 per acre per year for the delivery of the acreage allotment. Excess water is priced at \$15.00 per acre-foot.

Water is delivered to subdivision land within the Company's service area, every two weeks on weekends. Farming operations can order water whenever necessary except on weekends.

ORGANIZATIONAL HISTORY

The Peninsula Ditch Company is also known as the Domestic Water and Peninsula Horowitz-Champion Lands. The Peninsula, Horowitz and Champion ditches and the lands they serve occupy 2,262 acres of land southwest of Phoenix.

The company, formed prior to 1933, has never been incorporated.

NAVAJO COUNTY  
JOSEPH CITY IRRIGATION COMPANY

PERSONNEL

President:           Floyd Hansen  
                          Box 128  
                          Joseph City, AZ 86032

Secretary:          Jack Miller  
                          (520) 288-3213

The mutual water company is governed by a five-member board of directors. Voting is exercised on a one-vote-per-share basis. There are no full-time employees. A major stockholder is employed five months of the year to oversee water distribution.

WATER RIGHTS AND SOURCES

The Little Colorado River and groundwater compose the irrigation supply.

FACILITIES AND WORKS

Three wells, two located near the dam and one near Joseph City, a diversion dam, the Pioneer Dam on the river, and seven or eight miles of main ditch are owned by the Company.

WATER DELIVERIES

Approximately 1,500 acres are irrigated by way of the mutual distribution system. The land is in native and permanent pasture, ensilage corn, alfalfa, maize and truck crops.

Shareholders take turns receiving the water available on the basis of 15 minutes per share of the entire flow in the river in addition to the 3,200 gallons per minute available from the two main wells near the diversion dam. The rotation is completed every 16 or 17 days. Irrigators below the third well near Joseph City use it when necessary.

Quantities of water used vary according to river flow. Full use of the river flow and pumped water is made throughout seven months of the year and a lesser amount of water is used for winter wheat and other such seasonal crops.

In 1982, the water distribution charge was \$8.00 per share for the first ten shares and \$6.00 per share thereafter. Water is delivered to Joseph City for lawn and garden irrigation however, the Company does not distribute domestic water.

ORGANIZATIONAL HISTORY

The mutual was organized in 1876 when settlers first came to the area. Lands irrigated through the Company's system lie to the east and west of Joseph City, on the north side of the Little Colorado River.

YAVAPAI COUNTY  
COTTONWOOD DITCH ASSOCIATION, INC.

PERSONNEL

President: P. Andrew Groseta  
P.O. Box 445  
Cottonwood, AZ 86326  
(520) 634-8110

Home Address:  
1030 South 12th Street  
Cottonwood, AZ 85326

Vice President: M.L. Ryan

Secretary/Treasurer: Peter Groseta, Jr.  
Ditch Boss, C.D.A.  
P.O. Box 445  
Cottonwood, AZ 86326

Home Address:  
HC72 Box 62  
740 Mingus View Drive  
Cottonwood, AZ 86326

Board Member: Charles Jordon  
Joe Mongini

WATER RIGHTS AND SOURCES

The Verde River is the water source for the Corporation. The first water right was recorded in December of 1877.

FACILITIES AND WORKS

The Corporation maintains a dirt canal which begins in the river and connects with irrigators' ditches.

WATER DELIVERIES

More than two hundred shareholders owning approximately 880 acres are served water through the Corporation canal. The water is issued on a rotation basis; one-half of the shares are satisfied 3.5 days per week, the other half receiving water the following 3.5 days. Usage is about 8,000 acre-feet per year. Alfalfa, permanent pasture, vegetables and corn are the primary crops in the area. The charge for the water is \$10.00 per acre per year.

ORGANIZATIONAL HISTORY

The Cottonwood Ditch Association was incorporated in 1947. Lands irrigated by way of the Corporation's canal are located in northeastern Yavapai County.

YUMA COUNTY  
YUMA COUNTY WATER USERS' ASSOCIATION

PERSONNEL

President: James W. Cuming

Manager: Donald R. Pope, P.E.  
3800 West County 15th Street  
P.O. Box 5775  
Yuma, AZ 85366-5775

Secretary: Tamara R. Stover

Legal Counsel: Larry W. Suci  
1763 West 24th Street, Suite 200  
Yuma, AZ 85364

Five individuals serve on the Board of Governors in addition to the President and Vice-President. The Board and the ten-member Council are elected on an acreage voting system. The Association has 63 full-time employees.

WATER RIGHTS AND SOURCES

The Yuma County Water Users' Association receives its water supply from the Colorado River by a 1906 beneficial use contract with the Secretary of Interior. Actual water rights belong to the individual landowner and are appurtenant to the land. Over 80 percent of these are present perfected rights.

FACILITIES AND WORKS

Distribution of water is made at Imperial Dam 18 miles north of Yuma. Water travels down the All American Canal in California for 14.7 miles to the Siphon Drop Power Plant, through the Yuma Main Canal to the Colorado River Siphon, where it is transported under the river into Arizona at Yuma. At Yuma it enters the distribution system serving the Valley Division of the Yuma Project. 193 miles of main canals and laterals, 45 miles of which are lined and 5 miles of which are pipelined, are operated and maintained by the Association.

Drainage wells, 8 are operated and maintained by the Association and 6 are operated by the United States Bureau of Reclamation (USBR), these are located along the east side of the Yuma Valley to intercept drainage water entering the groundwater mound from irrigation on the mesa, partially alleviating a high groundwater condition and water logging in the valley. Over 50,000 acre-feet were pumped from these wells in 1994 into the Project's 63-mile drainage system.

The drainage system terminates at the southerly end of the Project near San Luis where the Boundary Pumping Plant lifts the drainage water some 12 feet into the Sanchez Meorado Canal and San Luis Valley in Mexico. Over 92,000 acre-feet of drainage water was delivered in 1994. This water plus wasteway flows totaled over 107,000 acre-feet delivered to the Southern International Boundary in partial satisfaction of Mexican Treaty requirements.

WATER DELIVERIES

Of the 53,450 total irrigable acreage in the Valley Division (3,600 accounts), 45,500 acres (400 farm units) are in farm irrigation rotation. 36,800

acres are multiple cropped. Water deliveries to them accounted for the harvesting in 1994, 34,500 acres of produce (lettuce, broccoli and cauliflower); 4,000 acres of cotton; 13,000 acres of wheat; 13,000 acres of alfalfa and sudan hay; 3,000 acres of citrus; 2,000 acres of bermuda and other seed crops, 2,000 acres of miscellaneous vegetables and 7,000 acres of safflower.

Gross water diversion in 1994 totaled 334,680 acre-feet, 23,828 acre-feet which was delivered to the City of Yuma. Irrigation water usage in 1994 totaled 294,651 acre-feet net supply to the canal system, with 245,060 acre-feet delivered to farms. Irrigators order 7 days in advance for a 7-day period beginning on Sunday. The zanjero in each of the 10 districts picks up the irrigator's order on a Friday; orders are consolidated and the USBR is called to revise its estimate of the total water order. Submerged weirs and flow meters are used for distribution measurement.

The basic charge for water in 1994 was \$62.00 per acre (for five acre-feet). Additional water is priced at \$12.40 per acre-foot.

### ORGANIZATIONAL HISTORY

The Yuma County Water Users' Association, operating the Valley Division of the Yuma Project, is located in the extreme southwest corner of Arizona. Association lands include all of the Colorado River floodplain lands, approximately 53,450 acres, between the City of Yuma and the International Boundary.

The Association was organized in 1903 for the purpose of dealing with the United States Bureau of Reclamation in the development of the Yuma Project, which was authorized in 1904. In 1905 the USBR recorded water filings in the name of the United States, shortly thereafter purchasing three existing water filings and irrigation companies that had been supplying valley lands since 1890.

Eight thousand acres of land within the valley are subdivisions, farmsteads and roads. Principal development and urbanization is occurring in the northern portion of the valley adjacent to the City of Yuma.



**LARGE  
MUNICIPAL AND INDUSTRIAL  
WATER SUPPLIERS**



<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
AJO/PIMA Phelps Dodge Corp. 2600 N. Central Ave Phoenix, AZ 85004-3014	Joe Sipos 602-387-7122	G	3,000	NO
APACHE JUNCTION/PINAL Arizona Water Co. Apache Junction System P.O. Box 29006 Phoenix, AZ 85038	Frank O'Neill 602-240-6860	G CAP	8,085	PHX
AVONDALE/MARICOPA Avondale, City of 525 N. Central Avondale, AZ 85323	520-932-5610	G	4,800	PHX
BAGDAD/YAVAPAI Cypress Bagdad Copper Co. P.O. Box 347 Bagdad, AZ 86321	Rick Penny 520-633-3313	G	NA	NO
BENSON/COCHISE City of Benson 160 South Huachuca Benson, AZ 85602	Mark Holt 520-586-2245	G	1,585	NO
BISBEE/COCHISE Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Head Engineer 602-240-6860	G	3,392	NO
BUCKEYE/MARICOPA Buckeye, Town of 100 N. Apache Buckeye, AZ 85326	Fred Carpenter 602-386-4691	G CAP	1,250	PHX
BULLHEAD CITY/MOHAVE Citizens Utilities P.O. Box 3099 Kingman, AZ 86402	Gary Moseley 520-763-0480	G	13,000	NO
Bermuda Water Co. 4725 N. Scottsdale Rd. Scottsdale, AZ 85260	Gary Goodman 602-990-2996	G CR	2,664	PHX
North Mohave Water Co. P.O. Box 2495 Bullhead City, AZ 86442	John McCormick 520-763-5655	G	875	NO

<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
CAMP VERDE/YAVAPAI Camp Verde Water System P.O. Box 710 Camp Verde, AZ 86322	Robert Schlotfeld 520-567-5281	G S	800	NO
CAREFREE/MARICOPA Carefree Water Co. P.O. Box 7724 Phoenix, AZ 85011	D J. West 602-488-9100	G	1,200	PHX
CASA GRANDE/PINAL Arizona Water Co. P.O. Box 11030 Casa Grande, AZ 85230	520-421-8600	G	9,417	PIN
CATALINA/PIMA Lago del Oro Water Co. 40000 S. Ridgeview Boulevard Tucson, AZ 85739	520-825-3423	G	2,123	TUC
Los Cerros Water Co. 4003 N. Flowing Wells Rd. Tucson, AZ 85705	Alan Friedman 520-825-7527	G	382	TUC
CAVE CREEK/MARICOPA Cave Creek Water Co. 4231 N. 44th Street Phoenix, AZ 85018	Jerome M. George 602-840-8483	G CAP	9,982	PHX
CHANDLER/MARICOPA City of Chandler 200 E. Commonwealth Chandler, AZ 85224	Karen Barfoot 602-786-2797	G S CAP	40,000	PHX
CHINO VALLEY/YAVAPAI Chino Meadows II Water Co., Inc. POB 350, 501 N. Highway 89 Chino Valley, AZ 86323	Paul Levie 520-636-2616	G	435	PRE
CLARKDALE/YAVAPAI Cottonwood Waterworks 1042 N. Main St. Cottonwood, AZ 86326	Chuck Garrison 520-634-5559	G	950	NO
CLAYPOOL/GILA Arizona Water Co. (Miami) 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	3,012	NO

LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS				
CITY/COUNTY	CONTACTNAME, TITLE&PHONE	SOURCE OF WATER	SERVICE CONNECTIONS 1995	AMA
CLIFTON/GREENLEE Morenci Water & Electric Co. Box 68 Morenci, AZ 85540	Jerry Baughman 520-865-3681	G	1,957	NO
COLORADO CITY/MOHAVE Town of Colorado City 25 South Central Street Colorado City, AZ 85201	Scott Jessup Twin City Water Works 520-875-2621	G	500	NO
COOLIDGE/PINAL AZ. Water Co. Coolidge System P.O. Box 29006 Phoenix, AZ 85038	602-240-6860	G CAP	2,839	PIN
COTTONWOOD/YAVAPAI Cottonwood Water Works 1042 N. Main St. Cottonwood, AZ 86326	Chuck Garrison 520-634-5559	G	2,140	NO
DAVIS-MONTHAN AIR FORCE BASE/PIMA 836th Civil Eng. Squadron Tucson, AZ 85707	Dept of Defense	G	1,231	TUC
DOUGLAS/COCHISE Douglas Water Dept. 425 10th St. Douglas, AZ 85607	Manny Ortiz 520-364-2621	G	4,500	NO
DUNCAN/GREENLEE Town of Duncan 501 4th Street Duncan, AZ 85534	Wade Wagley 520-359-2791	G	395	NO
EAGAR/APACHE Town of Eagar 174 South Main Street, Box 1300 Eagar, AZ 85925	Karen Merrill 520-333-4128	G	1,250	NO
EL MIRAGE/MARICOPA Town of El Mirage P.O. Box 26 El Mirage, AZ 85335	520-972-8116	G	2,021	PHX
ELOY/PINAL Eloy Municipal Water Dept 628 N. Main St. Eloy, AZ 85231	520-466-9201	G	1,939	PIN

<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
FLAGSTAFF/COCONINO City of Flagstaff 211 W. Aspen Ave. Flagstaff, AZ 86001	Ron Doba Utilities Dir. 520-779-1333	G S	14,000	NO
Doney Park Water Route 3, Box 215 Flagstaff, AZ 86001	520-526-1080	G	2,215	NO
West Village Water Co. 624 N. Beaver Flagstaff, AZ 86001	520-526-0483	G	NA	NO
Heckethorn Water Co. P.O. Box 663 Flagstaff, AZ 86002	Earl Heckethorn 520-779-1333	G	60	NO
Mountain Dell Water, Inc. 1341 W. Palmer Rd. Flagstaff, AZ 86001	Peter Reznick 520-774-7805 520-774-9550	G	80	NO
FLORENCE/PINAL Town of Florence 3500 N. Pinal Parkway Florence, AZ 85232	520-868-5889	G CAP	2,130	PIN
FOUNTAIN HILLS/MARICOPA Chaparral City Water Company P.O. Box 17030 Fountain Hills, AZ 85268	602-837-9522	G CAP	7,300	PHX
FREDONIA/COCONINO Town of Fredonia Town Hall Fredonia, AZ 86022	Bob Lathim 520-643-7241	G	480	NO

<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
<b>GLENDALE/MARICOPA</b> City of Glendale Box 1556 Glendale, AZ 85311	602-930-2582	G S CAP	46,753	PHX
<b>GLOBE/GILA</b> City of Globe 150 North Pine Street Globe, AZ 85501	Steve Stratton	G	3,233	NO
<b>GOODYEAR/MARICOPA</b> Town of Goodyear 119 N. Litchfield Road Goodyear, AZ 85338	520-932-3015	G CAP	1,421	PHX
<b>GREEN VALLEY/PIMA</b> Community of Green Valley P.O. Box 1078 Green Valley, AZ 85614	Alan Forest 520-625-8409	G	6,260	TUC
Green Valley Water Co. P.O. Box 623 Green Valley, AZ 85622	Manny Oros 520-625-9112	G CAP	3,146	TUC
<b>GUADALUPE/MARICOPA</b> City of Tempe P.O. Box 5002 31 East 5th St. Tempe, AZ 85281	Terry Zerkle 602-350-2623	S CAP	989	PHX
<b>HAYDEN/GILA</b> Town of Hayden 601 Hayden Avenue Hayden, AZ 85235	Kip Gambe 520-356-7811 ext. 3383	G	349	NO
<b>HEBER-OVERGAARD/NAVAJO</b> Heber Water Dist. P.O. Box 666 Heber, AZ 85928	Vance Whipple 520-535-5748	G	250	NO

**LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS**

CITY/COUNTY	CONTACT NAME, TITLE & PHONE	SOURCE OF WATER	SERVICE CONNECTIONS 1995	AMA
Arizona Water Company Overgaard System P.O. Box 5396 Phoenix, AZ 85010	Louie Miller, Jr. 602-240-6860	G	2,496	NO
HOLBROOK/NAVAJO City of Holbrook 465 1st Avenue Holbrook, AZ 86025	520-524-6602	G	2,300	NO
HUACHUCA CITY/COCHISE Town of Huachuca City 500 N. Gonzales Blvd. Huachuca City, AZ 85616	520-456-9511	G	NA	NO
JEROME/YAVAPAI Town of Jerome Town Hall - Main Street Jerome, AZ 86331	Lucy Abbott 520-634-7943	G	275	NO
JOSEPH CITY/NAVAJO Joseph City Water Systems, Inc. P.O. Box 147 Joseph City, AZ 86032	Joseph Aurora 520-288-3455	G	320	NO
KEARNY/PINAL Town of Kearny 912-C Tilbury Road Kearny, AZ 85237	Terry Hinton Manager 520-363-5547	G	750	NO
KINGMAN/MOHAVE Kingman Municipal Water Dept. 310 North 4th Street Kingman, AZ 86401	Jack Kramer Utilities Superintendent 520-757-7467	G	12,600	NO
LAKE HAVASU CITY/MOHAVE City of Lake Havasu Drainage District 1795 Civic Center Blvd. Lake Havasu, AZ 86403	Brad Colby Water Department Superintendent 520-855-2618	G	17,755	NO
LUKE AFB/MARICOPA Luke Air Force Base 832 CSG/DEV Luke Air Force Base, AZ 85309	Samuel E. Young 602-856-6304	G	274	PHX
MAMMOTH/PINAL Town of Mammoth 125 North Clark Street, Box 30 Mammoth, AZ 85618	John C. Lutich Public Works Dir. 520-487-2331	G	632	NO

<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
MARANA/PIMA Marana Water Service, Inc. 1401 W. Glenn Tucson, AZ 85705	Bud Lewis 520-624-1155	G	900	TUC
MESA/MARICOPA City of Mesa P.O. Box 1466 Mesa, AZ 85201	Charles Luster 602-644-2741	G S CAP	98,370	PHX
MIAMI/GILA Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	3,012	NO
MORENCI/GREENLEE Morenci Water & Electric Co. Box 68 Morenci, AZ 85540	Jerry Baughman 520-865-3681	G	1,202	NO
NOGALES/SANTA CRUZ City of Nogales 777 N. Grand Avenue Nogales, AZ 85621	Ken Horton 520-287-6571	G S	6,000+	SCA
ORACLE/PINAL Arizona Water Co. Oracle System P.O. Box 5396 Phoenix, AZ 85010	602-240-6860	G	1,255	NO
ORO VALLEY/PIMA Metropolitan Domestic Water Improvement District 7235 N. Paseo Del Norte Tucson, AZ 85740	Mark Stratton 520-575-8100	G	13,500	TUC
Town of Oro Valley Water Utilites 11000 N. La Canada Dr. Oro Valley, AZ 85737	David Hook 520-297-2591	G	9,739	TUC
PAGE/COCONINO City of Page 697 Vista Avenue Page, AZ 86040	Diane Gilbert 520-645-8861	S	2,500	NO
PARADISE VALLEY/MARICOPA Berneil Water Co. P.O. Box 60084 Phoenix, AZ 85020	Neil Folkman 602-966-5804	G CAP	508	PHX
Paradise Valley Water Co. P.O. Box 158 Scottsdale, AZ 85252	Jim Campbell 602-948-5410	G	4,500	PHX

<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
PARKER/LA PAZ Town of Parker 1314 11th Street Parker, AZ 85344	Frank Savino Jr. Public Works Dir. 520-669-9265	G CR	1,062	NO
PATAGONIA/SANTA CRUZ Town of Patagonia McKeown Ave., Box 767 Patagonia, AZ 85624	Isabel Van Nest Deputy Clerk 520-394-2229	G	362	NO
PAYSON/GILA Town of Payson 303 North Beeline Highway Payson, AZ 85541	Colin P. Walker Pub Works Dir. 520-474-5242 ext. 285	G	5,000	NO
United Utilities Payson System Drawer 559 Payson, AZ 85541	520-474-2100 provide only to areas outside the town of Payson	G	NA	NO
PEORIA/MARICOPA City of Peoria Box 38 Peoria, AZ 85345	Chris Panetta 602-412-7160	G CAP	23,000	PHX
PHOENIX/MARICOPA City of Phoenix Water and Wastewater Dept. 200 W. Washington, 9th Floor Phoenix, AZ 85004	Michael Gritzuk 602-262-6627	G S CAP	350,387	PHX
PIMA/GRAHAM Grand County Electric Co-op	Nelson Peck 520-485-2451	G	825	NO
PINETOP-LAKESIDE/NAVAJO Pinetop Water Co. P.O. Box 87 Pinetop, AZ 85935	Carol Benson 520-368-6993	G	1,000	NO
Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	3,540	NO
PRESCOTT/YAVAPAI City of Prescott P.O. Box 2549 Prescott, AZ 86302	Brad Huza 520-445-3500	G	13,600	PRE

<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
PRESCOTT VALLEY/YAVAPAI Shamrock Water Company HC 36 Box 420 Dewey, AZ 86327	Bill Fain 520-772-8810	G	9,683	PRE
QUARTZSITE/LA PAZ Town of Quartzsite B10 Main Street Quartzsite, AZ 85346	520-927-4333	G	156	NO
Q Mountain Water Co. P.O. Box 553 Quartzsite, AZ 85346	520-927-6238	G	74	NO
Rio Rico Utilities 1060 Yavapai Drive Rio Rico, AZ 85648	Don Baker 520-281-7000	G S	2,300+	SCA
SAFFORD/GRAHAM City of Safford 717 Main St. Safford, AZ 85546	Jerry Davies Utilities Dir. 520-348-3143	G S	5,800	NO
ST. JOHNS/APACHE City of St. Johns 245 West 1st South St. Johns, AZ 85936	Sanford Hunt Public Works Dir. 520-337-4517	G	1,200	NO
Mountain View Water Co Box 478 St. Johns, AZ	James B. Crosby 520-337-4030	G	NA	NO
SAN LUIS/YUMA City of San Luis 23222 1st Street San Luis, AZ 85349	Olivia Jenkins Water Dept. 520-627-8848	G	1,821	NO
SAN MANUEL/PINAL Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	1,755	NO
SCOTTSDALE/MARICOPA City of Scottsdale 3939 Civic Center Plaza Scottsdale, AZ 85251	602-391-5688	G CAP	59,167	PHX
SEDONA/YAVAPAI COCONINO Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	4,583	NO

**LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS**

CITY/COUNTY	CONTACTNAME, TITLE&PHONE	SOURCE OF WATER	SERVICE CONNECTIONS 1995	AMA
Oak Creek Water Co. P.O. Box 3430 West Sedona, AZ 86340	520-282-3404	G	558	NO
SHOW LOW/NAVAJO City of Show Low 200 West Cooley Show Low, AZ 85901	Chuck Craus 520-537-5160	G	2,300	NO
SIERRA VISTA/COCHISE Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	2,106	NO
Bella Vista water Co. 4055 Campus Dr. Sierra Vista, AZ 85635	Ken Johnson 520-458-5470	G	6,200	NO
Nicksville 4055 Campus Dr. Sierra Vista, AZ 85635	Ken Johnson 520-458-5470	G	150	NO
SNOWFLAKE/NAVAJO Town of Snowflake 1st West and 1st South Snowflake, AZ 85937	Curtis Winder Water Dept. 520-536-7103 ext. 221	G	1,090	NO
SOMERTON/YUMA Town of Somerton 110 North State Avenue Somerton, AZ 85350	Eddie Mendez Pub Works Dir. 520-627-8866	G	1,400	NO
SPRINGERVILLE/APACHE Town of Springerville 23 South Papago Street Springerville, AZ 85938	Val Cordova 520-333-2656	G	760	NO
SUN CITY/MARICOPA Sun City West Water Company P.O. Box 1687 Sun City, AZ 85372	602-974-2521	G	20,800	PHX
Citizen Utilities Co. Agua Fria Division P.O. Box 1687 Sun City, AZ 85372	602-974-2521	G	2,200	PHX
SUN LAKES/MARICOPA Pima Utility Co. 25612 E. J. Robson Blvd. Sun Lakes, AZ 85248	Karl Polen 602-895-9200	G	6,674	PHX
SUPERIOR/PINAL Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	1,351	NO

<b>LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS</b>				
<b>CITY/COUNTY</b>	<b>CONTACTNAME, TITLE&amp;PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b>AMA</b>
SURPRISE/MARICOPA Town of El Mirage 14405 N. Palm St. P.O. Box 26 El Mirage, AZ 85335	520-972-8116	G	NA	PHX
Citizen Utilities Co. P.O. Box 1687 Sun City, AZ 85372	Fred Kriess, Jr. 602-974-2521	G	NA	PHX
Sun City Water Co. P.O. Box 1687 Sun City, AZ 85372	602-974-2521	G	NA	PHX
TAYLOR/NAVAJO Town of Taylor P.O. Box 158 Taylor, AZ 85939	520-536-7366	G	619	NO
TEMPE/MARICOPA City of Tempe Box 5002 Tempe, AZ 85280	Bill Pederson 602-350-8200	G S CAP	38,342	PHX
THATCHER/GRAHAM Safford Municipal Utilities 717 Main Street Safford, AZ 85546	Jerry Davies Utilities Dir. 520-348-3143	G S	1,210	NO
TOLLESON/MARICOPA City of Tolleson 9555 W. Van Buren Tolleson, AZ 85353	520-936-7141	G	11,050	PHX
TOMBSTONE/COCHISE City of Tombstone 315 Fremont Street Tombstone, AZ 85638	Brenda Altamirano 520-457-3562	G	608	NO
TUCSON/PIMA City of Tucson Box 27210 Tucson, AZ 85726	520-791-3242	G CAP Effluent	242,064	TUC
Tubac Valley Water Company P. O. Box 1507 Tubac, AZ 85646	Dennis Scanlan 520-398-2195	G S	500+	SCA

## LARGE MUNICIPAL AND INDUSTRIAL WATER SUPPLIERS

CITY/COUNTY	CONTACT NAME, TITLE & PHONE	SOURCE OF WATER	SERVICE CONNECTIONS 1995	AMA
Valle Verde Water Company 12 Garden View Drive Nogales, AZ 85621	Frank Randall 520-281-9272	G	750+	SCA
VALENCIA/MARICOPA Valencia Water Co. 2198 E. Camelback, Ste. 340 Phoenix, AZ 85016	John Mihlick 602-224-0711	G	690	PHX
WELLTON/YUMA Town of Wellton 28634 Oakland Avenue Wellton, AZ 85356	Gary Rinehart 520-785-3348	CR	400	NO
WICKENBURG/MARICOPA Town of Wickenburg 155 North Tegner Street Wickenburg, AZ 85358	Tom Candelaria Finance Officer 520-684-5451	G	1,694	NO
WILLCOX/COCHISE City of Willcox 151 West Maley Willcox, AZ 85643	Ronald Allen Finance Director 520-384-4271	G	1,260	NO
WILLIAMS/COCONINO City of Williams 113 South First Street Williams, AZ 86046	Ron Stillwell Water/Sewers Dir. 520-635-9257	S	1,008	NO
WILLIAMS AFB/MARICOPA 6001 S. Power Road, Bldg. 1 Mesa, AZ 85206	602-988-6486	G	NA	PHX
WINKELMAN/GILA Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	191	NO
WINSLOW/NAVAJO City of Winslow 21 Williamson Ave. Winslow, AZ 86047	Tim Flannigan Water Manager 520-289-2422	G	2,900	NO
YOUNGTOWN/MARICOPA Citizens Utilities P.O. Box 3099 Kingman, AZ 86402	Gary Moseley 520-763-0480	G	1,578	PHX
YUMA/YUMA City of Yuma 180 West 1st Street Yuma, AZ 85364	Carolyn McCleary 520-783-1287	CR	18,818	NO

**\*1- Sources of Water**  
 S=Surface Water  
 G=Groundwater  
 CR=Colorado River Water  
 CAP=Central Arizona Project Water

**\*2 - Active Management Areas**  
 PHX=PHOENIX AMA  
 PIN=PINAL AMA  
 PRE=PRESCOTT AMA  
 SCA=SANTA CRUZ AMA  
 TUC=TUCSON AMA

# **INCORPORATED CITIES & TOWNS**



**INCORPORATED CITIES AND TOWNS**

<b>CITY/COUNTY</b>	<b>CONTACT NAME, TITLE &amp; PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b># OF MUNICIPAL WELLS</b>	<b>EST. POP.</b>
AJO/PIMA*** Phelps Dodge Corp. 2600 N. Central Ave Phoenix, AZ 85004-3014	Joe Sipos 602-387-7122	G	3,000	5	2919
BAGDAD/YAVAPAI*** Cypress Bagdad Copper Co. P.O. Box 347 Bagdad, AZ 86321	Jack McBride Town Utilities 602-633-3262	G	NA	NA	1858
BENSON/COCHISE City of Benson 160 South Huachuca Benson, AZ 85602	Mark Holt 520-586-2245	G	1,585	5	4380
BISBEE/COCHISE Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Engineer 602-240-6860	G	3,392	3	6515
BLACK CANYON CITY/YAVAPAI*** Trails End Water Service P.O. Box 109 Black Canyon City, AZ 85324		G	NA	NA	1881
BULLHEAD CITY/MOHAVE Citizens Utilities P.O. Box 3099 Kingman, AZ 86402	Gary Moseley 520-763-0480	G	13,000	11	27800
Bermuda Water Co. 4725 N. Scottsdale Rd. Scottsdale, AZ 85260	602-990-2996	CR G	550	1	NA
North Mohave Water Co. P.O. Box 2495 Bullhead City, AZ 86442	John McCormick 602-763-5655	G	875	7	NA
CAMP VERDE/YAVAPAI Camp Verde Water System P.O. Box 710 Camp Verde, AZ 86322	Robert Schlotfeld 520-567-5281	G S	800	6	7805
CLARKDALE/YAVAPAI Cottonwood Waterworks 1042 N. Main St. Cottonwood, AZ 86326	Chuck Garrison 520-634-5559	G	1,090	3	2815
CLAYPOOL/GILA AZ Water Co. (Miami) P. O. Box 5396 2612 N. 16th St. Phoenix, AZ 86010	Louis Miller, Jr. (602) 240-6860	G	3,008	17	1942

**INCORPORATED CITIES AND TOWNS**

<b>CITY/COUNTY</b>	<b>CONTACT NAME, TITLE &amp; PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b># OF MUNICIPAL WELLS</b>	<b>EST. POP.</b>
CLIFTON/GREENLEE Morenci Water & Electric Co. Box 68 Morenci, AZ 85540	Joe Cates (520) 865-4521	G	778	2	3005
COLORADO CITY/MOHAVE Town of Colorado City 25 South Central Street Colorado City, AZ 86021	Scott Jessup Twin City Water Works (520) 526-2621	G	500	9	3860
DOUGLAS/COCHISE Douglas Water Dept. 425 10th St. Drawer 1198 Douglas, AZ 85607	Manny Ortiz Public Works (520) 364-2621	G	4500	10	14975
EAGAR/APACHE Town of Eagar Box 78 Eagar, AZ 85925	Karen Merrill Clerk (602) 333-4128	G	1250	7	4675
FLAGSTAFF/COCONINO the City of Flagstaff is the only water provider to the City itself--the others listed here serve:					
City of Flagstaff 211 W. Aspen Ave. Flagstaff, AZ 86001	Ron Doba Utilities Dir (520) 779-7660	G S	14000	16	58145
FREDONIA/COCONINO Town of Fredonia Town Hall Fredonia, AZ 86022	Bob Lathim (520) 643-7241	G	480	3	1345
GLOBE/GILA City of Globe 150 North Pine Street Globe, AZ 85501	Steve Stratton (520) 425-7991	G	3233	4	7740
HAYDEN/GILA Town of Hayden 601 Hayden Avenue Hayden, AZ 85235	Kip Gambe 520-356-7811 ext. 3383	G	349	20	910
HOLBROOK/NAVAJO City of Holbrook 465 1st Avenue Holbrook, AZ 86025	Gilbert Tafoya 520-524-6602	G	NA	NA	5625

**INCORPORATED CITIES AND TOWNS**

<b>CITY/COUNTY</b>	<b>CONTACT NAME, TITLE &amp; PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b># OF MUNICIPAL WELLS</b>	<b>EST. POP.</b>
HUACHUCA CITY/COCHISE Town of Huachuca City 500 N. Gonzales Blvd. Huachuca City, AZ 85616	Public Works 520-456-9511	G	NA	NA	2015
JEROME/YAVAPAI Town of Jerome Town Hall - Main Street Jerome, AZ 86331	Lucy Abbott 520-634-7943	G	NA	NA	580
KEARNY/PINAL Town of Kearny 912-C Tilbury Road Kearny, AZ 85237	Terry Hinton Manager 520-363-5547	G	750	3	2520
KINGMAN/MOHAVE Kingman Municipal Water Dept. 310 North 4th Street Kingman, AZ 86401	Jack Kramer Utilities Superintendent 520-757-7467	G	12600	11	18425
LAKE HAVASU CITY/MOHAVE City of Lake Havasu Drainage District 1795 Civic Center Blvd. Lake Havasu, AZ 86403	Brad Colby Water Department Superintendent 520-855-2618	G	17755	14	38635
MAMMOTH/PINAL Town of Mammoth Box 30 125 North Clark Street Mammoth, AZ 85618	John C. Lutich Public Works Dir. 520-487-2331	G	632	5	2000
MIAMI/GILA Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	3008	17	2045
MORENCI/GREENLEE*** Morenci Water & Electric Co. Box 68 Morenci, AZ 85540	Jerry Baughman (520) 865-3681	G	1202	NA	1799
NOGALES/SANTA CRUZ City of Nogales 777 N. Grand Avenue Nogales, AZ 85621	Ken Horton Water Dept Superintendent 287-2868	G S	6,000+	26	20540
PAGE/COCONINO City of Page 697 Vista Avenue Page, AZ 86040	Diane Gilbert (520) 645-8861	S	2500	NA	8640

**INCORPORATED CITIES AND TOWNS**

<b>CITY/COUNTY</b>	<b>CONTACT NAME, TITLE &amp; PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b># OF MUNICIPAL WELLS</b>	<b>EST. POP.</b>
PARKER/LA PAZ Town of Parker 1314 11th Street Parker, AZ 85344	Frank Savino, Jr. Public Works (520) 669-9265	G CR	1062	4 & 1 river intake	2975
PATAGONIA/SANTA CRUZ Town of Patagonia McKeown Ave., Box 767 Patagonia, AZ 85624	Isabel Van Nest Deputy Clerk (520) 394-2229	G	362	2	950
PAYSON/GILA Town of Payson 303 North Beeline Highway Payson, AZ 85541	Colin P. Walker Public Works (520) 474-5242 ext. 285	G	5000	11	12125
PIMA/GRAHAM Grand County Electric Co-op	Nelson Peck (520) 485-2451	G	825	13	2080
PINETOP-LAKESIDE/NAVAJO Pinetop Water Co. P. O. Box 87 Pinetop, AZ 85935	Carol Benson (520) 367-2022	G	1000	5	3415
Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead	G	3500	6	NA
QUARTZSITE/LA PAZ Town of Quartzsite B10 Main Street Quartzsite, AZ 85346	(520) 927-4333	G	156	1	2075
SAFFORD/GRAHAM City of Safford 717 Main Street Safford, AZ 85546	Jerry Davies Utilities Dir. (520) 348-3143	G S	5800	9	9320
ST. JOHNS/APACHE City of St. Johns 245 West 1st South St. Johns, AZ 85936	Sanford Hunt Public Works Director (520) 337-4517	G	1200	2	3400
SAN LUIS/YUMA City of San Luis 23222 1st Street San Luis, AZ 85349	Olivia Jenkins Water Dept. (520) 627-8848	G	1847	4	9855
SAN MANUEL/PINAL*** Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer (602) 240-6860	G	1772	no wells - buy water from Magma Copper	NA

**INCORPORATED CITIES AND TOWNS**

<b>CITY/COUNTY</b>	<b>CONTACT NAME, TITLE &amp; PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b># OF MUNICIPAL WELLS</b>	<b>EST. POP.</b>
SEDONA/YAVAPAI & COCONINO Arizona Water Co. 3805 N. Black Canyon Hwy Phoenix, AZ 85010	Mike Whitehead Chief Engineer (602) 240-6860	G	4539	12	9760
SHOW LOW/NAVAJO City of Show Low 200 West Cooley Show Low, AZ 85901	Chuck Craus (520) 537-5160	G	2300	3	7480
SIERRA VISTA/COCHISE Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer (602) 240-6860	G	2108	4	39405
SNOWFLAKE/NAVAJO Town of Snowflake 1st West and 1st South Snowflake, AZ 85937	Curtis Winder Water Dept. 520-536-7103 ext. 221	G	1090	3	4395
SOMERTON/YUMA Town of Somerton 110 North State Avenue Somerton, AZ 85350	Eddie Mendez Public Works Dir. 520-627-8866	G	1400	2	6405
SPRINGERVILLE/APACHE Town of Springerville 23 South Papago Street Springerville, AZ 85938	Val Cordova 520-333-2656	G	760	11	1895
SUPERIOR/PINAL Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer 602-240-6860	G	1353	2	3485
TAYLOR/NAVAJO Town of Taylor County Road Taylor, AZ 85939	Ronald Solomon Public Works 520-536-7366	G	NA	NA	2745
THATCHER/GRAHAM Safford Municipal Utilities 717 Main Street Safford, AZ 85546	Jerry Davies Utilities Dir. 520-348-3143	G S	1210	9	4295
TOMBSTONE/COCHISE City of Tombstone 315 Fremont Street Tombstone, AZ 85638	Brenda Altamirano 520-457-3562	G	608	3	1530
WELLTON/YUMA Town of Wellton 28634 Oakland Avenue Wellton, AZ 85356	Gary Rinehart Manager 520-785-3348	CR	400	NA	1250

**INCORPORATED CITIES AND TOWNS**

<b>CITY/COUNTY</b>	<b>CONTACT NAME, TITLE &amp; PHONE</b>	<b>SOURCE OF WATER</b>	<b>SERVICE CONNECTIONS 1995</b>	<b># OF MUNICIPAL WELLS</b>	<b>EST. POP.</b>
WICKENBURG/MARICOPA Town of Wickenburg 155 North Tegner Street Wickenburg, AZ 85358	Tom Candelaria Finance Officer 520-684-5451	G	1694	4	4985
WILLCOX/COCHISE City of Willcox 151 West Maley Willcox, AZ 85643	Ronald Allen Finance Director 520-384-4271	G	1260	2	3640
WILLIAMS/COCONINO City of Williams 113 South First Street Williams, AZ 86046	Ron Stillwell Water/Sewers Director (520) 635-9257	S	1008	NA	2735
WINKELMAN/GILA Arizona Water Co. 3805 N. Black Canyon Hwy. Phoenix, AZ 85010	Mike Whitehead Chief Engineer (602) 240-6860	G	187	3	415
WINSLOW/NAVAJO City of Winslow 21 Williamson Ave. Winslow, AZ 86047	Tim Flannigan Water Manager (520) 289-2422	G	2900	6	11215
YOUNGTOWN/MARICOPA Citizens Utilities P.O. Box 3099 Kingman, AZ 86402	Gary Moseley (520) 763-0480	G	1578	3	2730
YUMA/YUMA City of Yuma 180 West 1st Street Yuma, AZ 85364	Carolyn McCleary (520) 783-1287	CR	18818	NA	65130

\*\*\* = unincorporated community

**ARIZONA  
GROUNDWATER  
MANAGEMENT CODE SUMMARY**



## SUMMARY OF THE GROUNDWATER MANAGEMENT CODE

Water service organizations throughout Arizona are affected in a variety of ways by the Groundwater Code. The statutory provisions are relatively comprehensive and far too detailed to include in this summary. Users of this reference document are encouraged to contact the Arizona Department of Water Resources if questions are not answered here. Addresses and phone numbers immediately follow this summary.

