#### SURVEY OF IRRIGATION ORGANIZATIONS

OMB No. Approval Expires: 1/1/0001 Project Code: 913 Survey ID: 5070



United States
Department of
Agriculture

ECONOMIC RESEARCH SERVICE



NATIONAL AGRICULTURAL STATISTICS SERVICE

#### **USDA/NASS**

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Please make corrections to name, address, and ZIP Code, if necessary.

We are collecting information on facilities, operation, revenue, costs, and practices for irrigation organizations. These are organizations that either deliver water directly to farms and ranches for irrigation or directly impact the use of groundwater by farms and ranches. Some organizations serve both water delivery and groundwater management roles. We need your help to make this information as accurate as possible.

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality. Response is voluntary.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB number is . The time required to complete this information collection is estimated to average 60 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

We encourage you to refer to your organization's records and annual reports during the interview.

- Submit your report by mail or via the internet at www.agcounts.usda.gov
- If you have received multiple questionnaires, then you are associated with multiple organizations identified by USDA. The goal of this data collection effort is to better understand operations, investments, and management at the organizational level, so how you should respond depends on the specifics of these organizations. If the multiple organizations with which you are associated are legally, functionally, or in any other critical way separate, then you or someone else associated with the organizations should fill out a separate questionnaire for each separate organization.
- If you have questions or need assistance, call 1-888-424-7828

Print the information below for the person completing this form:

	Name		
XXXX			
	Area Code and Phone Number	Date Completed (MM-DD-YYYY)	
XXXX			
	E-mail		
XXXX			_

Thank you for your cooperation.

#### **SECTION 1 – ORGANIZATION OVERVIEW**

### **Survey Screening Questions**

1.	xxx	ring 2019, did this organization deliver water directly to farms or ranches?  x 1 Yes 3 No		
2.	Du	ring 2015-2018, did this organization deliver water directly to farms or ranches?		
	XXX	X 1 Yes 3 No		
3.	Du	ring 2019, did this organization directly influence groundwater use by farms or ranches in a	iny of these wa	ıys?
	a.	Monitoring and reporting on groundwater conditionsxxxx	1 Yes	3 No
	b.	Collecting metered or self-reported pumping dataxxxx	1 Yes	3 No
	C.	Charging pumping fees or water right feesxxxx	1 Yes	3 No
	d.	Permitting development of new wellsxxxx	1 Yes	3 No
	e.	Managing groundwater rechargexxxx	1 Yes	3 No
	f.	Managing groundwater qualityxxxx	1 Yes	3 No
	g.	Other - specify: XXXX xxxx	1 Yes	3 No

4. If you answered "Yes" to any of the questions in items 1-3, continue. If you answered "No" to all of those questions, go to Section 10.

This survey is for:

- Organizations that deliver irrigation water directly to farms and ranches
- Organizations that directly influence on-farm groundwater pumping for irrigation

These types of organizations should continue to item 5.

Other water-related organizations that should NOT answer this survey include:

- Water research organizations
- Organizations that advocate for agricultural water supplies
- "Storage and pass-through" organizations that deliver water to irrigation districts and ditch companies but not directly to farms
- Drinking water (municipal and industrial) facilities

These types of organizations should go to Section 10.

# **Organization Details**

5.	What other functions	does this organization serve? (Check all that apply.)	
	xxxx Municipal o	or residential water	
	xxxx Electricity	generation	
	xxxx Recreation	or wildlife management	
	xxxx   Agricultura	l drainage management	
	xxxx Flood reter	ntion - main river channel	
	xxxx Other - spe	ecify: xxxx	
6.	What counties does	this organization serve? (List top five.)	
	State Abbreviation	County Name	What percent of irrigated acres served by this organization are in this county?
	xxxx	xxxx	xxxx
Go	overnance Structure		
7.		egistered as a non-profit organization?	
	xxxx <sub>1</sub> Yes	3	
0	le this ergenization o	n accordation of multiple irrigation districts or ditab companies?	
ο.	xxxx <sub>1</sub> Yes	n association of multiple irrigation districts or ditch companies?  3 No	
		<b>□</b>	
9.	Do water users have	input into this organization's management decisions in the following	ng ways?
	a. Through voting o	n key decisions at regular meetings	xxxx 1 Yes 3 No
	b. Through represe	ntatives on an appointed board	xxxx 1 Yes 3 No
	c. Through represe	ntatives on an elected board	xxxx 1 Yes 3 No
	XXXX 1 C	elected board, how are users' votes allocated? (Check one.) On a proportional basis (e.g. one vote per share/acre/acre-foot) One vote per user/customer/account	
		Other - specify: xxxx	<u> </u>

