

2023 IRRIGATION AND WATER MANAGEMENT SURVEY

Form Number: 23-XXXX
(07/06/23)



National Agricultural
Statistics Service

Return your
completed report to:

Census of Agriculture
1201 East 10th Street
Jeffersonville, IN 47132

OFFICE USE ONLY 0010

Make corrections to name, address, and ZIP Code if necessary.

Complete your report by mail or via the internet at www.agcounts.usda.gov

- **Your mandatory report is due by February 15, 2024** – Everyone, including nursery, greenhouse, and other horticultural crop producers, must return this form by this date.
- To fill out the paper form, use a black or blue ballpoint pen.
- **Questions** – Call us toll-free at 1-888-424-7828. Thank you for your cooperation.

SECTION 1 ACREAGE IN 2023

- Report land owned, rented, or used by you, your spouse, or the partnership, corporation, or organization printed above.
- Round to whole acres.
- Include ALL LAND, regardless of location or use – cropland, pastureland, rangeland, woodland, idle land, **greenhouses or other area under protection**, farmsteads, Conservation Reserve Program (CRP) land, etc.

	None	Number of Acres
1. All land owned	<input type="checkbox"/>	0025
2. All land rented or leased from others , including land worked by you on shares, used rent free, in exchange for services, payment of taxes, etc. Include Federal, state and railroad land leased on a per-acre basis. Exclude leased land (e.g., private, Federal, state, railroad) used on a per-head or animal unit month (AUM) basis under a grazing permit.	<input type="checkbox"/>	+ 0026
3. All land rented or leased to others , including land worked on shares by others and land subleased	<input type="checkbox"/>	- 0027
		BOX A
4. TOTAL ACRES in this operation (Items 1 + 2 - 3 = BOX A)	=	0028

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 and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35 and other applicable Federal laws. For more information on how we protect your information please visit: www.nass.usda.gov/confidentiality. Response to this survey is required by law under Title 7 USC 2204(g) Public Law 105-113.

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 0535-0234. 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.

SECTION 2 LAND IN 2023

- Of the acres reported in **BOX A** on the previous page, indicate how all of the land was used in 2023 in column 1 below. If the same land had more than one use, report that land only once in items 1 through 3.
- Report the acres that had irrigation equipment in 2023 in Column 2. Acres with access to irrigation systems or equipment, also known as acres equipped for irrigation, include all irrigated acres and all acres that could have been irrigated in 2023, regardless of water rights. Examples include acres covered by sprinklers, drip trickle, down rows, and controlled flooding irrigation systems.
- Report the acres that were irrigated in 2023 in Column 3. Irrigation is any application of water, including partial, supplemental, or preplant irrigation, by any artificial or controlled means. Fresh, reclaimed, and recycled water are all suitable for irrigation purposes.
- Area under protection includes crops grown under glass, rigid plastic, plastic film, shade cloth, fiberglass, “tunnel” protection, and hoop houses. Crops covered temporarily, such as for frost protection, only to be further grown in the open should be reported as cropland harvested in the open.

1. Cropland – Exclude cropland used only for pasture

	None	Column 1	None	Column 2	None	Column 3
		Number of Acres		Acres Reported in Column 1 with Access to Irrigation Systems or Equipment		Acres Reported in Column 2 that were Irrigated
a. Cropland harvested in the open – Include harvested field crops and hay; and land in vegetables, orchards, citrus groves, vineyards, berries, nuts, Christmas trees, short rotation woody crops, nursery and other horticultural crops in the open.	<input type="checkbox"/>	0029	<input type="checkbox"/>	1128	<input type="checkbox"/>	0030
b. Area under protection – Include nursery, greenhouse, and other horticulture under protection. Round to the nearest whole acre.	<input type="checkbox"/>	0077	<input type="checkbox"/>	1129	<input type="checkbox"/>	0078
c. Cropland not harvested or grazed – Include cropland on which all crops failed, cropland idle, cropland used for cover crops or CRP, and cropland in summer fallow.	<input type="checkbox"/>	0033	<input type="checkbox"/>	1130	<input type="checkbox"/>	0034

2. Pasture

a. Permanent pasture and rangeland.	<input type="checkbox"/>	0135	<input type="checkbox"/>	1131	<input type="checkbox"/>	0136
b. Woodland pastured.	<input type="checkbox"/>	0137				
c. Other pasture and grazing land (including rotational pasture) that could have been used for crops without additional improvements.	<input type="checkbox"/>	0107	<input type="checkbox"/>	1132	<input type="checkbox"/>	0108

3. All other land – Include land not reported above. Include woodland not pastured, farmsteads, home, buildings, livestock facilities, ponds, roads, wasteland, etc.

<input type="checkbox"/>	0039				
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Total Acres on this Operation

Total Acres with Access to Irrigation Systems or Equipment

Total Acres Irrigated

4. TOTAL ACRES – Add acres in each column and enter the totals.

BOX B	BOX C	BOX D
0041	1133	0042

[**BOX B** above should be the same as **BOX A** on page 1.]