In June of 1980, the Arizona Legislature passed the Groundwater Management Act. Responding to long-term groundwater withdrawals which have exceeded the natural replenishment of groundwater supplies, the Act was primarily designed to stop overdrafting within several critical areas. This water management legislation, commonly referred to as the Groundwater Code, established the Department of Water Resources (DWR) to administer the provisions set forth in the law and gave broad authority over state water concerns to the new State agency.

The Code established three levels of water management to respond to different groundwater conditions. The most general level of groundwater management applies throughout Arizona. Statewide groundwater management provisions include designation of groundwater basins, rules on transporting groundwater from one area of the state to another, mandatory well registration, and requirements for land developers to evaluate and report water availability (water adequacy statements).

Irrigation Non-Expansion Areas (INAs) represent another level of groundwater management under DWR's regulation. The Douglas INA and Joseph City INA were created by the Groundwater Code. In 1982, DWR created a third INA into the Harquahala Valley. The Code restricts irrigation in these rural farming areas to land that was irrigated in the five years prior to designation as an INA.

The most extensive level of management occurs in Active Management Areas (AMAs) where groundwater overdraft is most severe. The five AMAs established by the Code account for 70 percent of the State's groundwater overdraft and include 80 percent of the State's population.

The five AMA's - Phoenix, Tucson, Prescott, Santa Cruz and Pinal. The Code specifies a management goal for each AMA. The management goal for the Phoenix, Tucson, Santa Cruz, and Prescott AMAs is to achieve "safe-yield" by the year 2025, which is a long-term balance between the annual amount of groundwater withdrawn and the annual amount of natural and artificial recharge. In the primarily agricultural Pinal AMA, the goal is to extend the life of the agricultural economy for as long as feasible, while considering the need to preserve water supplies for future non-irrigation uses.

The Code requires the Department to adopt a series of five management plans for each of the AMAs. The first management plan initiated conservation programs in the agricultural, municipal and industrial water use sectors within the AMAs. Initial conservation goals are tightened in the second management period, 1990-2000, and are supplemented with the Department's introduction to two new programs. These are the water quality assessment and management program, and the augmentation and reuse program. The third, fourth and fifth management periods, beginning in 2000, 2010 and 2020, respectively will include additional programs to meet the goals set by the Code.

Cities, towns and water companies may pump groundwater as needed for the residents of their legally defined service areas. Annual withdrawals are required by law to be within the limitations of each management period's mandated conservation requirements.

In an AMA, the right to use groundwater under the law can also be exercised through "grandfathered rights" for irrigation and non-irrigation purposes, or by application to DWR for a groundwater withdrawal permit for non-irrigation purposes.

Both AMAs and INAs are defined by groundwater basins rather than by the political boundaries of cities, towns and counties. Additional AMAs and INAs can be designated either by the Department, if necessary to protect the water supply, or by an election held by local residents of an area.

In both AMAs and INAs only lands with a history of irrigation for five years prior to being designated can continue to irrigate. Therefore, new agricultural land can not be developed in the AMAs or in the INAs.

For further information about management and use of the waters of the state under the Groundwater Code, please contact any of the Active Management Area offices or the central office of the Arizona Department of Water Resources:

**Arizona Department of Water Resources**

500 North Third Street  
Phoenix, AZ 85004  
(602) 417-2400

**Phoenix Active Management Area**

500 North Third Street  
Phoenix, AZ 85004  
(602) 417-2465

**Tucson Active Management Area**

400 West Congress, Suite 518  
Tucson, AZ 85701-6759  
(520) 770-3800

**Prescott Active Management Area**

2200 E. Hillside Road  
Prescott, AZ 86301  
(520) 778-7202

**Pinal Active Management Area**

1000 East Racine  
Casa Grande, AZ 85222  
(520) 836-4857

**Santa Cruz Active Management Area**

857 West Bell Road, Suite 3  
Nogales, AZ 85621  
(520) 761-1814

**ARIZONA  
ASSURED WATER SUPPLY  
PROGRAM SUMMARY**



## **ARIZONA DEPARTMENT OF WATER RESOURCES ASSURED WATER SUPPLY PROGRAM SUMMARY**

Arizona's Assured Water Supply Program is designed to sustain the State's economic health by preserving groundwater resources and promoting long-term water supply planning. This is accomplished through regulations which mandate the demonstration of available water supplies for new subdivisions. The program is an integral component of Arizona's 1980 Groundwater Code, which was designed to address severe groundwater level decline rates in major urban and agricultural areas.

### **History**

In 1973, the Arizona Legislature enacted a statewide water adequacy statute primarily as a consumer protection measure. This law required subdivision developers to obtain a determination from the State regarding the availability of water supplies prior to marketing lots. Developers were then required to disclose any "inadequacy" of the supply to potential lot buyers. The law was passed in response to the widespread marketing of lots without available water supplies.

The 1980 Groundwater Code contains more rigorous provisions for new subdivisions in regions designated as "active management areas" (AMAs). AMAs are areas which have experienced significant groundwater depletion, and include the urban areas within Maricopa, Pinal, Pima, Santa Cruz and Yavapai Counties. The 1980 Code prohibits the sale or lease of subdivided land in an AMA without demonstration of an assured water supply. The 1973 law requiring disclosure of inadequate supplies still applies outside of AMAs.

### **Assured Water Supply Criteria**

To obtain an assured water supply determination, the statute requires a demonstration that: 1) sufficient water of adequate quality is available for at least 100 years; 2) the proposed use of water is consistent with the management plan and management goal for the AMA; and 3) finances are available to construct the delivery system and related features.

A developer may obtain an assured water supply determination by applying to the Arizona Department of Water Resources (ADWR) for a Certificate of Assured Water Supply and demonstrating that the criteria have been met. As an alternative, the water provider may acquire a Designation of Assured Water Supply for the entire service area. If the subdivision will be served by a "designated" provider, the developer need only obtain a written commitment of service from the provider. Since most large water providers have obtained a Designation, a majority of new subdivisions are covered through this process.

### **Management Goals**

The Groundwater Code establishes management goals for each AMA. The management goal for most AMAs involves attaining "safe yield" by the year 2025. Safe yield, in the context of the Code, is the long-term balancing of groundwater withdrawals with the amount of water naturally or artificially recharged to AMA aquifers.

## **Assured Water Supply Rules**

In 1995, ADWR adopted the Assured and Adequate Water Supply Rules, primarily to reinforce the Code criteria pertaining to management goals. The new rules require developers or water providers to acquire renewable water supplies such as surface water, Central Arizona Project water or effluent. The new rules allocate a small quantity of "mined" groundwater for most assured water supply determinations. Mined groundwater is groundwater that is not naturally or artificially recharged. Prior to these rules, an assured water supply was typically demonstrated by pledging mined groundwater as the primary source.

## **Subdivision Requirements and Assured Water Supply**

An assured water supply determination is required to gain approval of a subdivision plat by local governments, and to obtain authorization to sell lots by the Department of Real Estate. A subdivision is defined as land divided into six or more parcels where at least one parcel is less than 36 acres. Land divisions resulting in parcels larger than 36 acres are classified as "unsubdivided" lands and do not require an assured water supply determination.

## **Meeting the Assured Water Supply Criteria**

### **1. Physical, Legal and Continuous Water Availability**

Physical availability of the water supply is typically demonstrated through a hydrologic study. For groundwater, the study must consider demands of area users for a 100 year period, and the supply must meet depth limitations specified in the rules. For all sources of water, legal rights must exist, and adequate delivery, storage and treatment works must be either in place or financed.

### **2. Water Quality**

Proposed sources of water must satisfy existing state water quality standards as well as other water quality standards applicable to the proposed use after treatment.

### **3. Financial Capability**

Water providers or developers must demonstrate financial capability to construct the water delivery system and any storage or treatment facilities. Financial capability for developers is typically considered through the local government's subdivision review process.

### **4. Consistency with the Management Plan**

Each AMA's Groundwater Management Plan prescribes water conservation requirements for municipal water providers. Water demand associated with proposed subdivisions is evaluated in accordance with these conservation requirements.

## 5. Consistency with Management Goal

To be "consistent with the management goal of an AMA," new municipal users must limit the use of mined groundwater and instead use renewable water supplies.

A minimal volume of mined groundwater is allocated to Certificates and Designations of Assured Water Supply. This "groundwater allowance credit" differs between AMAs, and is intended to allow for the "phasing in" of renewable supplies over time. Any water demands in excess of the groundwater allowance credit must be met with other pumpage credits or renewable supplies. The methods available for meeting the criteria are described in the following table.

<b>Method of Obtaining Water</b>	<b>Available Options</b>
Pumpage of water from wells	<b>Groundwater Allowance Credits</b> allow up to 20 percent of total demand to be supplied with groundwater without incurring an obligation to replace the water. For Designations, credits for incidental recharge are included.
	<b>Extinguishment Credits</b> are obtained by permanently eliminating a grandfathered groundwater right and allow for the pumping of additional groundwater without a replenishment obligation.
	<b>Storage Credits</b> accrue from the recharge of surface water or effluent, and may be pumped or "recovered" from wells. Recovered water retains the legal nature of the water stored.
	<b>Exemption Credits</b> may be authorized for pumpage of poor quality groundwater, water withdrawn from an established "waterlogged" area, and any groundwater withdrawn under surface water drought conditions.
	<b>Groundwater Replenishment District</b> membership allows for any "excess" groundwater usage (usage in excess of credits) to be replaced by recharging renewable water. See the section below for more information.
Direct use of renewable supplies	<b>Surface Water/CAP</b> may be treated for potable deliveries, or may be delivered directly for non-potable uses such as golf courses and parks.
	<b>Effluent</b> may be delivered for non-potable uses.

## **Groundwater Replenishment District**

Through a statutory mechanism established in 1993, a demonstration of Assured Water Supply (AWS) in the Phoenix, Tucson and Pinal AMAs may include mined groundwater if the subdivision or water provider has joined the Groundwater Replenishment District (GRD). The GRD, which is operated by the Central Arizona Water Conservation District, is responsible for acquiring renewable water supplies to replace groundwater pumped by members. The water is then recharged into aquifers within the AMA. The GRD allows new development to occur in areas where renewable water supplies are not yet available.

Costs of the GRD are covered by an annual replenishment tax levied on "excess" groundwater use by members. The tax is based on the GRD's cost of obtaining replacement water (approximately \$110 per acre-foot in 1996). For each subdivision lot covered by a Certificate of Assured Water Supply, the property tax assessment will reflect the cost of excess water delivered to the lot. Water providers that join the GRD and obtain a Designation of Assured Water Supply pay the assessment directly to the GRD based on excess water delivered in the provider's service area.

## **Applications**

A developer may obtain a Certificate of Assured Water Supply by filing an application and a preliminary subdivision plat with the Department of Water Resources. The application review process typically requires 90 days.

Water providers that were previously determined to have a Designation of Assured Water Supply must apply to become "re-designated" under the new rules if the provider wishes to maintain the status. Cities and towns must file by December 31, 1997, and private water companies must have applied by August 7, 1995. Providers that are not designated and those that lose their designation may apply at any time for a new designation.

## **Accounting, Reporting and Monitoring**

A credit account is maintained by ADWR for each Certificate and Designation of Assured Water Supply. The account is updated annually based on reports filed by water providers. The Department will review the AWS status of designated water providers at least every 15 years to determine whether the designation remains valid.

## Assistance

For more information regarding assured water supply determinations, contact the following ADWR Offices:

- Office of Assured and Adequate Water Supply (602) 417-2460
- Phoenix Active Management Area (602) 417-2465
- Pinal Active Management Area (520) 836-4857
- Prescott Active Management Area (520) 778-7202
- Santa Cruz Active Management Area (520) 761-1814
- Tucson Active Management Area (520) 770-3800
- Hydrology Division (602) 417-2448

For information regarding the Groundwater Replenishment District, contact:

- Central Arizona Water Conservation District (602) 869-2333



# **SPECIAL DISTRICTS**



## SPECIAL DISTRICTS

### LEGAL AUTHORITY

There are two types of special districts in Arizona that have a primary purpose related to water: an agricultural improvement district, and multi-county water conservation district. The Salt River Project is the only agricultural improvement district in the State, while the Central Arizona Water Conservation District is the only multi-county water conservation district.

An agricultural improvement district stores and delivers water, provides drainage, improves facilities, sells surplus water, and finances construction. Financing is raised by issuing bonds with the approval of the majority of electors.<sup>4</sup>

A multi-county water conservation district is tax-levying public improvement district and municipal corporation that taxes to pay its administrative costs and to repay Central Arizona Project costs to the United States. This district levies an ad valorem tax not exceeding ten cents per one hundred dollars of assessed valuation against all taxable property in the district.<sup>5</sup>

Both districts have power of eminent domain, and are administered by elected Boards of Directors with sufficient powers to fulfill their duties. Only qualified electors can serve on their Boards of Directors.

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<sup>4</sup>A.R.S. § 48-2301-2475

<sup>5</sup>A.R.S. § 48-3701-3734



## CENTRAL ARIZONA WATER CONSERVATION DISTRICT

### PERSONNEL

General Manager: David S. "Sid" Wilson, Jr.  
23636 N. 7th Street  
Phoenix, AZ 85024  
869-2333 & FAX: 869-2332

Deputy General Manager: Larry Dozier

Assistant General Manager,  
Maintenance Division: Darrell Summers

Assistant General Manager,  
Planning/Resources: John Newman

Director of Finance &  
Risk Management: Chris Kinney

Legal Counsel: Doug Miller  
23636 N. 7th Street  
Phoenix, AZ 85024  
869-2333

### BOARD OF DIRECTORS:

<u>Board Member</u>	<u>County Represented</u>	<u>Term Ends</u>
Robert M. "Bob" Beaudry	Pima	12-31-02
George Campbell	Maricopa	12-31-00
Marybeth Carlile	Pima	12-31-02
Dalton H. Cole, Jr.	Pinal	12-31-00
Grady Gammage, Jr.	Maricopa	12-31-98
Samuel Goddard, Jr.	Maricopa	12-31-98
James A. Hartdegen	Pinal	12-31-02
Virginia Korte	Maricopa	12-31-98
William Perry	Maricopa	12-31-00
Karl Polen, Jr.	Maricopa	12-31-00
Ronald Rayner	Maricopa	12-31-98
George Renner	Maricopa	12-31-00
Marilyn Ronstadt	Pima	12-31-02
Steve Weatherspoon, Esq.	Pima	12-31-02
Jim Weeks	Maricopa	12-31-98

As provided in the enabling legislation, the District is administered by a 15-member board of directors elected from the three-county area. The number of board members from each county is determined on a population basis set forth in the statute. All members eventually will be elected to six year staggered terms, with five members being elected every two years. Currently, there are ten board members in Maricopa County, four in Pima County and one in Pinal County as listed above.

## POWERS

The 1971 legislation granted the following powers to the District:

1. The contract with the Secretary of the Interior to repay all construction costs and operations, maintenance, and replacement costs of the Central Arizona Project.
2. To subcontract with potential water users for water delivery at rates established in the subcontracts.
3. To establish and collect water charges consistent with federal reclamation law and contracts entered into between the CAWCD and the Secretary of Interior.
4. To levy a property tax, not to exceed ten (10) cents per \$100 of assessed valuation on all taxable property within Maricopa, Pima, and Pinal Counties.

In 1982, additional legislation further empowered CAWCD:

1. To contract with the United States to be the operating agent of the CAP and to maintain completed portions of the CAP.
2. To lawfully acquire real and personal property and electricity or other forms of energy necessary for the operation of the CAP.

## BACKGROUND

In 1968, Congress enacted the Colorado River Basin Project Act which authorized construction of the Central Arizona Project (CAP). The CAP is a 336 mile long, man-made water conveyance system that is designed to deliver Colorado River water into central and southern Arizona. It is a system of open concrete-lined canals, pumping plants, inverted siphons and tunnels that carry the water from Lake Havasu to Phoenix, and eventually to Tucson. The system's distinguishing element is that it lifts water uphill.

The Central Arizona Water Conservation District (CAWCD) was created by Arizona legislation in 1971. The District currently operates the CAP, maintains completed portions of the aqueduct system, constructs and maintains the microwave control system, and provides funds for construction of New Waddell Dam.

In addition to operating and maintaining the CAP, the District will repay to the federal treasury the reimbursable costs of building the project. Repayment monies will be derived from the sale of project water, from power revenues, and from an annual ad valorem property tax within Maricopa, Pinal and Pima counties.

The CAP will bring an average of 1.5 million acre-feet of Colorado River water into these counties each year. This water has been allocated to 85 users, classified as municipal or industrial entities, 12 Indian communities, and 23 non-Indian agricultural districts.

People outside the three-county area will also benefit from the CAP through water exchanges. Also western New Mexico will benefit from the development of an 18,000 acre-foot water supply authorized by CAP legislation.

SALT RIVER VALLEY WATER USERS' ASSOCIATION

SALT RIVER PROJECT AGRICULTURAL  
IMPROVEMENT AND POWER DISTRICT

PERSONNEL

President: William P. Schrader

Vice President: John M. Williams, Jr.

General Manager: Richard H. Silverman

Asst. General Manager,  
Water: John F. Sullivan  
Salt River Project  
P.O. Box 52025  
Phoenix, Arizona 85072-2025  
(602) 236-5812

Secretary: William K. O'Neal

Legal Counsel:	<b>General Counsel:</b> Jennings, Strouss & Salmon One Renaissance Square Two North Central Phoenix, Arizona 85004 or Jane D. Alfano Salt River Valley Water Users' Association	<b>For Water Matters:</b> Salmon, Lewis & Weldon 4444 N. 32nd Street Suite 200 Phoenix, Arizona 85018
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The ten members of the Board of Governors of the Salt River Valley Water Users' Association are elected from the ten area divisions within the Association boundaries on an acreage voting basis. The Board of Directors of the Salt River Project Agricultural Improvement and Power District consists of 14 members. One board member is elected from each of the ten Salt River project voting areas with four elected at-large.

In addition to the board which establishes the policies for management of the business affairs of the Salt River Project, a council exists for the Water Users' Association and for the Power District. Each council enacts and amends by-laws relating to such management. Each council consists of thirty members elected from among the shareholders - three from each of the ten voting areas.

## WATER RIGHTS AND SOURCES

Water rights appertain to lands owned by members of the Salt River Valley Water Users' Association who signed a water right application with the Secretary of the Interior. All such lands have equal rights to water stored in surface reservoirs and water developed by deep wells.

The Kent Decree of 1910 established relative water rights for lands which used water beneficially from the Salt and Verde Rivers from 1869 to 1909. The decision instituted the principle of normal flow water rights. Landowners with such rights (Class A) may receive normal flow river water when it is available in addition to their entitlement of stored and developed water.

Landowners also buy water from pumps if and when it is needed and available. In 1929, landowners were first allowed to purchase such rights. The program was reorganized in 1948 to provide funds for development of additional groundwater for landowners who desired to acquire a pump right.

There are separate rights for land designated as townsite lands by the Secretary of the Interior, these rights, as defined by the Reclamation Act of 1906 (Act of April 16, 1906, c. 1631 §434 Stat. 116) provide cities and towns within the Project the opportunity to obtain water under a special contract in an amount considered necessary by the Project, the charges not to be less nor the terms more favorable than for other lands within the Project.

## FACILITIES AND WORKS

The Salt River Project operates and maintains the following dams for storage and power generation:

### SALT RIVER

	Storage Capacity (acre-feet)	Date of Construction	Generating Capacity (Kilowatts)
Horse Mesa (Apache Lake)	245,138	1925-1927	126,800
Mormon Flat (Canyon Lake)	57,582	1923-1925	54,200
Stewart Mountain (Saguaro Lake)	69,765	1928-1930	13,000
Theodore Roosevelt (Theodore Roosevelt Lake)	1,336,734	1905-1911	36,000

## VERDE RIVER

	Storage Capacity (acre-feet)	Date of Construction	Generating Capacity (Kilowatts)
Bartlett (Bartlett Lake)	178,186	1936-1939	none
Horseshoe (Horseshoe Lake)	131,427	1944-1946	none

Granite Reef Dam, constructed from 1906 to 1908, diverts water from the Salt River below the confluence with the Verde River as released from storage to Project canals on the north and south sides of the Salt River as it runs through the Valley. (Salt River Project, 1975). The association owns approximately 248 deep wells, 133 miles of canals (101 miles lined), 912 miles of laterals (830 miles lined or piped), and 236 miles of drainage and waste ditches (90 miles are piped).

On behalf of the cities of Chandler, Gilbert, Mesa, Phoenix, Scottsdale and Tempe, SRP operates and maintains the Granite Reef Underground Storage Project (GRUSP). SRP is also a joint owner of GRUSP which consists of four large water spreading basins located on lands leased from the Salt River Pima-Maricopa Indian Community adjacent to the Salt River bed. GRUSP is permitted to store up to 200,000 acre-feet of water per year. In 1994, 41,216 acre-feet of Central Arizona Project water was stored in GRUSP.

Salt River Project has constructed four 73,000 kilowatt combined cycle generating units at the San Tan Generating Station near Gilbert, and two other gas/oil stations in the Valley; Kyrene in South Tempe (6 units, 306,000 kw capacity) and Agua Fria in Glendale (6 units, 604,000 kw capacity). The Project (10 percent ownership) and five southwestern utilities invested in the construction of two large coal-fired units at the Four Corners Station, near Farmington, New Mexico. SRP is also a participant in the Mohave Generating Station (10 Percent) located in southern Nevada across the Colorado River from Bullhead City, Arizona; the Navajo Generating Station (21.7 percent) near Page; two generating stations in northwest Colorado, (Hayden, 50 percent of Unit two, and Grain, 29 percent of Units one and two); and the Coronado Generating Station (100 percent) near St. Johns. SRP also owns about 17.5 percent of the Palo Verde Nuclear Power Project near Buckeye.

## WATER DELIVERIES

A total of 930,637 acre-feet of water was available for distribution in 1994. Gravity supply was 830,608 acre-feet and groundwater supply was 100,029 acre-feet. Water deliveries in 1994 totaled 853,150 acre-feet. Agricultural use was 238,400 acre-feet; non-agricultural use (municipal, industrial, parks, playgrounds and residential irrigation) was 434,252 acre-feet. Decreed land, including Indian reservations, Buckeye Irrigation District, New State Irrigation and Drainage District, St. Johns Irrigation District and Lakin-Lennox Cattle Co., received 76,994 acre-feet and contract deliveries totaled 99,255 acre-feet (Salt River Project, 1994).

Over 49,710 acres were irrigated in 1994 including (with some double cropping) 21,751 acres of irrigated pasture; 18,547 of pasture grain and alfalfa; 18,439 acres of cotton; 2,074 acres of wheat; 1,250 acres of grain sorghum; and lesser amounts of barley, truck crops, citrus, sugar beets and nursery flowers.

Urban, non-agricultural water use in 1994 totaled 434,252 acre-feet or 64.56 percent of all Project use.

Municipal water use constituted 48.40 percent of total use in 1994. The following is a breakdown of that use in acre-feet.

Phoenix	159,909
Tempe	46,101
Glendale	27,109
Mesa	51,831
Scottsdale	11,373
Chandler	21,837
Peoria	1,914
Gilbert	5,513
Subdivision and other	
Nonagricultural use	108,666

Water is apportioned by acres according to user orders. The first two acre-feet are included in the basic assessment and cost \$20.00 (1994). Each user may obtain a third acre-foot per acre-foot of stored and developed water for \$10.00. In addition, there is a delivery charge of \$42.83 per account plus 27 cents per acre.

The average "normal flow" usage is about 2 acre-feet per acre. Consequently, some accounts with older water rights (Class A) get an average of 5 acre-feet total. The users may purchase up to two acre-feet per year of pump right water depending on the extent of their right under the 1929 and/or 1948 contract. Each acre-foot is priced at \$33.00 (1994).

# **INDIAN IRRIGATION PROJECTS**



## INDIAN IRRIGATION PROJECTS

In compiling information for this publication, the Department of Water Resources did not attempt to provide detailed information on Indian irrigation projects, as they are not established pursuant to state law.

However, most reservations do have irrigated lands and some type of administration of their irrigation projects. Water administration and use of Indian lands is related to non-Indian districts and other jurisdictions within the state, especially in certain area such as the Salt River Valley, the Colorado River mainstream, and lands under the operation of the Gila River Decree (San Carlos Project).

Following is a list of Indian Reservations in Arizona and individuals to contact regarding their irrigation projects:

### RESERVATION

### CONTACT

#### AK CHIN

Ak Chin Indian Community Council  
42507 W. Peters & Nall Road  
Maricopa, AZ 85239

Farm Board  
Leona M. Kakar  
(520) 568-2227

#### COCOPAH

Cocopah Tribe  
Ave. G & Co. 15th  
Somerton, AZ 85350

Water Board  
Edmund Domingues  
(520) 627-2514

#### COLORADO RIVER

Colorado River Indian Tribes  
Route 1, Box 23-B  
Parker, AZ 85344

Water Dept.  
Stewart Eddy  
(520) 669-2121

#### FORT APACHE

White Mountain Apache Tribe  
P. O. Box 700  
Whiteriver, AZ 85941

Environmental Program  
Keith Jones  
(520) 338-4346

**RESERVATION**

**CONTACT**

**FORT MCDOWELL**

Mohave-Apache Indian Community  
P. O. Box 17779  
Fountain Hills, AZ 85269

Tribal Farm Board  
Calvin R. Pilcher  
(602) 837-2585

**FORT MOJAVE**

Fort Mojave Indian Tribe  
500 Merriman Avenue  
Needles, CA 92363

Utility Board  
Bob Lane  
(520) 768-1909

**FORT YUMA**

Fort Yuma-Quechan Tribe  
P. O. Box 11352  
Yuma, AZ 85366

Environmental Program  
Earl Haves  
(619) 572-2577

**GILA RIVER**

Gila River Indian Community  
P. O. Box 97  
Sacaton, AZ 85247

Water Resources  
Lee Thompson  
(520)562-3301

**HAVASUPAI**

Havasupai Tribal Council  
P. O. Box 10  
Supai, AZ 86435

Environmental Program  
Roland Manakaga  
(520) 448-2731

**HOPI**

Hopi Tribal Council  
P. O. Box 123  
Kykotsmovi, AZ 86039

Water Resources  
Nat Nutongla  
(520) 734-2441 ext. 611

**HUALAPAI**

Hualapai Tribe  
P. O. Box 179  
Peach Springs, AZ 86434-0179

Water Resources  
Annette Morgon  
(520) 769-2255

**KAIBAB**

Kaibab-Paiute Tribe  
HC 65 Box 2  
Fredonia, AZ 86022

Environmental Program  
Jaime Rogers  
(520) 643-7214

**NAVAJO**

Navajo Nation  
P. O. Box 564  
Ft. DeFiance, AZ 86504

Water Management Branch  
Elmer Wilford  
(520) 871-7160

**RESERVATION**

**CONTACT**

**PASCUA YAQUI**

Pascua Yaqui Tribe  
7474 S. Camino DeOeste  
Tucson, AZ 85746

Tribal Manager  
Jose Solarez  
(520) 883-5000 ext. 5086

**SALT RIVER**

Salt River Pima-Maricopa  
Indian Community  
Route 1, Box 216  
Scottsdale, AZ 85256

Public Works  
Burnett Gates  
(602) 874-8260

**SAN CARLOS**

San Carlos Apache Tribe  
P. O. Box "O"  
San Carlos, AZ 85550

Utility Authority  
Jeffrey Porter  
(520) 475-2307

**SAN JUAN**

San Juan Southern Paiute Tribe  
P.O. Box 1989  
Tuba City, AZ 86045

Water Rights  
Johnny M. Lehi, Sr.  
(520) 283-4109

**SAN XAVIER**

The Tohono O'odham Tribe  
P. O. Box 837  
Sells, AZ 85634

Water Resources  
Cliff Pablo  
(520) 295-3734

**TOHONO O'ODHAM**

The Tohono O'odham Tribe  
P. O. Box 837  
Sells, AZ 85634

Water Resources  
Peter Ruiz  
(520) 383-2221 ext. 478

**TONTO APACHE**

Tonto Apache Tribe  
#30 Tonto Apache Reservation  
Payson, AZ 85541

Water Resources  
Ivan Smith  
(520) 474-5000

**YAVAPAI-PRESCOTT**

Yavapai-Prescott Indian Tribe  
530 E. Merritt  
Prescott, AZ 86301

Water Resources  
Steven Brown  
(520) 445-8790



# **WATER DECREES**



## WATER DECREES

Controversy concerning relative rights of Arizona, California and other parties in waters of the Colorado River culminated before the U.S. Supreme Court in the litigation of Arizona vs. California beginning in 1953 and ending with a decision on June 3, 1963. The final decree was entered on March 9, 1964 (376 U.S. 340). The provisions of that decree are not reviewed herein, as they dealt principally with interstate rather than in-state issues of water allocation.

Four decrees which did serve to adjudicate water rights within the State of Arizona, and which in the process consolidated two earlier decrees, are reviewed briefly in this section. Persons interested in further details of the provisions of those decrees or their administration should consult the written decrees as cited, or contact the respective Water Commissioners appointed to carry out their provisions. Names and addresses of the Commissioners are available at the Arizona Department of Water Resources office or at the United States Courthouse in Tucson (Gila River or Globe Equity No. 59 Decree), the Apache County Courthouse in St. Johns (Norviel Decree), or the Maricopa County Courthouse in Phoenix (Kent or Benson-Allison Decree).

### KENT DECREE

Water rights in the Salt and Verde River system were adjudicated in a Decision and Decree (No. 4564) presented by Judge Edward Kent on March 1, 1910 and effectuated April 1, 1910. The causal action<sup>6</sup> was instituted in 1905 in the District Court of the Third Judicial District of the Territory of Arizona, in and for the County of Maricopa.

The purpose of the suit, as stated in the Decision, was "...to obtain a judicial determination and definition of the rights of the various parcels of lands and the owners thereof under the various parcels of land and the owners thereof under the various canals...in and to the use of the water flowing in the Salt and Verde Rivers". Such rights, dating from 1869 through 1909, were adjudicated in the Kent Decree.

1. The Decision and Decree took into account the history of non-Indian irrigation in the Salt River Valley, beginning in 1869, as well as the several actions previously taken, and incorporated findings of fact and other instruments including the Wormser Decree of 1892.<sup>7</sup> The effect of the Kent Decree was (1) to define rights to "normal flow" of the Salt-Verde River system as well as stored water, and (2) to determine the relative water rights, in terms of priority and quantity, of each parcel of land to which the rights appertained.

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<sup>6</sup> Patrick T. Hurley (and the United States of America, Intervenor) v. Charles F. Abbott and Four Thousand Eight Hundred Others.

<sup>7</sup> Emanating from M. Wormser and others v. The Salt River Valley Canal Company and others, 1887.

In the year 1910, after some four decades of continuous irrigation in the valley, the stage was set for such determination. In 1903, the Salt River Valley Water Users' Association had been formed, uniting some 4,800 landowners who would be enabled by government contract to receive stored water from system reservoirs; in 1908, a permanent diversion dam had been completed at Granite Reef; and Roosevelt Dam, designed for storage capacity of 1,300,000 acre-feet of water, in 1910 was in its eighth and final year of construction.

The Kent Decree adopted usage of the following terms:

"Normal flow of the river" - The flow of water in the river at its varying stages available for appropriation. (The maximum normal flow is the total amount to be diverted from the river for the cultivation of all the parcels of land to which water has been appropriated).

"Flood water" - Water flowing in the river over and above the maximum normal flow.

"Surplus water" - The flow of the river, both normal and flood, not needed or used.

"Stored water" - The water impounded in the Roosevelt reservoir.

The duty of water to be distributed for beneficial use on the lands was established tentatively as 48 miner's inches constant flow per quarter section of land, measured at the land. (Equivalent to one miner's inch for each 3-1/3 acres of irrigated land, or one cubic foot per second for each 133 acres). Where measurement is not made at the delivery point of the quarter section, an allowance for conveyance loss was made in the additional amount of one percent of the diverted flow per mile of main canal above the land.

Lands under the Decree were classified, according to their history of continuous use, intermittent or discontinued use, or non-use, as Class A, B, or C lands. Provision was made for the equitable use of stored water and flood water on the several classes of land, and the preferential distribution of normal flow of the river, under varying rates of flow, to discrete acreages of Class A and B land was set out and determined according to their respective dates of priority.

For use by Indians of the Salt River Reservation, 700 miner's inches was allocated, ahead of all other users and regardless of river stage; a lesser quantity of use on the Fort McDowell Indian Reservation along the Verde River was continued by the Decree.

## BENSON-ALLISON DECREE

The Benson-Allison<sup>8</sup> Decree (No. 7589) was entered by Judge R. C. Stanford in the Superior Court of Maricopa County on November 14, 1917. This Decree awarded rights to certain landowners, to divert and beneficially use on their lands certain quantities of water flowing in the Salt, Agua Fria, and Gila Rivers, according to relative priorities of appropriation. The dates of appropriation ranged from 1883 to 1915.

A Supplemental Decree was issued on December 3, 1918, which incorporated into the Benson-Allison Decree a table showing, in miner's inches year by year, the total amount of water to which lands under the several canals were entitled (at 48 miner's inches per quarter section plus losses), as well as a table of acreages showing the first year of cultivation, the acreage for that year, and the cumulative acreage by years from 1883 up to and including 1915.

A standard duty of water for irrigation of lands under the decrees was defined as 48 miner's inches constant flow per quarter section of land, measured at the farm delivery point. Where not measured at the farm, water diversion was to be increased 1.5% for each mile of length of diversion canal from its head to the farm delivery point, to allow for losses by seepage and evaporation during conveyance.

An Amendment of the Decree, dated November 13, 1919, changed the standard duty of water to 80 miner's inches, and further provided that this could be increased proportionately among the decreed lands whenever surplus water may be available, not to exceed, however, 120 miner's inches per quarter section or such amount as could be beneficially applied to the land.

The original Decree also included a priority schedule of lands, including 1,080 acres of Indian lands, previously awarded water rights under the Haggard Decree<sup>9</sup>(June 11, 1903). Also shown as part of the Decree was a tabulation of land descriptions and owners receiving gravity water and pump water on the Agua Fria River, and lands under pumping plants.

## NORVIEL DECREE

Water rights in the Little Colorado River and its branches and tributaries were adjudicated by the "Norviel Decree", entered in the Apache County Superior Court, State of Arizona, and dated April 20, 1918.

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<sup>8</sup> The United States, Guardian, etc. v. N.W. Haggard et al.

The complaint in the case<sup>9</sup> which gave rise to this Decree was filed March 24, 1904, in the Fourth Judicial District Court, Territory of Arizona, and evidence was heard by W. S. Norviel, Commissioner of that Court, in the summer of 1906. A stipulated decree in a case involving many of the same parties was entered on June 20, 1914, and this along with other evidence was consolidated in the Norviel Decree of 1918.

The Norviel Decree set out twelve points in all. The first listed in priority the lands (and their owners and dates of appropriation) having rights to irrigation water from the Little Colorado River and tributaries. Thirty such rights were listed, having dates ranging from 1872 to 1906. Also listed were seven rights on Nutrioso Creek in Round Valley, having priority dates ranging from 1876 to 1888.

The second point provided for a Water Commissioner, established an irrigation season, and stated general rules regarding distribution of waters. The third, fourth and fifth points set priorities and criteria for the filling of storage reservoirs, and established diversion rates for natural flow of the Little Colorado River and its tributaries.

The sixth, eight and ninth points dealt with the powers and duties of the Water Commissioner and the administration of the Decree. The seventh and tenth points provided that proper diversion structures and measuring points and facilities be maintained. The eleventh point made allowance for the inferior quality of water from Salado Springs. The twelfth and final point continued to decreed rights to the successors and assignees of the parties.