## SECTION 2 – DELIVERY OF OFF-FARM WATER

1.			ete this section if your organization delivered water directly to farm Section 3 if your organization did NOT deliver water directly to fa				
2.	Che	eck	the category that best describes your organization:				
	XXX	<b>(</b> ,	Unincorporated mutual (an informal partnership among ditc	h users)			
		:	 ☑	who use a ditch syster	n)		
		;	Irrigation district (an entity given statutory authority to asses	ss taxes and/or fees fo	r wa	ater d	elivery)
			Project operated by U.S. Bureau of Indian Affairs				• ,
		,	Other - specify: xxxx				
Wa	iter	Sup	pply				
3.			s the total amount of water brought into this system's storage and				Acre-Feet
			s in 2019? This total will be broken down by water source in item tal should equal the sum of items 3a, i-v and 3b, i-iv		=	xxxx	
	a.	Of	the total amount of water brought into this system's storage and	convevance facilities			
		in 2	2019 (item 3), how much did this organization obtain directly from				
		SOL	rces, either by contract, agreement, or settlement?			VVVV	Acre-Feet
		i.	A federal irrigation organization or project		+	XXXX	
		ii.	A state irrigation organization or project		+	XXXX	
		iii.	A private or local irrigation organization or project		+	XXXX	
		iv.	A municipal or industrial water system		+	XXXX	
		V.	Any other supplier		+	XXXX	
	b.		the total amount of water brought into this system's storage and (2019 (item 3), how much did this organization divert directly from				
			irces?	each of the following			Acre-Feet
		i.	Natural streams, lakes, or ponds		+	xxxx	
		١.	·			XXXX	
		ii.	A reservoir not reported in items 4a-4e		+		
		iii.	Another organization's drainage water directly entering this systematical entering the systematical entering entering the systematical entering entering the systematical entering	em	+	XXXX	
		iv.	Groundwater pumped from wells owned by this organization		+	XXXX	
			(a) How many water cumply wells did this organization energic				Number
			(a) How many water supply wells did this organization operate in 2019 as a source of water conveyed to farms and ranches	s?			xxxx
				Gallons per Minute (GPM)			Total Capacity (CFS)
			(i) What was the total capacity of those wells?	xxxx	OR	xxxx	
			(1) What was the total capacity of those wells!		JR		

## **Acreage and Water Deliveries**

Note: Please provide your best estimate if exact measurements are not available.

				Number
4.		w many commercial farms and ranches could have received irrigation water ectly from this organization in 2019?		xxxx
				Acres
5.		w many commercial agricultural acres could have received irrigation water ectly from this organization in 2019?	xxxx	
				Number
6.		w many commercial farms and ranches actually received irrigation water ectly from this organization in 2019?		xxxx
				Acres
7.		w many commercial agricultural acres were irrigated in 2019 n water delivered by this organization?	xxxx	
				Percent
8.		at percentage of the commercial agricultural acreage that received irrigation water n your organization in 2019 also received water from other water delivery organizations?		xxxx
9.		w much water was delivered by this organization to the following users? port water at the point it left the control of this organization.		Acre-Feet
			XXXX	7,610 1 001
	a.	Commercial farms and ranches. +		
	b.	Residential or domestic users (include small, non-commercial farms and ranches) +	xxxx	
	C.	Other irrigation organizations. +	xxxx	
	d.	Industrial plants, municipal water systems, recreational organizations (e.g. golf courses), public installations, etc	xxxx	
	e.	Total water delivered to users	XXXX	
10.		addition to water reported in item 9, how much other water exited this organization's stem in the following ways? (Exclude on-farm losses and crop consumptive use.)		Acre-Feet
	a.	Released from the system for down-stream users	xxxx	
	b.	Released to meet in-stream or environmental flow requirements	XXXX	
	C.	Diverted for groundwater recharge	XXXX	
	d.	Conveyance losses	XXXX	
	e.	Other releases	XXXX	