5. Was any area irrigated on this operation in 2023? (Is **BOX D** positive?)
- Include all irrigated land in the open and all area under protection in 2023.
 - Exclude land equipped for irrigation that did not receive irrigation in 2023.

0003 **1 Yes** – Continue

3 No – Go to Section 16 on page 20

SECTION 3 GROUND WATER FROM WELLS

1. Did this operation irrigate with ground water from wells on this operation in 2023?

⁰⁷⁶⁰ **Yes** – Continue **No** – Go to Section 4

If exact amounts are not available, provide your best estimate for quantity of water applied. If the total area irrigated in the open is less than one acre, report as one acre in item 2. If the wells are not on the operation, such as a municipal or rural water system, report this as off-farm water in Section 5.

2. Report acres in the open irrigated with ground water and the amount of water applied in 2023. Include irrigated horticultural crops grown in the open, irrigated summer fallow, and irrigated pastureland. None

Acres in the Open Irrigated by Ground Water	Quantity of Ground Water Applied	Enter Code for Unit of Measure 1 = Total Acre-Feet 2 = Total Gallons 3 = Inches/Acre
0444	0446	0447

3. Report the area under protection irrigated with ground water in 2023. Under protection includes nursery, greenhouse, floriculture, mushrooms, vegetable seeds, and propagative materials grown under glass, rigid plastic, plastic film, shade cloth, fiberglass, "tunnel" protection, and hoop houses. None

Square Feet Under Protection Irrigated with Ground Water
0455

4. How many wells on this operation were used for irrigation in 2023?

Number of Wells
0460

a. Of the (item 4) wells, how many used backflow prevention devices (check valves) and how many acres and/or square feet under protection were irrigated with these wells in 2023? None

Number of Wells	Acres in the Open	Square Feet Under Protection
0770	0771	0679

b. Of the (item 4) wells, how many had flow meters or other flow measurement devices and how many acres and/or square feet under protection were irrigated with these wells in 2023?

0683	0772	0680
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c. Of the (item 4) wells, how many were free flowing wells that did not require a pump?

0486

5. Report for the first three primary wells pumped in 2023.

Well #	Depth of Well (Feet)	Depth to Bowls or Impellers (Feet)	Depth to Water at Start of Irrigation Season (Feet)	Pump Capacity – Discharge From Well (GPM)	Operating Pressure at Well Head (PSI)	Horsepower of Engines or Motors, Including Electric (HP)
1.	0461	0463	0462	0464	0676	0761
2.	0465	0467	0466	0468	0677	0763
3.	0469	0471	0470	0472	0678	0765

a. Report averages for all **other** wells pumped in 2023.

Average Depth of Well(s) (Feet)	Average Depth to Bowls or Impellers (Feet)	Average Depth to Water at Start of Irrigation Season (Feet)	Average Pump Capacity – Discharge from Well (GPM)	Average Operating Pressure at Well Head (PSI)	Average Horsepower of Engines or Motors, Including Electric (HP)
0481	0483	0482	0484	0681	0767

6. For the wells used on this operation, what is the best description for the depth to water over the last five years?

Mark (X) one: ⁰⁴⁸⁷ Depth to water did not change Depth to water increased Depth to water decreased

SECTION 4 ON-FARM SURFACE WATER

1. Did this operation irrigate with on-farm surface water, including recycled water and on-farm reclaimed water, in 2023?

Recycled water is reused surface or groundwater that was previously used to irrigate a crop (e.g. water from a tailwater reuse pit used for irrigation).

On-farm reclaimed water is **on-farm livestock wastewater that has been treated for non-potable reuse purposes.**

(For the purposes of this irrigation survey, to be considered an irrigation application of reclaimed water, at least 0.5 inches of reclaimed water must be applied on the area during the growing season.)

⁰⁴³⁸ **Yes** – Continue **No** – Go to Section 5

If exact amounts are not available, provide your best estimate for quantity of water applied. If total area irrigated in the open is less than one acre, report as one acre in item 2.

2. Report acres in the open irrigated with on-farm surface water and the amount of water applied in 2023. Include irrigated horticultural crops grown in the open, irrigated summer fallow, and irrigated pastureland.

None

Acres in the Open Irrigated by On-Farm Surface Water	Quantity of On-Farm Surface Water Applied	Enter Code for Unit of Measure 1 = Total Acre-Feet 2 = Total Gallons 3 = Inches/Acre
0449	0451	0452

3. Report the area under protection irrigated with on-farm surface water in 2023. Under protection includes nursery, greenhouse, floriculture, mushrooms, vegetable seeds, and propagative materials grown under glass, rigid plastic, plastic film, shade cloth, fiberglass, "tunnel" protection, and hoop houses.

None

Square Feet Under Protection Irrigated with On-Farm Surface Water
0458

4. Did this operation use **on-farm recycled water** to irrigate any crops, including horticultural crops, grown during 2023?

⁰⁶⁰⁰ **Yes** – Continue **No** – Go to item 5 below

a. How many acres in the open and square feet under protection were irrigated with **on-farm recycled water** during 2023?