On March 17, 1921, an Order was made modifying the Decree in terms of certain land and ownership descriptions; and on the same date a Supplemental Decree was entered on behalf of the Lyman Water Company. Finally, a Judgment was brought forth on April 3, 1923, affirming the findings of W.S. Norviel, Water Commissioner for the State of Arizona, in the matter of the determination of the relative rights of the waters of the Upper Little Colorado River and its tributaries.

## GILA RIVER DECREE

Water rights in and along the Gila River, from New Mexico to near the Salt-Gila River confluence, were adjudicated in the Gila River Decree, Globe Equity No. 59 in the District Court of the United States in and for the District of Arizona. The Decree was entered June 29, 1935, in the case of The United States of America v. Gila Valley Irrigation District, et. al.

This Decree set out a Schedule of Priority for users of water from the Gila River, principally for lands located in the Duncan and Safford Valleys of eastern Arizona, the San Carlos Project in Pinal County, and adjoining areas. The senior priority date was given as "Immemorial" for 35,000 acres of land in the Gila River Indian

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<sup>9</sup> The St. Johns Irrigation Company and the Meadow Reservoir Irrigation Company, Corporations, et al., v. Round Valley Water Storage and Ditch Company, Eagar Irrigation Company, Springerville Water Right and Ditch Company, Corporations, et al.

Reservation; an 1846 priority was granted for 1,000 acres of land in the San Carlos Indian Reservation; and a range of 1868 to 1929 dates of priority were set for various other lands for which rights were acquired, including a 1924 priority for 100,546 acres of land in the San Carlos Project.

Provision was made for diversion of natural flow of the stream, under the priority schedule, such that the total amount of diverted water not exceed 6 acre-feet per acre of land during each irrigation season, and such that the rate of diversion in cubic feet per second generally not exceed  $1/80$  times the number of acres. (Or, one miner's inch for each two acres).

The United States, on behalf of the San Carlos Irrigation Project, was granted the right also to store waters of the Gila River in the San Carlos Reservoir at times when such waters are available above Coolidge Dam, for release and use of the 100,546 acres of lands downstream. The stored and pumped waters of the project are to be shared equally among the users, and a method of apportionment of the stored water was set out.

It was decreed finally that a Water Commissioner be appointed by the Court to carry out and enforce the provisions of the Decree. Annual reports on the Water Commissioner's actions in the operation of the Decree, including complete data on water apportionments and diversions, are submitted to the United States District Court.

The office of the Gila Water Commissioner is located in Phoenix, Arizona. Inquiries can be made by calling or writing:

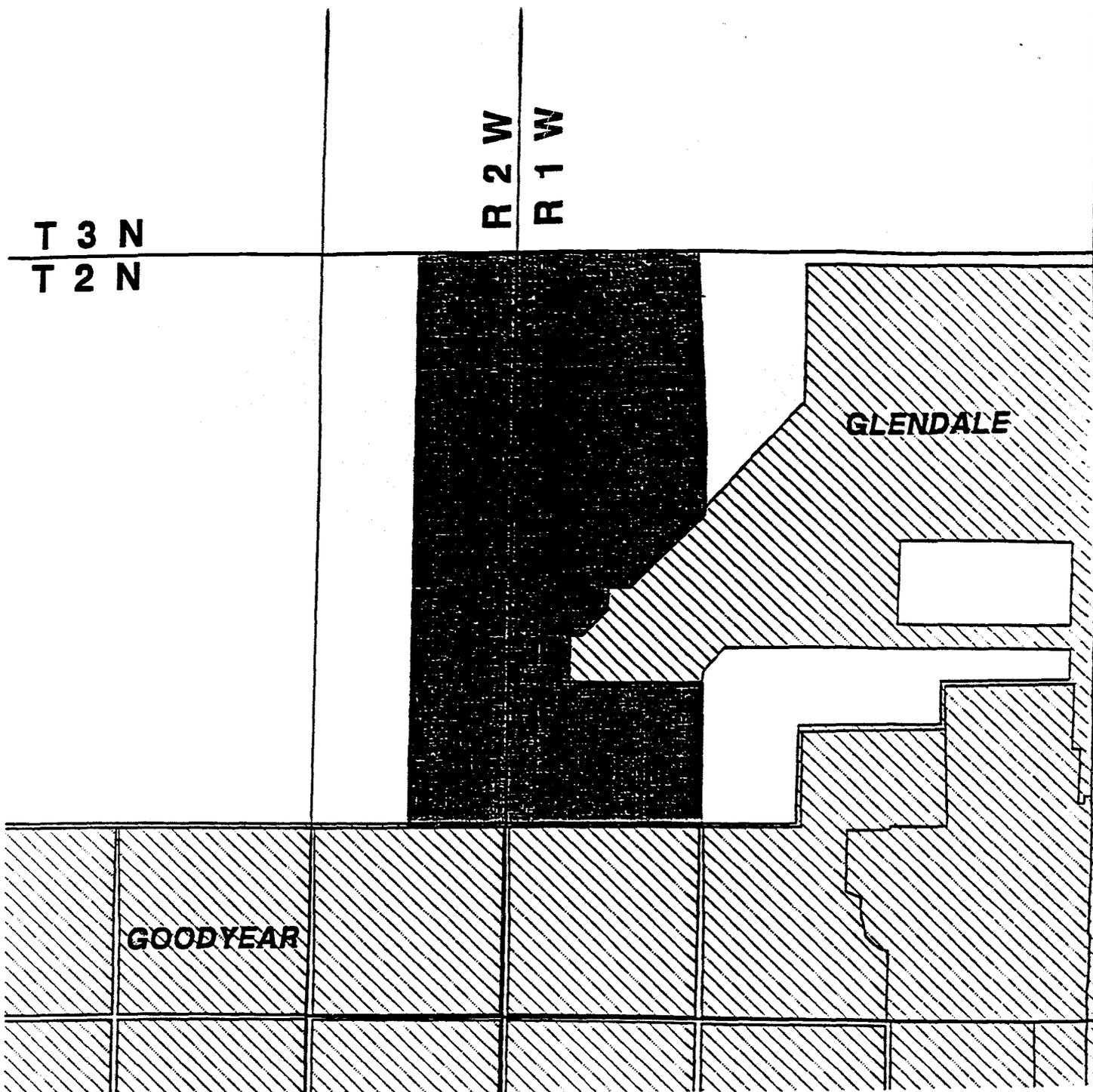
Don Weesner  
Gila Water Commissioner  
2338 E. Cheryl Drive  
Phoenix, Arizona 85028  
(602) 867-1074



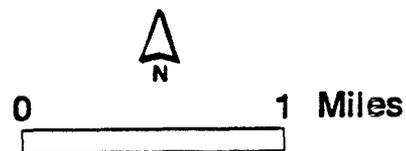
# **APPENDIX A**

## **IRRIGATION DISTRICTS LOCATION AND BOUNDARY MAPS**

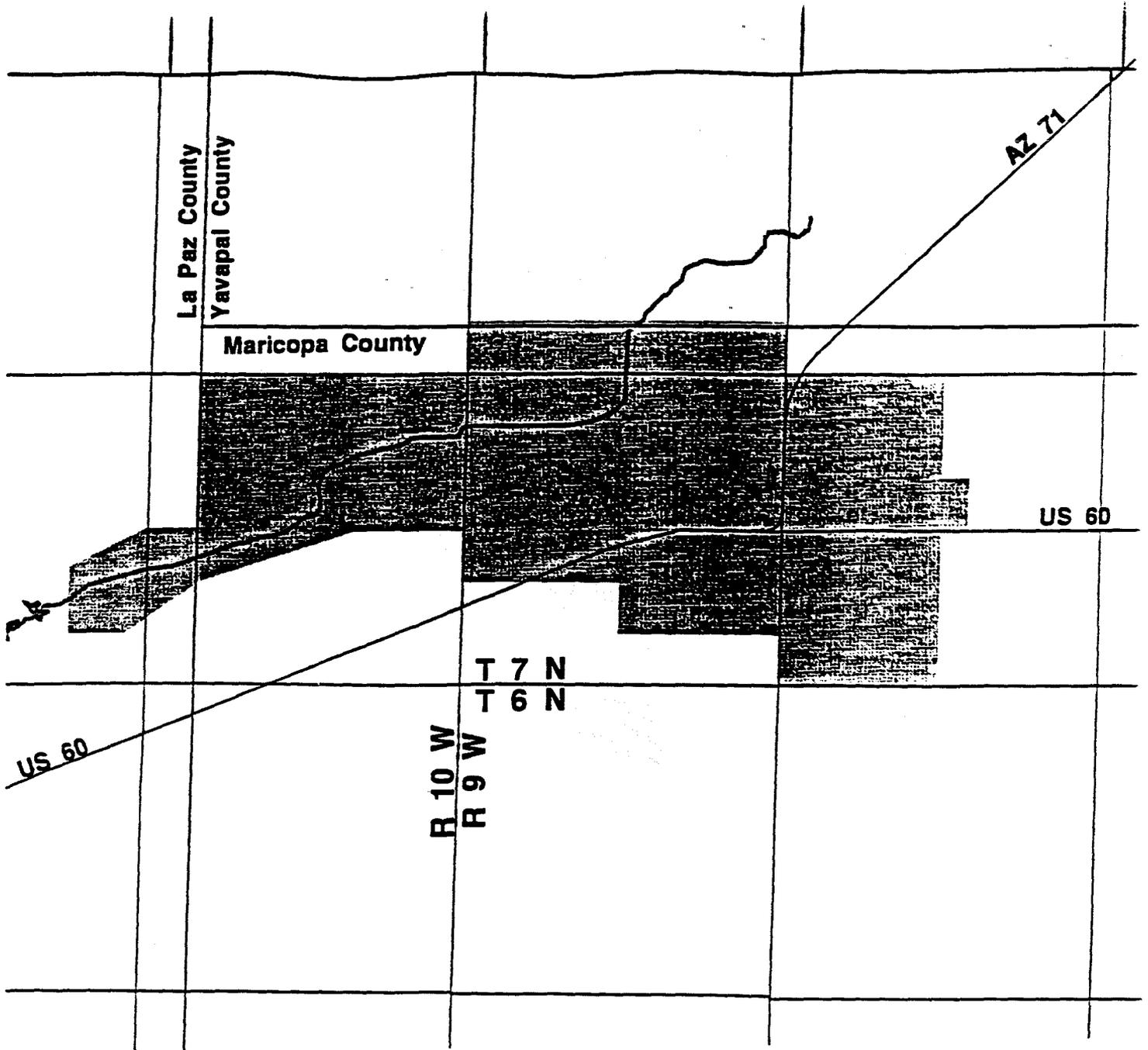




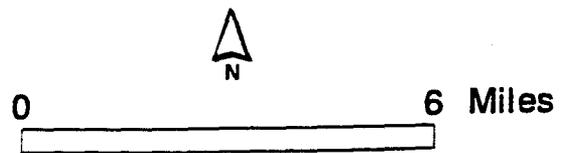
-  Major Roads
-  Townships and Ranges
-  Urban Land
-  Outside
-  Cities
-  Adaman IWDD #36



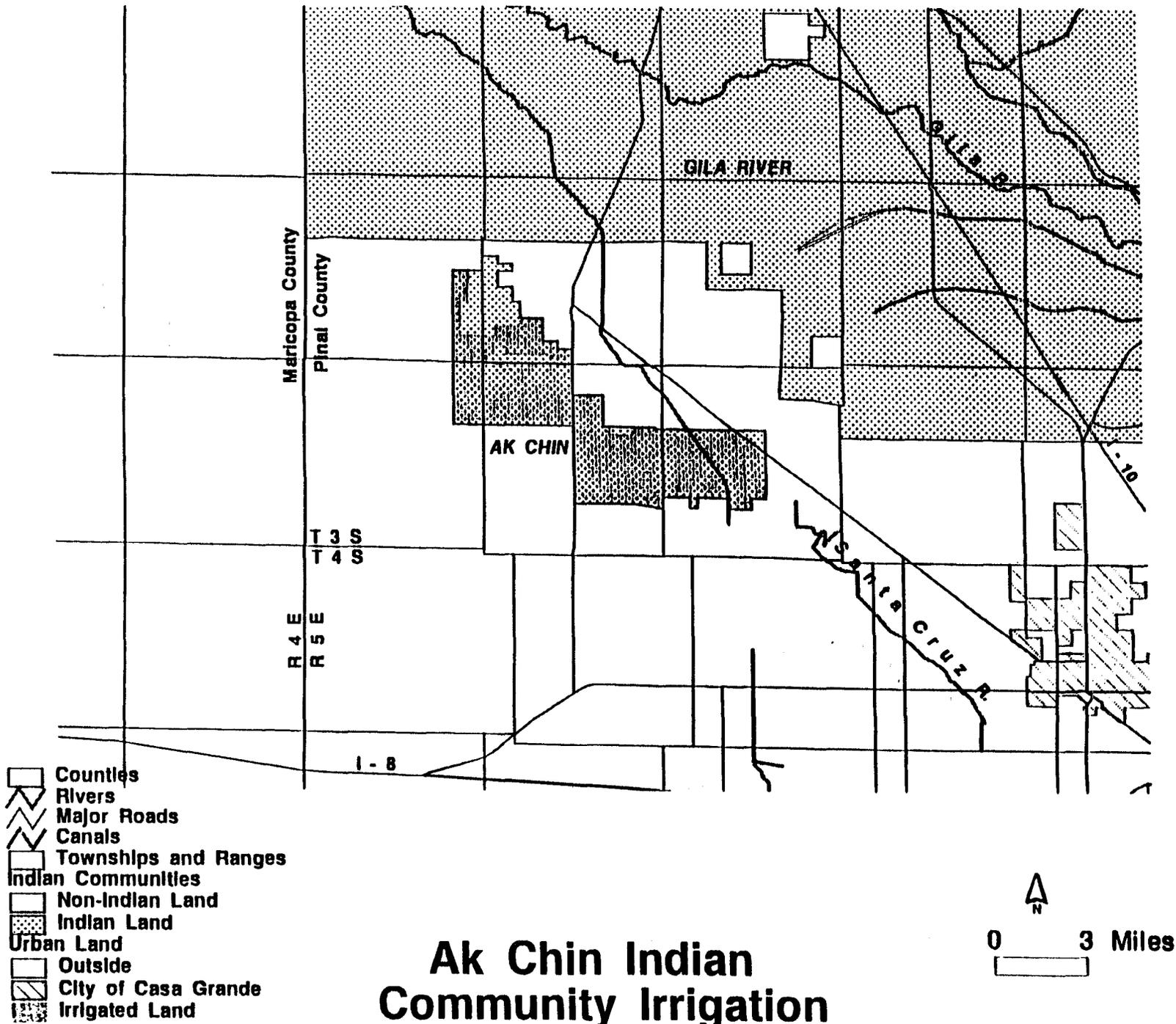
## Adaman Irrigation and Water Delivery District #36



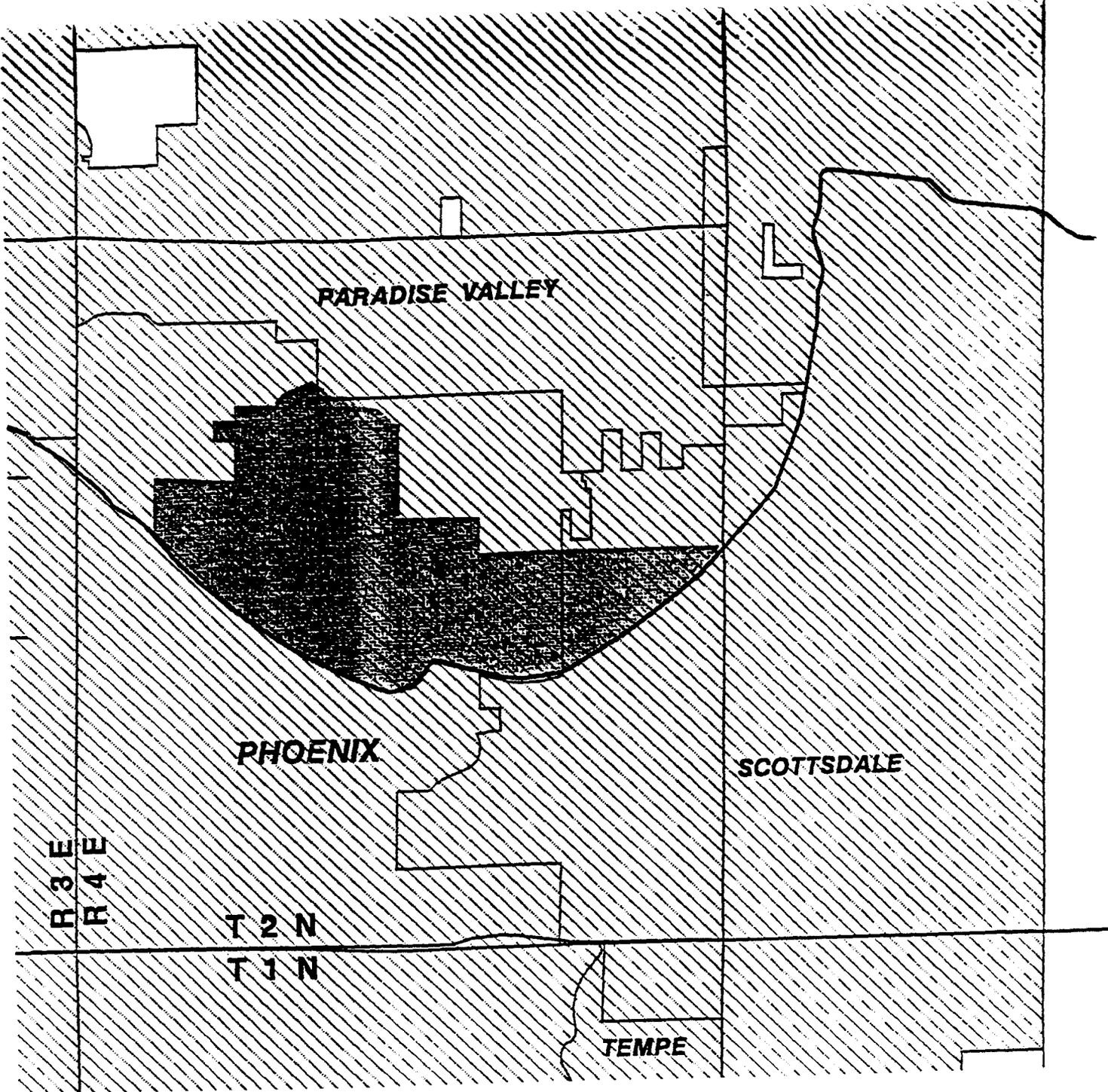
-  Counties
-  Centennial Wash
-  Major Roads
-  Townships and Ranges
-  Aguilera Irrigation District



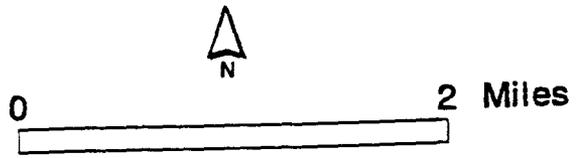
## Aguilera Irrigation District



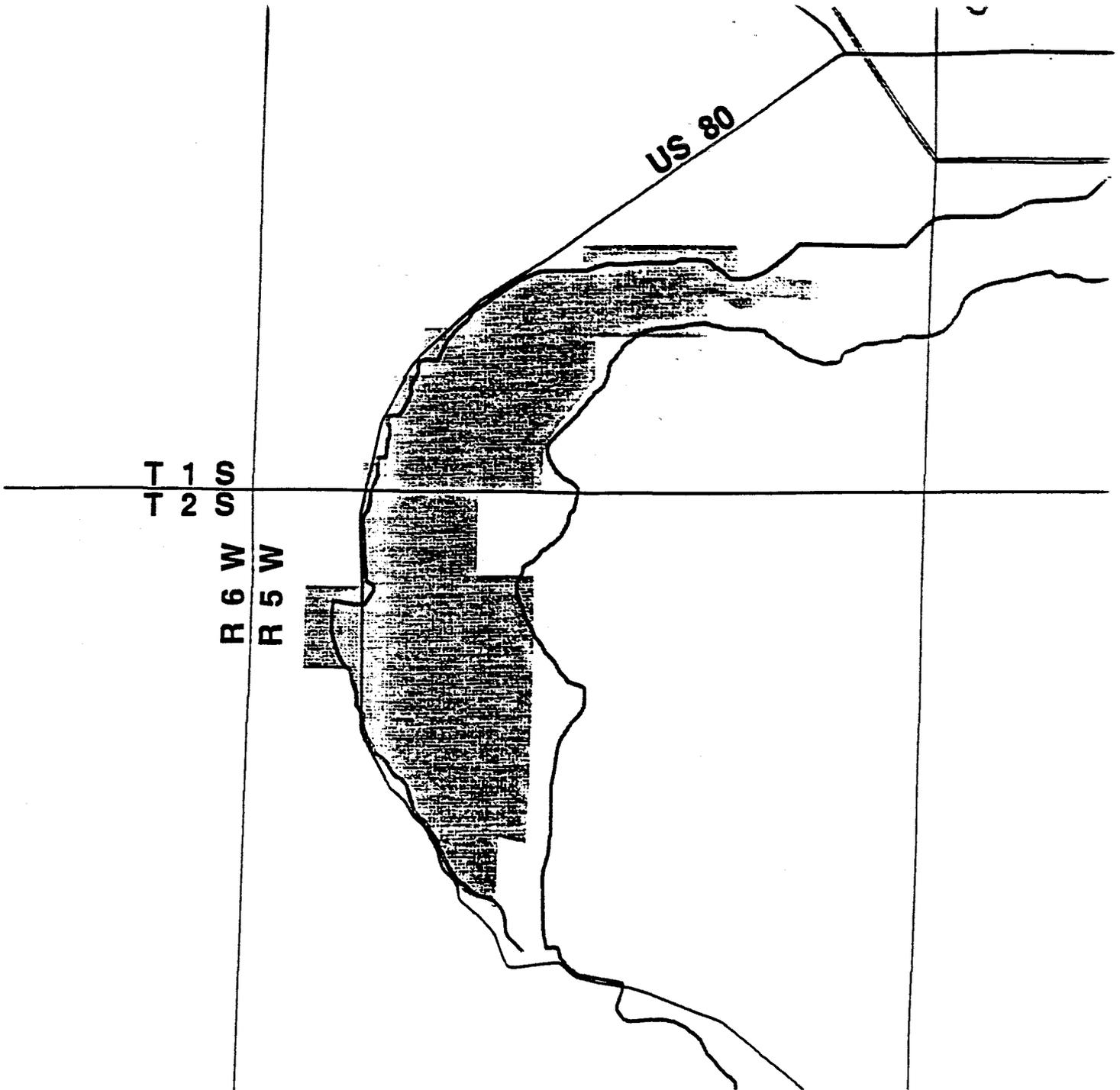
# Ak Chin Indian Community Irrigation



- Streets
- Arizona Canal
- Townships and Ranges
- Urban Land
- Outside
- Cities
- Arcadia WC



# Arcadia Water Company

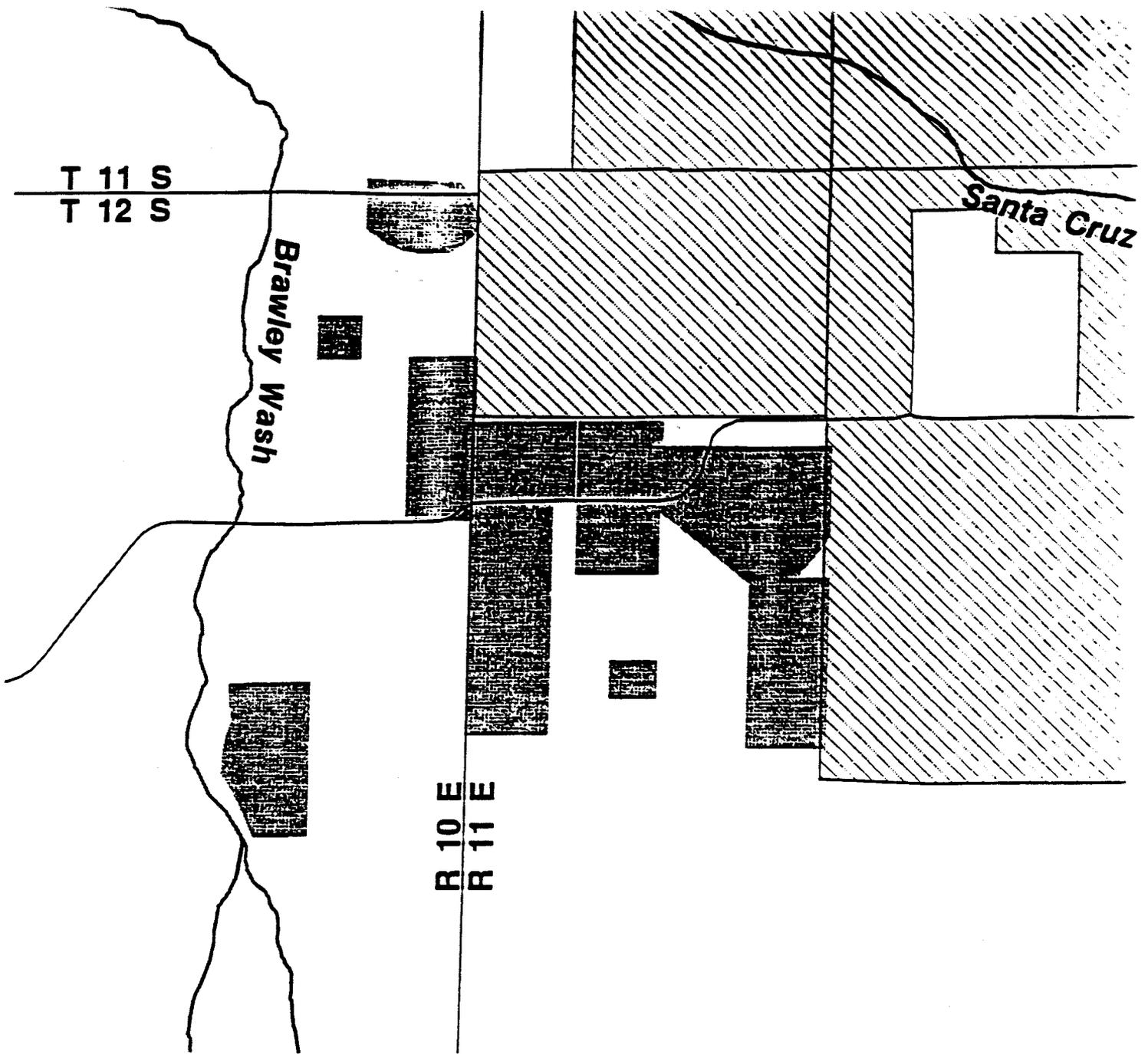


-  Gila River
-  Major Roads
-  Canals
-  Townships and Ranges
-  Urban Land
-  Outside
-  Cities
-  Arlington CC



0  3 Miles

# Arlington Canal Company

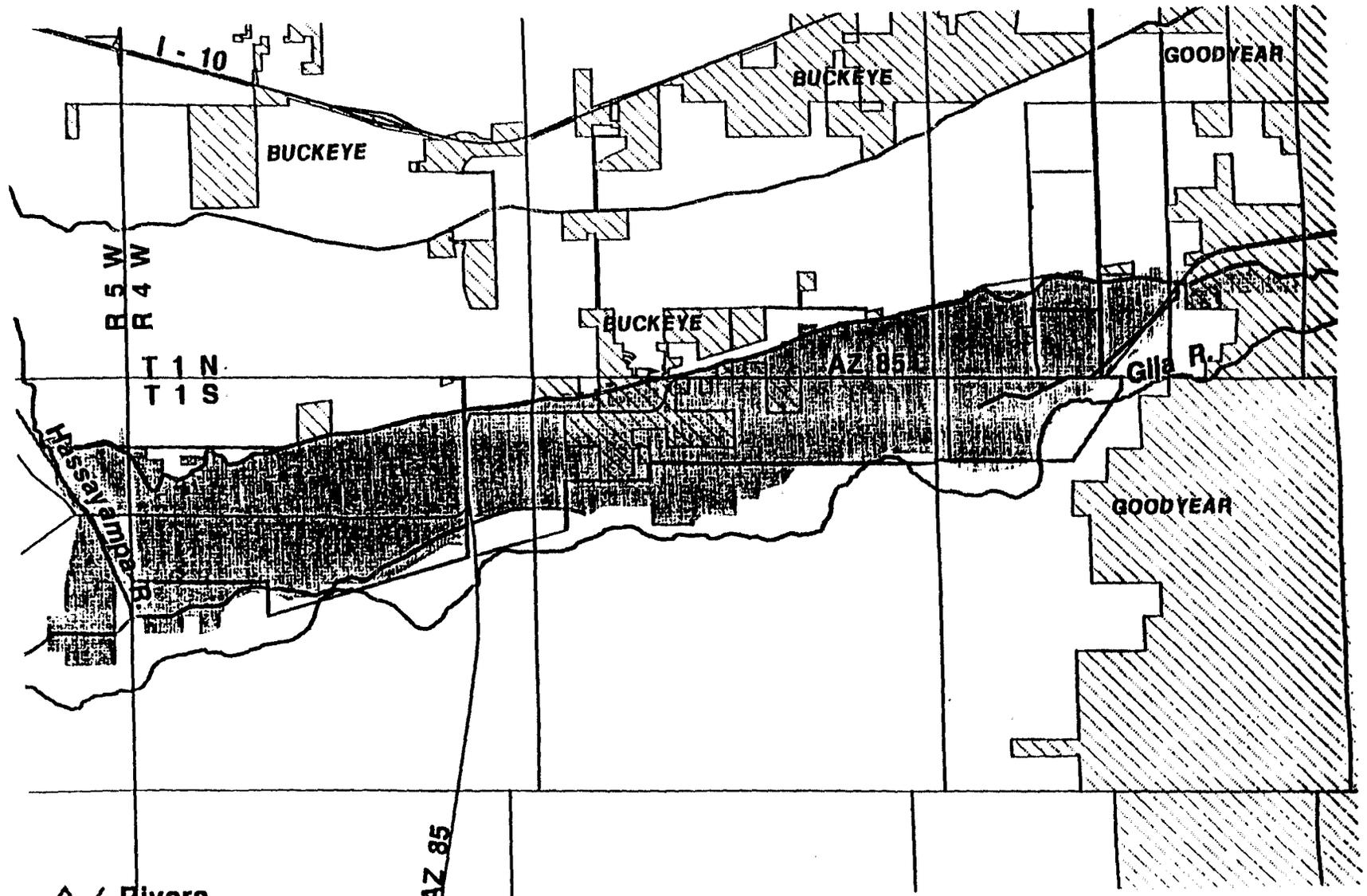


-  Major Rivers
-  Major Roads
-  Townships and Ranges
-  Urban Land
-  City of Marana
-  Outside
-  Avra Valley ID



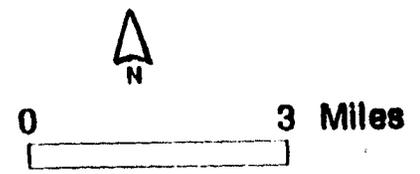
## Avra Valley Irrigation District

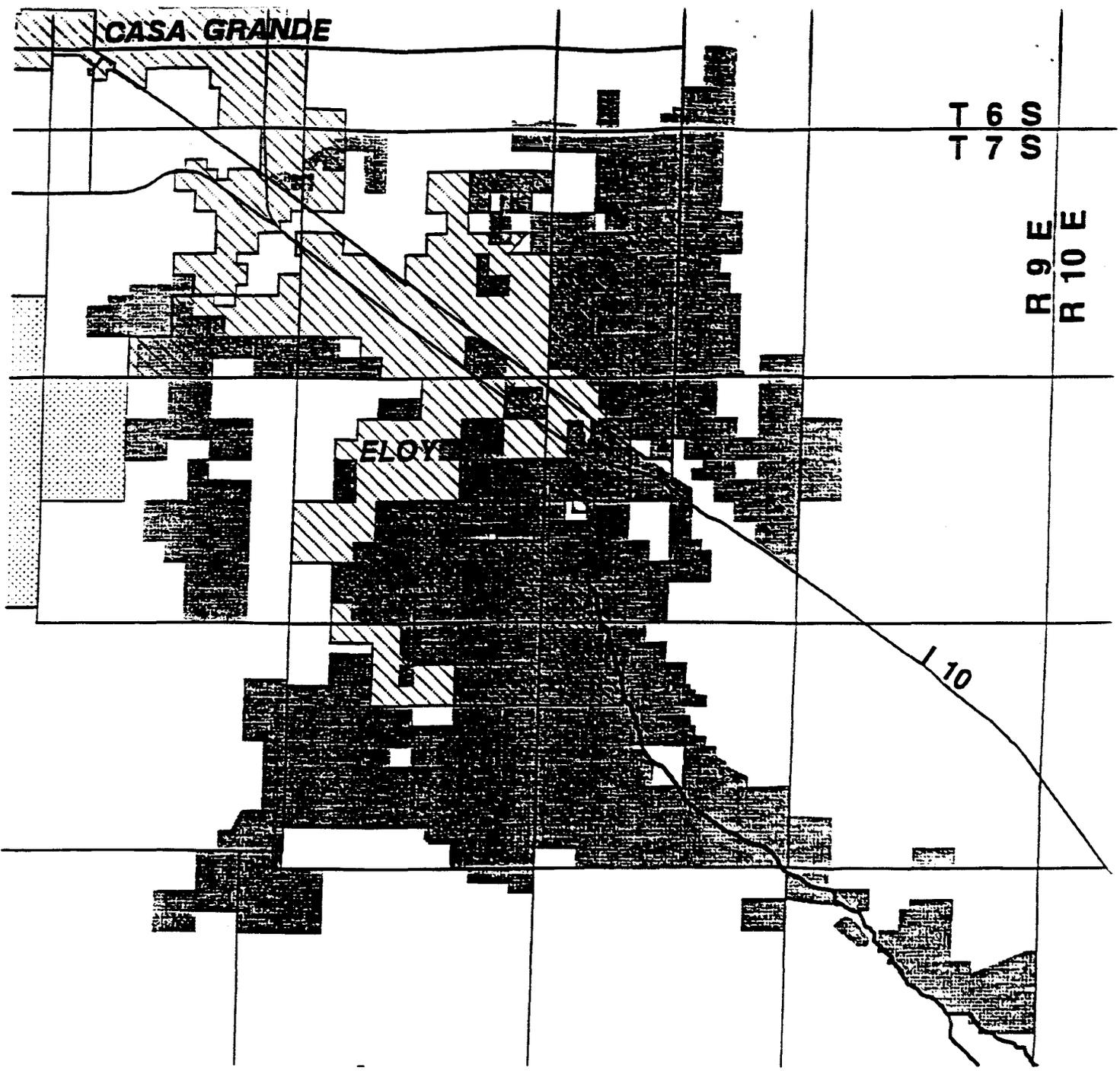
A-7



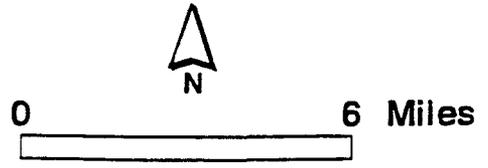
- Rivers
- Major Roads
- Canals
- Townships and Ranges
- Urban Land
- Outside
- Cities
- Buckeye WCDD