# Scheduling

11. Describe the (field) turnouts on your system where water is delivered to farmers:

Turnout Type	Structures/Gates Operated by Organization Staff (Number)	Structures/Gates Operated by the Irrigator (Number)	Metered Diversion Structures (Percent)
Calibrated slide gates	xxxx	xxxx	xxxx
Manual metergates	xxxx	xxxx	xxxx
Automated flow control	xxxx	xxxx	xxxx
Crested weir	xxxx	xxxx	xxxx
Pump	xxxx	xxxx	xxxx
Siphon tubes	xxxx	xxxx	xxxx

12. What rotation schedule best describes the way this organization delivers water? (Check one.)	
xxxx 1 Fixed rotation / Modified Rotation / Unlimited rotation	
2 Days between deliveries (use average if not a fixed rotation)	
3 Hours of advanced notice required to schedule a delivery (if not a fixed rotation)	
4 Other - specify: xxxx	
	Days
13. What is the average rotation length (e.g. days between deliveries) on your system?	xxxx
14. Does this organization require advanced notice to turn off deliveries?	
14. Does this organization require advanced notice to turn off deliveries?	
Yes 3 No	
15. How flexible is this organization in adjusting the duration of deliveries? (Check one.)	
xxxx 1 Changes in duration rarely allowed	
<sub>2</sub> Fixed duration (e.g. 12 or 24 hours)	
3 Varying durations are allowed	
	Hours
16. What is the average duration for deliveries (e.g. keeping turnout gates open) on your system?	xxxx
(g. and and a gradual series and a gradual	

Water	<b>Transfers</b>	by '	this	Org	gani	izatio	n
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	or removed by and organization		
17.	Report the water rights for users of this organization -	Acre-Feet of Rights	Acre-Feet of Contracts
;	a. held by the organization	xxxx	xxxx
1	b. held directly by the users (farms and ranches)	xxxx	xxxx
	How much of the water reported above was transferred into this system the average price per acre-foot? (Exclude market transfers among users		
	Type of Water Transfer Contract	Total Amount of Water (Acre-Feet)	Average Price (Dollars per Acre-Foot)
	a. One-year lease of water in 2019	xxxx	xxxx
	b. Multi-year lease of water active in 2019	xxxx	xxxx
	c. Permanent water right purchased within the last five years	xxxx	xxxx
19.	Report transfers of water out of your organization's water allocation.		
	Source of Water Transferred Prior to Entering this System	Total Amount of Water (Acre-Feet)	Average Price (Dollars per Acre-Foot)
	a. One-year lease of water in 2019	xxxx	xxxx
	b. Multi-year lease of water active in 2019	xxxx	xxxx
	c. Permanent water right purchased within the last five years	xxxx	xxxx
	If water rights were not purchased or sold, indicate the reasons why. (Chexxxx	r entice a sale	2019
	er Allocation Within Your System		
	Are users able to transfer water or trade allocations within your system?		
	Yes – Continue 3 No – Go to item 22		Number
;	a. How many trades occurred in 2019?		xxx
			Acre-Feet
1	b. What was the total amount of water traded within this system in 2019	9?	xxxx
			Dollars per Acre-Foot
(	c. What was the average price per trade?		xxx

#### **Storage and Conveyance Facilities**

22. How many reservoirs did this organization operate in 2019 and what was their total capacity?

Туре	Number	Total Capacity (Acre-Feet)
Storage reservoirs	xxxx	xxxx
Regulating or return flow reservoirs	xxxx	xxxx

23. Report the details of your three largest reservoirs below.

		Complete these columns if NID ID number is not provided.			
Reservoir Number	National Inventory of Dams (NID) ID Number <sup>1</sup>	Total Filled Capacity (Acre-Feet)	Total Withdrawals for Irrigation in 2019 (Acre-Feet)		
1	xxxx	xxxx	xxxx		
2	xxxx	xxxx	xxxx		
3	xxxx	xxxx	xxxx		