Acres in the Open	Square Feet Under Protection
0601	0936

5. Did this operation use **reclaimed water from on-farm livestock facilities** to irrigate any crops, including horticultural crops, grown during 2023? (For the purposes of this irrigation survey, to be considered an irrigation application of reclaimed water, at least 0.5 inches of reclaimed water must be applied on the area during the growing season. If this minimum amount is not met, mark (X) "No" below.)

⁰⁵⁴³ **Yes** – Continue **No** – Go to Section 5

a. How many acres in the open and/or square feet under protection were irrigated with one or more applications of **reclaimed water from on-farm livestock facilities** during 2023?

Acres in the Open	Square Feet Under Protection
0587	0588

b. How much **reclaimed water from on-farm livestock facilities** was used for irrigation during 2023?

Acre-Feet	Gallons
0599	OR 0561

SECTION 5 OFF-FARM WATER

1. Did this operation irrigate with off-farm water in 2023?

INCLUDE

- acres in the open and area under protection irrigated with off-farm water from all suppliers
- all off-farm surface water, municipal (such as town or city) water, and rural water suppliers
- area irrigated with reclaimed water from off-farm sources such as treated municipal sewer water (blue water), industrial, off-farm livestock operations, or other off-farm sources

0457 **Yes** – Continue **No** – Go to Section 6

If exact amounts are not available, provide your best estimate for quantity of water applied. If total area irrigated in the open is less than one acre, report as one acre in item 2.

2. Report acres in the open irrigated with off-farm water and the amount of water applied in 2023. Include irrigated horticultural crops grown in the open, irrigated summer fallow, and irrigated pastureland.

Acres in the Open Irrigated by Off-Farm Water	Quantity of Off-Farm Water Applied	Enter Code for Unit of Measure 1 = Total Acre-Feet 2 = Total Gallons 3 = Inches/Acre
0454	0968	0969

3. Report the area under protection irrigated with off-farm water in 2023. Under protection includes nursery, greenhouse, floriculture, mushrooms, vegetable seeds, and propagative materials grown under glass, rigid plastic, plastic film, shade cloth, fiberglass, "tunnel" protection, and hoop houses.

Square Feet Under Protection Irrigated with Off-Farm Water
0428

4. Did you pay for the off-farm water received on this operation?

0675 **Yes** – Report the total dollars paid for the off-farm water.
 No – Continue

Dollars
0456 \$.00

5. How much of this operation's off-farm water was supplied, delivered, or transferred through a project financed, constructed, or managed by –

- a. U.S. Bureau of Reclamation?
Include reclamation water delivered through a local district.
- b. Other Federal agencies such as the U.S. Army Corp of Engineers, Bureau of Indian Affairs, and USDA small watershed project?.
- c. All other suppliers?
Include town and city water. Specify:

0664	<input type="checkbox"/> None	<input type="checkbox"/> Some	<input type="checkbox"/> All
0665	<input type="checkbox"/> None	<input type="checkbox"/> Some	<input type="checkbox"/> All
0666	<input type="checkbox"/> None	<input type="checkbox"/> Some	<input type="checkbox"/> All

6. Did this operation use **reclaimed water from off-farm sources** such as municipal reclaimed water, industrial, off-farm livestock operations, or other off-farm sources to irrigate any crops in 2023? Off-farm reclaimed water is wastewater that has been treated for non-potable reuse purposes. (For the purposes of this irrigation survey, to be considered an irrigation application of reclaimed water, at least 0.5 inches of reclaimed water must be applied on the area during the growing season. If this minimum amount is not met, mark (X) "No" below.)

0602 **Yes** – Continue **No** – Go to Section 6

a. How many acres in the open and/or square feet under protection were irrigated with one or more applications of **reclaimed water from off-farm sources** during 2023?.

Acres in the Open	Square Feet Under Protection
0597	0598

b. How much **reclaimed water from off-farm sources** was used for irrigation during 2023?.

Acre-Feet	Gallons
0644	OR 0645

c. What sources of reclaimed water were used on this operation in 2023? Mark (X) all that apply.

- 1001 Municipal
- 1002 Industrial
- 1003 Off-farm livestock operation
- 1004 Other – Specify:

SECTION 6 PUMPS USED FOR IRRIGATION AND PUMP EXPENSES

1. Were any pumps used on this operation for irrigation during 2023?

INCLUDE

- all pumps supplying irrigation to or through any distribution system (e.g., gravity, sprinkler, drip)
- all pumps moving water into tanks or reservoirs on the operation for irrigation in 2023

EXCLUDE

- any pumps used exclusively for non-irrigation applications such as home use or aquaculture
- any pumps not owned or rented by this operation, such as pumps operated by a water company

0488 **Yes** – Continue **No** – Go to Section 7

2. Report pumps by use. If the same pump has multiple uses, report that pump only once in items a through d.

None		Number of Pumps Used	Vertical Lift (Average Feet)	Discharge Capacity (Average GPM)	Discharge Operating Pressure (Average PSI)
a. Well pumps.	<input type="checkbox"/>	1135			
b. Tailwater pits (pits that hold water previously used for irrigation).	<input type="checkbox"/>	0490	0774	0491	0687
c. Ponds, lakes, reservoirs, rivers, canals, etc.	<input type="checkbox"/>	0492	0775	0493	0688
d. Relifting or boosting water within system (pumps providing additional lift, pressure, or lateral movement).	<input type="checkbox"/>	0494	0776	0777	0778

3. Report the energy expense by power source. Report the fuel used and power expense for pumping irrigation water for the pumps reported above. Report energy expense for acres in the open and area under protection. If both exist for a single energy source, report their combined expenses. Include the cost of any additional charges such as the fuel adjustment charge or any other type of charge which was based on the amount of power or fuel purchased. Include landlord's share. If irrigated acres in the open were less than one acre, round to one acre.