### Buckeye Water Conservation and Drainage District



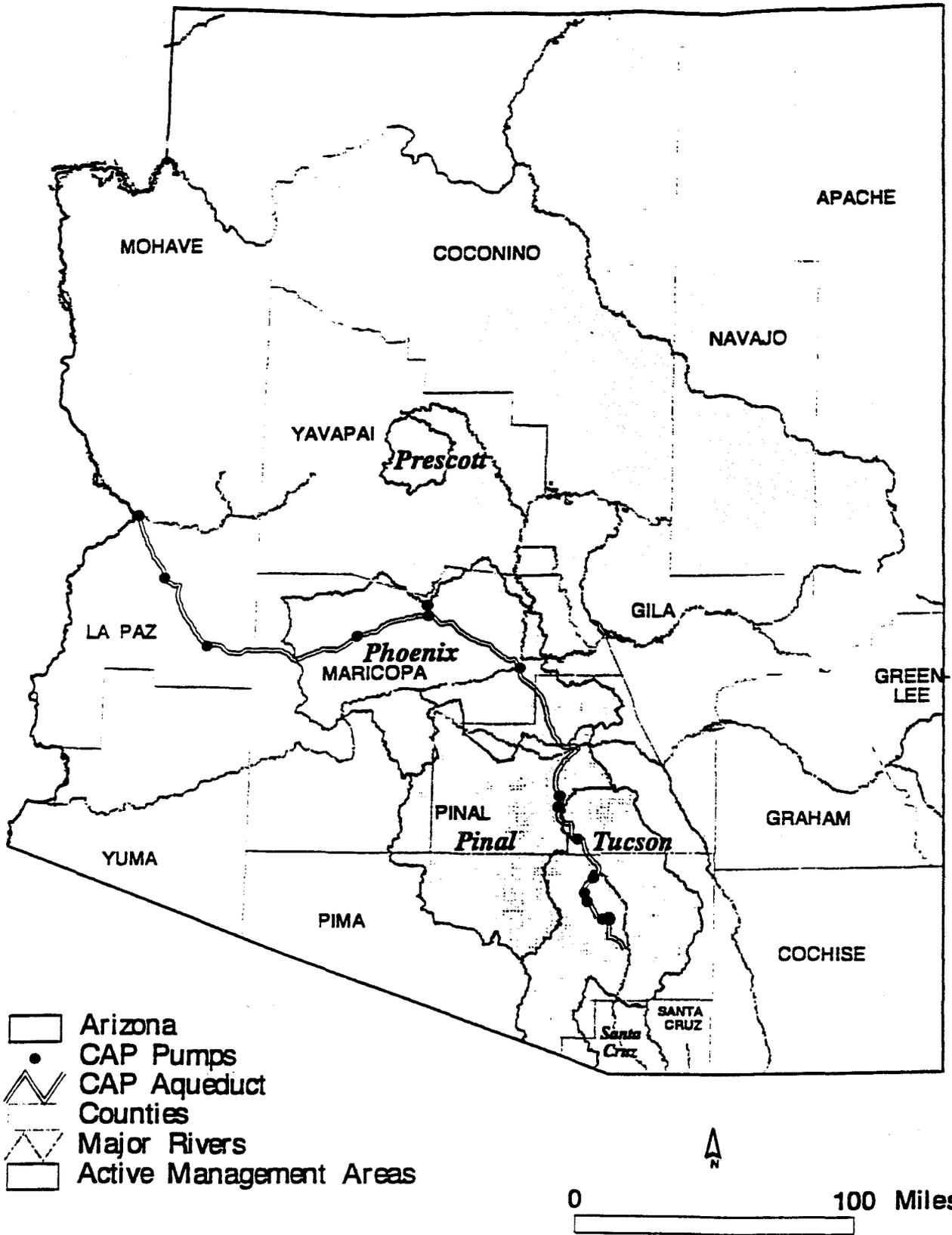


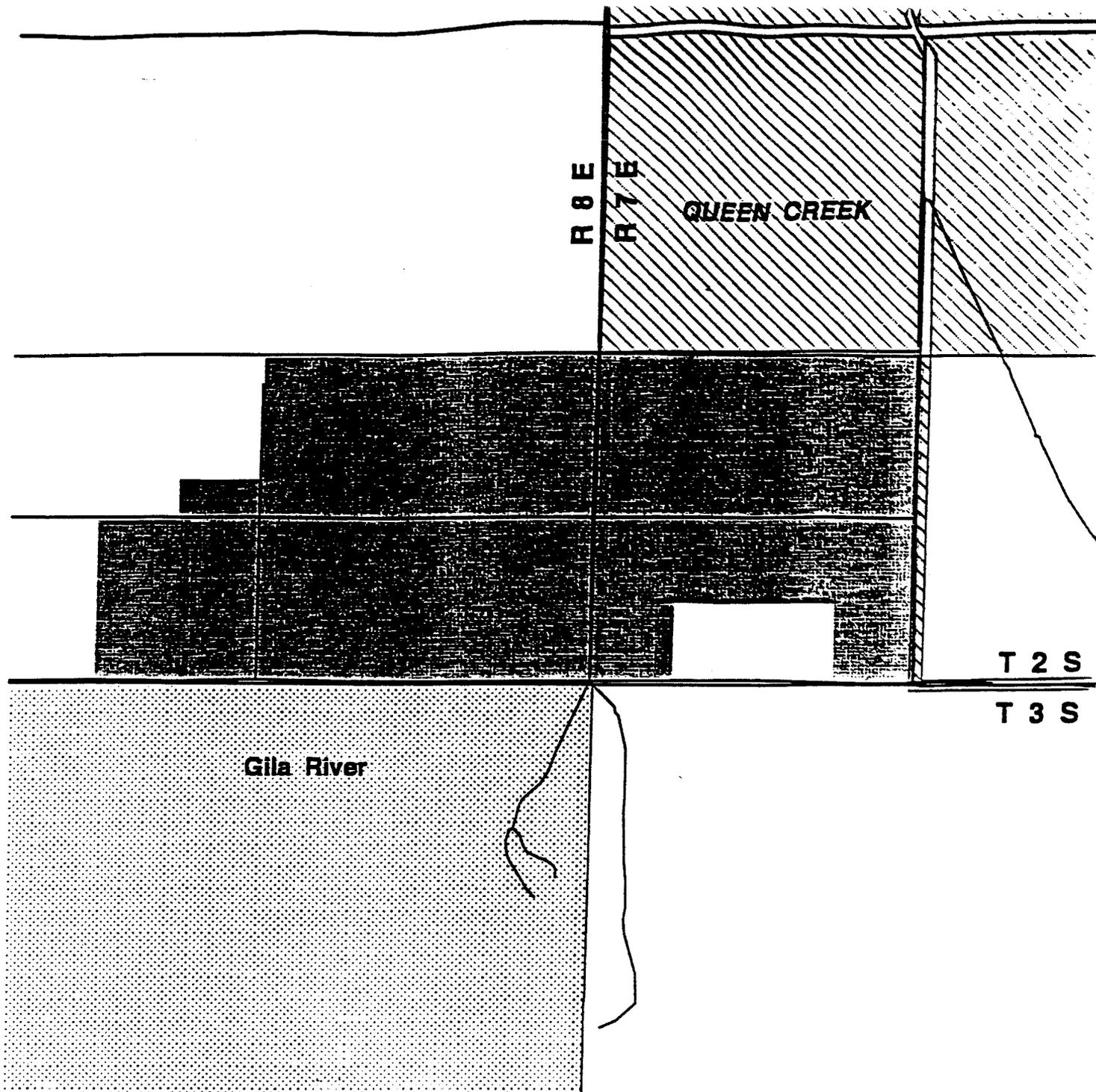
-  Santa Cruz River
-  Major Roads
-  Townships and Ranges
-  Gila River Indian Comm.
-  Urban Land
-  Outside
-  Cities
-  Central Arizona IDD
-  Non-CAIDD Land
-  CAIDD Land



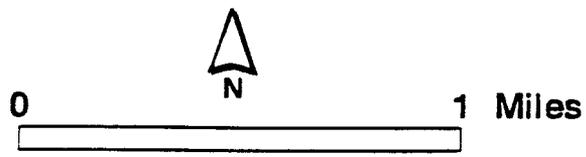
## Central Arizona Irrigation and Drainage District

# Central Arizona Water Conservation District

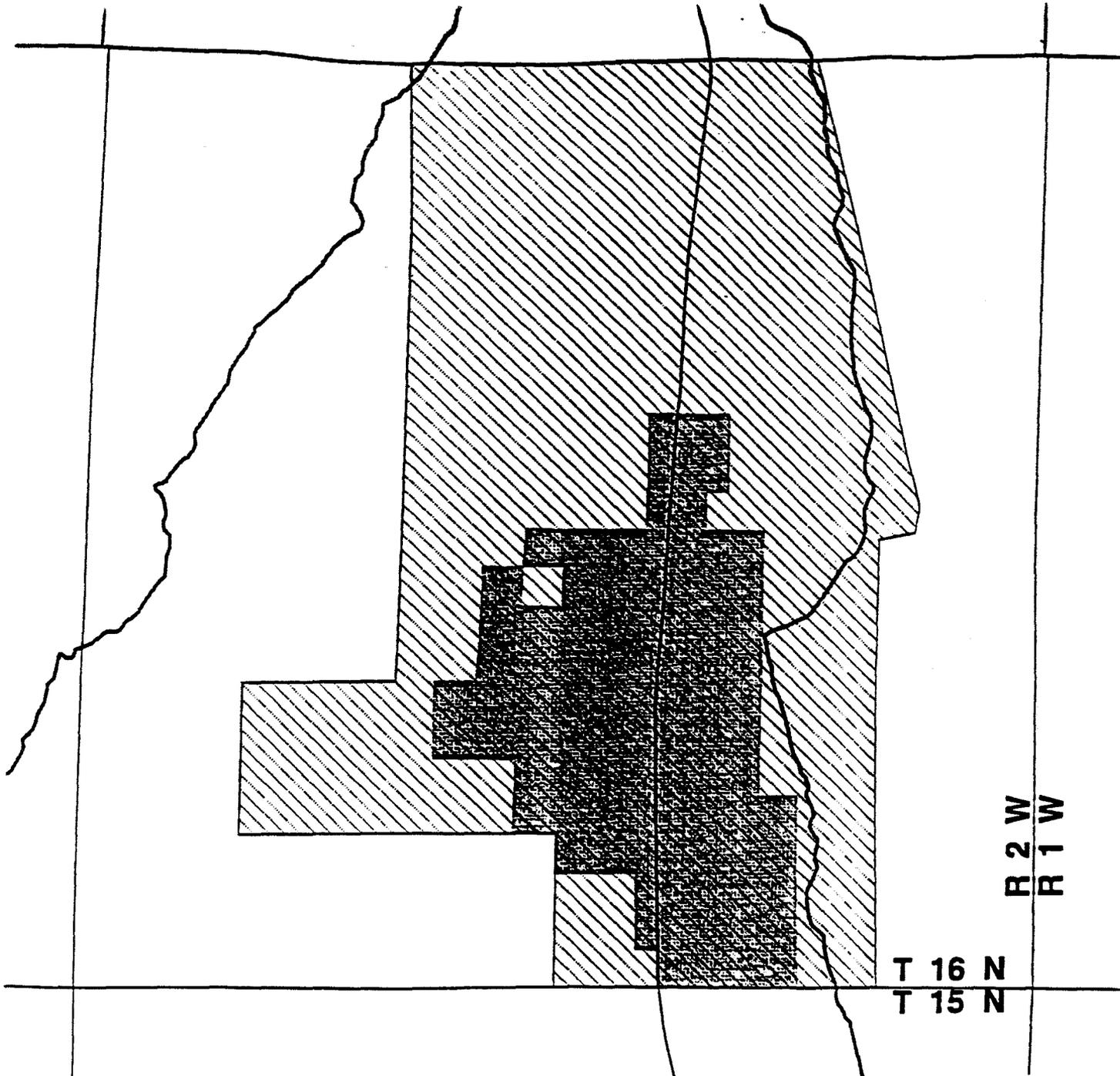




-  Maricopa - Pinal County Line
-  Streets
-  Townships and Ranges
-  Indian Communities
-  Urban Land
-  Outside
-  Cities
-  Chandler Heights Citrus ID



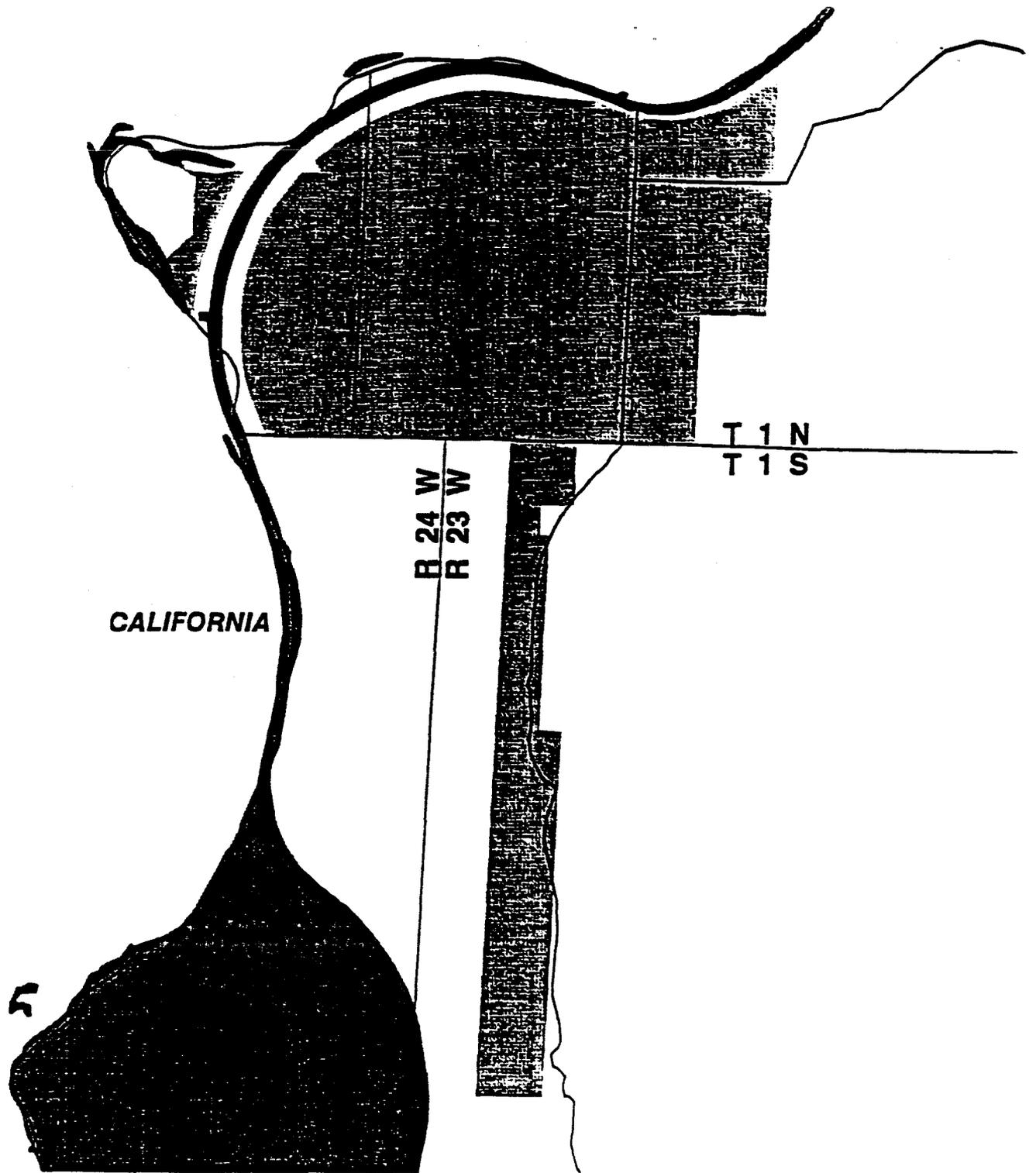
## Chandler Heights Citrus Irrigation District



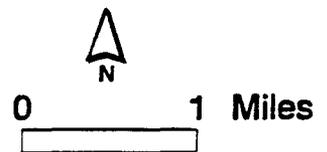
-  Rivers and Streams
-  US Route 89
-  Townships and Ranges
-  City of Chino Valley
-  Chino Valley ID
-  CVID Land
-  Non-CVID Land



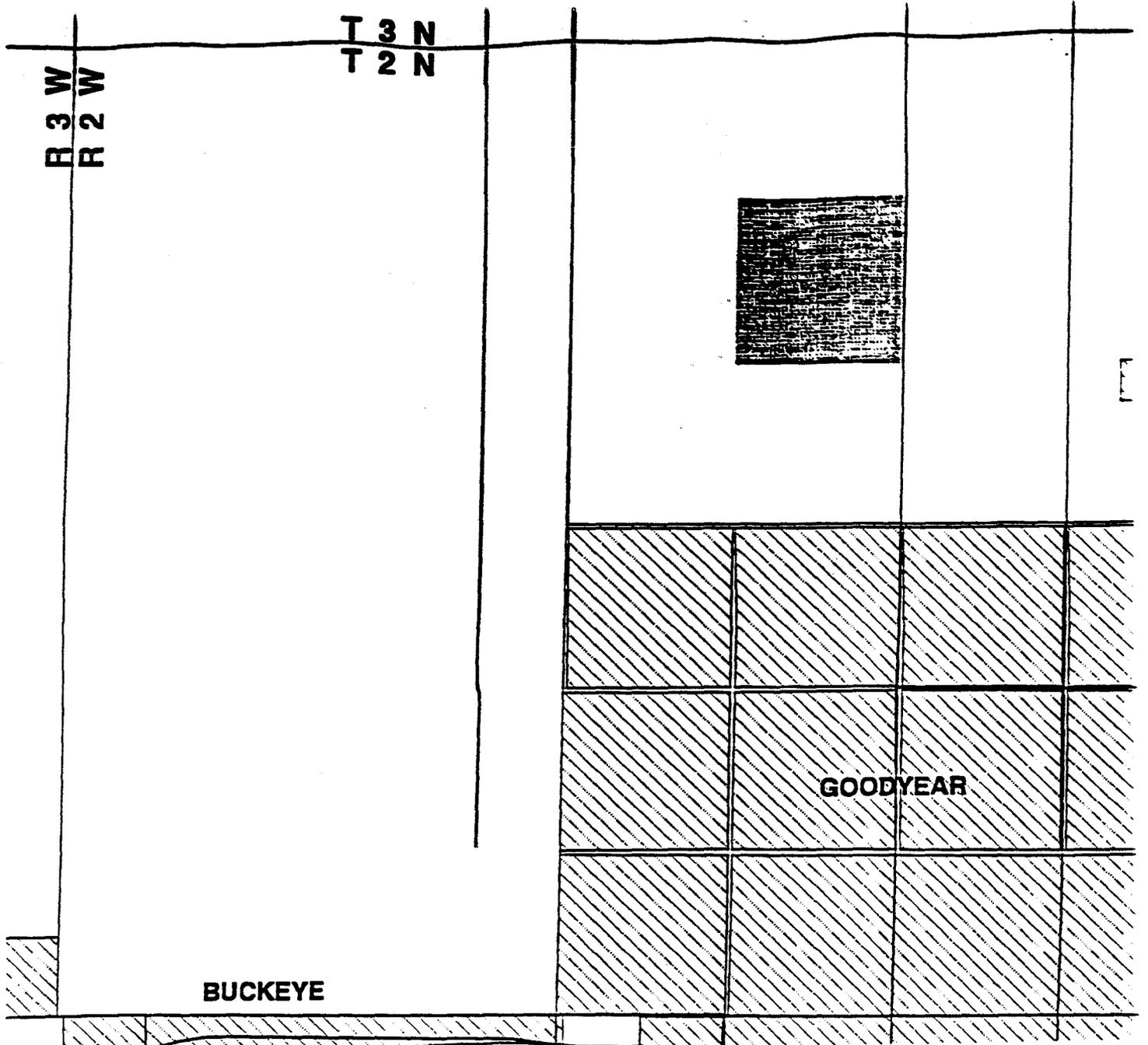
## Chino Valley Irrigation District



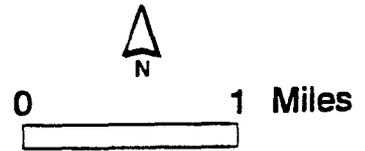
-  State Line
-  Colorado River
-  Major Roads
-  Townships and Ranges
-  Cibola Valley IDD



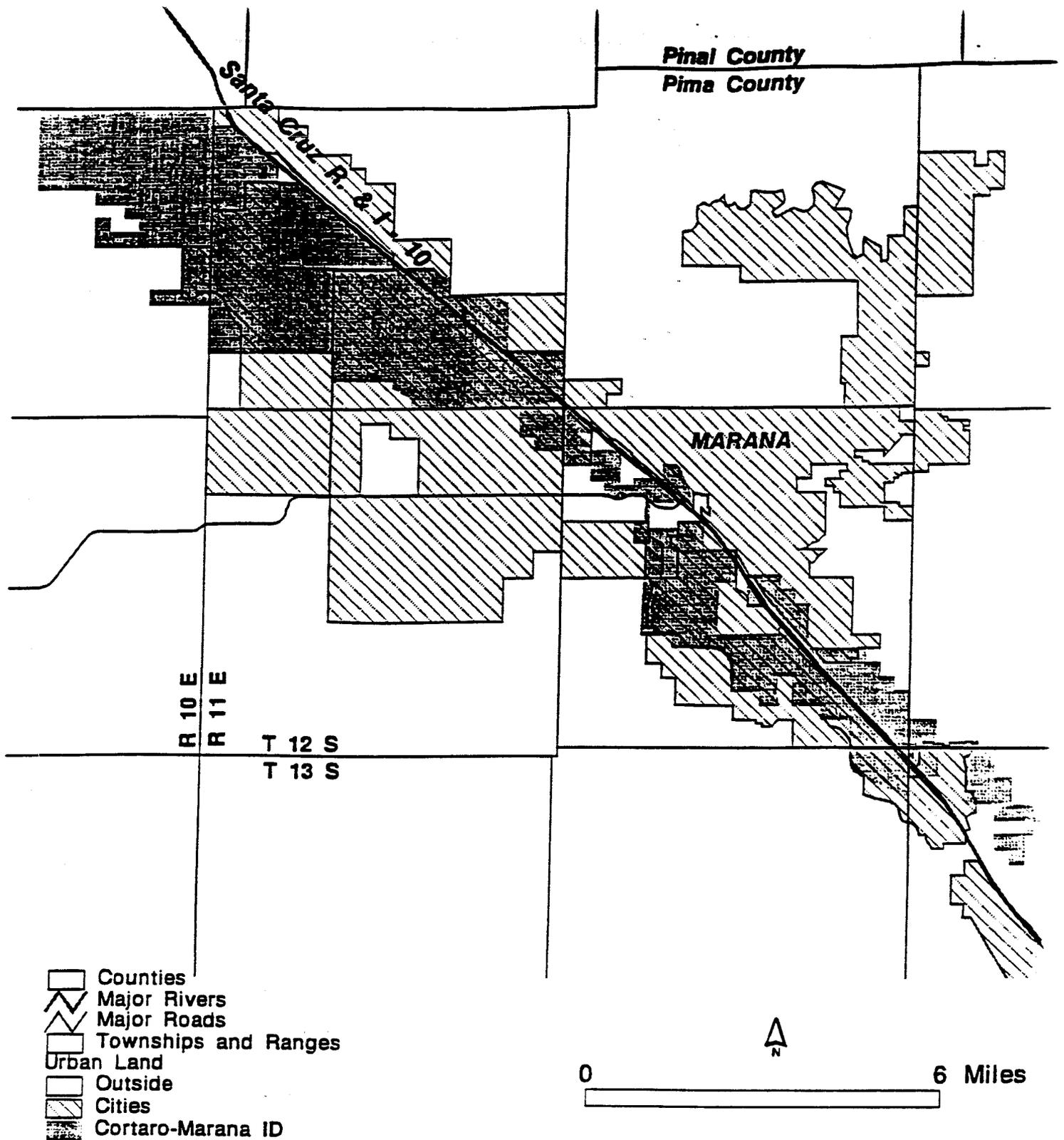
# Cibola Valley Irrigation and Drainage District



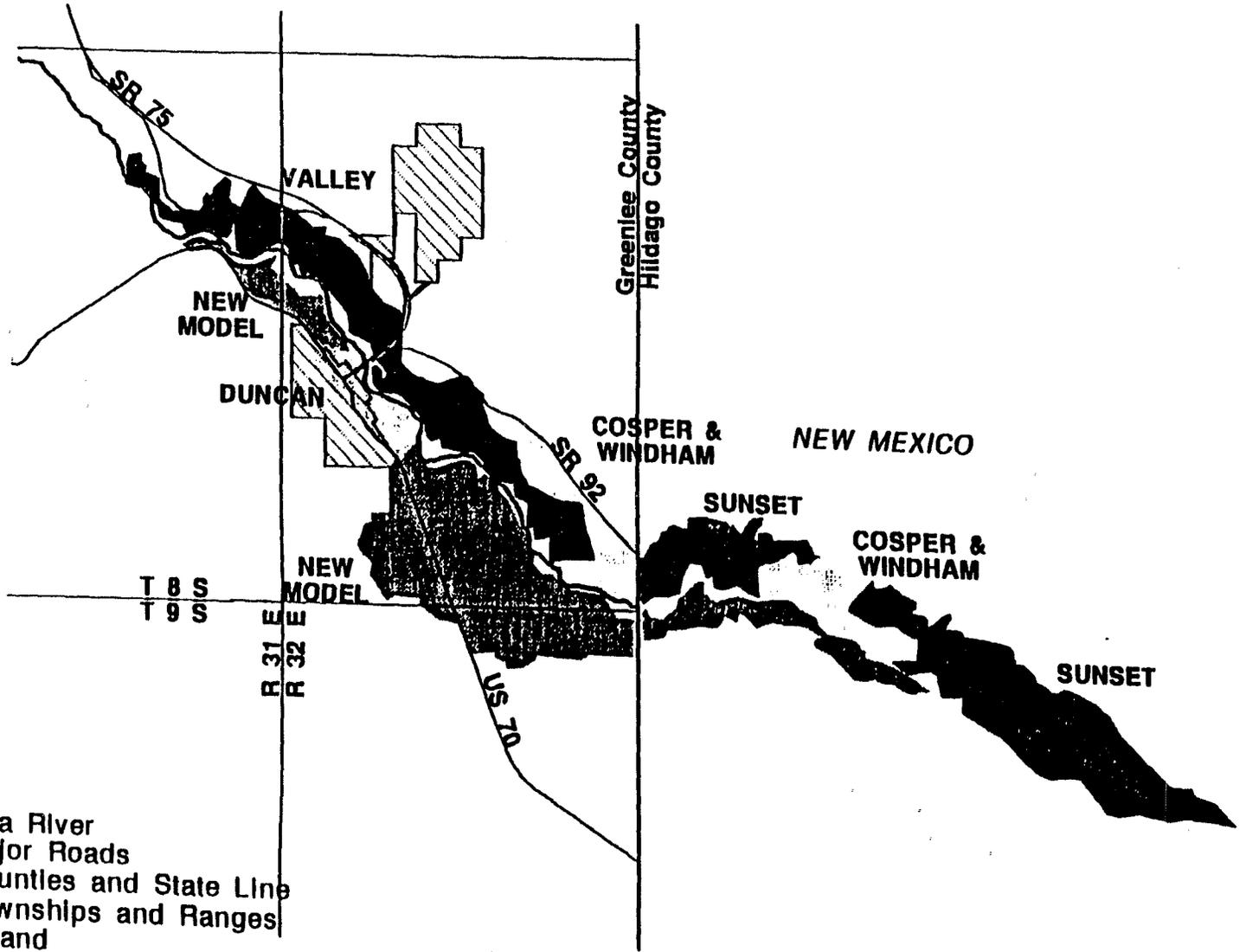
-  Beardsley Canal
-  Roads
-  Townships and Ranges
-  Urban Land
-  Cities
-  Outside
-  Citrus Glen OAI



**Citrus Glen Owners' Association, Inc.**

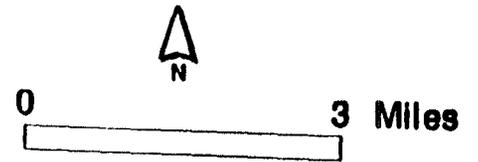


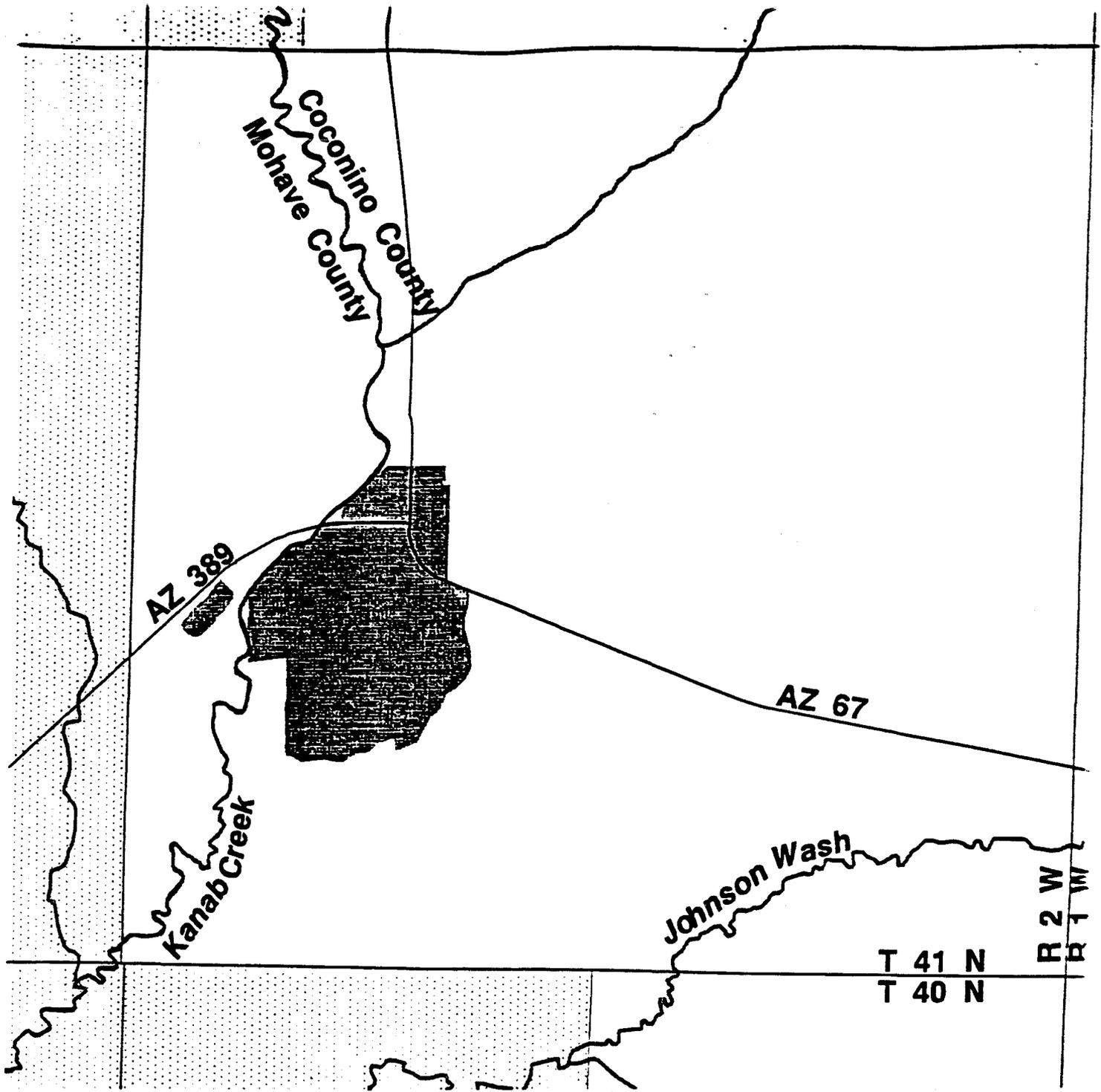
# Cortaro - Marana Irrigation District



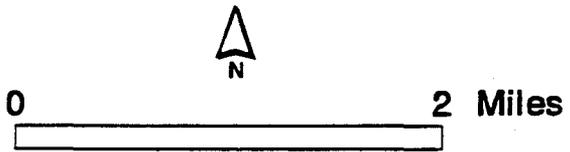
- Gila River
- Major Roads
- Counties and State Line
- Townships and Ranges
- Urban Land
- Outside
- City of Duncan
- Franklin ID Canal Companies
- Cosper and Windham
- Duncan
- New Model
- Sunset
- Valley

# Franklin Irrigation District

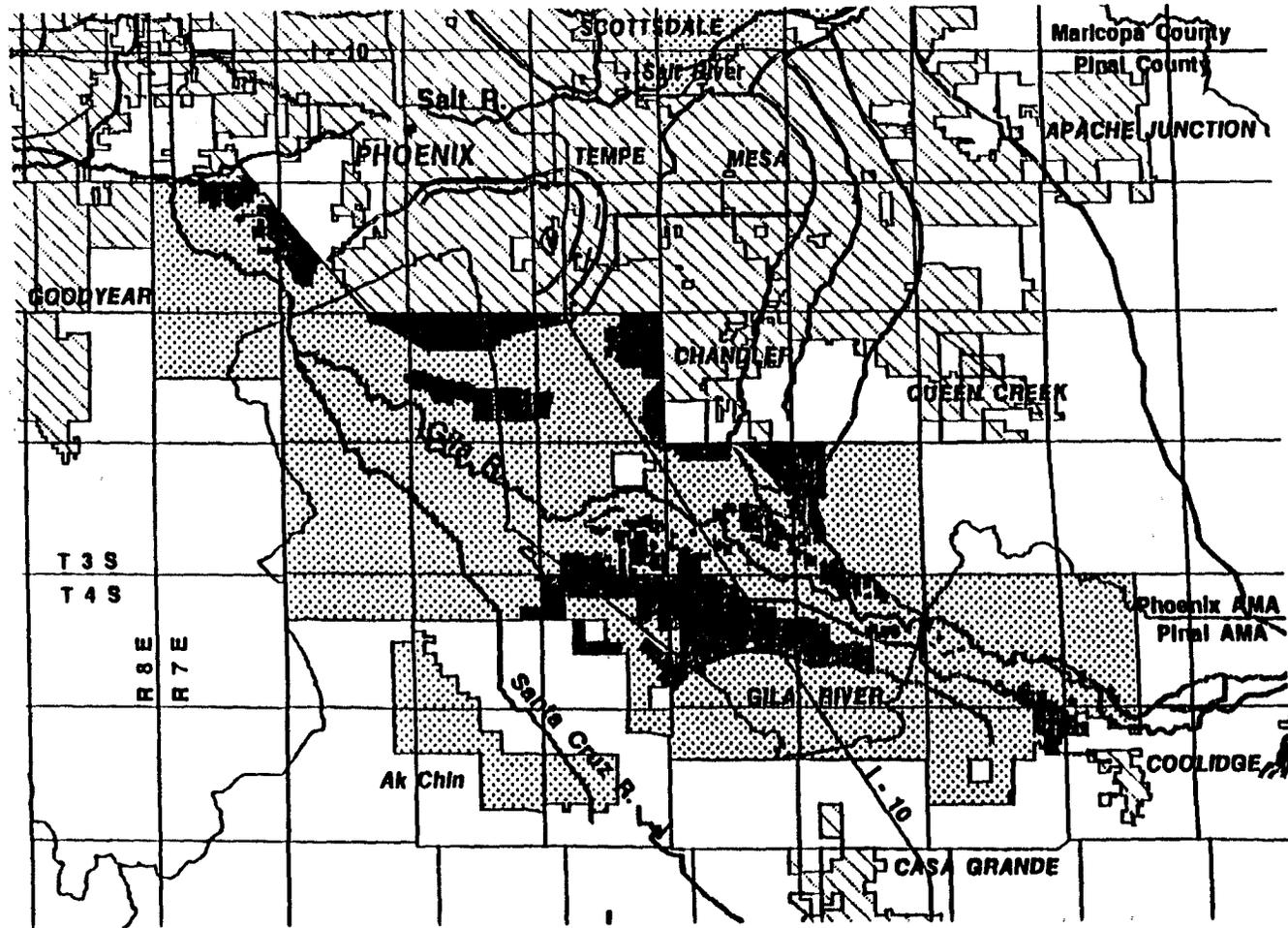




-  Counties
-  Streams
-  Roads
-  Townships and Ranges
-  Kaibab Indian Community
-  Fredonia IC

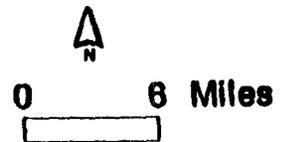


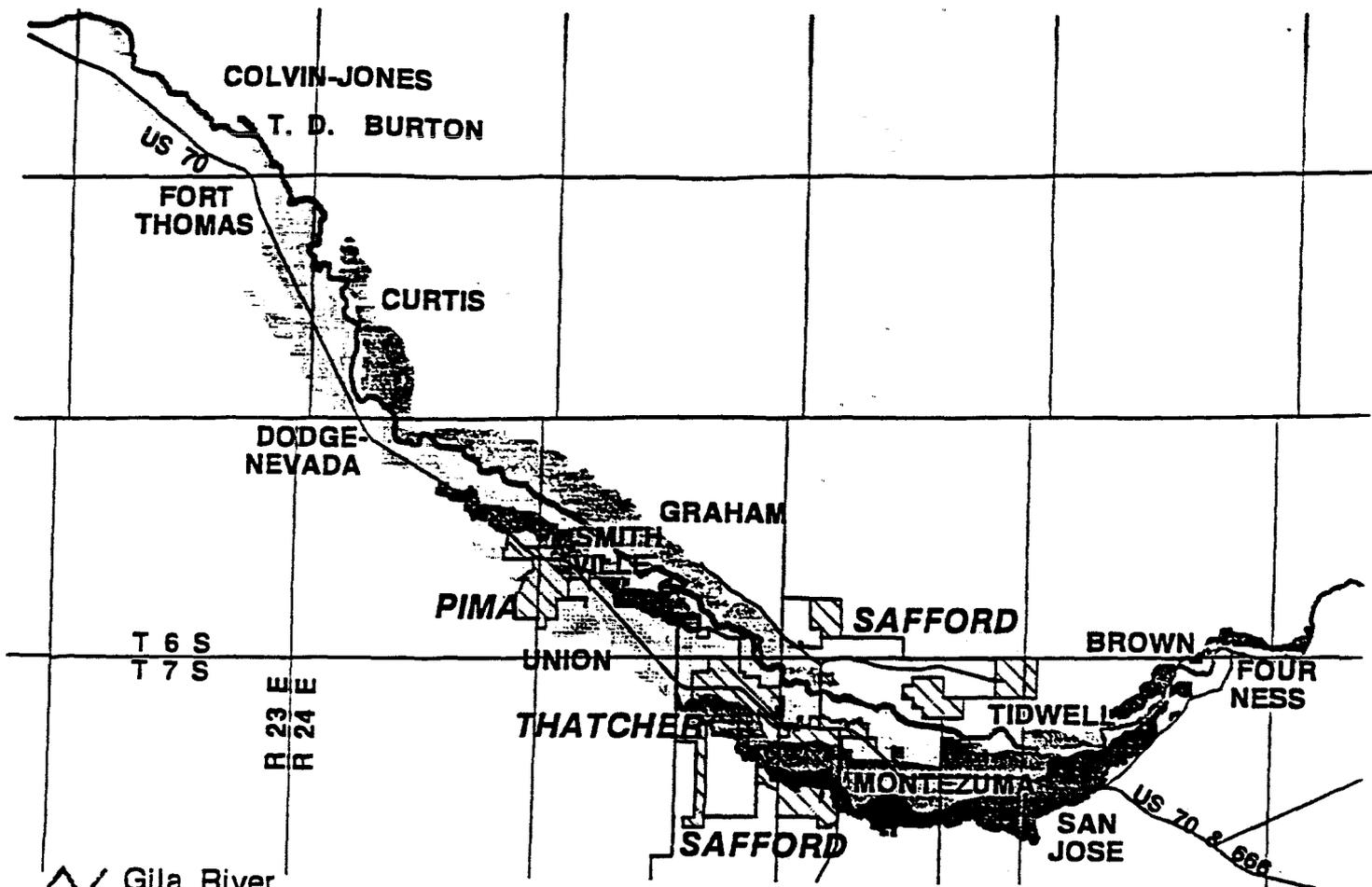
# Fredonia Irrigation Company



- Rivers
- Canals
- Interstates
- Active Management Areas
- Counties
- Townships and Ranges
- Indian Communities**
- Non-Indian Land
- Indian Land
- Indian Irrigation
- Urban Land**
- Outside
- Cities