<sup>&</sup>lt;sup>1</sup> This is a seven character code consisting of a two letter state code followed by five digits, including leading zeros. (e.g. AK00311)

24. Report the number of pumps used by this organization to deliver water in 2019.

		A	Average		
Туре	Number	Gallons per Minute (GPM)	OR	Total Capacity (CFS)	Vertical Lift (Feet)
a. Used on water supply wells	xxxx	xxxx	OR	xxxx	xxxx
b. Used for diversion from streams, reservoirs, lakes or ponds	xxxx	xxxx	OR	xxxx	xxxx
c. Other pumps (e.g. relift within system)	xxxx	xxxx	OR	xxxx	xxxx

	Percent of Water Diverted
25. What are the estimated conveyance losses within this organization's delivery system?	. xxxx
26. How does this organization estimate conveyance losses? (Check one.)	
xxxx 1 Measurement at multiple points within the system	
2 Modeling or estimation	
3 Average loss coefficient	
4 Other - specify: xxxx	

27. Report the off-farm water conveyance facilities that were used to deliver water or drainage flows in 2019.

Туре	Total Length	Length of High-Volume Facilities (>50 CFS)
	(Miles)	(Miles)
a. Unlined main canals	xxxx	xxxx
b. Lined main canals	xxxx	xxxx
c. Main pipelines	xxxx	xxxx
d. Unlined lateral canals or ditches	xxxx	xxxx
e. Lined lateral canals or ditches	xxxx	xxxx
f. Lateral pipelines	xxxx	xxxx
g. Drains maintained	xxxx	xxxx
h. Tunnels	xxxx	xxxx

	r unlined canals, report the reason(s) for keeping canals unlined. Report miles for all that are appart apply.)	olicable. (Check all
>	CXXX Lining is too expensive: XXXX Miles	
>	Water loss is limited due to soils and geology: xxxx Miles	
>	Canals may provide groundwater recharge: xxxx Miles	
>	Other - specify: xxxx : xxxx Mile	es
Syste	m Constraints	
	nder normal water supply conditions, what percentage of time can the organization's water deliver w volume and rate requested by irrigators during peak-flow water demand? (Check one.)	ry system provide the
XXX	<sup>α</sup> <sub>1</sub> 100 percent	
	<sub>2</sub> 80 to less than 100 percent	
	3 Less than 80 percent	
		Level of Significance
sy	nder normal water supply conditions, what components of the organization's water delivery stem are constraining on meeting peak-flow water demands of users? Rate the significance each of the following components.	1 = Significant 2 = Moderate 3 = Minimal 4 = Not constraining 5 = Not applicable
a.	Diversion (or regulating) reservoir capacity	xxxx
b.	Conveyance canal capacity (CFS)	xxxx
C.	Turnout technology	XXXX
d.	Water allocation rules	xxxx
e.	Energy or peak-load management in reservoir operations	xxxx
f.	Supply constraints due to environmental flow, lake elevation, or flood control requirements	xxxx

## **SECTION 3 – ON-FARM GROUNDWATER**

١.	(if any part of Section 1, item 3 was answered "Yes"), continue. If				
		N	lumber of Farms and Ranches		Number of Accounts
2.	How many farms and ranches, or accounts, in your service area groundwater from their own wells for irrigation in 2019?		xx	OR	xxxx
				-	Number
3.	How many active irrigation wells were in your service area in 201 (Include only on-farm wells, not district managed well fields.)				XXXX
					Acres
4.	How many total acres were irrigated in 2019 from the wells in iter	n 3?		xxxx	
				-	Number
5.	How many irrigation wells in your service area have been capped (Include only on-farm wells, not district managed well fields.)				xxxx
6.	Is on-farm access to groundwater legally restricted or regulated in	n your service are	a?		
	xxxx 1 Yes 3 No				
7.	In 2019 was on-farm groundwater pumping in your area restricted due to interactions with stream flow or surface water levels?	d			
	xxxx <sub>1</sub> Yes <sub>3</sub> No				
8.	Did groundwater users in your service area transfer pumped water	er between fields i	n 2019?		
	xxxx <sub>1</sub> Yes <sub>3</sub> No				
9.	Are users allowed to transfer groundwater withdrawal rights acros	ss years?			
	xxxx <sub>1</sub> Yes <sub>3</sub> No				
10	. Did this organization manage groundwater storage in 2019? Rep Do not include recharge from normal on-farm irrigation.	ort intentionally m	anaged recharç	ge.	
	xxxx <sub>1</sub> Yes – Continue <sub>3</sub> No – Go to Section 4				
11.	What is the number of recharge sites managed by this organization the total amount of water intentionally recharged in 2019?	on and			
		Number	Acre-Fee	et	Percent Recoverable
	a. Recharge basins	xxxx	xxxx		xxxx
	b. Injection wells	xxxx	xxxx		xxxx
	c Other methods (e.g. on-field spreading)	xxxx	xxxx		xxxx