POWER SOURCE	None	Number of Wells and Other Pumps Used (Reported Above)	Cost of Energy Used to Power Pumps (Dollars)	Area Irrigated with Water Pumped from Wells		Area Irrigated with Pumped Surface Water (Both on- and off-farm)	
				Acres in the Open (Whole Acres)	Square Feet Under Protection	Acres in the Open (Whole Acres)	Square Feet Under Protection
a. Electricity.	<input type="checkbox"/>	0495	0496 \$.00	0497	0124	0781	0537
b. Natural gas.	<input type="checkbox"/>	0498	0499 \$.00	0500	0125	0782	0538
c. LP gas, propane, or butane.	<input type="checkbox"/>	0501	0502 \$.00	0503	0126	0783	0539
d. Diesel and biodiesel fuel.	<input type="checkbox"/>	0504	0505 \$.00	0506	0127	0784	0540
e. Gasoline, ethanol, and blends.	<input type="checkbox"/>	0507	0508 \$.00	0509	0128	0890	0541
f. Solar and other pumps without direct energy expense.	<input type="checkbox"/>	0779		0780	0129	0786	0542

SECTION 7 EXPENDITURES FOR IRRIGATION INFRASTRUCTURE

EXPENDITURE AND FUNDING ASSISTANCE CODES – USE IN THE TABLE BELOW			
CODE	PRIMARY PURPOSE OF EXPENDITURE	CODE	PRIMARY SOURCE OF FUNDING ASSISTANCE
1	= New expansion	1	= No funding assistance or loans
2	= Water conservation	2	= NRCS Environmental Quality Incentives Program (EQIP)
3	= Energy conservation	3	= Other USDA financial assistance or loans
4	= Scheduled replacement or maintenance	4	= Non-USDA and all other financial assistance or loans

Report the 2023 expenditure cost, acres affected (rounded to the nearest acre), primary purpose of expenditure, and primary source of funding assistance by expenditure category using the Expenditure and Funding Assistance Codes from the table above. Include the portion of the expenditures made by or shared with others (landlords or government agencies), including programs such as the Environmental Quality Incentives Program (EQIP).

EXPENDITURE TYPE	None	Total Cost of Expenditure (Include amount financed)	Irrigated Acres Affected by Expenditure (Acres)	Enter Code from Above for Primary Purpose of Expenditure	Enter Code from Above for Primary Source of Funding Assistance
1. Purchase of new or replacement irrigation equipment and machinery – Include sprinklers, pipes, siphons, nozzles, pumps, engines, motors, filtration equipment, etc. Exclude computers, computer control panels, and software.	<input type="checkbox"/>	0511 \$.00	0514	0512	0513
2. New well construction or deepening of existing wells – Include drilling costs, cost of casing, and any costs to prepare well for installation of pump. Exclude cost of pumps or motors.	<input type="checkbox"/>	0515 \$.00	0518	0516	0517
3. Construction or improvement of permanent storage and distribution systems – Include dams, ponds, reservoirs, permanent ditches, canals, flumes, etc.	<input type="checkbox"/>	0519 \$.00	0522	0520	0521
4. Computers, control panels, computer controlled valves, software, and software-controlled hardware for irrigation water management.	<input type="checkbox"/>	0544 \$.00	0547	0545	0546
5. Clearing or leveling non-irrigated land for new irrigation acres (the primary purpose is expansion of irrigation acres).	<input type="checkbox"/>	0548 \$.00	0526		0549
6. Land leveling of previously irrigated land (the primary purpose cannot be new expansion).	<input type="checkbox"/>	0556 \$.00	0559	0557	0558

SECTION 8 METHOD OF WATER DISTRIBUTION IN FIELDS IN THE OPEN

1. Did this operation irrigate any fields in the open in 2023?

- Include acres of horticultural crops grown in the open or under natural shade.
- Exclude crops grown under protection: glass, rigid plastic, plastic film, including "tunnel" protection. (Methods for crops grown under protection will be reported in Section 13.)

⁰⁴⁸⁹ **Yes** – Continue **No** – Go to Section 13

Report acres irrigated by each type of FIELD distribution system listed below. If the same land was irrigated by more than one method of distribution, report acres irrigated by each method used. Report information for the field distribution system, NOT for the delivery system used to convey water from the source to the field, if different.