## Gila River Indian Community





- Gila River
- Major Roads
- Townships and Ranges
- Urban Land
- Outside
- Cities

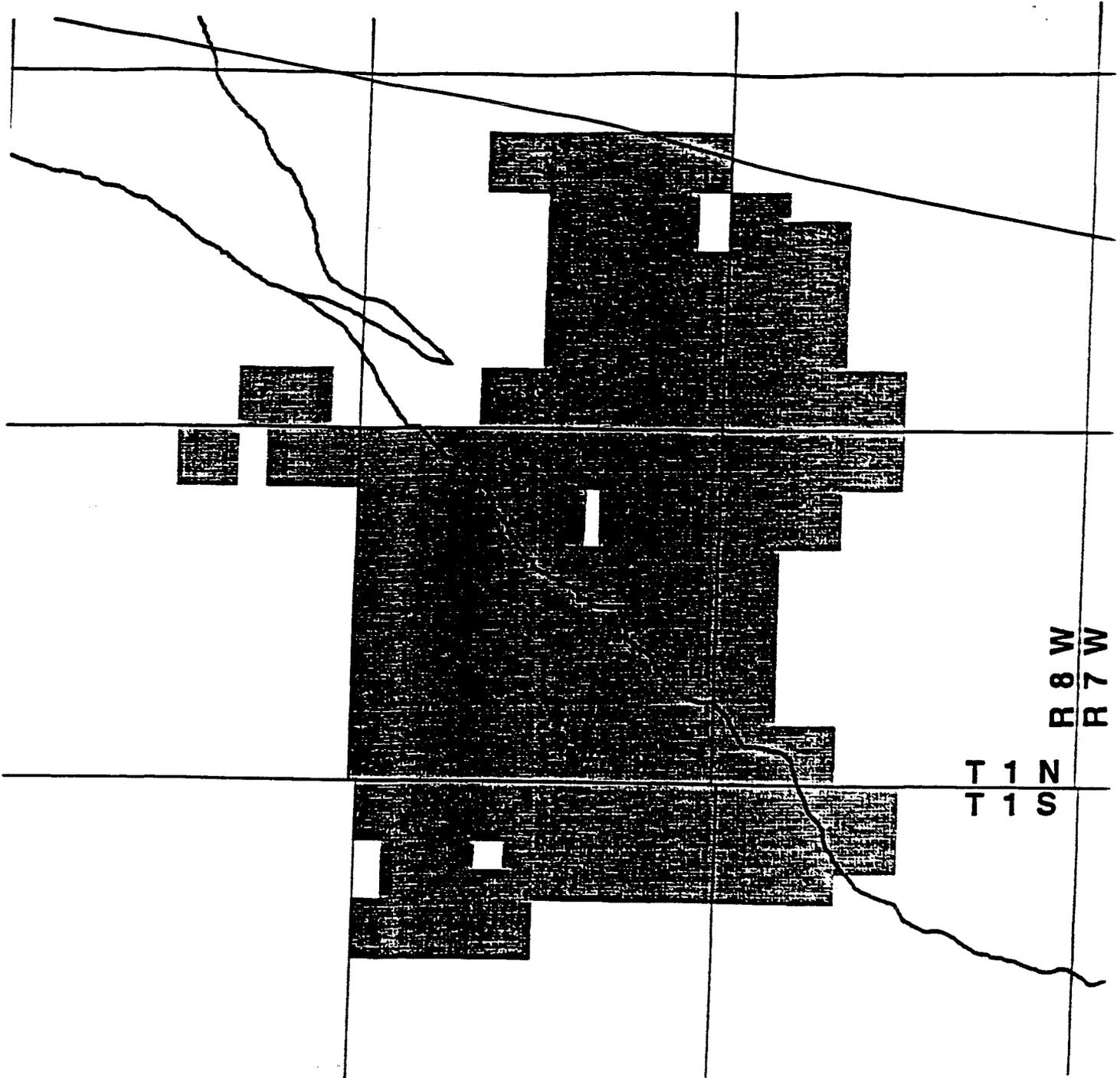
**Duncan-Virden Valley Consolidated Canal System**

- Brown
- Colvin-Jones
- Curtis
- Dodge-Nevada
- Fort Thomas
- Fourness
- Graham
- Montezuma
- San Jose
- Smithville
- T. D. Burton
- Tidwell
- Union

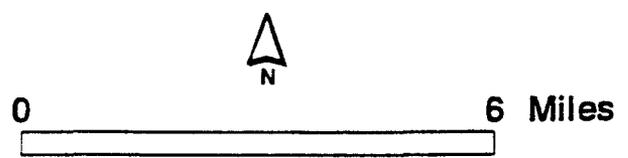


0 6 Miles

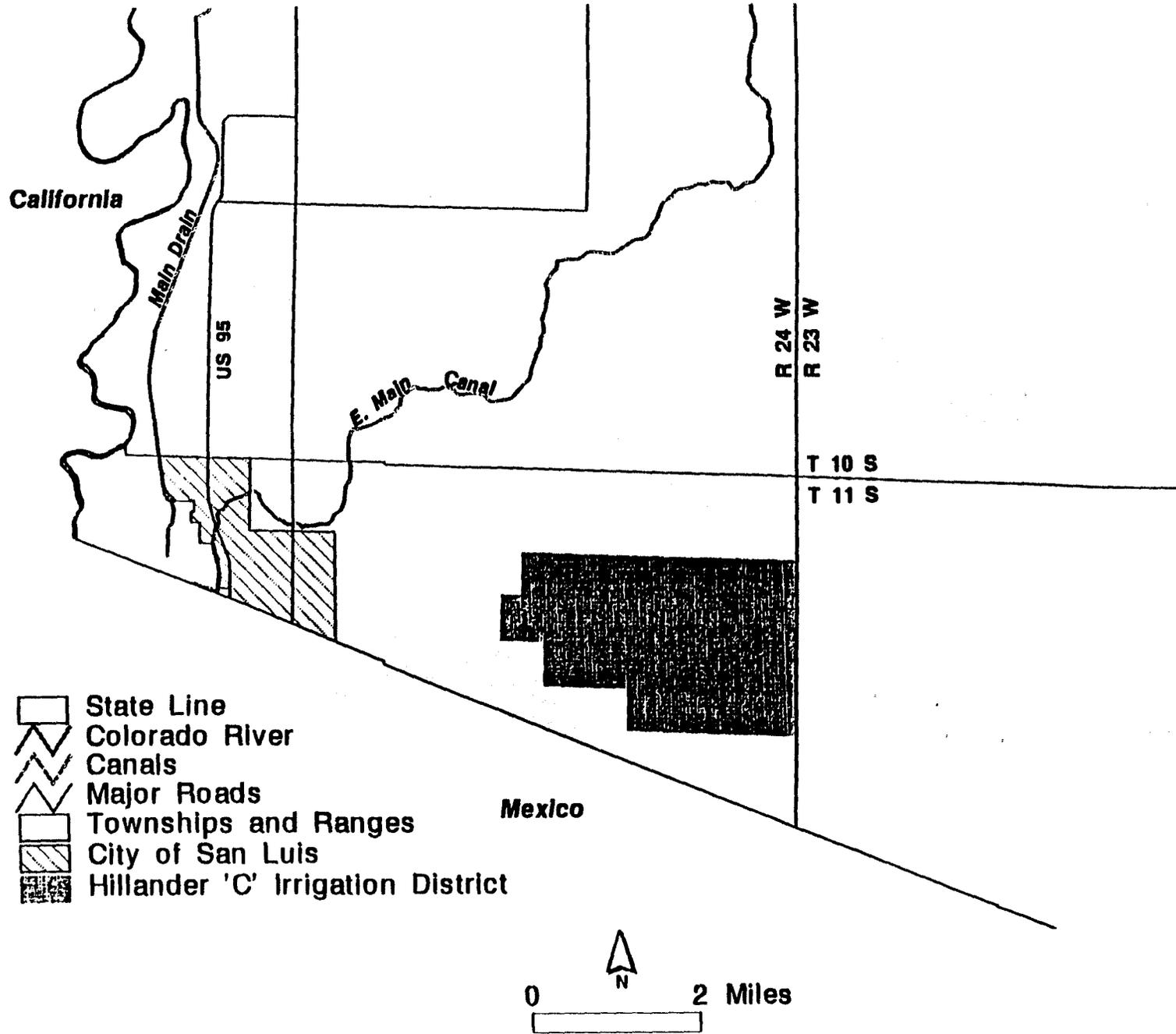
# Gila Valley Irrigation District



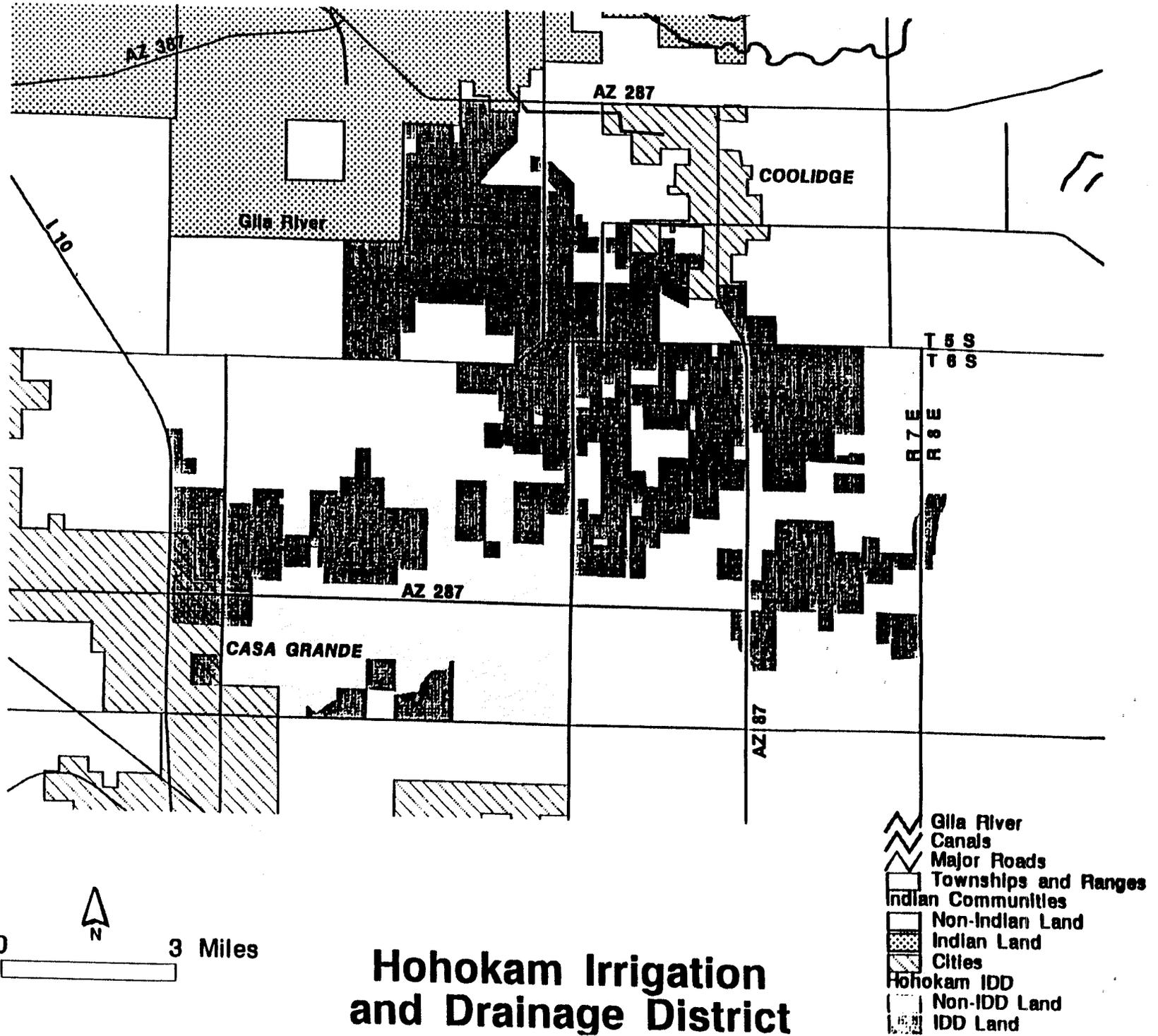
-  I 10
-  Rivers
-  Townships and Ranges
-  HVID
-  District Land
-  Non - District Land



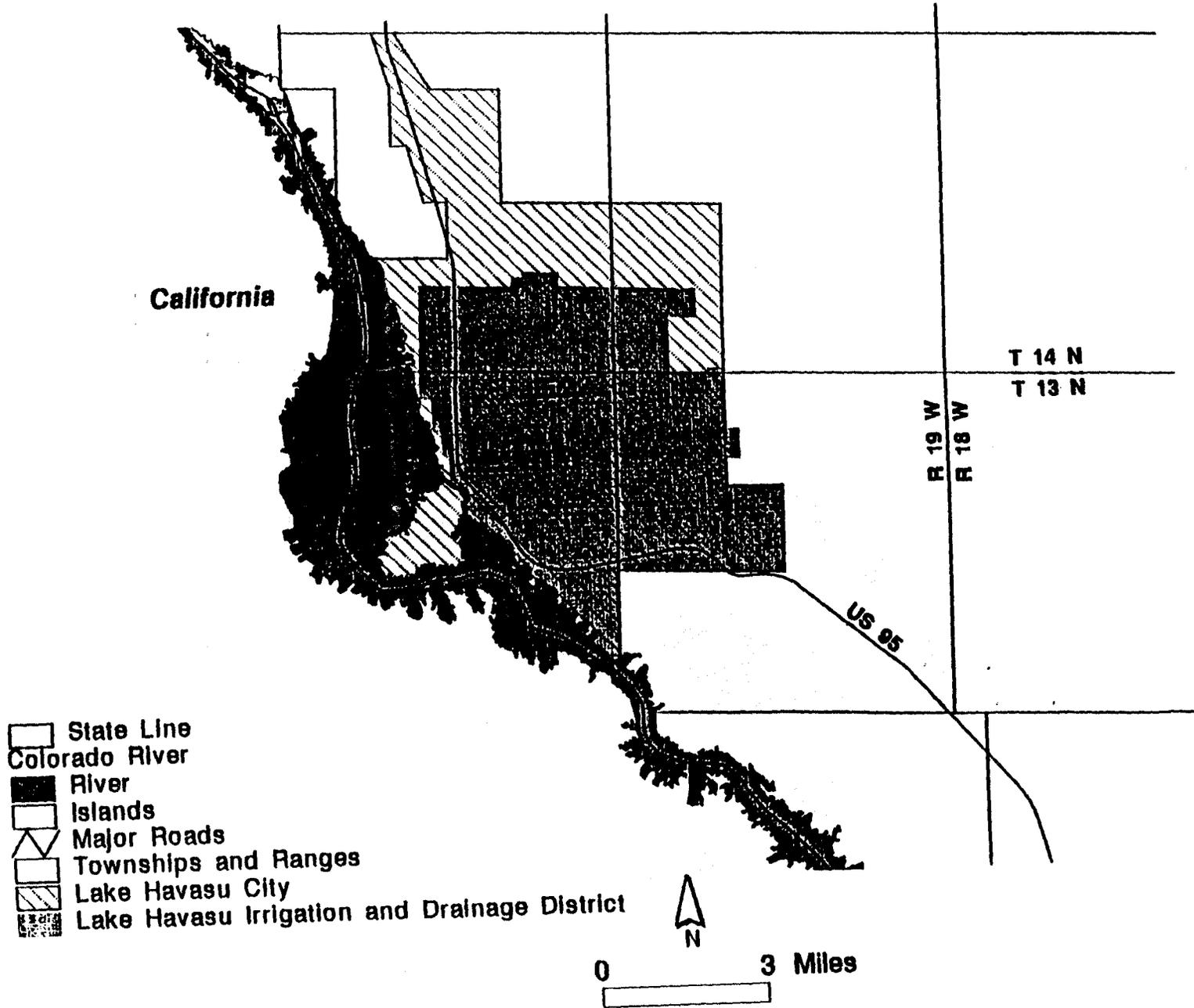
# Harquahala Valley Irrigation District



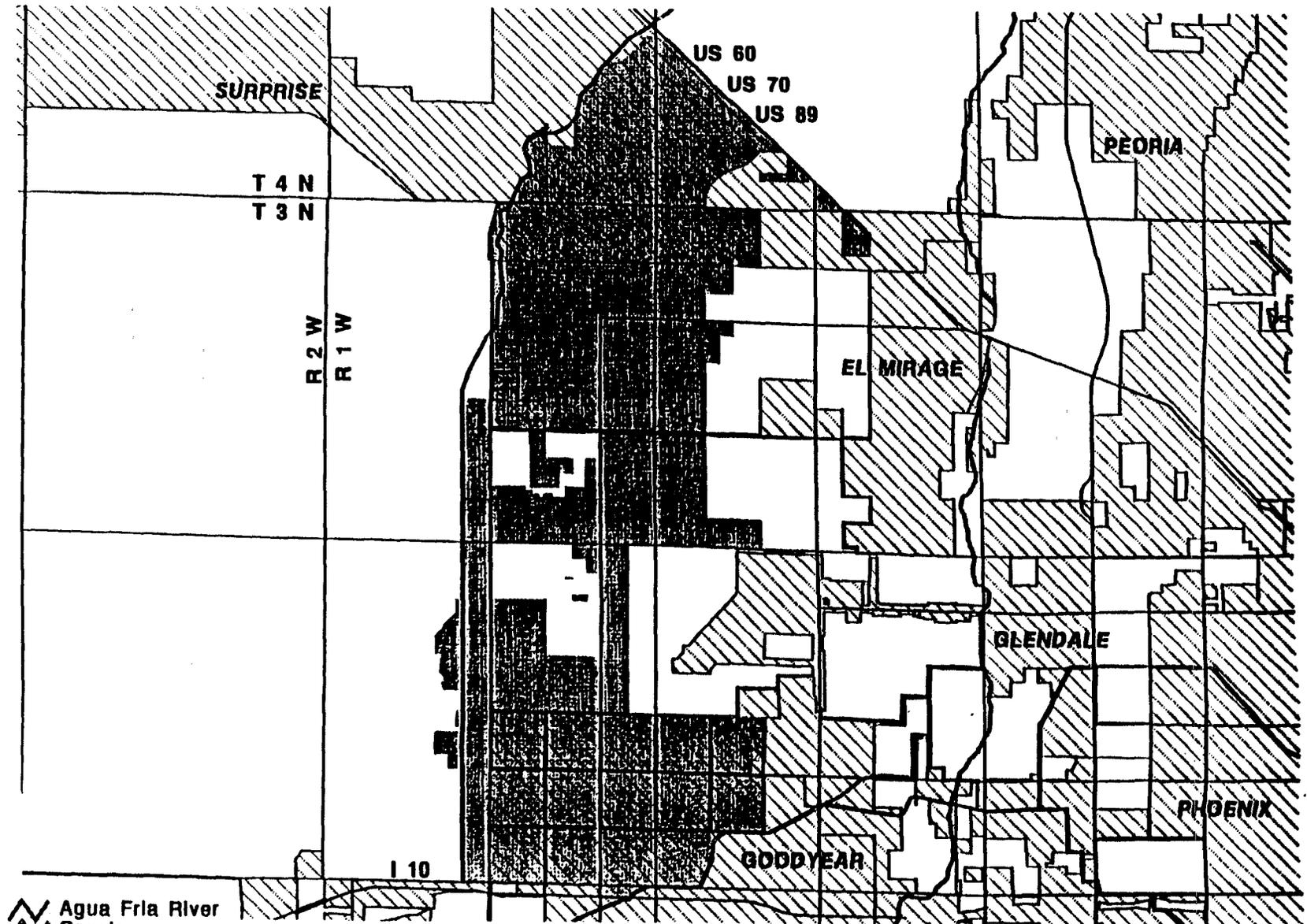
# Hillander 'C' Irrigation District



# Hohokam Irrigation and Drainage District

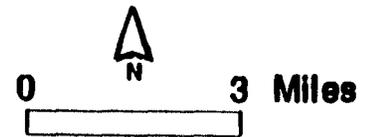


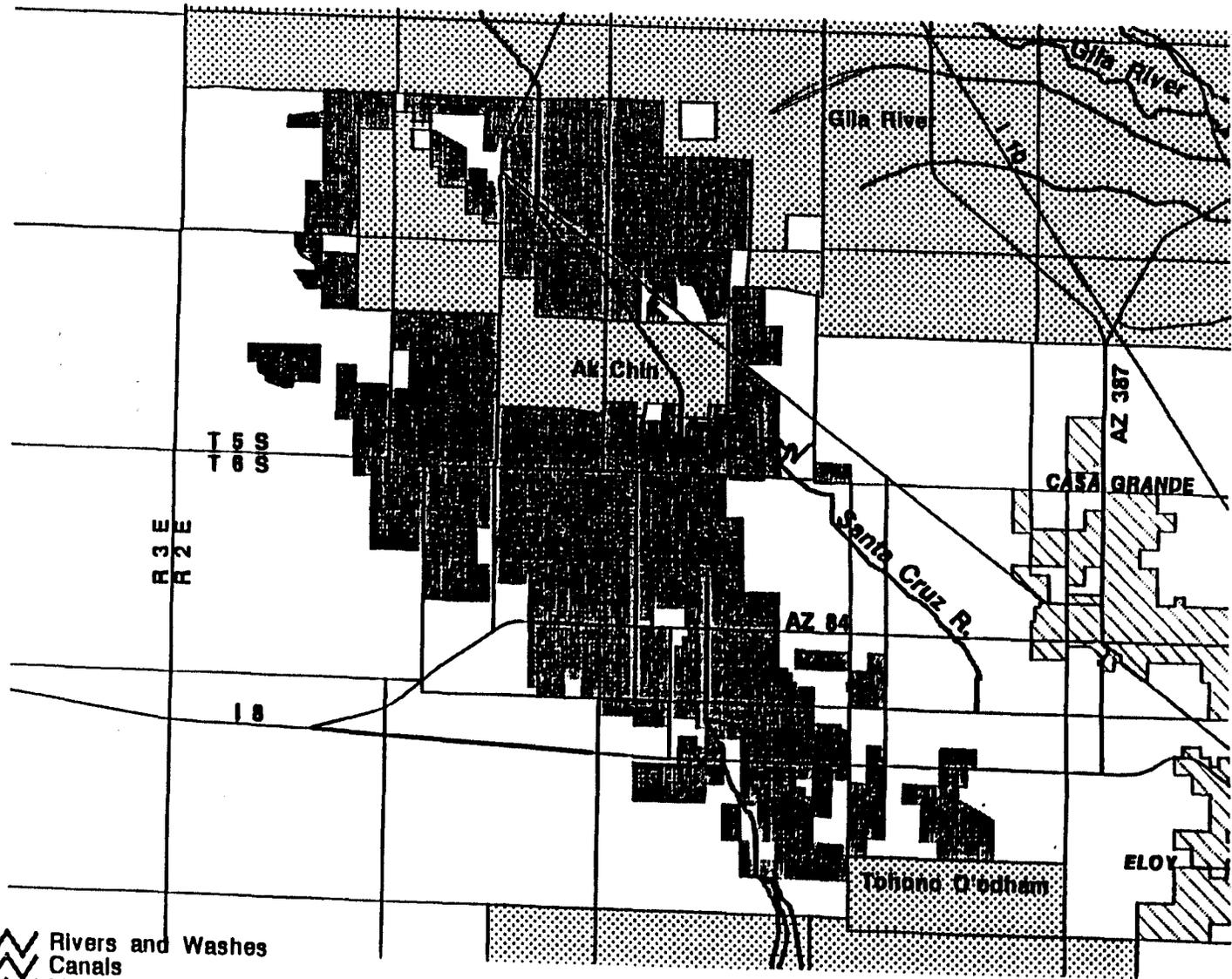
# Lake Havasu Irrigation and Drainage District



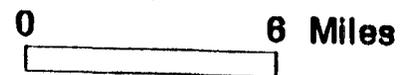
-  Agua Fria River
-  Canals
-  Major Roads
-  Townships and Ranges
-  Urban Land
-  Outside
-  Cities
-  Maricopa Water District
-  Non-MWD Land
-  MWD Land

**Maricopa County Municipal Water Conservation District No. 1**

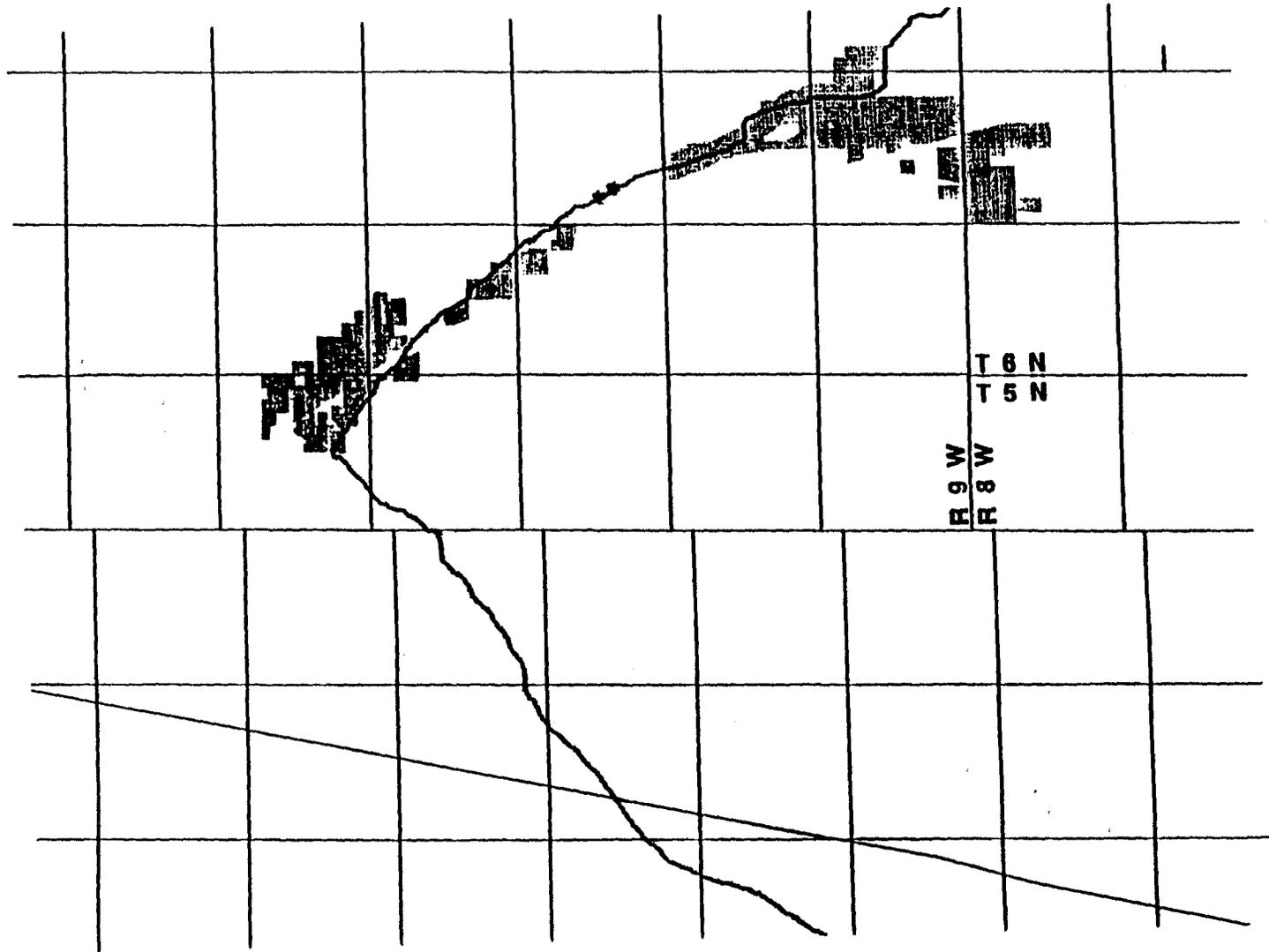




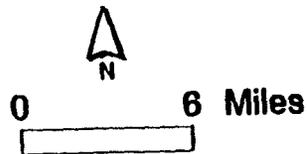
- Rivers and Washes
- Canals
- Major Roads
- Townships and Ranges
- Indian Communities**
- Non-Indian Land
- Indian Land
- Urban Land**
- Outside
- Cities
- Maricopa - Stanfield IDD**
- Non-MSIDD Land
- MSIDD Land



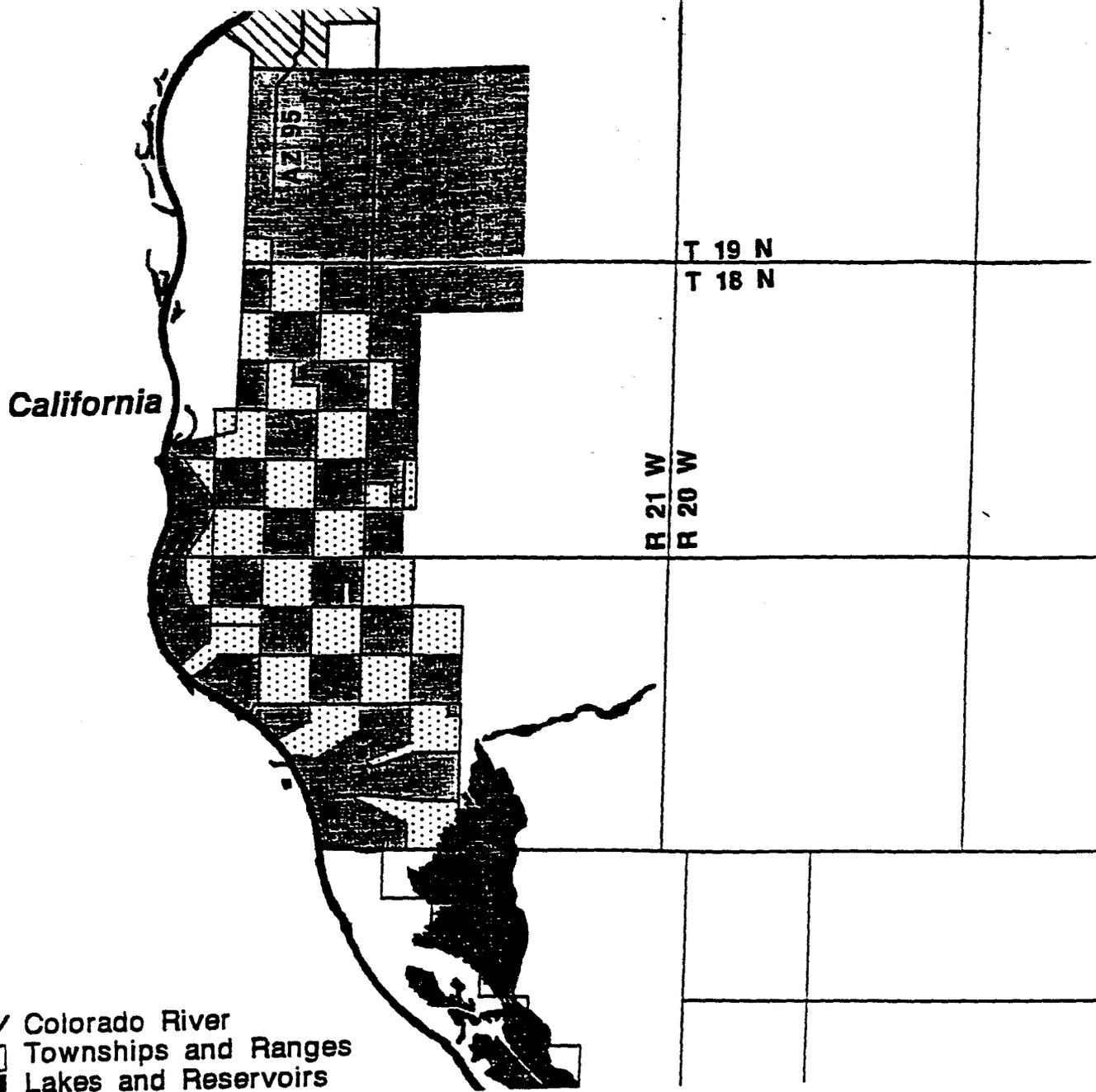
## Maricopa - Stanfield Irrigation and Delivery District



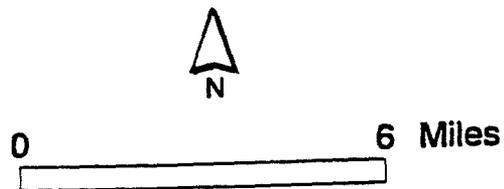
-  Major Rivers and Streams
-  Interstate 8
-  Townships and Ranges
-  McMullen Valley WCD
-  Non-MVWCD Land
-  MVWCD Land



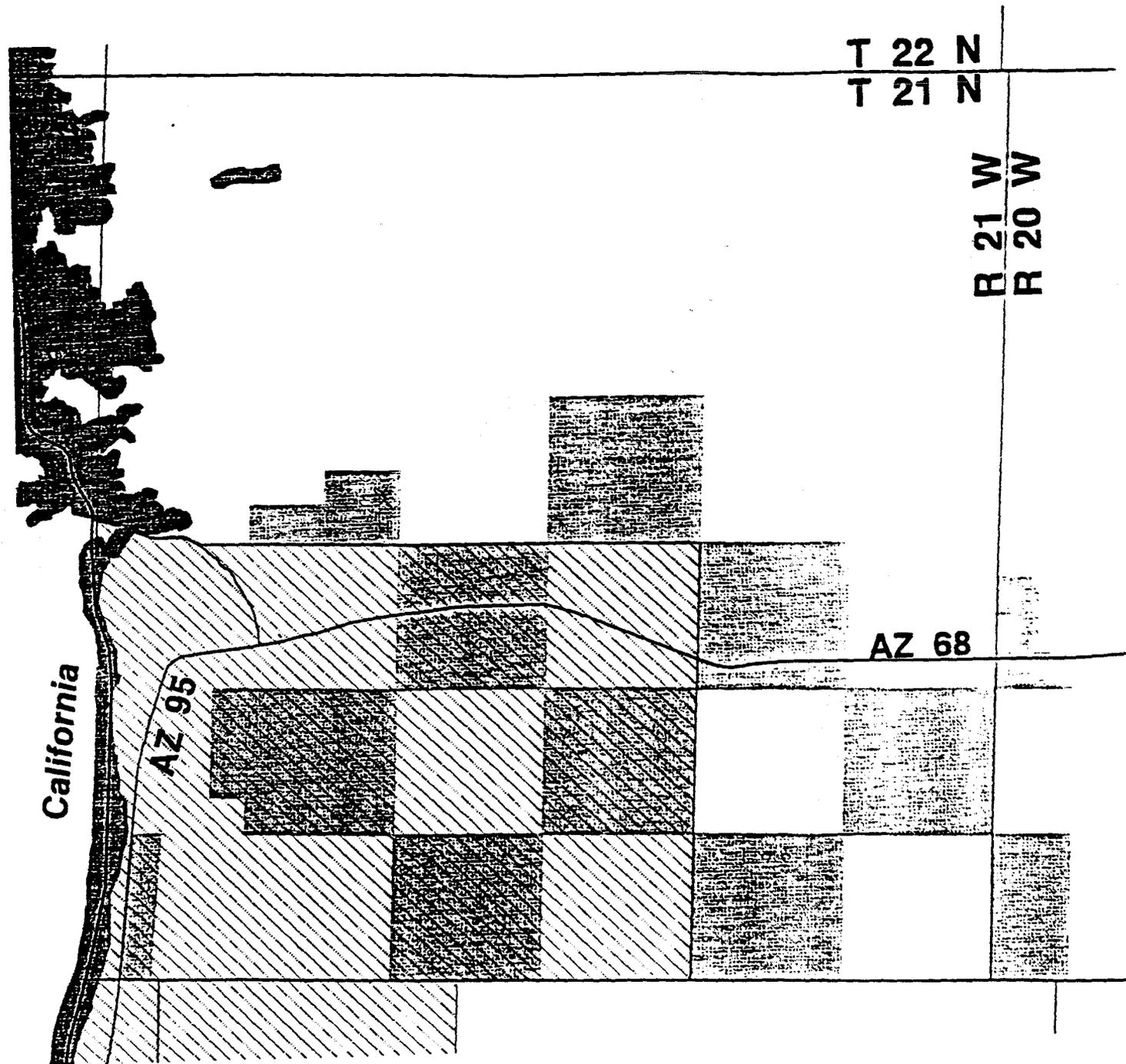
# McMullen Valley Water Conservation District