#### **SECTION 4 – MEASUREMENT OF WATER**

## Metering and Reporting of Delivered or Pumped Water

1.	In 2019 did this organization use the following methods to calculate the amount of water used by farmers and ranchers for irrigation?	
	a. Metering: Direct metering of head gates, pumps, or wells	xxxx 1 Yes 3 No
	b. Time of use: Estimation based on time of operation and flow calculation	xxxx 1 Yes 3 No
	c. Self-reporting: Farmers and ranchers report how much water they use	xxxx 1 Yes 3 No
	d. Other methods (include evapotranspiration (ET) calculations) - specify: XXXX	xxxx 1 Yes 3 No
2.	Is this organization required to report a summary of the amount of water used for irrigation to any of the following partners or authorities? (Check all that apply.)	)
	xxxx Users or shareholders in annual reports	
	xxxx Water project managers (state or federal suppliers of water)	
	xxxx Regulatory authority (e.g. state engineer, state department of water resources, or regional district)	Frequency of Measurement
	xxxx Other - specify: xxxx	1 = Continuous (during all operations) 2 = Daily
3.	In 2019 what was the typical frequency of measurement or estimation of water quantities at each point within your organization's system?	3 = Weekly 4 = Monthly 5 = Other 6 = Not measured or estimated in 2019
	a. At entry to the system	XXXX
	b. At points between entry to the system and before delivery to irrigators	xxxx
	c. At delivery to irrigators (e.g. turnouts)	xxxx
	d. At exit or release from this organization's system	xxxx
4.	Does this organization use remote operation and monitoring (e.g. SCADA) to control movement of water at any point in the system?	
	xxxx 1 Yes 3 No	
5	Which of the following courses of water cumply and demand date did this energtion us	•

5. Which of the following sources of water supply and demand data did this operation use during 2019 and how useful were they?

Type of Information	Level of Usefulness to this Organization's Decisions 1 = Critical 2 = Somewhat useful 3 = Not used
Snowpack monitoring (e.g. USDA SNOTEL)	xxxx
Streamflow monitoring (e.g. USGS network)	xxxx
Weekly Drought Monitor	xxxx
Daily weather reports	xxxx
Evapotranspiration (ET) estimates	xxxx
Private sector data products	xxxx
Groundwater monitoring wells	xxxx