		Acres in the Open Irrigated by Gravity System (Field Water Conveyance System)					
		Total Acres	Unlined Open Ditch	Lined Open Ditch	Poly Pipe (or other single-year use, lay-flat tubing)	Above Ground Pipe (except poly pipe) ¹	Underground Pipe ²
2. Gravity irrigation	None						
a. Down rows or furrows.	<input type="checkbox"/>	0855	0859	0857	0056	0057	0858
b. Controlled flooding (within borders, levees, or basins).	<input type="checkbox"/>	0865	0869	0867	0066	0067	0868
c. Uncontrolled flooding (rangeland, pastureland, etc.).	<input type="checkbox"/>	0875					
d. Other gravity systems, including water seepage.	<input type="checkbox"/>	0885					

¹ Include gated pipe and riser or hydrant systems connected to above ground pipe.

² Include riser or hydrant systems connected to underground pipe.

3. Sprinkler irrigation – Inlet pressure

None

Acres in the Open Irrigated by Sprinkler System					
	Very Low Pressure (Under 15 PSI)	Low Pressure (15 to 29 PSI)	Medium Pressure (30 to 59 PSI)	High Pressure (60 PSI or more)	
a. Center pivot systems (circle).	<input type="checkbox"/>	0569	0576	0575	0570
b. Linear move tower systems (and other linear continuous move drive systems).	<input type="checkbox"/>	0571	0577	0578	0579
c. Solid set or permanent systems (except low-flow micro systems).	<input type="checkbox"/>	0568	0565	0566	0567

d. Mechanical move systems

None

- (i) Side roll, wheel move, or other mechanical move systems and other discrete move systems.
- (ii) Big gun or traveler systems.
- e. Hand-move systems, including hand watered nursery and other horticultural crops grown in the open.
- f. Other sprinkler systems.

Acres Irrigated (all pressures)
0240
0241
0242
0243

4. Drip, trickle, or low-flow micro irrigation

None

- a. Surface drip (on or above ground).
- b. Sub-surface drip (root zone).
- c. Low-flow micro sprinklers or sprays (these systems apply water at low pressure and are not self-propelled or easily moved).
- d. Other drip, trickle, or low-flow micro systems.

Acres Irrigated (all pressures)
0248
0246
0247
0249

5. Hydroponics.

1136

SECTION 9 **ADDITIONAL PRACTICES FOR IRRIGATION METHODS IN FIELDS IN THE OPEN**

1. Did this operation use gravity irrigation systems or equipment to irrigate any acres in the open in 2023?
(Refer to Section 8, item 2.)

¹¹³⁷ ₁ **Yes** – Continue ₃ **No** – Go to Section 10

2. On how many acres in the open did you use the following practices?

	None	Number of Acres
a. Capture irrigation runoff in tailwater pits, restrict runoff by diking end of the field, limit irrigation set times or number of irrigations, or irrigate only alternative rows.	<input type="checkbox"/>	0404
b. Use any precision-leveling	<input type="checkbox"/>	0406
i. How many acres of precision-leveling were considered zero grade (fields with a zero percent/degree decline)?	<input type="checkbox"/>	1138
c. Shorten the furrow length; use water-soluble polyacrylamide (PAM); or use special furrowing practices such as wide-spaced bed furrowing, compacted furrows, or furrow diking.	<input type="checkbox"/>	0409
d. Use surge flow or a surge irrigation system (intermittent application of water to a furrow).	<input type="checkbox"/>	1139
e. Use a cablegation system (constant slow flow application to a furrow)	<input type="checkbox"/>	1140
f. Apply mulch or other types of row covers	<input type="checkbox"/>	1141

3. Did this operation use any computer software for the measuring or planning of their gravity irrigation system's pipes or tubes in any way? Software features include determining the location for the pipes or tubes, the location for drilling holes into the pipes or tubes, the diameter of the holes, and the distance between holes for optimal irrigation.

¹¹⁴² ₁ **Yes** ₃ **No**

SECTION 10 ACRES IRRIGATED IN THE OPEN

1. Did this operation irrigate any land in the open in 2023?

- Include irrigated harvested cropland, pastureland, summer fallow, and failed cropland.

¹¹³⁴ ₁ **Yes** – Continue ₃ **No** – Go to Section 13

For each item listed, report the irrigated harvested acres or acres irrigated for non-harvested items in the first column. For selected crops, report the average yield from the irrigated harvested acres in the second column. Then report the average irrigation water applied per acre for the entire year in either feet or inches for the acres reported in column one. Report the crop as irrigated if water was applied to supplement rainfall, even if the amount of water applied was not sufficient to obtain maximum yields. **Report nursery and other horticultural crops grown in the open in item 18.**