-  Colorado River
-  Townships and Ranges
-  Lakes and Reservoirs
-  Major Roads
-  State Line
-  Bullhead City
-  Mohave Valley IDD
-  Indian Land Excluded from MVIDD
-  MVIDD Land
-  Non-MVIDD Land



# Mohave Valley Irrigation and Drainage District



California

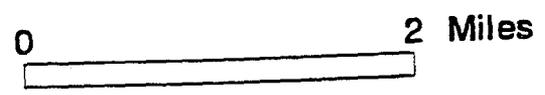
T 22 N  
T 21 N

R 21 W  
R 20 W

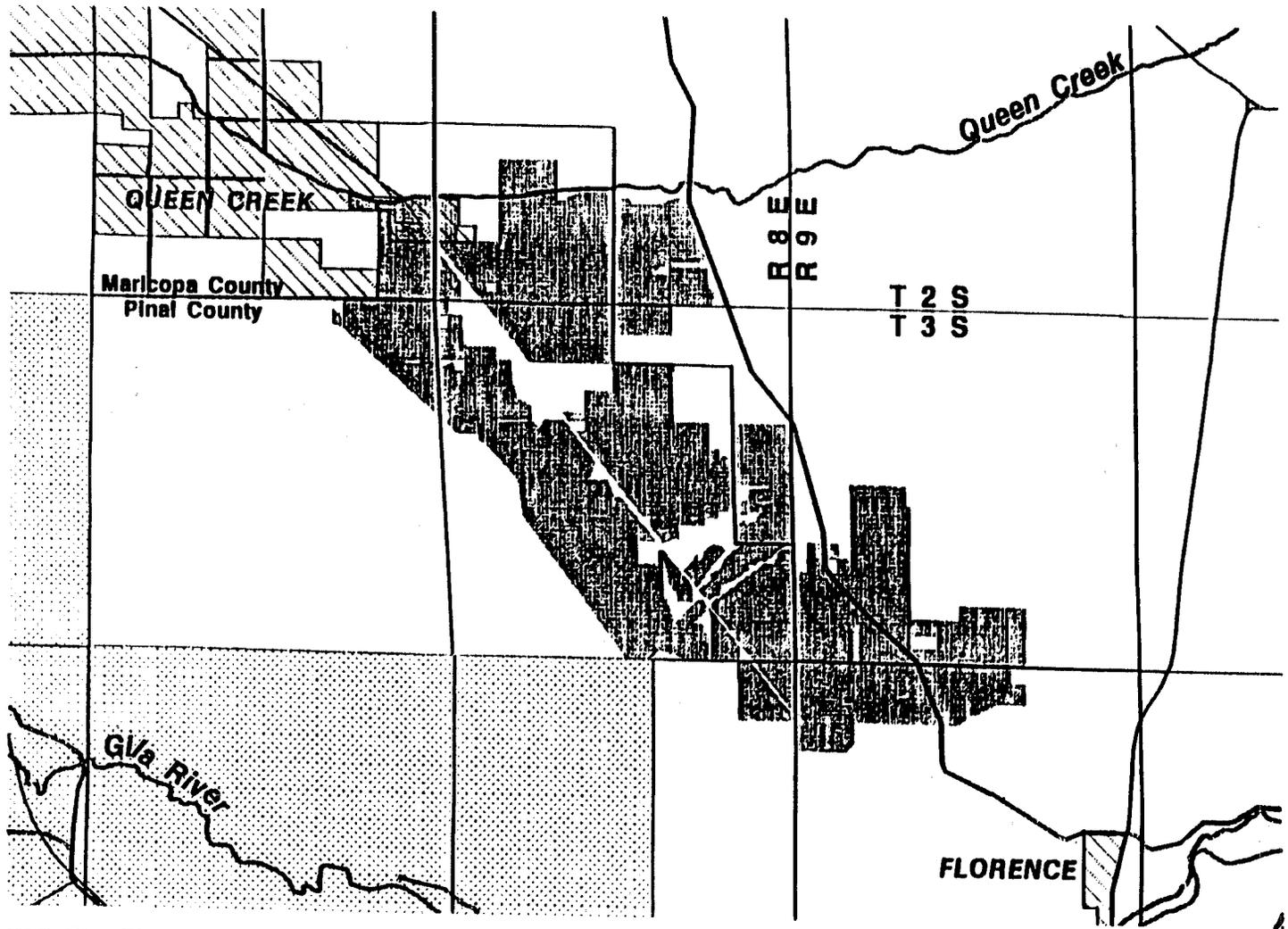
AZ 95

AZ 68

- State Line
- Townships and Ranges
- Colorado River
- Lake Mohave
- Major Roads
- Bullhead City
- MWCD
- MWCD Land Outside of District

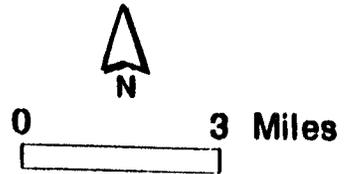


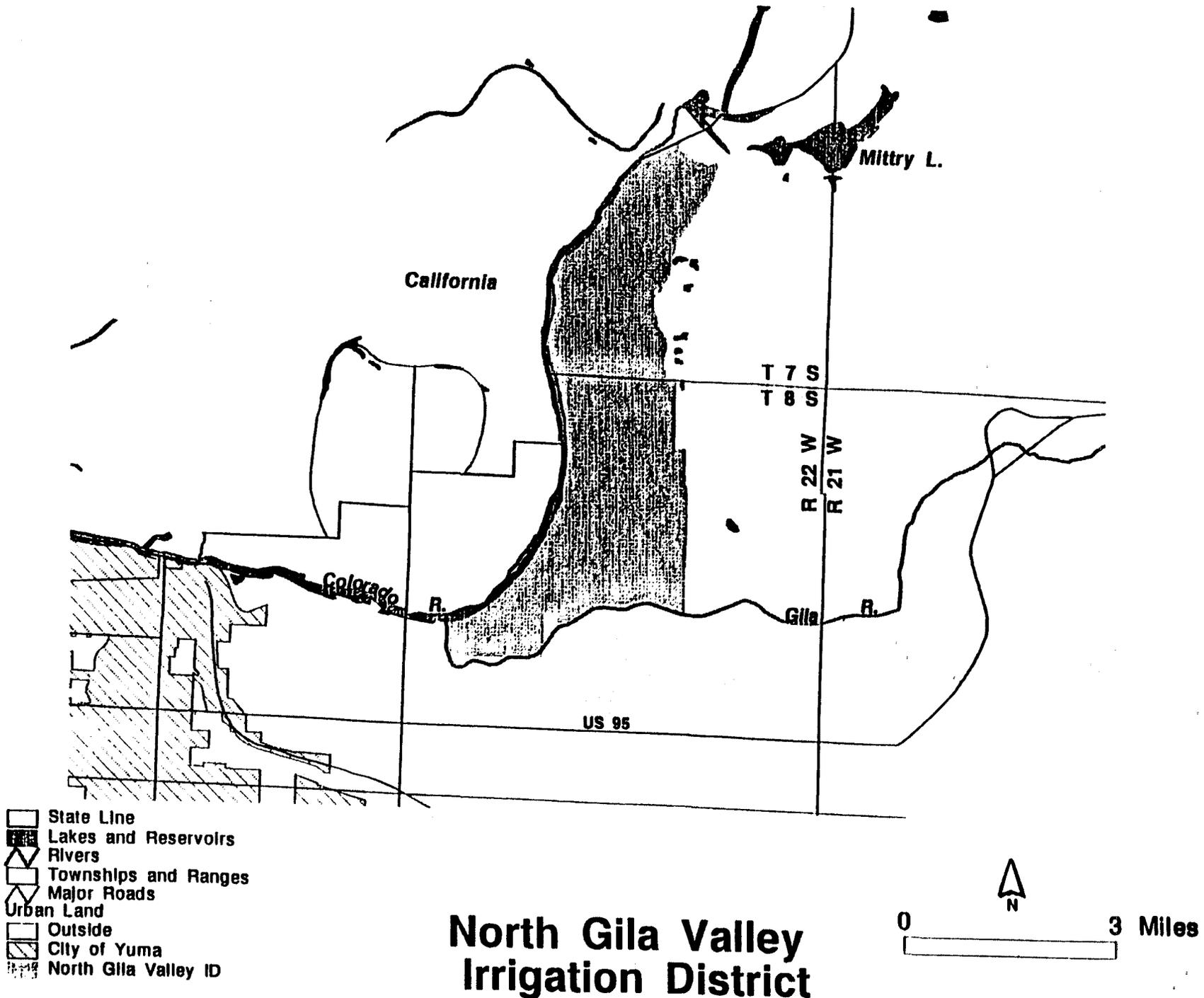
## Mohave Water Conservation District

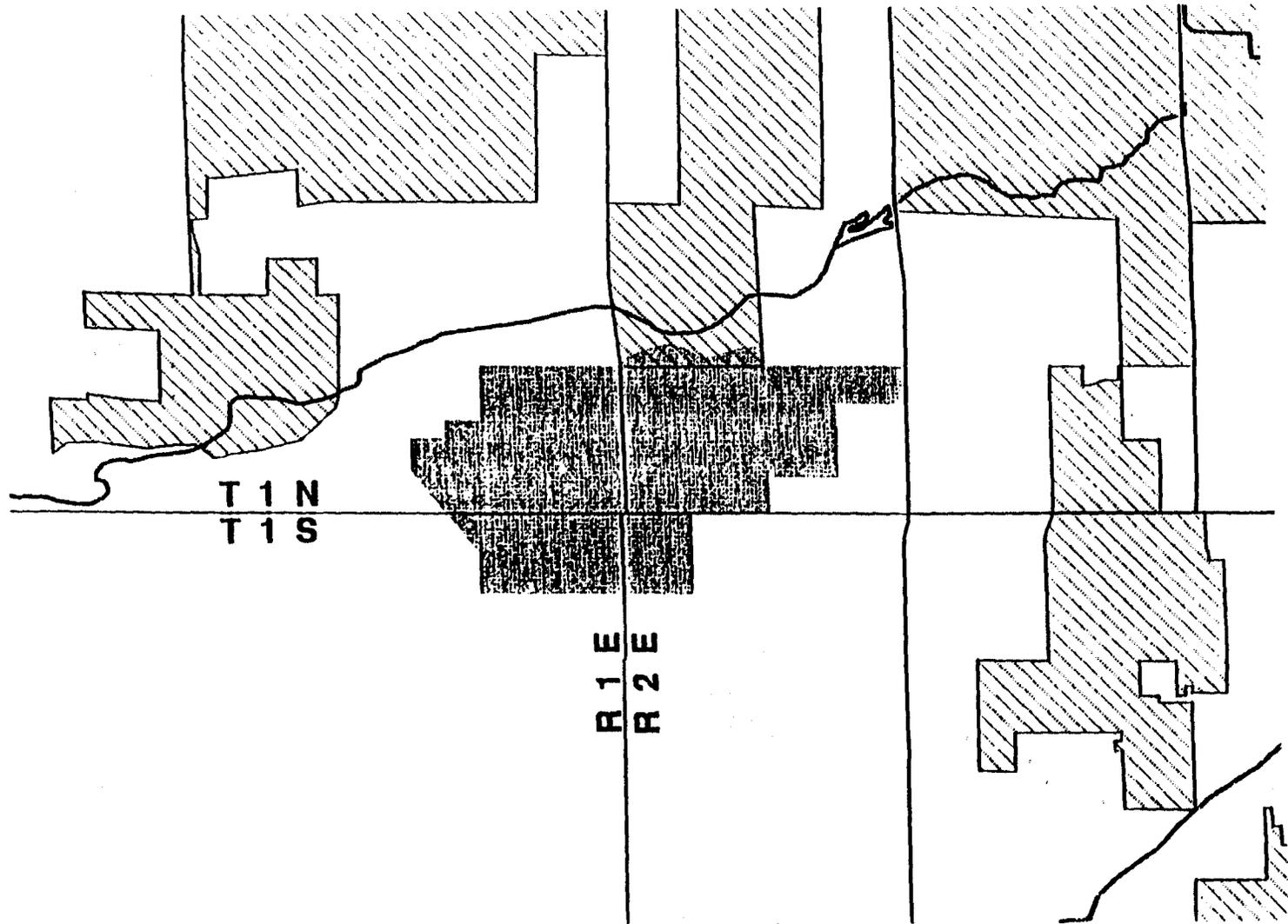


-  Gila River Indian Comm.
-  Major Rivers
-  Canals
-  Major Roads
-  Counties
-  Townships and Ranges
-  Urban Land
-  Outside
-  Cities
-  New Magma IDD
-  Non-NMIDD Land
-  NMIDD Land

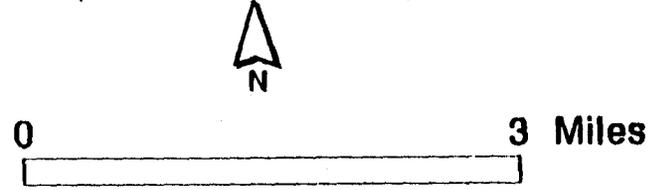
## New Magma Irrigation and Delivery District



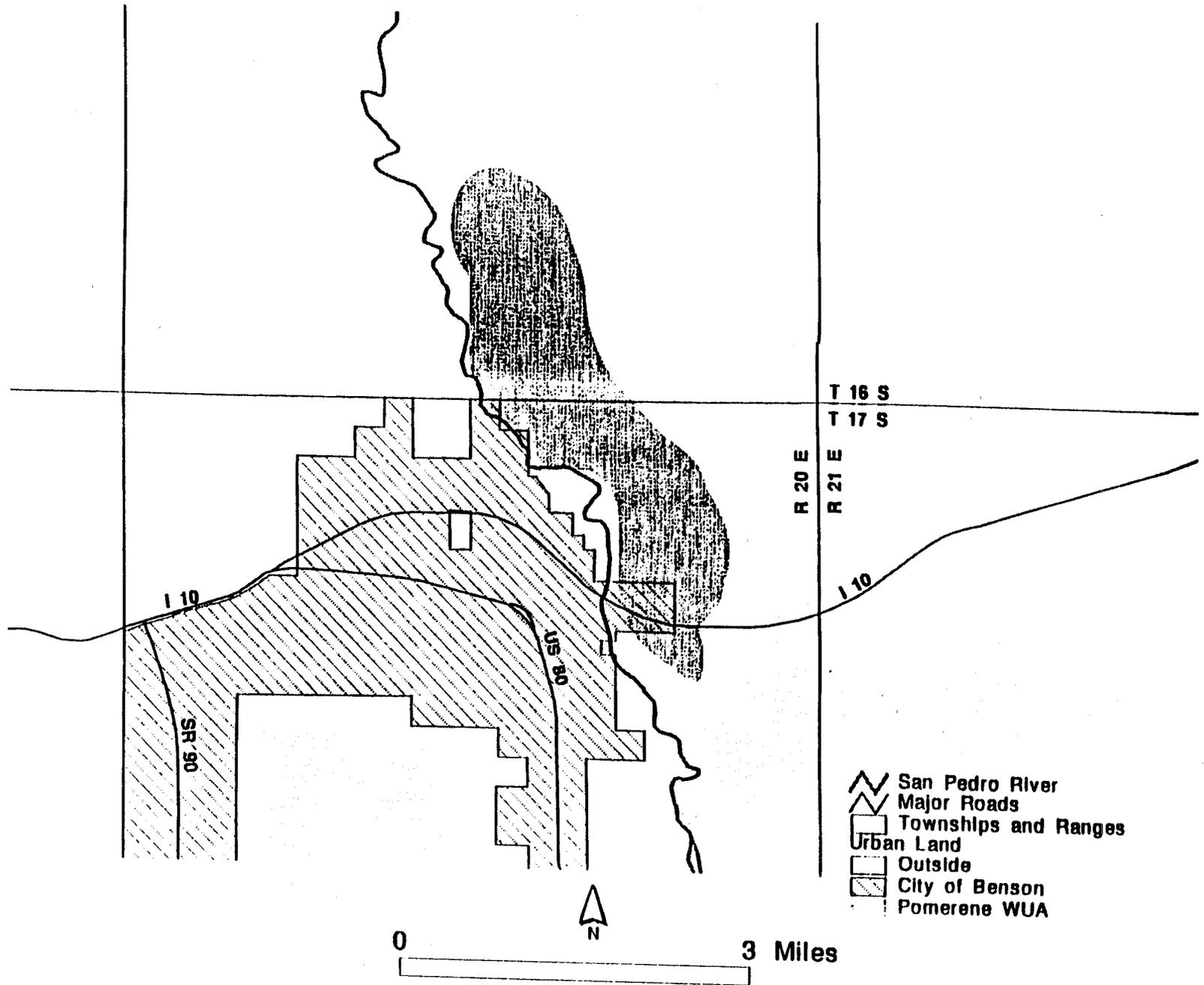




-  Salt River
-  Canals
-  Major Roads
-  Townships and Ranges
-  City of Phoenix
-  Peninsula Ditch Company

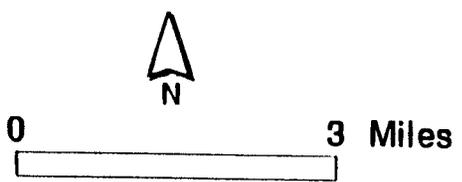
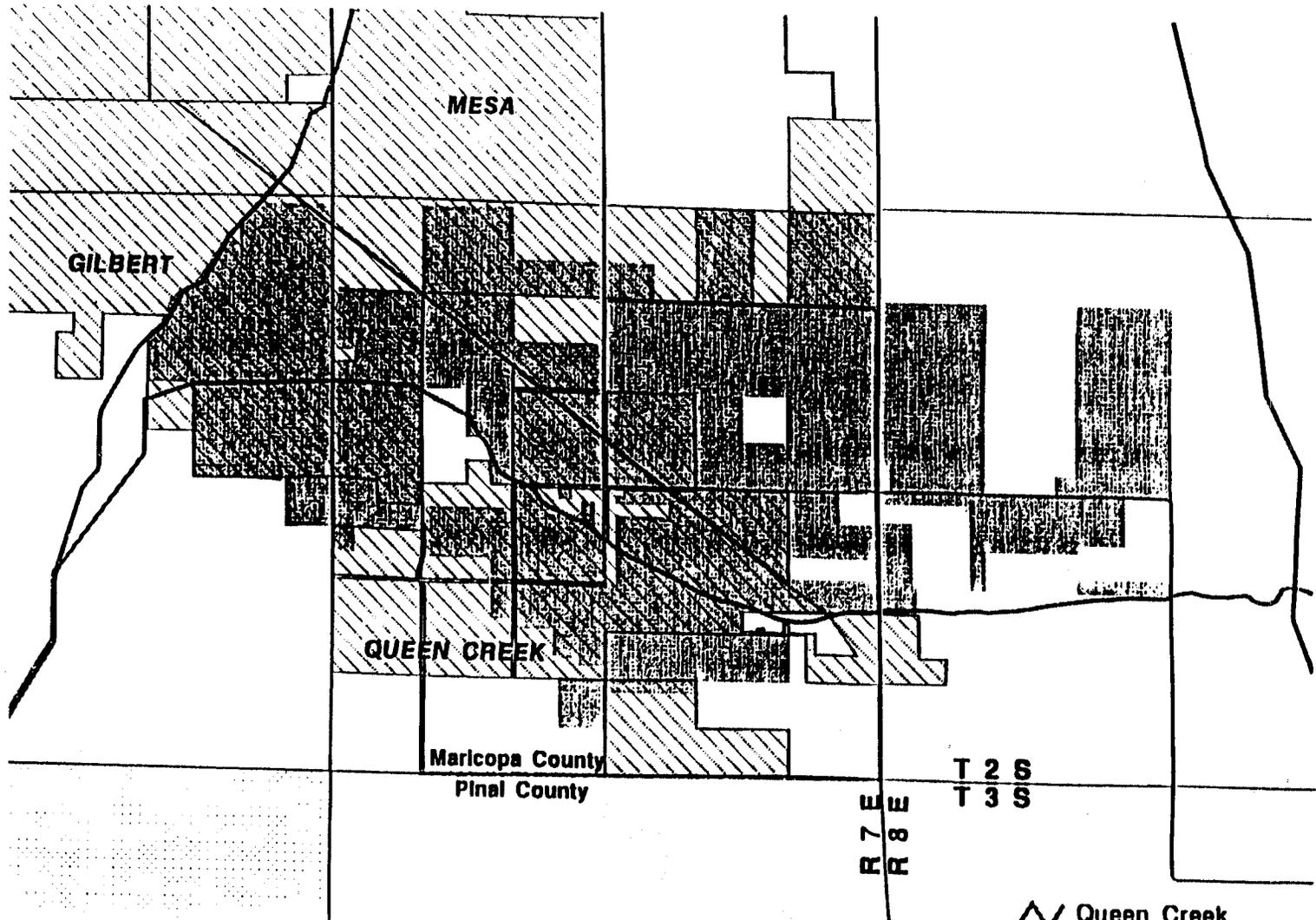


**Peninsula Ditch Company**



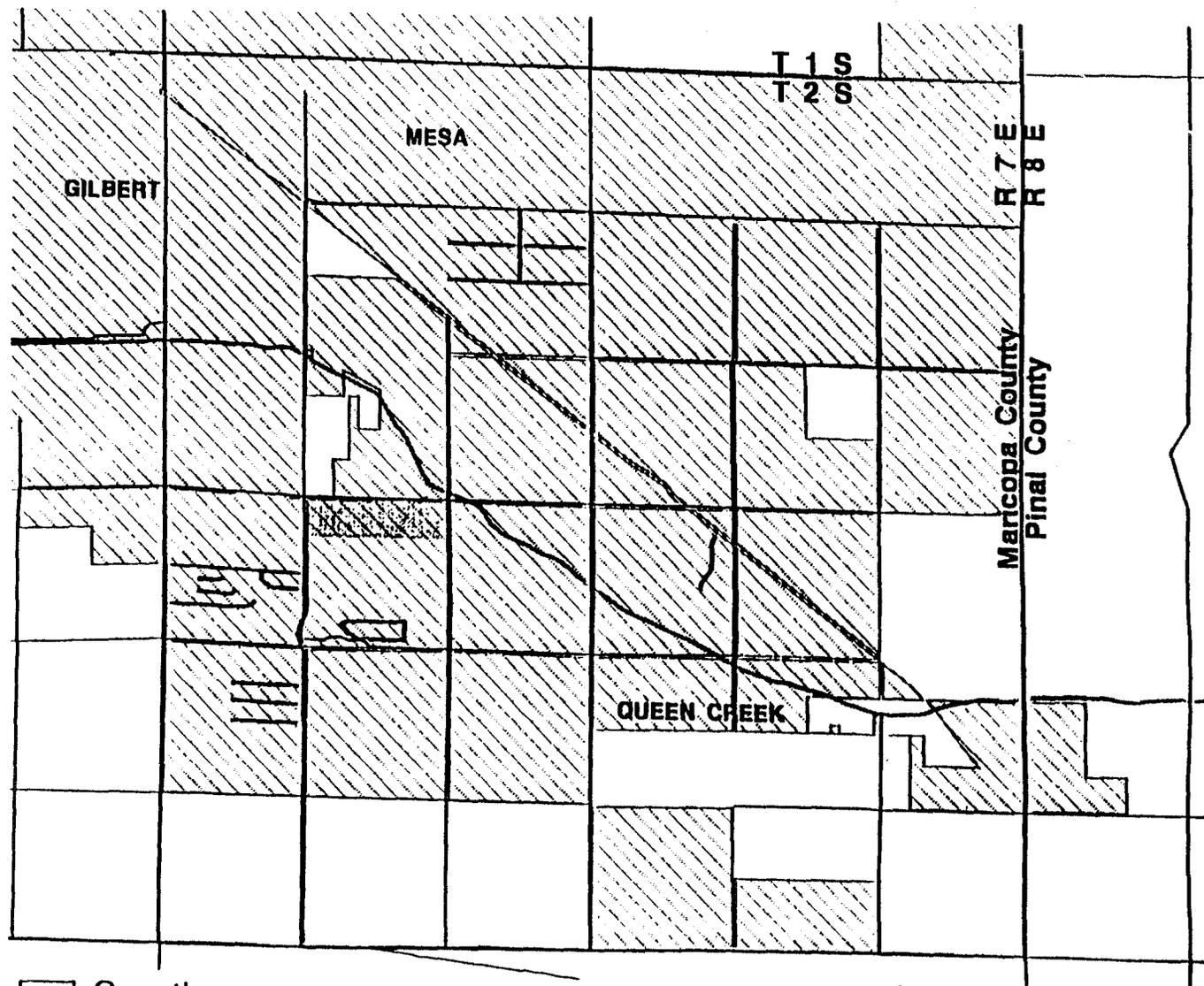
# Pomerene Water Users Association

A-32

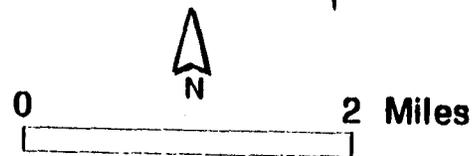


- Queen Creek ID
- Non-QCID Land
- QCID Land
- Canals
- Major Roads
- Counties
- Townships and Ranges
- Gila River Indian Comm.
- Urban Land
- Outside
- Cities

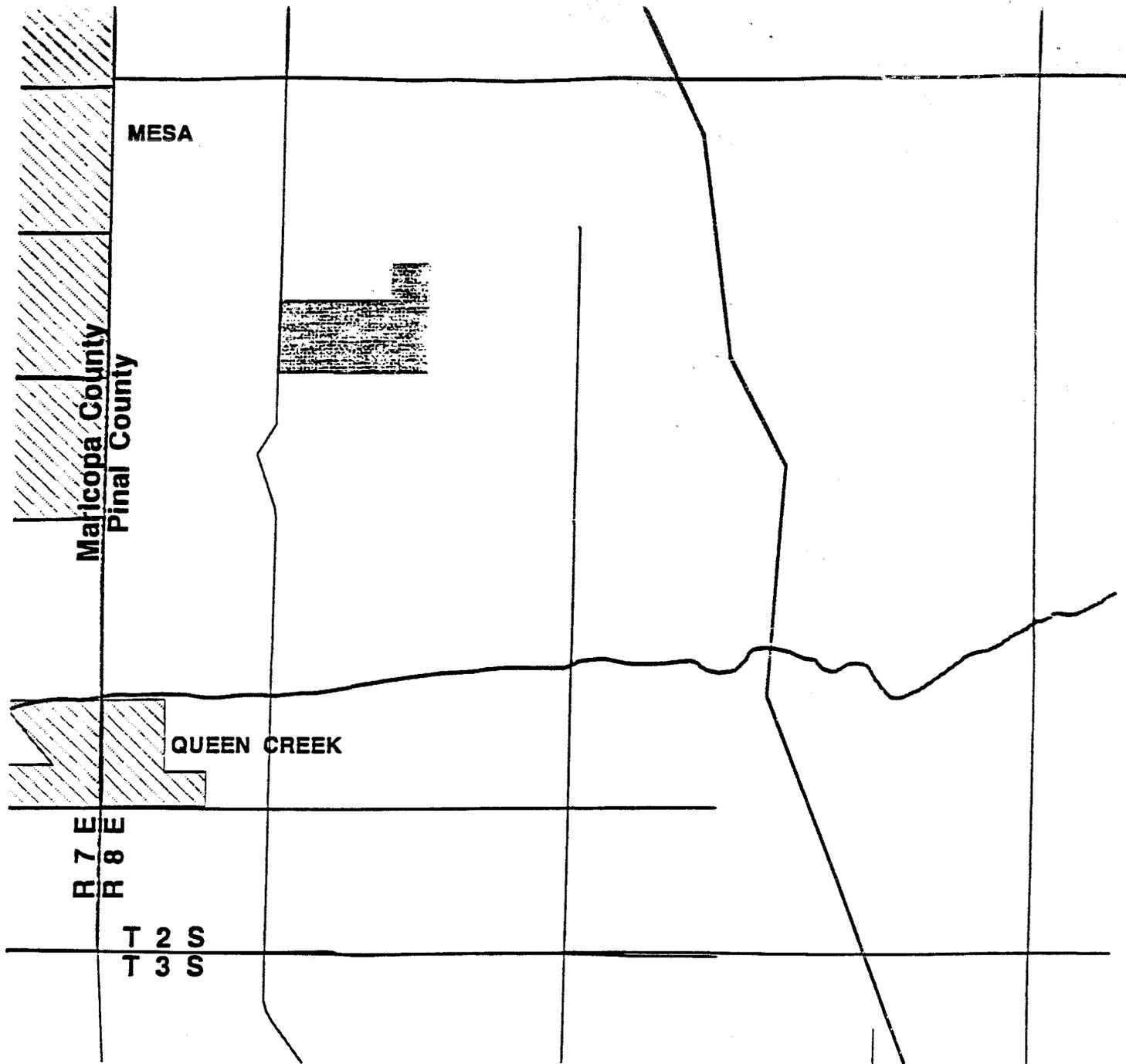
# Queen Creek Irrigation District



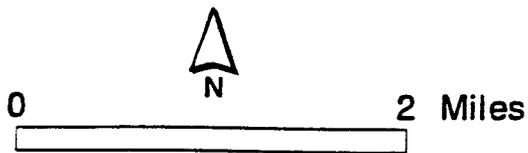
-  Counties
-  Queen Creek
-  Townships and Ranges
-  Roads
-  Urban Land
-  Cities
-  Outside
-  Queen Creek IWDD #32



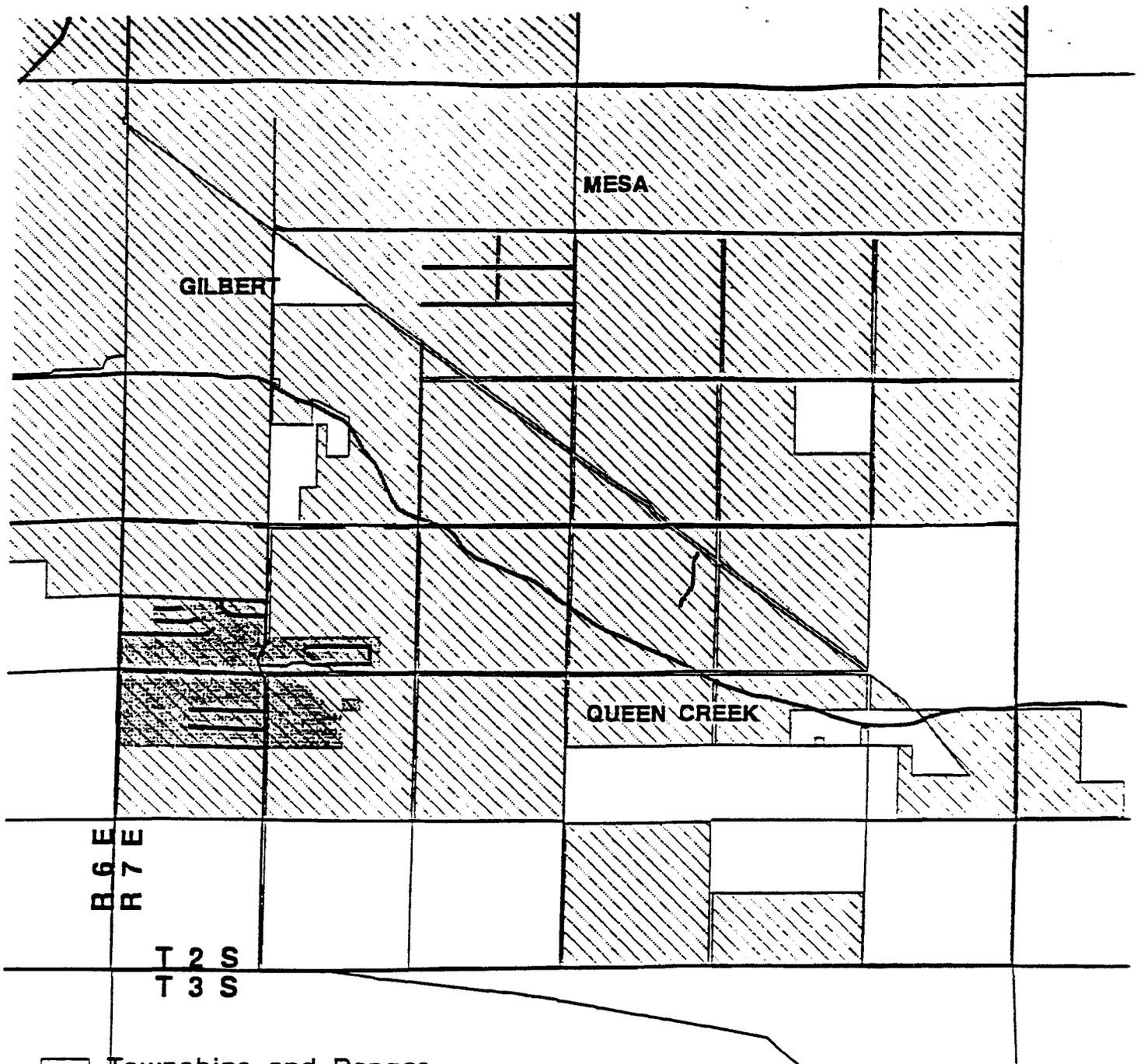
### Queen Creek Irrigation Water Delivery District #32



-  Counties
-  Townships and Ranges
-  Roads
-  Queen Creek
-  Central Arizona Project Canal
-  Urban Areas
-  Cities
-  Outside
-  Queen Creek SR



## Queen Creek Suburban Ranches

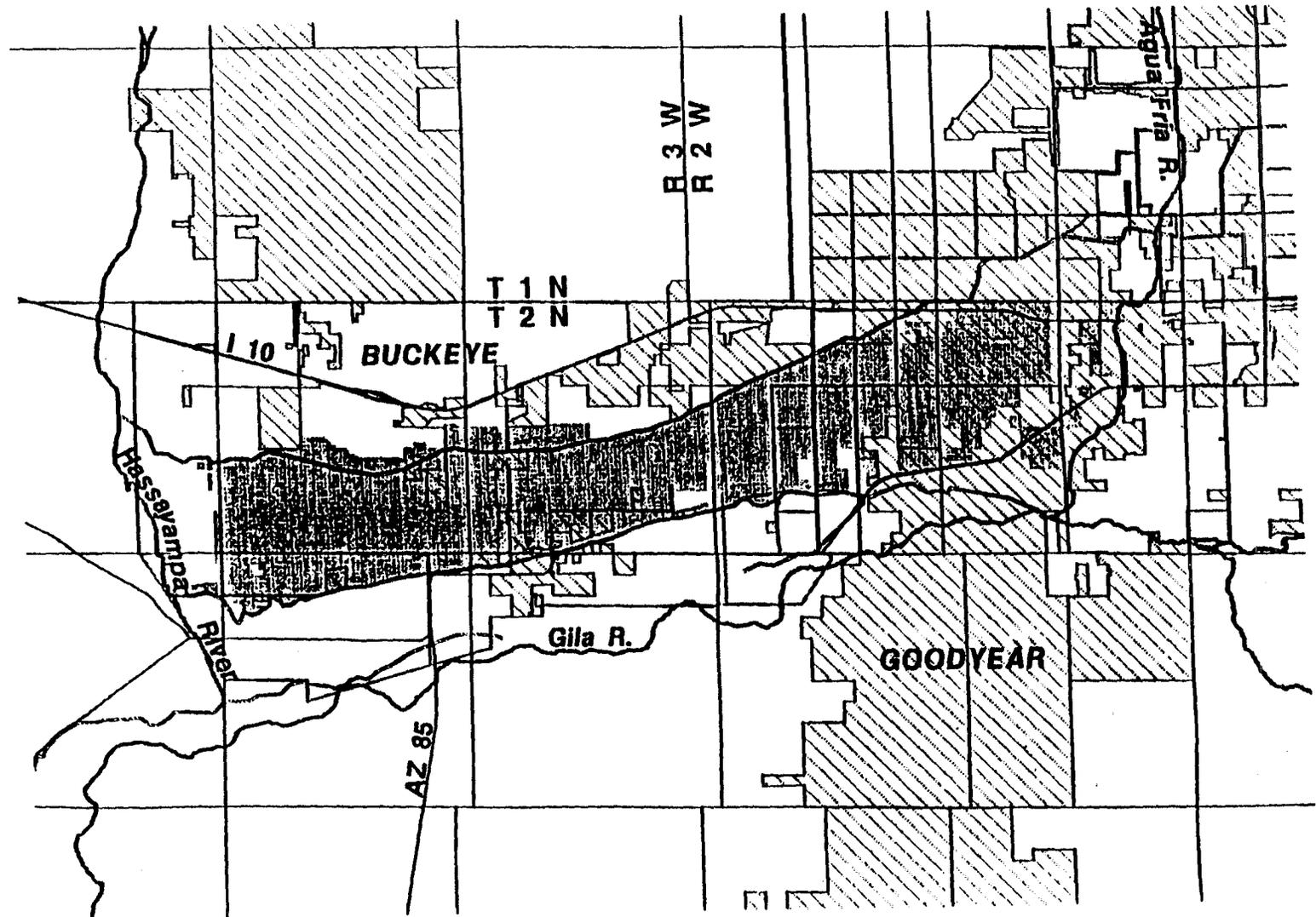


-  Townships and Ranges
-  Canals
-  Roads
-  Queen Creek
-  Urban Land
-  Cities
-  Outside
-  Ranchos Jardines IWDD #34