# SECTION 5 – DROUGHT PLANNING AND RESPONSE

1.		er the last twenty years, for surface water and/or ground water, now many years did this organization experience:	Surface Water (Number of Years)	Ground Wate (Number of Year
	a.	severe water curtailment (more than 25% below average water use)?	XXXX	xxxx
	b.	moderate water curtailment (10 to 25% below average water use)?	xxxx	xxxx
	C.	neither water curtailment nor abundance (within 10% of average water use)?	xxxx	xxxx
	d.	moderate abundance of water (10 to 25% above average water use)?	xxxx	xxxx
	e.	extreme abundance of water (more than 25% above average water use)?	xxxx	xxxx
	f.	an unknown trend in water supply?	xxxx	xxxx
			Total = 20 years	Total = 20 years
	xxx	Amount of water delivered for each diversion is reduced proportionately thro (hours) or flow rate for all users  Time interval (number of days) increases between deliveries for all users  Deliveries temporarily halted or postponed for all users  Deliveries limited to junior rights holders while maintaining deliveries to senion		
3.	Do xxx a.	es this organization have a formal drought plan that defines how to operate continger $x = 1$ Yes – Continue $x = 3$ No – Go to item 4  Does this organization have a formal drought plan that includes any of the following?	-	nditions?
	a.	Drought-triggered restrictions on water application or withdrawal rates		es <sub>3</sub> No
		ii. Cropland fallowing		es 3 No
				es 3 No
		iii. Increased water prices		
		iv. Water banking, increased storage or reduced use during normal years		es 3 No
		v. Acquisition of other water supply	xxxx 1 Y	es 3 No
4.		I any individual farmers engage in groundwater recharge (e.g. intentional excess on-f 19 in order to increase groundwater availability in future years?  x 1 Yes 3 No	ield water applic	ation) during
5.	Are	e users within this organization's area able to increase groundwater withdrawals durin  x	g drought?	

6. Which of the following external sources of data is this operation using to make long-run decisions beyond 2019?

Type of Information	Level of Usefulness to this Organization's Decisions 1 = Critical 2 = Somewhat useful 3 = Not used
Three-month or longer weather forecasts	xxxx
Climate simulation models or regional climate reports	xxxx
USGS or other groundwater models	xxxx
Groundwater monitoring and trend analysis	xxxx
Reservoir storage reports	xxxx

## SECTION 6 – WATER CONSERVATION AND ENVIRONMENTAL CONCERNS

1.		ng its own funds, in the last five years did this organization make following types of investments to conserve water?			
	a.	Diversion/regulating reservoirs	xxxx	1 Yes	3 No
	b.	Canal lining and/or piping upgrades	xxxx	1 Yes	з
	c.	Flow rate and volume measurement	xxxx	1 Yes	з
	d.	Providing financial cost-share or loan programs to farms or ranches to make capital improvements	xxxx	1 Yes	3 No
	e.	Land fallowing compensation	XXXX	1 Yes	3 No
	f.	Other - specify: XXXX	xxxx	1 Yes	3 No
2.		ou answered "Yes" to any of the questions in items a-f, were the aservation investments done for any of the following reasons?			
	a.	Crop and pasture yield increase (productivity)	xxxx	1 Yes	3 No
	b.	Irrigation water supply variability and production risk	xxxx	1 Yes	3 No
	c.	Future surface water-supply scarcity	xxxx	1 Yes	3 No
	d.	Future groundwater availability, groundwater recharge	xxxx	1 Yes	3 No
	e.	Drainage or recharge impacts on water quality	xxxx	1 Yes	3 No
	f.	Wildlife benefits, instream flows, and legal return flow requirements	XXXX	1 Yes	3 No
	g.	Other - specify: XXXX	xxxx	1 Yes	3 No
3.		es this organization have a problem with vegetation along canals and ditches g. phreatophytes such as salt cedar, Russian olive, or willow)?  X 1 Yes 3 No 4 Not Applicable			
4.		es this organization have a problem with sediment accumulation, ch stabilization, or leaks due to porous substrate material?			
	XXX	x 1 Yes 3 No 4 Not Applicable			