Irrigated Crops	Irrigated Land Include preplant and supplemental or semi-irrigation						
	Irrigated Acres Harvested	Average Yield per Irrigated Acre Harvested		Average Estimated Quantity of Water Applied per Acre in 2023			
		Feet	Tenths	OR	Inches		
2. Corn for grain or seed – Exclude popcorn and sweet corn . . . <input type="checkbox"/>	None 0050	0051	Bu.	0052		OR	0053
3. Corn for silage or greenchop – Exclude popcorn and sweet corn . . . <input type="checkbox"/>	0060	0061	Tenths Tons	0062		OR	0063
4. Sorghum for grain or seed <input type="checkbox"/>	0070	0071	Bu.	0072		OR	0073
5. Wheat for grain or seed <input type="checkbox"/>	0080	0081	Bu.	0082		OR	0083
6. Soybeans for beans <input type="checkbox"/>	0106	0101	Bu.	0102		OR	0103
7. Beans, dry edible <input type="checkbox"/>	0110	0111	Cwt.	0112		OR	0113
8. Rice – Include post harvest water applied to improve residue decomposition <input type="checkbox"/>	0120	0121	Cwt.	0122		OR	0123
9. Other small grains (barley, oats, rye, etc.) <input type="checkbox"/>	0130			0132		OR	0133
10. Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage) . . . <input type="checkbox"/>	0140	0141	Tenths Tons, dry	0142		OR	0143
11. All other hay and haylage including small grain, other tame, and wild hay (dry hay, greenchop, and silage) . . . <input type="checkbox"/>	0150	0151	Tenths Tons, dry	0152		OR	0153

SECTION 10 CONTINUED –

Irrigated Crops, Pastureland, and Other Land		Irrigated Land Include preplant and supplemental or semi-irrigation							
		Irrigated Acres Harvested		Average Yield per Irrigated Acre Harvested		Average Estimated Quantity of Water Applied per Acre in 2023			
						Feet	Tenths	OR	Inches
12. Peanuts	None <input type="checkbox"/>	0550		0551	Lbs.	0552		OR	0553
	<input type="checkbox"/>	0160		0161	Lbs. lint	0162		OR	0163
14. All land from which vegetables, potatoes, and melons were harvested	<input type="checkbox"/>	0186	Tenths			0187		OR	0188
	a. Sweet corn	0850	Tenths	0851	Cwt.	0852		OR	0853
	b. Tomatoes in the open.	0860	Tenths	0861	Cwt.	0862		OR	0863
	c. Lettuce and romaine	0870	Tenths	0871	Cwt.	0872		OR	0873
	d. Potatoes – Exclude sweet potatoes.	0190	Tenths	0191	Cwt.	0192		OR	0193
15. All berries.	<input type="checkbox"/>	0560	Tenths			0562		OR	0563
16. All other crops grown in the open and not listed Specify: ⁰⁶²⁰ _____	<input type="checkbox"/>	0621				0622		OR	0623
		Irrigated Acres							
17. Land in bearing and non-bearing fruit orchards, citrus or other groves, vineyards, and nut trees	<input type="checkbox"/>	0210	Tenths			0212		OR	0213
18. Nursery and other horticultural crops grown in the open (Note: Nursery, greenhouse, and other horticultural crops grown under protection will be reported in a later section.)	<input type="checkbox"/>	0690	Tenths			0691		OR	0692
		0230				0232		OR	0233
19. Irrigated pastureland, all types	<input type="checkbox"/>								
20. All other irrigated land types such as failed cropland, idle land, and land in summer fallow	<input type="checkbox"/>	1144				1145		OR	1146

SECTION 11 FIELD WATER DISTRIBUTION AND WATER SOURCE USED IN THE OPEN

1. Did this operation irrigate any land in the open in 2023?

- Include irrigated harvested cropland, pastureland, summer fallow, and failed cropland.

¹¹⁴³ ₁ **Yes** – Continue

₃ **No** – Go to Section 13

WATER DISTRIBUTION CODES – USE IN THE TABLE BELOW

CODE	PRESSURE SYSTEM	CODE	GRAVITY SYSTEM
01 =	Hand-move system	15 =	Down rows or furrows from unlined open ditches
02 =	Solid set or permanent system	16 =	Down rows or furrows from lined open ditches
03 =	Side roll or wheel line system	17 =	Down rows or furrows from poly pipe, lay-flat tubing, or above ground or underground pipe
04 =	Big gun or traveling gun system	18 =	Controlled flooding within borders, levees, or basins from unlined open ditches
05 =	Linear move system (under 15 PSI)	19 =	Controlled flooding within borders, levees, or basins from lined open ditches
06 =	Linear move system (15 to 29 PSI)	20 =	Controlled flooding within borders, levees, or basins from poly pipe, lay-flat tubing, or above ground pipe
07 =	Linear move system (30 to 59 PSI)	21 =	Controlled flooding within borders, levees, or basins from underground pipe
08 =	Linear move system (60 PSI or more)	22 =	Uncontrolled flooding (rangeland, pastureland, etc.) including open discharge from a well or pump
09 =	Center pivot system (under 15 PSI)	23 =	Other gravity system – Specify:
10 =	Center pivot system (15 to 29 PSI)		
11 =	Center pivot system (30 to 59 PSI)		
12 =	Center pivot system (60 PSI or more)		
13 =	Low-flow irrigation (drip, trickle, or micro sprinkler system)		
14 =	Other pressure system including hydroponics – Specify:		
	¹⁰⁰⁶ _____		¹⁰⁰⁷ _____

Report for irrigated acres in the open. For each irrigated crop in the open, report the primary field distribution method, acres irrigated by water source, and acres on which chemigation was used in the irrigation system. Refer to the table above for the water distribution codes.