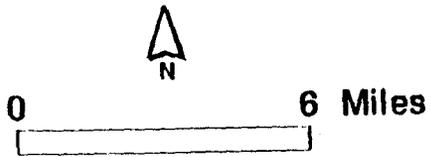


0  2 Miles

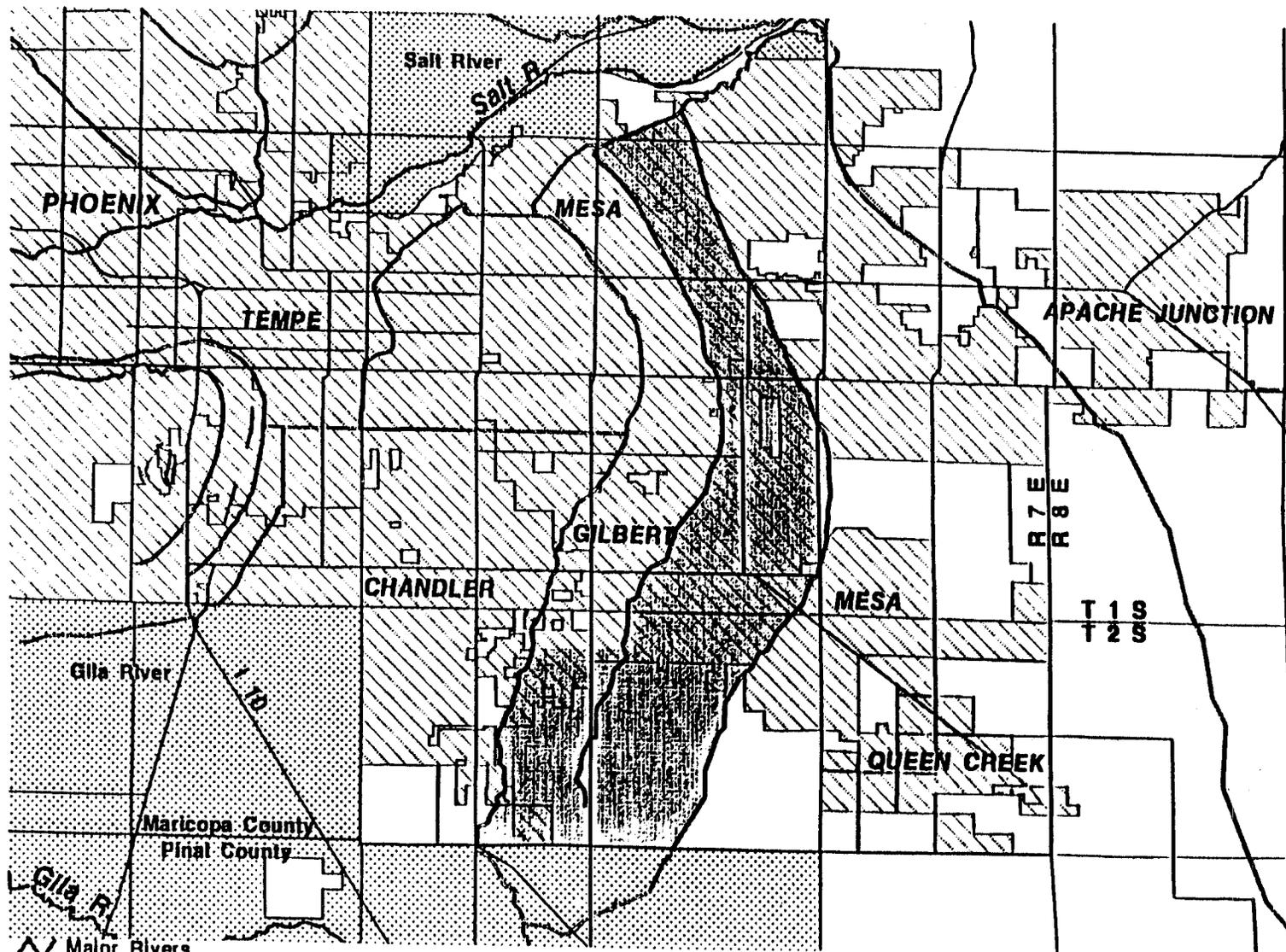
## Ranchos Jardines Irrigation Water Delivery District #34



- Major Rivers
- Canals
- Major Roads
- Townships and Ranges
- Urban Land
- Outside
- Cities
- Roosevelt ID
- Non-RID Land
- RID Land

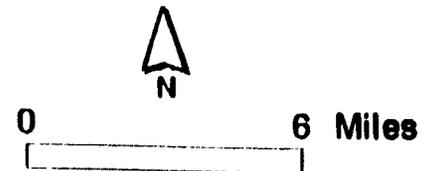


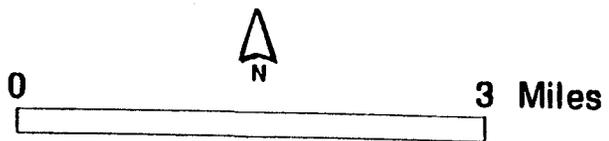
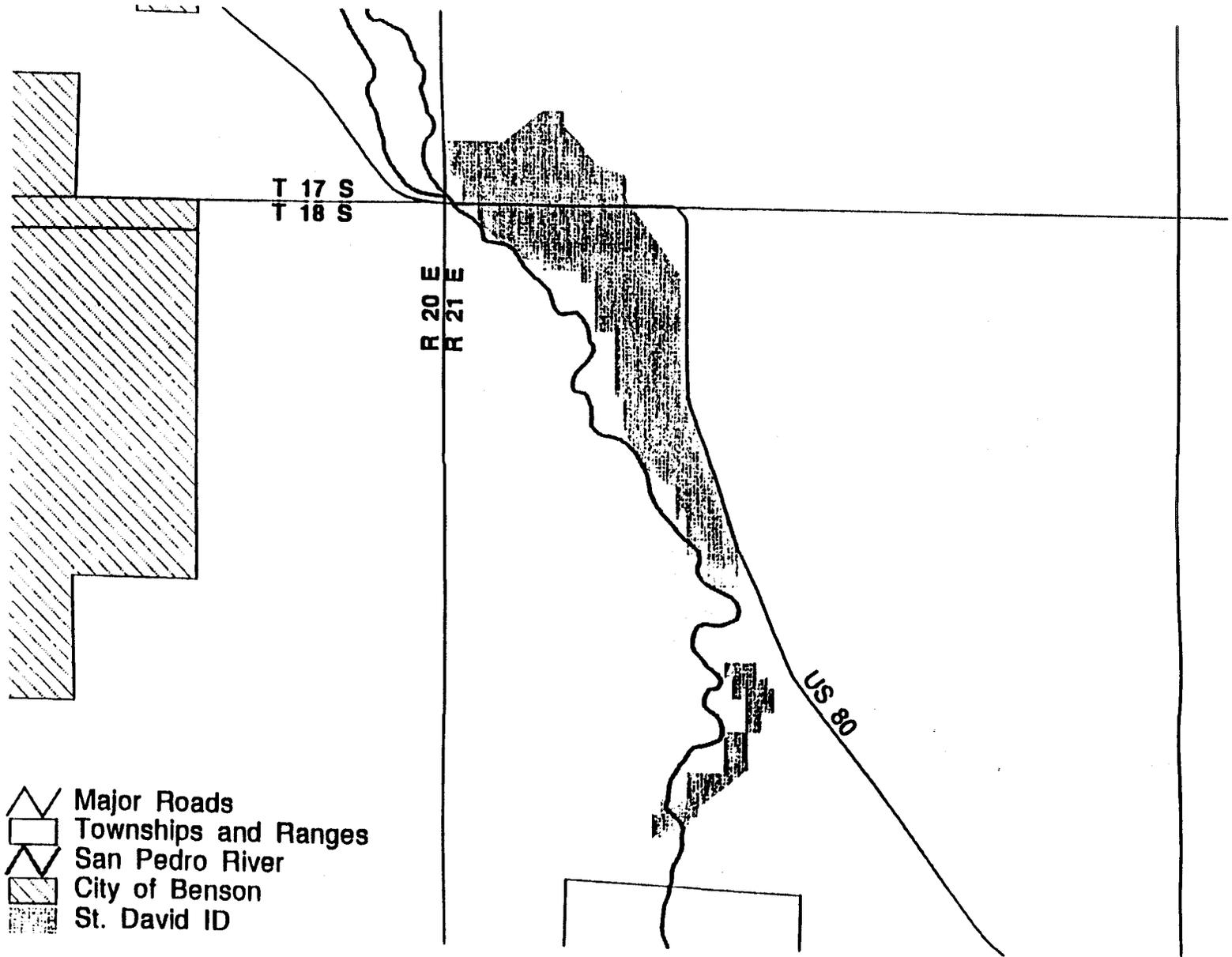
# Roosevelt Irrigation District



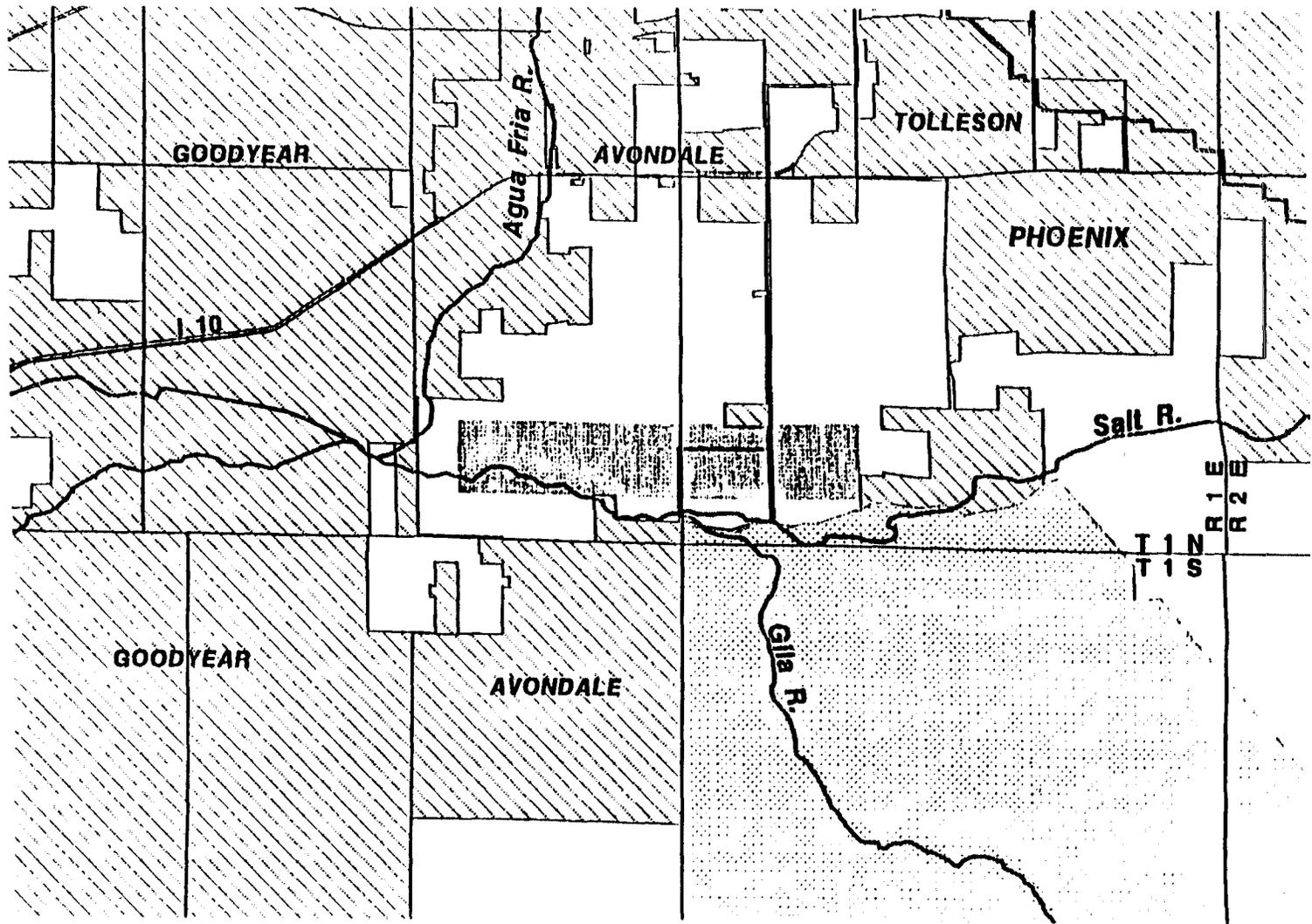
- Major Rivers
- Canals
- Major Roads
- Counties
- Townships
- Indian Communities
- Non-Indian Land
- Indian Land
- Urban Land
- Outside
- Cities
- Roosevelt WCD

# Roosevelt Water Conservation District





# St. David Irrigation District

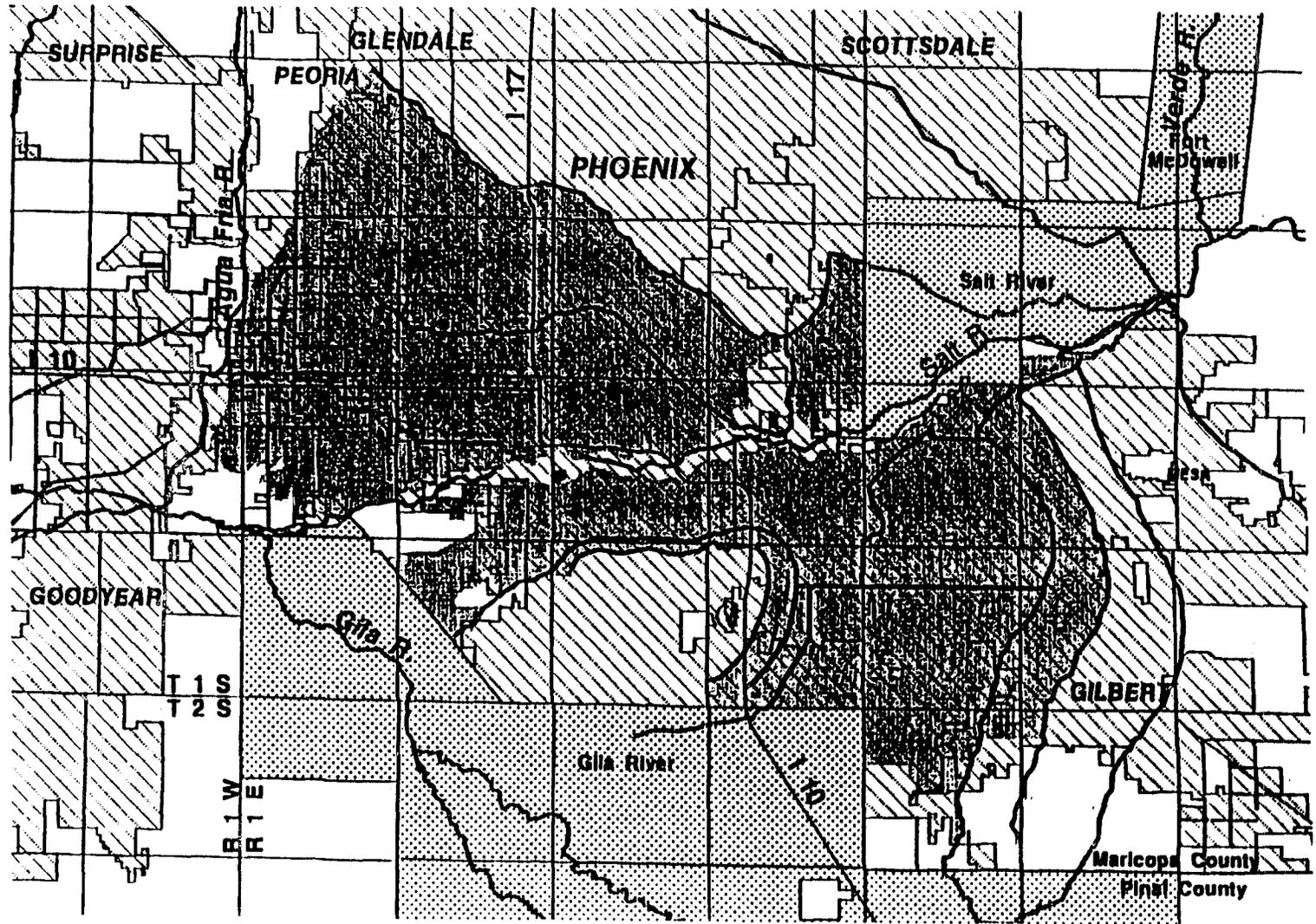


- Major Rivers
- Canals
- Townships and Ranges
- Major Roads
- Gila River Indian Comm.
- Urban Land
- Outside
- Cities
- St. Johns ID

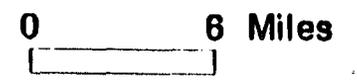
# St. Johns Irrigation District



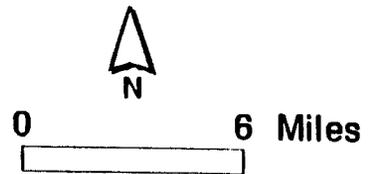
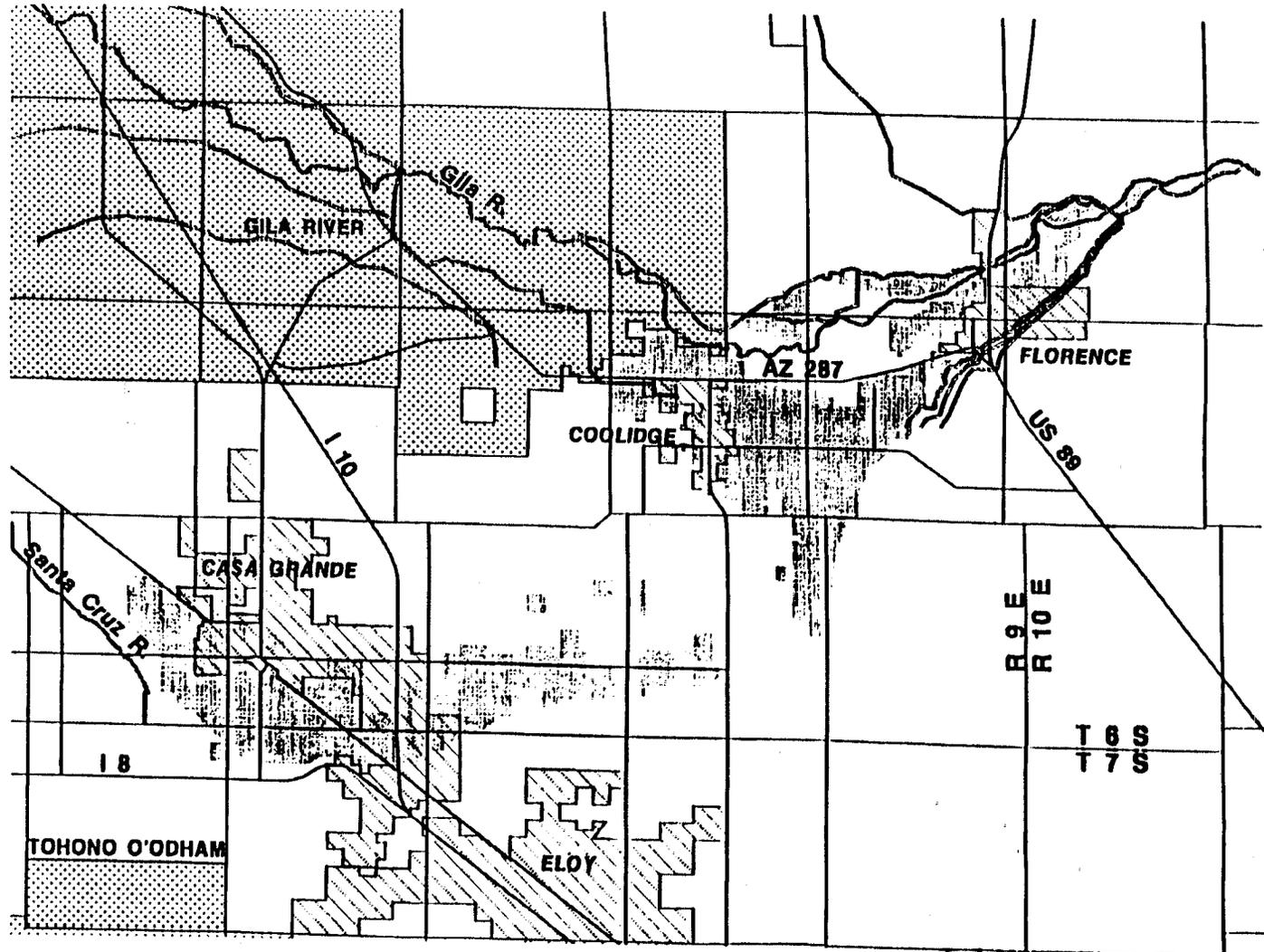
0 3 Miles



- Canals
- Interstates
- Counties
- Major Rivers
- Townships and Ranges
- Indian Communities
- Non-Indian Land
- Indian Land
- Urban Land
- Outside
- Cities
- SRVWUA

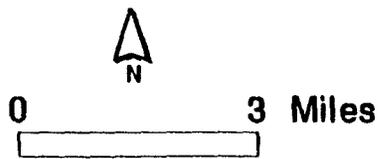
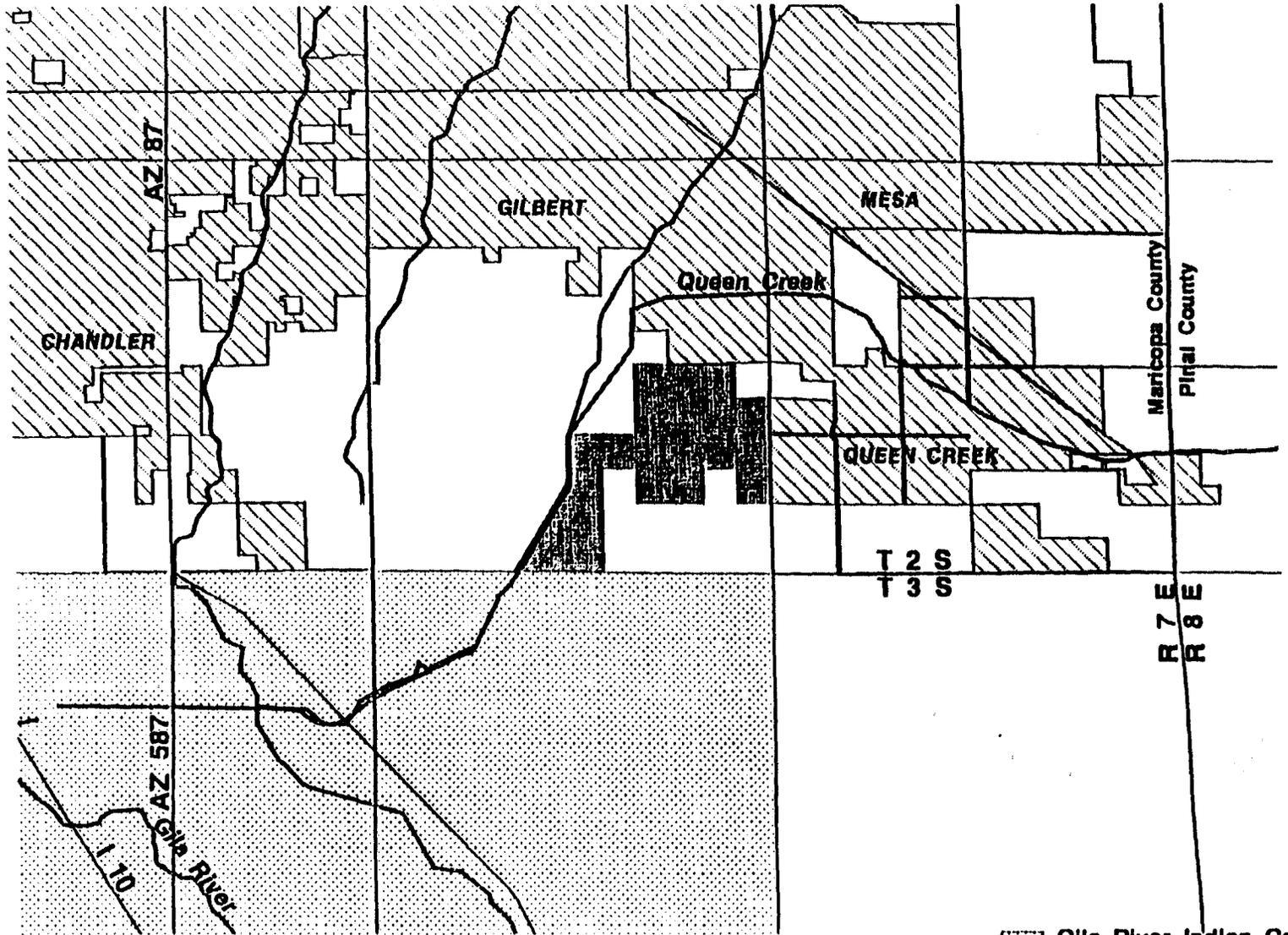


## Salt River Valley Water Users' Association



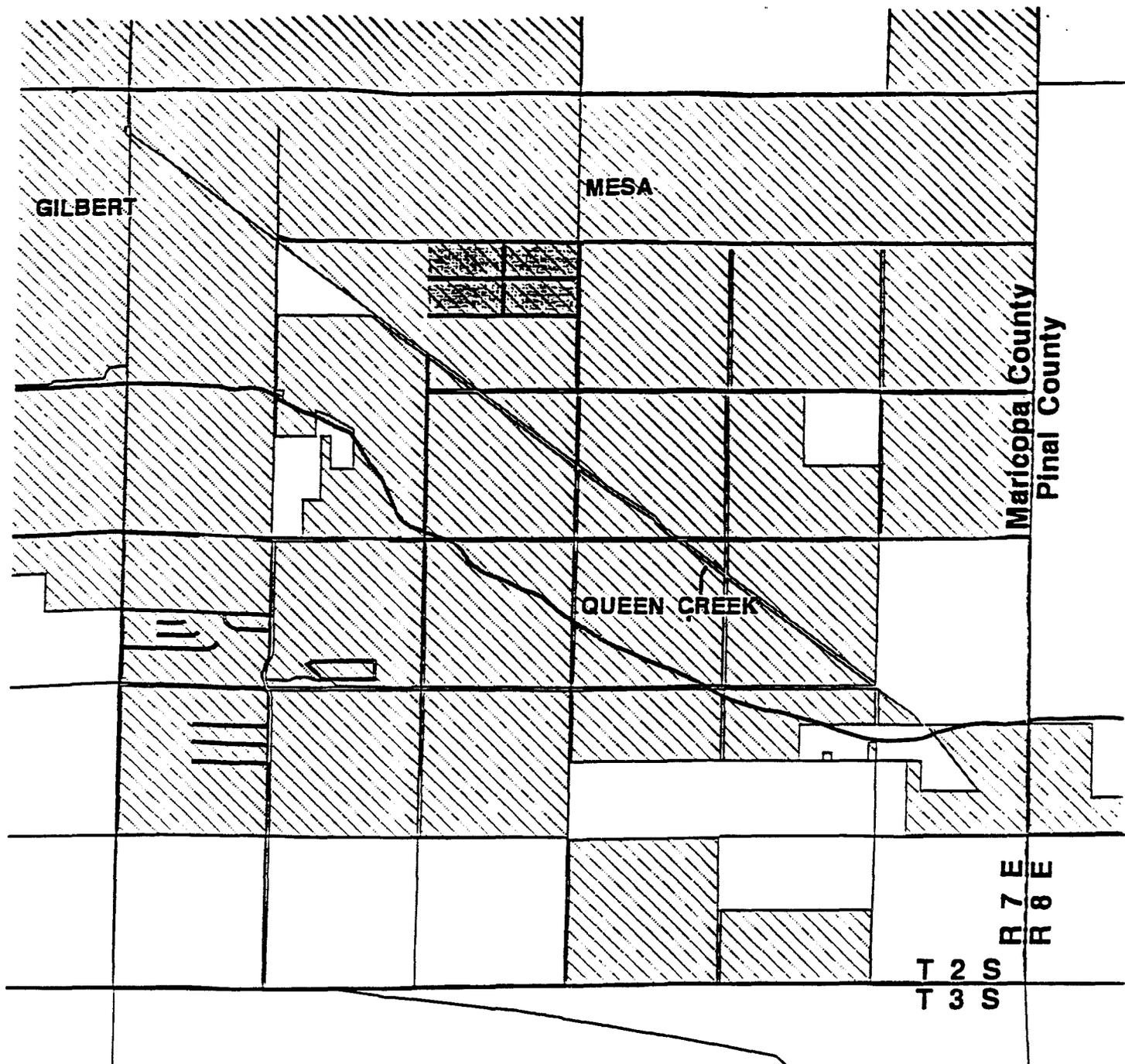
### San Carlos Irrigation and Delivery District

- Major Rivers
- Canals
- Major Roads
- Townships and Ranges
- Indian Communities
- Non-Indian Land
- Indian Land
- Urban Land
- Outside
- Cities
- San Carlos IDD
- Non-SCIDD Land
- SCIDD Land

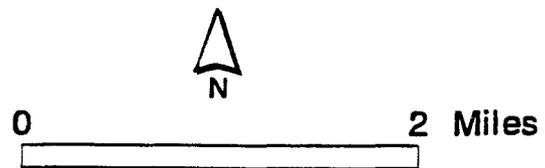


### San Tan Irrigation District

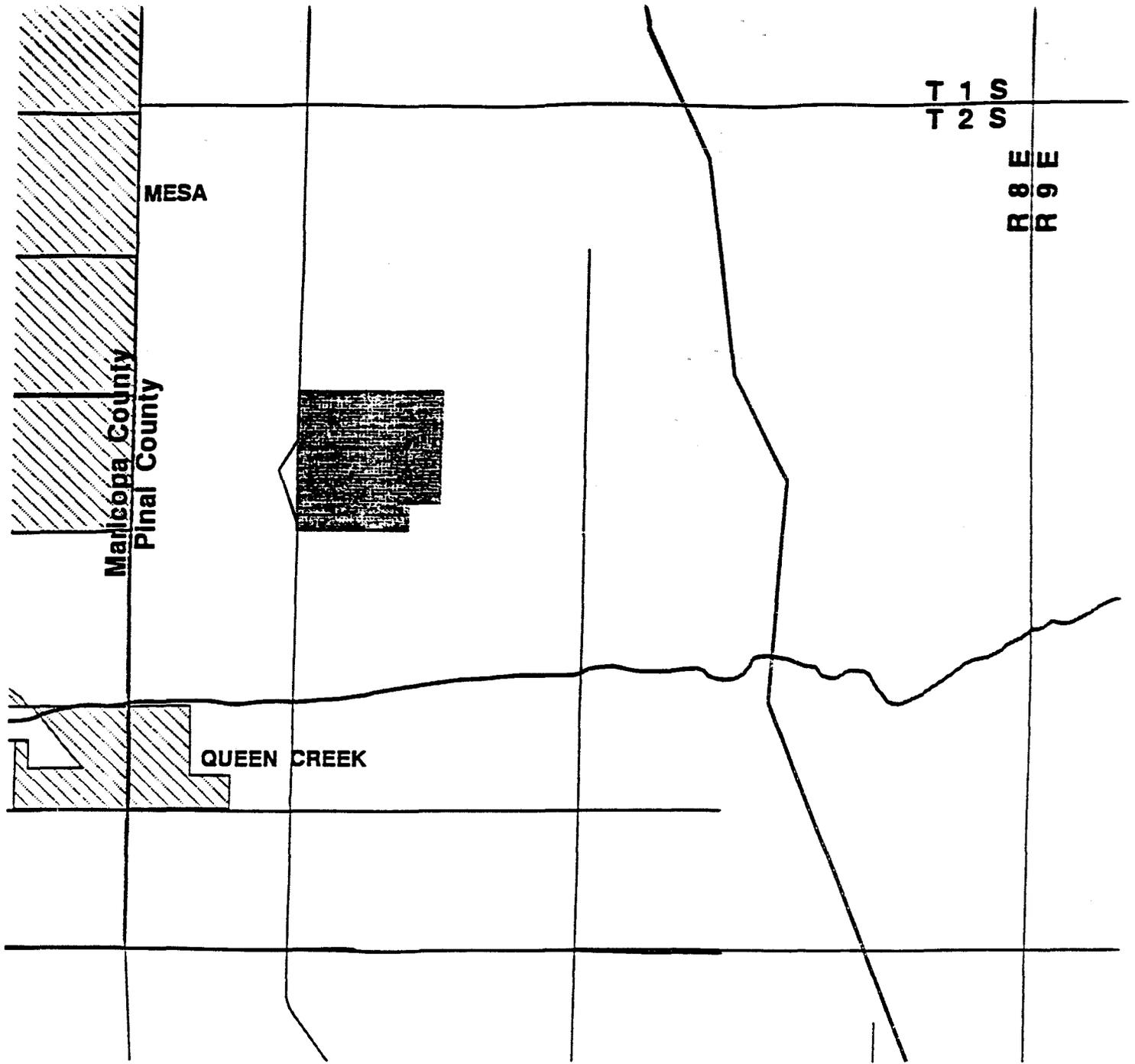
- Gila River Indian Community
- Major Rivers
- Canals
- Major Roads
- Counties
- Townships and Ranges
- Urban Land
- Outside
- Cities
- San Tan ID



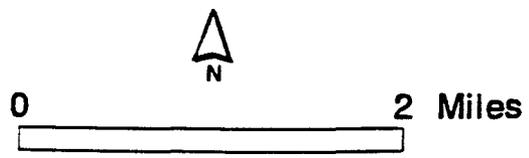
- Urban Land
- Cities
- Outside
- Counties
- Townships and Ranges
- Roads
- Queen Creek
- Suburban ID



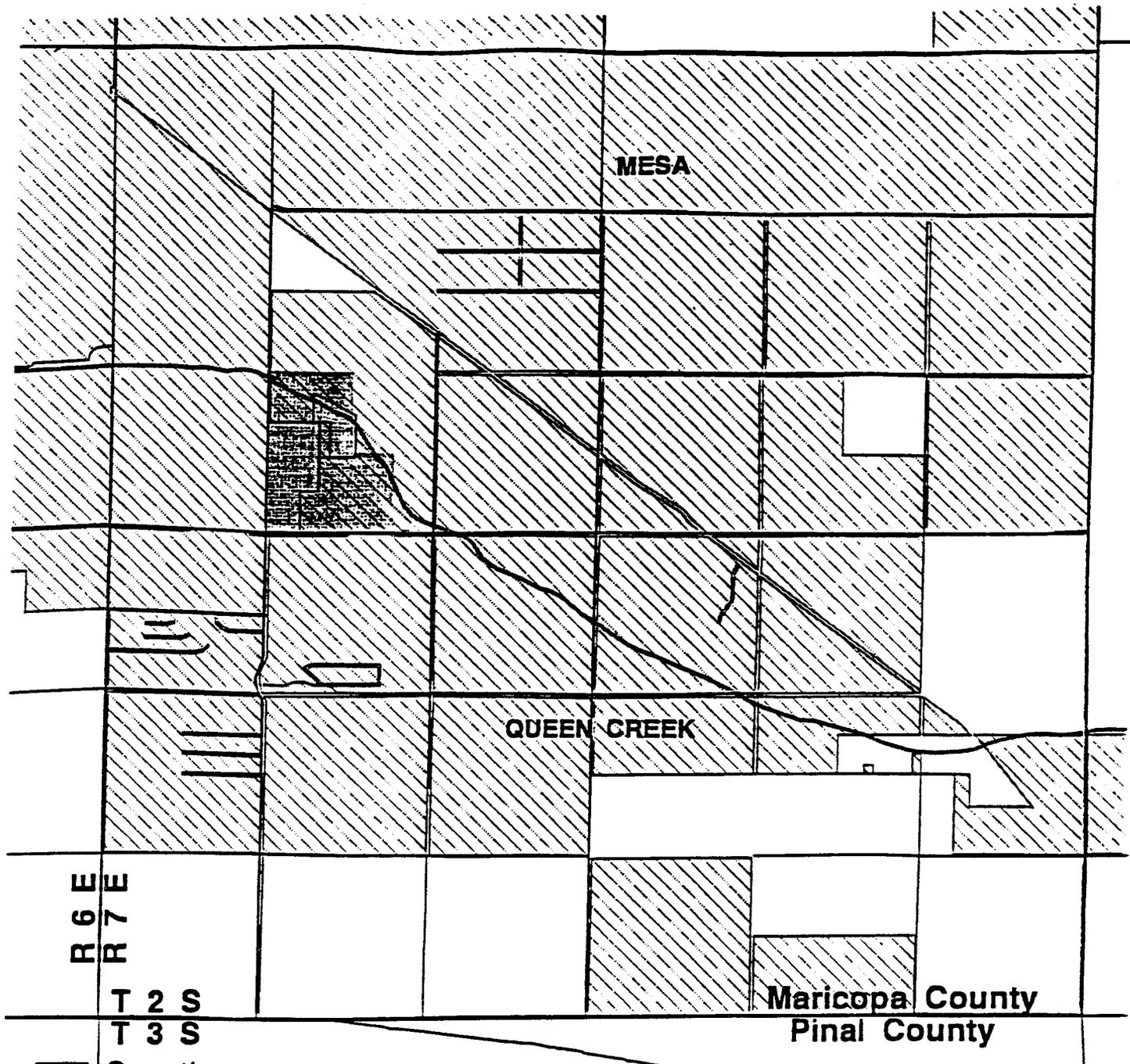
### Suburban Irrigation District



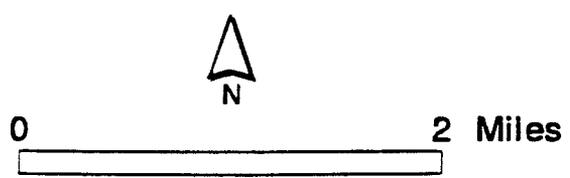
-  Counties
-  Queen Creek
-  Central Arizona Project Canal
-  Townships and Ranges
-  Roads
-  Urban Land
-  Cities
-  Outside
-  SVF Unit II