5.	5. How many acres of land were short-run fallowed or long-run converted to dry land by your organization under the program types listed below?						ļ	Acres
	a. Fallowed but not compensated for					xxxx		
	b. Fallowed and compensated for by this organization					xxxx		
		·	, ,				xxxx	
	C.	·	d for by another organization				xxxx	
	d.	Ditch company share or wa	ater right buyouts				xxxx	
	e.	Well decommissioning						
6.	Are	e any of these groundwater	overdraft issues a concern in	your service area?	<b>)</b>			
	a.	Abandoned wells			xxxx 1	Yes :	3 No	4 NA
	b.	Land subsidence			xxxx 1	Yes :	3 No	4 NA
	c. Water quality 1 Yes				Yes :	3 No	4 NA	
	d. Declining well capacity (lower well yields)				Yes :	3 No	4 NA	
	e.	Stream interaction or base	flow effects		xxxx 1	Yes :	3 No	4 NA
	f.	Other - specify: XXXX			xxxx 1	Yes :	3 No	4 NA
7.	ls y	our organization concerned	l with the following water quali	ity measures?				
			Water Coming In	Water Goir	ng Out		Ground	water
	a.	Salinity	1 Yes 3 No	1 Yes	з 🔲 No	XXXX 1	☐ Yes	з 🔲 No
	b.	Sediment	1 Yes 3 No	xxxx <sub>1</sub> Yes	з 🔲 No	xxxx 1	☐ Yes	з □ No
	C.	Nitrates	xxxx 1 Yes 3 No	xxxx <sub>1</sub> Yes	з 🔲 No	xxxx 1	☐ Yes	з <b>П</b> Nо
	d.	Other nutrients	xxxx <sub>1</sub> Yes <sub>3</sub> No	xxxx 1  Yes	з 🔲 No	xxxx 1	☐ Yes	з П No
	e.	Pathogens	xxxx 1 Yes 3 No	1 Yes	з 🔲 No	xxxx 1	☐ Yes	з 🔲 Nо
	f.	Heavy metals	xxxx 1 Yes 3 No	xxxx 1  Yes	3 No	xxxx 1	☐ Yes	з <u></u> No
		•						

## SECTION 7 – ASSETS, LIABILITIES, AND INVESTMENT

1.	. Does this organization produce annual fir	nancial statements for members or shareholders	s?
	xxxx <sub>1</sub> Yes – Continue <sub>3</sub>	No – Go to item 2	
	a. Are these financial statements regula	arly audited?	
	xxxx 1 Yes 3 No	0	
2.	. What are the total assets of this organiza	ation?	Dollars
	a. Financial reserves		xxxx
	b. Capital infrastructure and facilities		xxxx
	c. Land and buildings		xxxx
	d. Other		xxxx
3.		nization chargeable to irrigation and drainage	Dollars
		anding bonds, notes, repayment contracts, ion obligations. Exclude current liabilities	xxxx
	a. How much of this amount was obliga	ted to the U.S. Bureau of Reclamation?	xxxx

4. Report any investments by this organization over the past five years (2015 - 2019) for the construction of additional facilities, purchases of added equipment, or improvements in facilities or equipment for irrigation and drainage.

Туре	Number of Projects	Total Cost (Dollars)	Percent Financed
Improvements to Existing -			
Conveyance infrastructure	xxxx	xxxx	xxxx
Storage infrastructure	xxxx	xxxx	xxxx
Other infrastructure	xxxx	xxxx	xxxx
New investment in -			
Conveyance infrastructure	xxxx	xxxx	xxxx
Storage infrastructure	xxxx	xxxx	xxxx
Other infrastructure	xxxx	xxxx	xxxx

### **SECTION 8 – REVENUE AND PRICE STRUCTURE Dollars** 1. What was the total operating revenue for this organization in 2019? This total will be broken down by revenue source in items 1a-1g below. This total should equal XXXX the sum of items 1a-1g..... **Dollars** a. How much of the total operating revenue (item 1) was derived from volumetric XXXX (per acre-foot) price for irrigation water delivered to agricultural users?..... Dollars per Acre-Foot What was the average price for delivery of each acre-foot of water in 2019?..... Within your system, does the volumetric price vary in any of the following ways? No (a) Varies by land class (e.g. water right seniority, soil type, location in system)..... xxxx Yes (b) Varies by crop choice......xxxx Yes No (c) Varies over time during the season......xxxx Yes No (d) Increases with the quantity of water delivered (e.g. increasing block rate)......... (e) Decreases with the quantity of water delivered (e.g. decreasing block rate)...... xxxx Yes No **Dollars** b. How much of the total operating revenue (item 1) was derived from groundwater pumping fees?..... Dollars per Acre-Foot What was the groundwater pumping fee per acre-foot?..... **Dollars** How much of the total operating revenue (item 1) was derived from assessments or taxes?..... Dollars per Acre XXXX What was the average per acre assessment or tax in 2019?..... The assessment -(a) varies by land class (e.g. water right seniority, soil type, location in system)...... xxxx Yes No (b) varies by crop choice.....xxxx Yes No **Dollars** d. How much of the total operating revenue (item 1) was derived from water delivered to non-agricultural users?..... e. How much of the total operating revenue (item 1) XXXX was derived from water delivered to other irrigation organizations?..... How much of the total operating revenue (item 1) XXXX was derived from electricity sales from hydropower?.....