Irrigated Crops, Pastureland, and Other Land	Enter Code from Above for Primary Method of Field Water Distribution	Water Source (Column totals may exceed irrigated crop acres reported in Section 10 when more than one water source was used.)			Acres on which chemigation was applied through the irrigation system	
		Ground Water from Wells (Acres)	On-Farm Surface Water ¹ (Acres)	Off-Farm Water (All Suppliers) ² (Acres)	Commercial Fertilizer (Acres)	Pesticide Application (Acres)
2. Corn for grain or seed – Exclude popcorn and sweet corn. <input type="checkbox"/>	0250	0255	0254	0256	0252	0253
3. Corn for silage or greenchop – Exclude popcorn and sweet corn. <input type="checkbox"/>	0260	0265	0264	0266	0262	0263
4. Sorghum for grain or seed. <input type="checkbox"/>	0270	0275	0274	0276	0272	0273
5. Wheat for grain or seed. <input type="checkbox"/>	0280	0285	0284	0286	0282	0283
6. Soybeans for beans. <input type="checkbox"/>	0300	0305	0304	0306	0302	0303
7. Beans, dry edible. <input type="checkbox"/>	0310	0315	0314	0316	0312	0313
8. Rice. <input type="checkbox"/>	0320	0325	0324	0326	0322	0323
9. Other small grains (barley, oats, rye, etc.). <input type="checkbox"/>	0330	0335	0334	0336	0332	0333
10. Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage). <input type="checkbox"/>	0340	0345	0344	0346	0342	0343
11. All other hay including small grain, other tame, and wild hay (dry hay, greenchop, and silage). <input type="checkbox"/>	0350	0355	0354	0356	0352	0353

¹ On-farm water source includes recycled water and reclaimed water from on-farm livestock operations.

² Off-farm water supplies may include water purchased from the U.S. Bureau of Reclamation; a state, county, or local district; mutual, private, cooperative, or neighborhood ditches; or commercial or municipal water systems.

SECTION 11 CONTINUED –

Irrigated Crops, Pastureland, and Other Land	Enter Code from Previous Page for Primary Method of Field Water Distribution	Water Source (Column totals may exceed irrigated crop acres reported in Section 10 when more than one water source was used.)			Acres on which chemigation was applied through the irrigation system		
		Ground Water from Wells (Acres)	On-Farm Surface Water ¹ (Acres)	Off-Farm Water (All Suppliers) ² (Acres)	Commercial Fertilizer (Acres)	Pesticide Application (Acres)	
None	0580	0585	0584	0586	0582	0583	
12. Peanuts.	<input type="checkbox"/>	0360	0365	0364	0366	0362	0363
13. Cotton.	<input type="checkbox"/>	0474	0479	Tenths 0478	Tenths 0480	Tenths 0476	Tenths 0477
14. All acres in the open from which vegetables, potatoes, and melons were harvested.	<input type="checkbox"/>	0900	0905	Tenths 0904	Tenths 0906	Tenths 0902	Tenths 0903
a. Sweet corn.	<input type="checkbox"/>	0910	0915	Tenths 0914	Tenths 0916	Tenths 0912	Tenths 0913
b. Tomatoes in the open.	<input type="checkbox"/>	0920	0925	Tenths 0924	Tenths 0926	Tenths 0922	Tenths 0923
c. Lettuce and romaine.	<input type="checkbox"/>	0390	0395	Tenths 0394	Tenths 0396	Tenths 0392	Tenths 0393
d. Potatoes – Exclude sweet potatoes.	<input type="checkbox"/>	0590	0595	Tenths 0594	Tenths 0596	Tenths 0592	Tenths 0593
15. All berries.	<input type="checkbox"/>	1120	1125	1124	1126	1122	1123
16. All other crops grown in the open and not listed Specify: ¹¹¹⁹ _____	<input type="checkbox"/>	0410	0415	Tenths 0414	Tenths 0416	Tenths 0412	Tenths 0413
17. Land in bearing and non-bearing fruit orchards, citrus or other groves, vineyards, and nut trees.	<input type="checkbox"/>	1110	1115	Tenths 1114	Tenths 1116	Tenths 1112	Tenths 1113
18. Nursery and other horticultural crops grown in the open (Note: Nursery, greenhouse, and other horticultural crops grown under protection will be reported in a later section.)	<input type="checkbox"/>	0430	0435	0434	0436	0432	0433
19. Irrigated pastureland, all types.	<input type="checkbox"/>	1148	1149	1150	1151	1152	1153
20. All other irrigated land types such as failed cropland, idle land, and land in summer fallow	<input type="checkbox"/>						

¹ On-farm water source includes recycled water and reclaimed water from on-farm livestock operations.
² Off-farm water supplies may include water purchased from the U.S. Bureau of Reclamation; a state, county, or local district; mutual, private, cooperative, or neighborhood ditches; or commercial or municipal water systems.

SECTION 12 IRRIGATION FOR NURSERY AND OTHER HORTICULTURAL CROPS GROWN IN THE OPEN

1. Were any irrigated nursery, floriculture, sod, propagative materials, Christmas trees, or other horticultural crops grown in the open (including natural shade) on this operation in 2023?