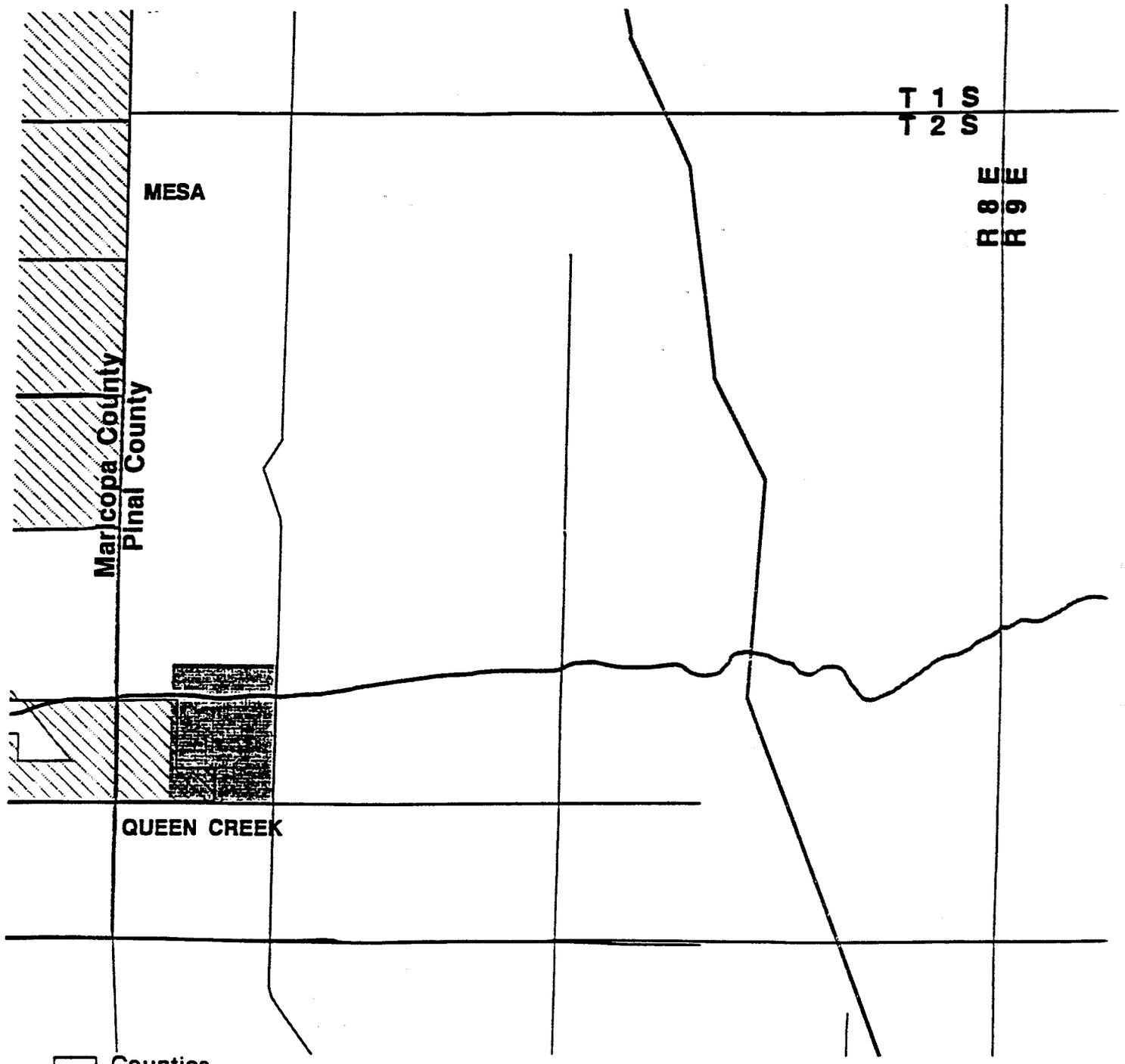
## Sun Valley Farms Unit II



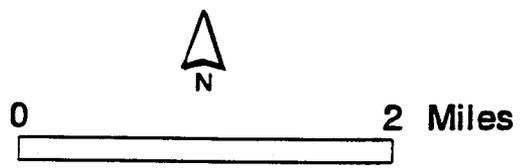
-  Counties
-  Townships and Ranges
-  Queen Creek
-  Roads
-  Urban Land
-  Cities
-  Outside
-  SVF Unit III



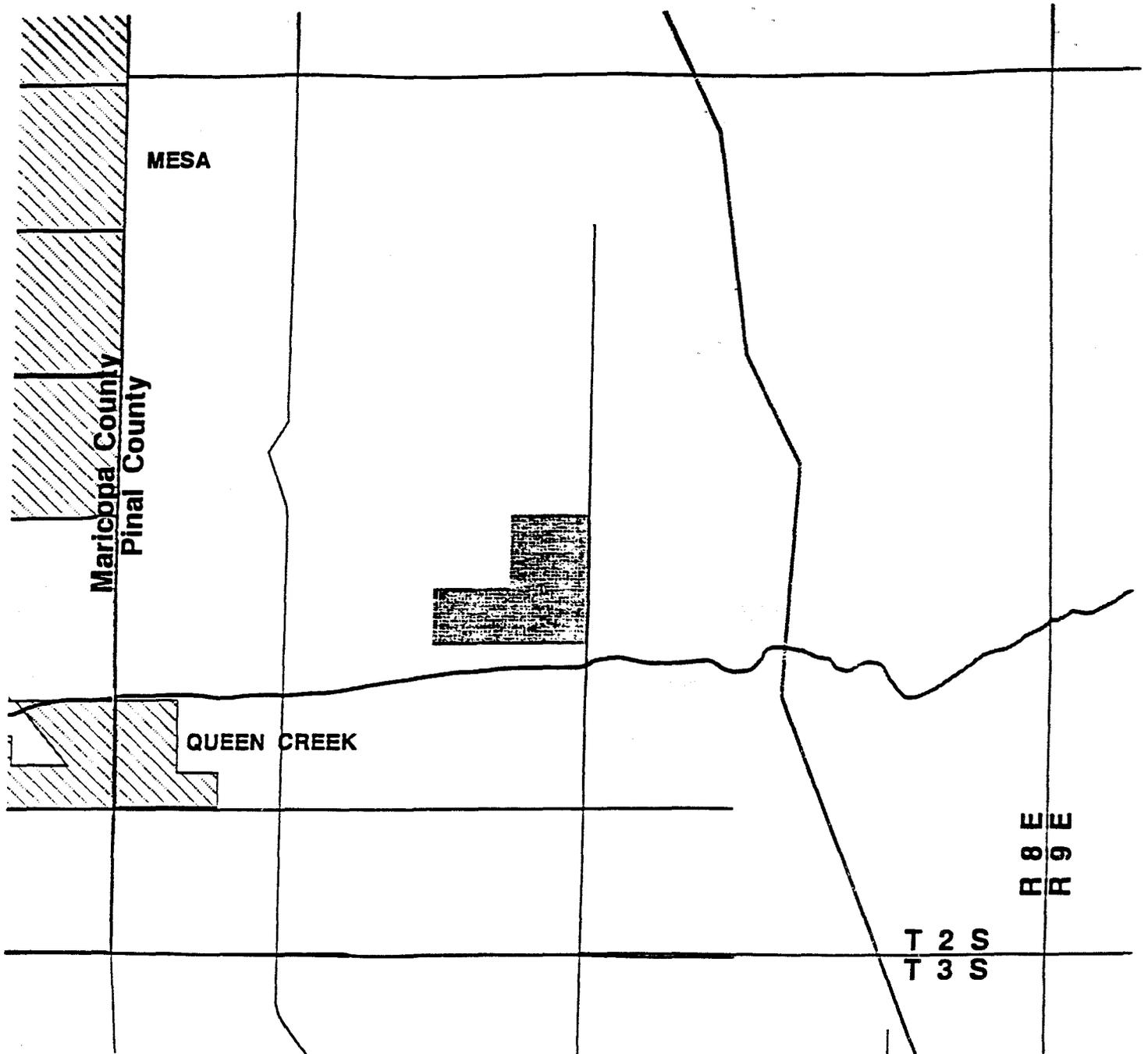
### Sun Valley Farms Unit III



-  Counties
-  Roads
-  Townships and Ranges
-  Central Arizona Project Canal
-  Queen Creek
-  Urban Land
-  Cities
-  Outside
-  SVF Unit IV



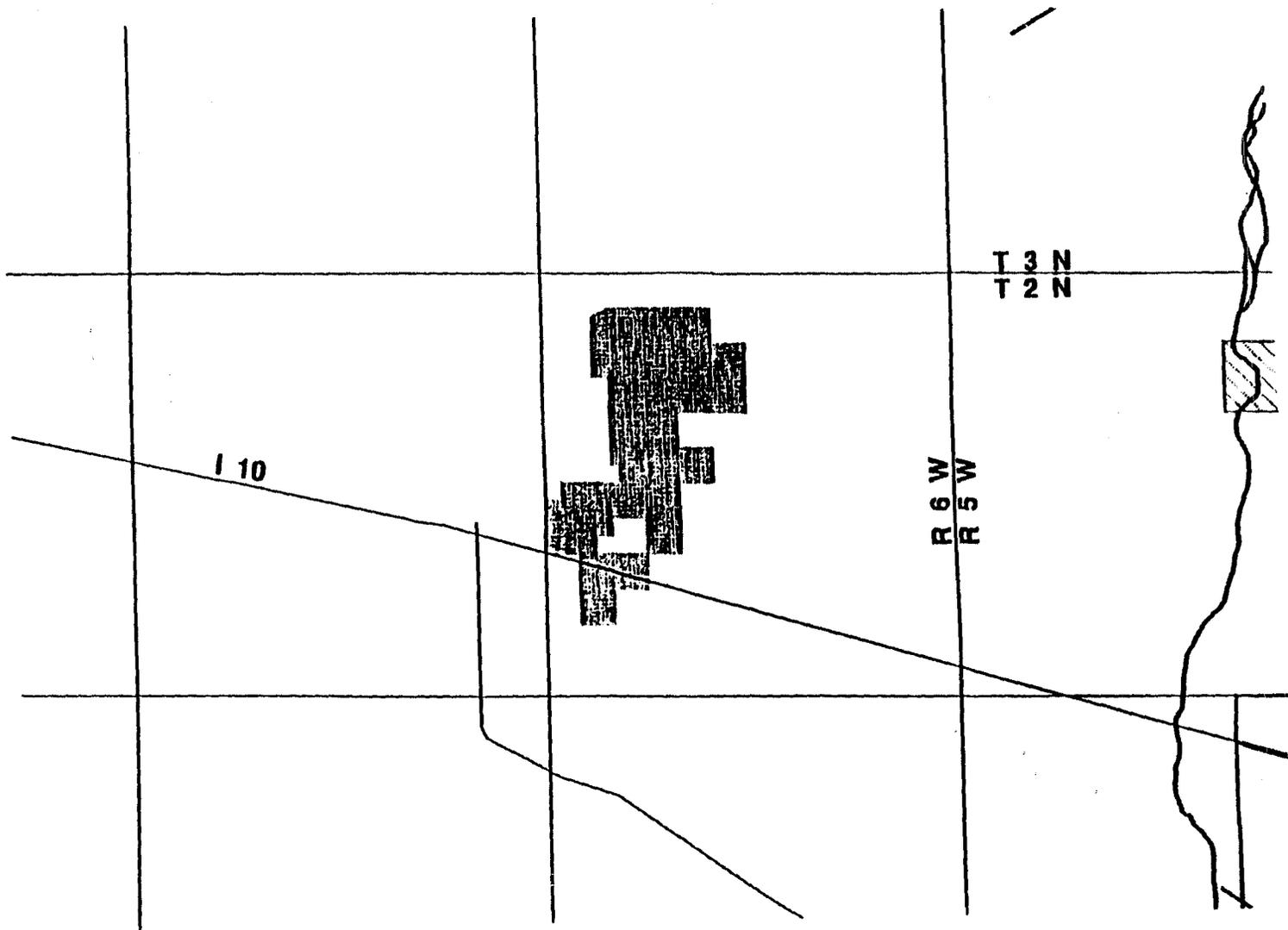
# Sun Valley Farms Unit IV



-  Counties
-  Townships and Ranges
-  Roads
-  Central Arizona Project Canal
-  Queen Creek
-  Urban Land
-  Cities
-  Outside
-  SVF Unit VII

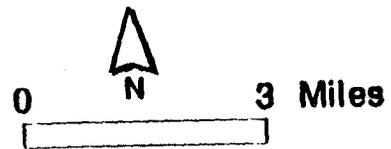


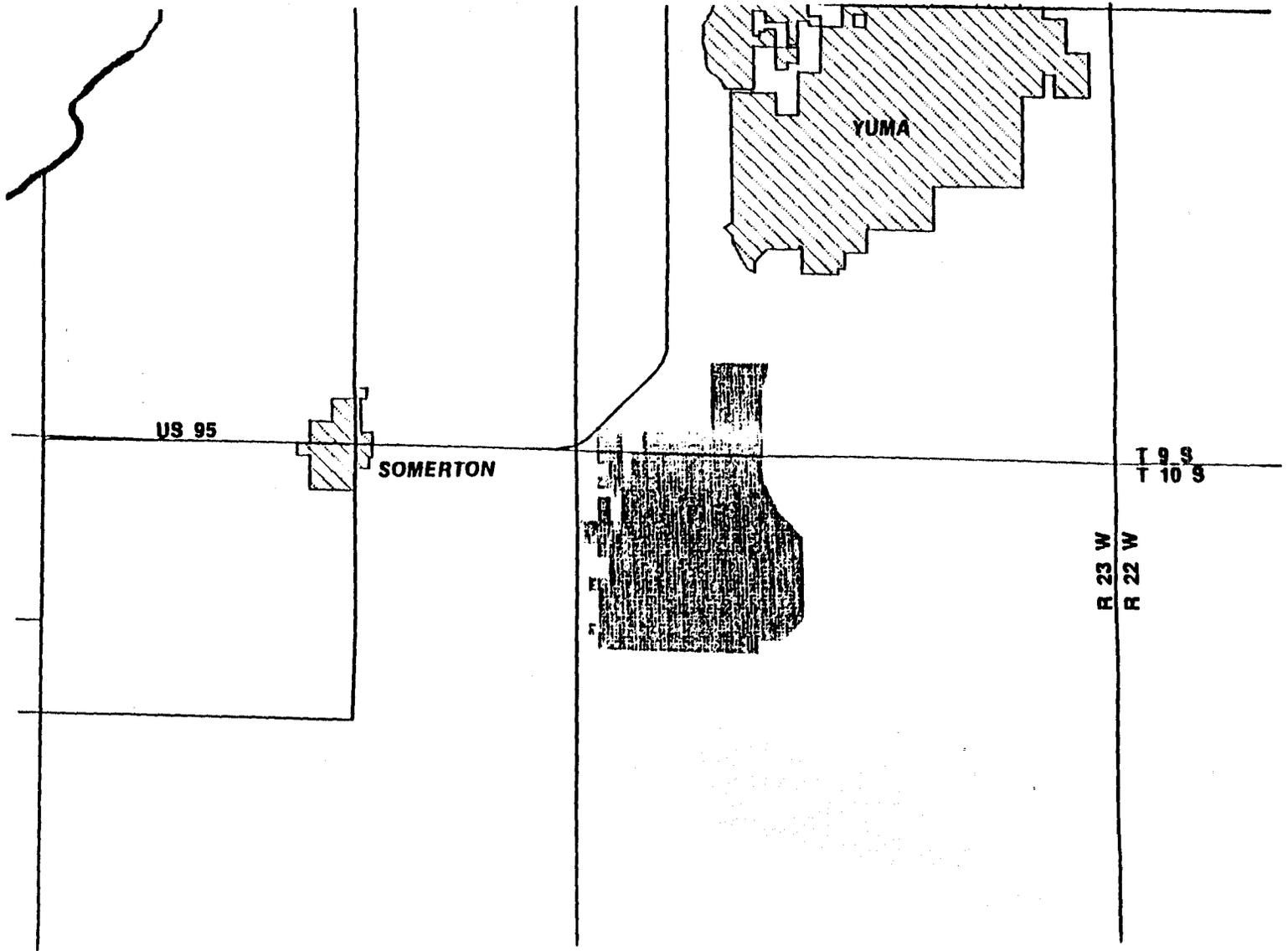
### Sun Valley Farms Unit VII



- Hassayampa River
- Canals
- Major Roads
- Townships and Ranges
- Urban Land
- City of Buckeye
- Outside
- Tonopah ID
- Non-Tonopah ID Land
- Tonopah ID Land

# Tonopah Irrigation District

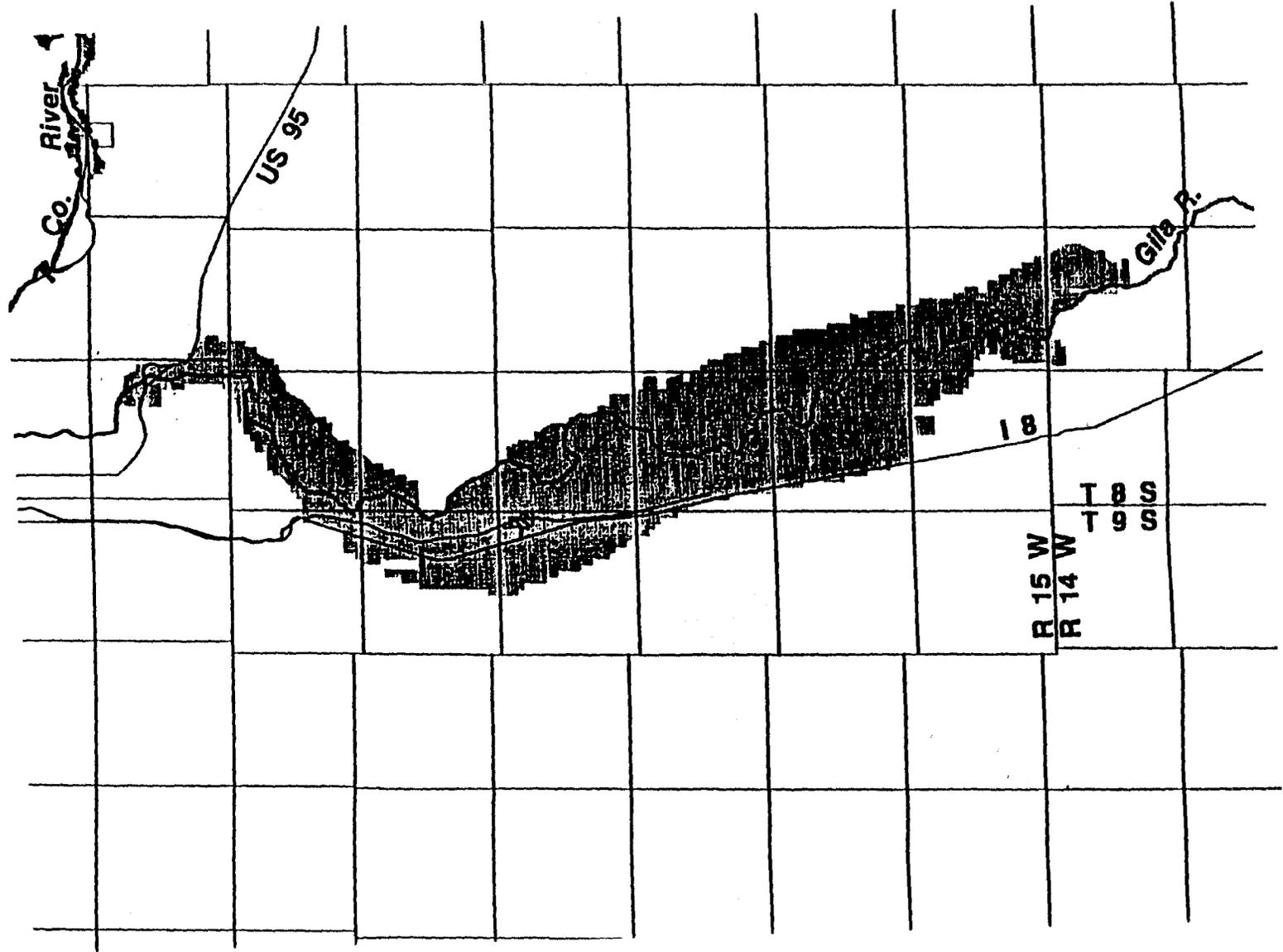




-  Colorado River
-  Major Roads
-  Townships and Ranges
-  Urban Land
-  Outside
-  Cities
-  Unit B IDD

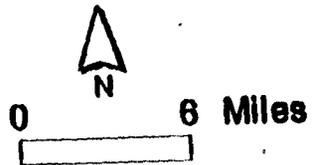
## Unit B Irrigation and Drainage District

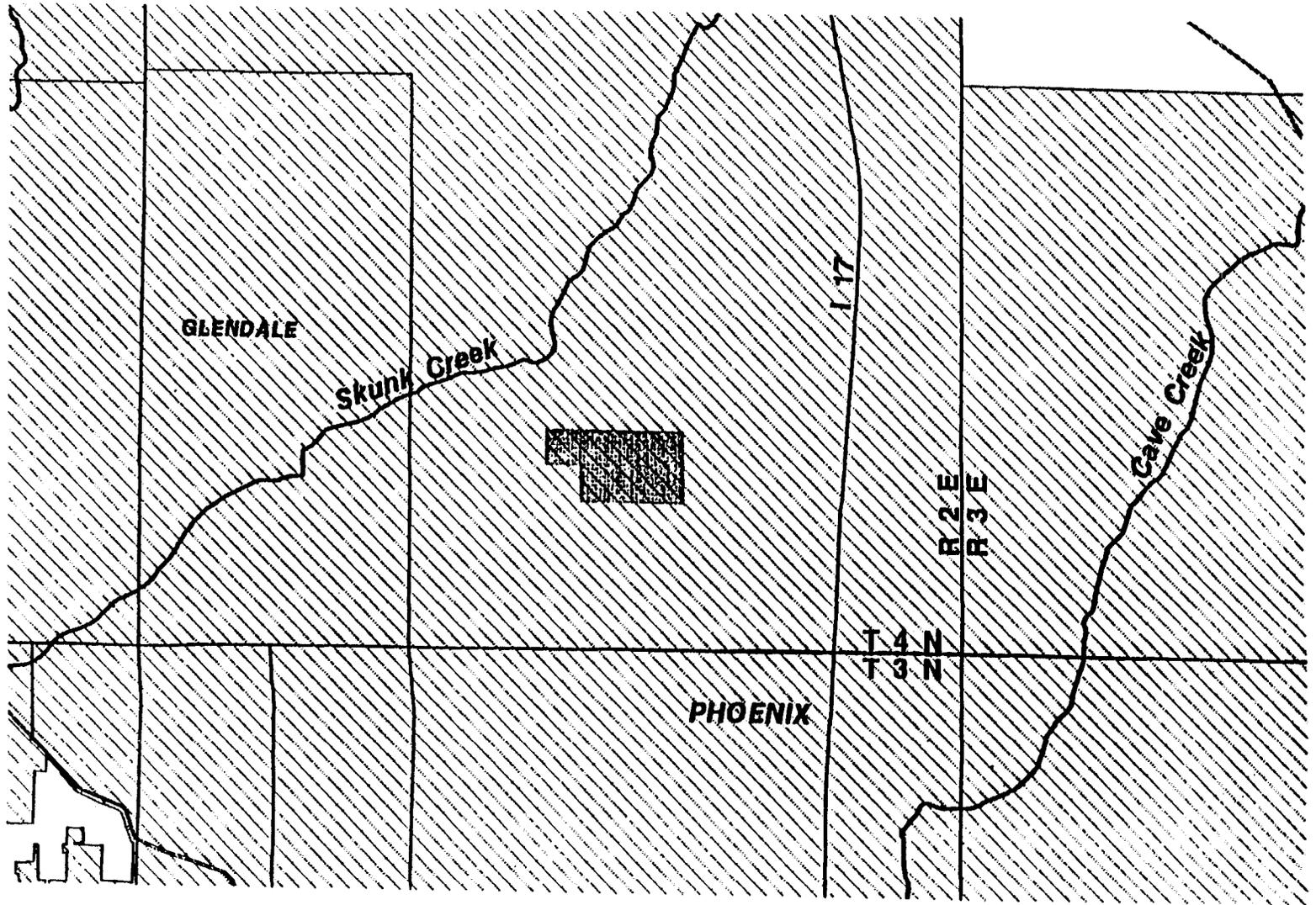




-  State Line
-  Rivers
-  Major Roads
-  Townships and Ranges
-  City of Wellton
-  Wellton Mohawk IDD

# Wellton - Mohawk Irrigation and Drainage District

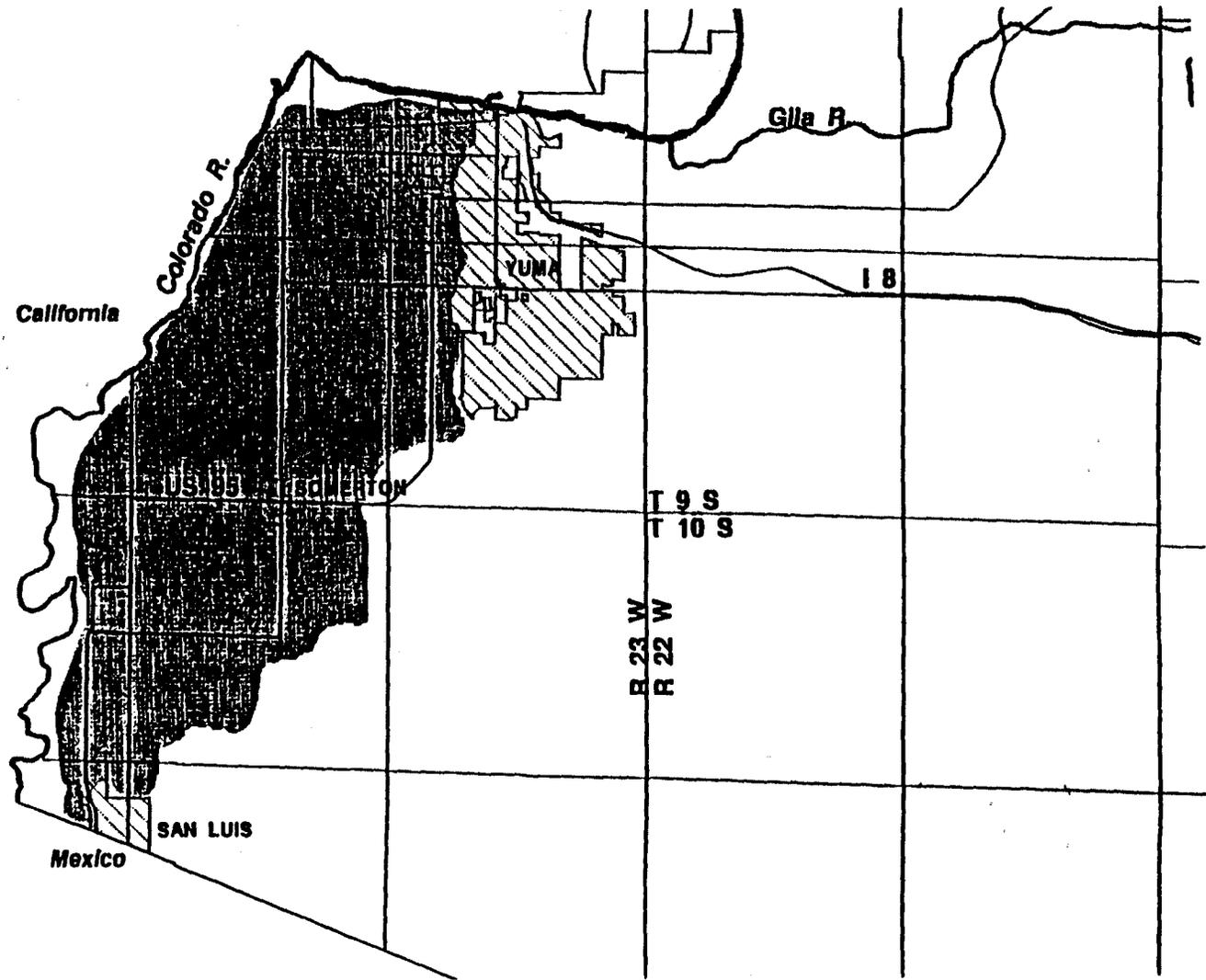




-  Creeks
-  Major Roads
-  Townships and Ranges
-  Canals
-  Urban Land
-  Outside
-  Cities
-  Western Meadows ID

### Western Meadows Irrigation District



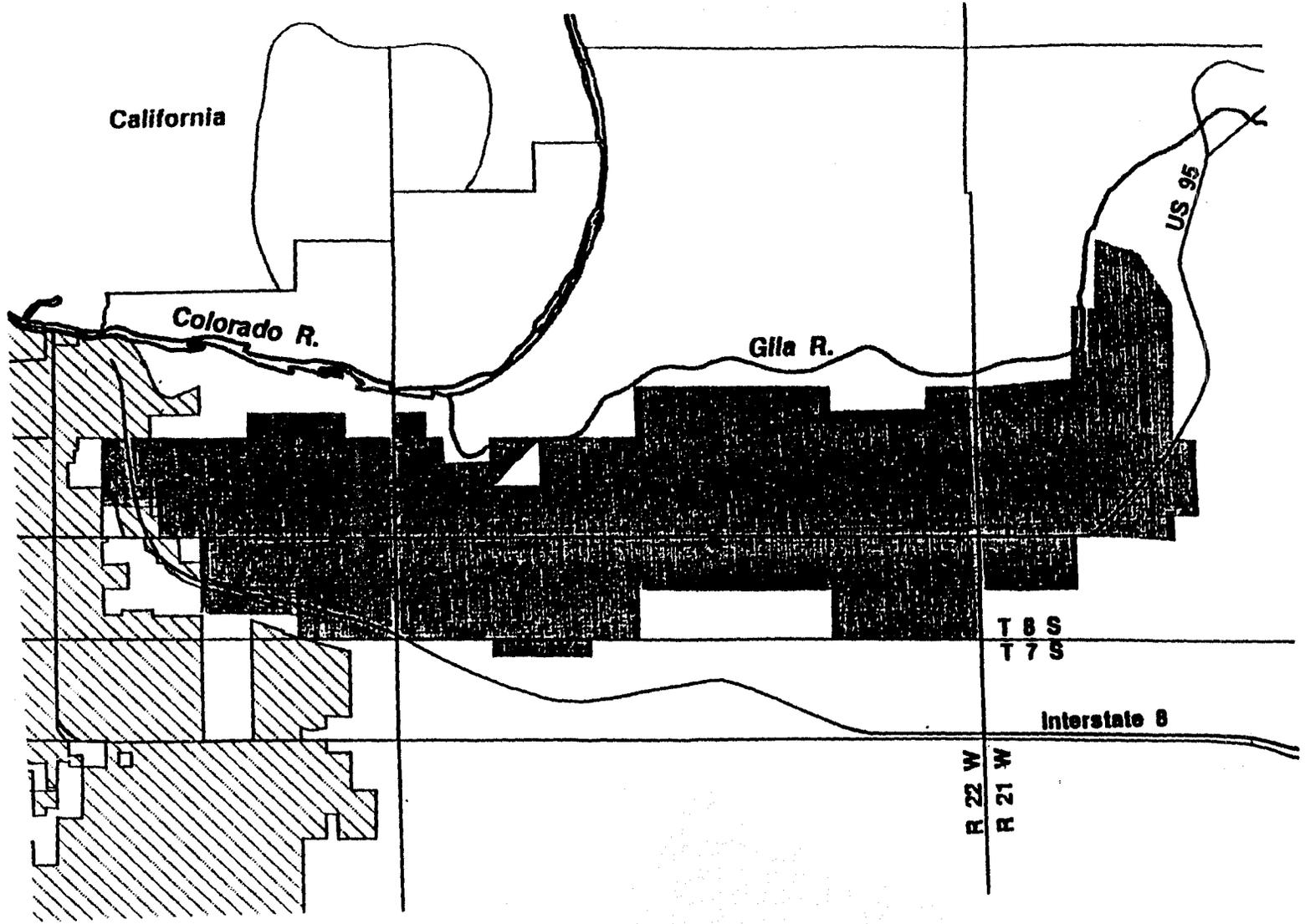


-  State Outline
-  Major Roads
-  Rivers
-  Townships and Ranges
-  Urban Land
-  Cities
-  Outside
-  Yuma County WUA

## Yuma County Water Users' Association

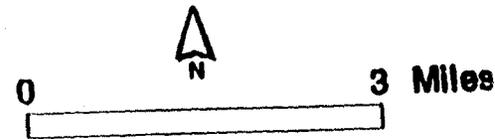


A-53

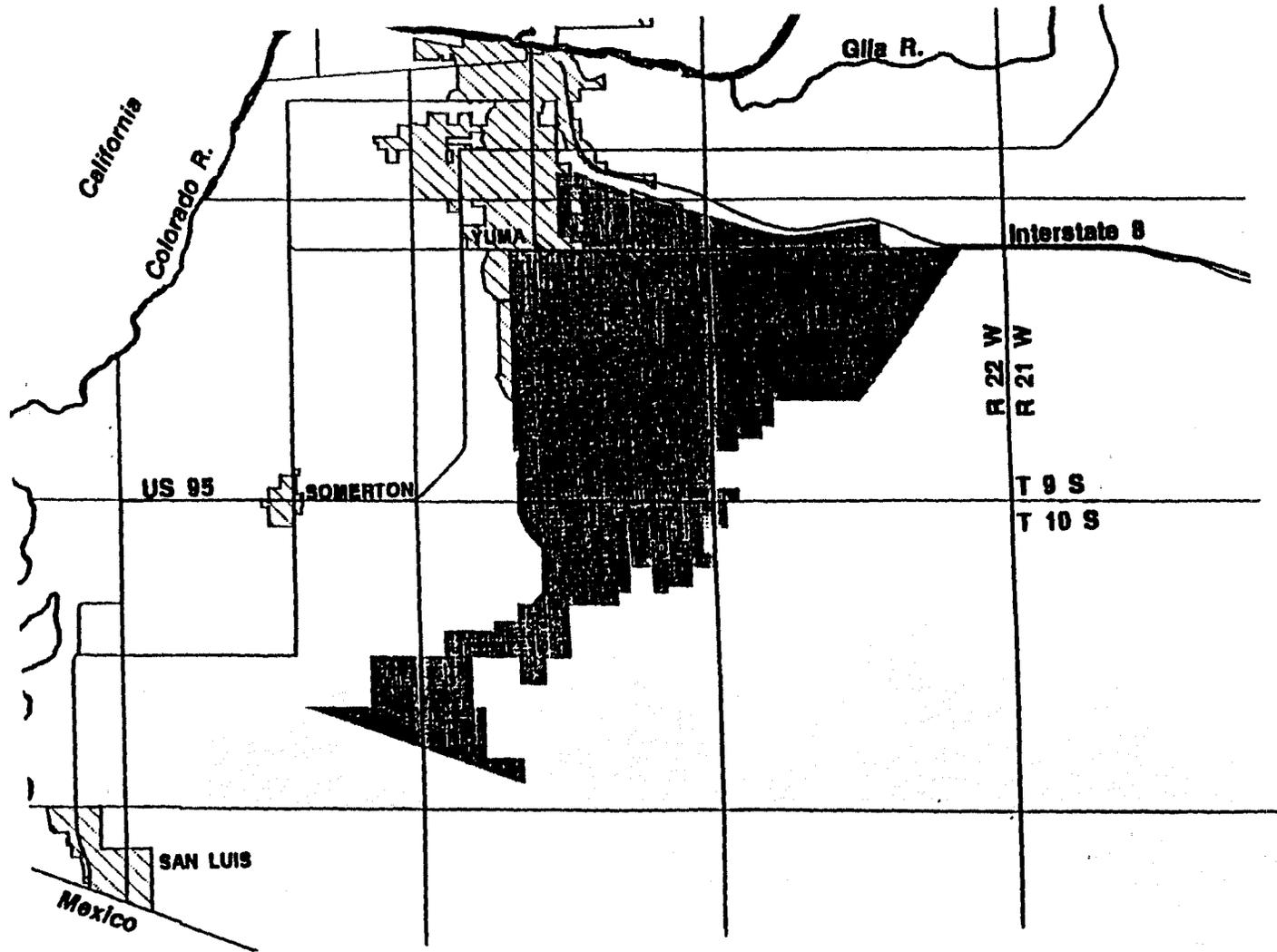


-  State Line
-  Townships and Ranges
-  Rivers
-  Major Roads
-  Urban Land
-  City of Yuma
-  Outside
-  Yuma Irrigation District
-  Non-YID Land
-  YID Land

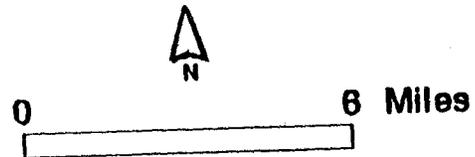
# Yuma Irrigation District



A-54



-  State Outline
-  Major Roads
-  Rivers
-  Townships and Ranges
-  Urban Land
-  Cities
-  Outside
-  Yuma Mesa IDD
-  Non-YMIDD Land
-  YMIDD land



## Yuma Mesa Irrigation and Drainage District