How much of the total operating revenue (item 1)

was derived from other sources?.....

		What amount of any non-irrigation revenue was credited back to irrigation users (e.g. dividends from electricity sales based on company shares)? Enter zero if there were no credits to irrigation users					
2.							
3.	We	ere any of the fees in 2019 (on the previous page) higher than prior years for any of the f	ollowii	ng reas	ons?		
	a.	A capital improvement	xxxx	1 Y	'es	3 No	
	b.	Drought	xxxx	1 Y	'es	3 No	
	С	Other one-time organizational expense	xxxx	₁□Y	'es	3 No	

#### **SECTION 9 – COST OF OPERATION AND MAINTENANCE**

		Ε	Oollars
1.		XXXX	
			Percent
2.	What percentage of the total expenditures were related to irrigation in 2019?		xxxx

3. How much was spent by this organization in 2019 for water purchased through contracts or markets?

Source of Water	Number of Contracts or Trades	Total Water (Acre-Feet)	Total Cost (Dollars)
Contracted water from federal water projects	xxxx	xxxx	xxxx
Additional deliveries from federal water projects	xxxx	xxxx	xxxx
Contracted from state water or local projects	xxxx	xxxx	xxxx
Non-contracted from state or local water projects	xxxx	xxxx	xxxx
Spot markets or leases for water deliveries	xxxx	xxxx	xxxx

4. What were the total annual energy expenditures for this organization's irrigation activities in 2019?

Fuel Source	Total Expense	Pumping Expense		
	(Dollars)	(Percent)		
Electricity	xxxx	xxxx		
Natural gas	xxxx	xxxx		
Diesel oil	xxxx	xxxx		
Other source	xxxx	xxxx		

5. What was the total amount spent on salaries and benefits for the irrigation operation in 2019?

	Number of Full-Time Employees	Number of Part-Time Employees	Total Salary Costs (Dollars)	Total Benefit Costs (Dollars)
Organization and office staff	xxxx	xxxx	xxxx	xxxx
Field staff (e.g. ditch riders, maintenance crews)	xxxx	xxxx	xxxx	xxxx
Outside staff (e.g. consultants)	xxxx	xxxx	xxxx	xxxx
Uncompensated labor	xxxx	xxxx		

			Dollars
6.	What was the total amount spent on liability insurance for this organization in 2019?	xxxx	
			Dollars
7.	What was the total amount spent on operation, maintenance, and repair of irrigation facilities, not including the water, energy, and labor costs listed above?	xxxx	
			Dollars
8.	What was the total expenditure on debt payments in 2019?	xxxx	
			Percent
	a. What percentage of these payments were for interest?		xxxx
			Dollars
9.	What was the total expenditure on taxes in 2019?	xxxx	
10.	What was the total expenditure for any treatment of irrigation water prior to delivery?	xxxx	
11.	What was the total expenditure for any treatment of irrigation return flows prior to discharge or final release from the system?	xxxx	

#### **SECTION 10 - CONCLUSION**

- 1. Please describe, beyond the questions asked earlier in this survey, any major constraints on your organization's operations or on water use by the farms and ranches served by your organization:
- 2. Please describe, beyond the questions asked earlier in this survey, any management tools or programs that your organization relies on to engage in water conservation or drought preparedness:
- 3. Please provide any other information or notes about your organization that you feel are relevant to this survey:

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Response		Respond	ent	Mode		Enum.	Eval.	R. Unit	Change		Office U	se for POID	)
1-Comp 2-R 3-Inac 4-Office Hold 5-R – Est	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902	1-PASI (Mail) 2-PATI (Tel) 3-PAPI (Face-to- Face) 6-Email	9903	9998	9900	9921	9985	9989	 Optic	 onal Use	<u></u>
6-Inac – Est 7-Off Hold – Est				7-Fax 19-Other						9907	9908	9906	9916
S/E Name							•		•				