0751 **Yes** – Continue 3 **No** – Go to Section 13

Acres in the Open			
Total Acres		Irrigated Acres	
None	Tenths	Tenths	Tenths
<input type="checkbox"/>	0737		0738

2. Report total acres and irrigated acres for nursery and other horticultural crops grown in the open (including natural shade). . .

3. For nursery and other horticultural crops in the open, enter the total acres and irrigated acres by crop category on this operation in 2023.

NURSERY AND OTHER HORTICULTURAL CROPS IN THE OPEN

a. Floriculture and bedding crops

Bedding/garden plants - annuals, herbaceous perennials, vegetable plants; cut flowers and cut florist greens; indoor foliage plants; potted flowering plants; hanging baskets.

b. Nursery crops

Nursery stock - ornamentals, shrubs, flowering trees, evergreens, live Christmas trees, fruit and nut trees and plants, vines, palms, ornamental grasses, bareroot herbaceous perennials; aquatic plants.

c. Sod.

d. Propagative materials

Bulbs, corms, rhizomes, tubers, cuttings, seedlings, liners, plugs, flower seeds, tobacco plants.

e. Christmas trees and short rotation woody crops.

f. Other horticultural crops – Specify: ¹⁰¹⁰ _____

Total Acres		Irrigated Acres	
None	Tenths	Tenths	Tenths
<input type="checkbox"/>	0739		0740
<input type="checkbox"/>	0741		0742
<input type="checkbox"/>	0743		0744
<input type="checkbox"/>	0745		0746
<input type="checkbox"/>	0747		0748
<input type="checkbox"/>	0749		0750

SECTION 12 CONTINUED –

4. For nursery and other horticultural crops in the open, report area irrigated in 2023 by method used. If more than one method was used on the same area, report for all methods that apply. Report the quantity of water and the unit measure for each irrigation method used on this operation for the entire year. If the total quantity of water (column 2) is unknown, then use column 3 to report the quantity of water used instead.

IRRIGATION METHODS	None	1		2		OR	3		
		Total Acres Irrigated or Watered	Tenths	a. Quantity of Water Applied in 2023	b. Enter Code for Unit of Measure 1 = Acre-Feet 2 = Gallons 3 = Inches/Acre		a. Average Flow Rate (Gallons per Minute) Tenths	b. Number of Hours per Week Used in 2023	c. Number of Weeks Used in 2023
a. Hand watered.	<input type="checkbox"/>	0796		0797	0798	OR	0799	0800	0801
b. Gravity irrigation.	<input type="checkbox"/>	0802		0803	0804	OR	0805	0806	0807
c. Sprinkler.	<input type="checkbox"/>	0808		0809	0810	OR	0811	0812	0813
d. Drip, trickle, or low-flow micro irrigation.	<input type="checkbox"/>	0814		0815	0816	OR	0817	0818	0819
e. Hydroponics.	<input type="checkbox"/>	1157		1158	1159	OR	1160	1161	1162

5. For each method used to irrigate nursery and other horticultural crops in the open, report the percentage of water applied by source. If more than one source was used, report all that apply. For example, if the only source for hand watered crops was ground water, then report 100 percent in column 1, row a. If this operation used gravity irrigation and half of the water came from ground water and half came from on-farm surface water, then report 50 percent in column 1, row b and 50 percent in column 2, row b.

IRRIGATION METHODS	Water Source			
	1 Ground Water from Wells (Percent)	2 On-Farm Surface Water (Percent)	3 Off-Farm Water (All Suppliers) (Percent)	Total
a. Hand watered.	0832	0833	0834	100%
b. Gravity irrigation.	0835	0836	0837	100%
c. Sprinkler.	0838	0839	0840	100%
d. Drip, trickle, or low-flow micro irrigation.	0841	0842	0843	100%
e. Hydroponics.	1163	1164	1165	100%

For each irrigation method used, columns 1 + 2 + 3 must equal 100 percent.

SECTION 13 IRRIGATION FOR NURSERY, GREENHOUSE, AND OTHER HORTICULTURAL CROPS GROWN UNDER PROTECTION

1. Were any irrigated nursery or greenhouse crops, floriculture, mushrooms, vegetable seeds, propagative materials, or other horticultural crops grown under protection on this operation in 2023? Include crops grown under glass, rigid plastic, plastic film, shade cloth, fiberglass, "tunnel" protection, and hoop houses. Exclude crops temporarily covered for early germination, frost protection, etc. Report crops grown under natural shade in Section 12.

0627 **Yes** – Continue 3 **No** – Go to Section 14

2. Report total area and irrigated area for nursery, greenhouse, and other horticultural crops grown under protection.

None	Square Feet Under Protection	
	Total Area	Irrigated Area
<input type="checkbox"/>	0628	0629

3. For nursery or greenhouse crops, floriculture, mushrooms, vegetable seeds, propagative materials, or other horticultural crops grown under protection, enter the total area and irrigated area by horticultural crop category on this operation in 2023.

NURSERY, GREENHOUSE, AND OTHER HORTICULTURAL CROPS UNDER PROTECTION

- a. Floriculture and bedding crops
Bedding/garden plants - annuals, herbaceous perennials, vegetable plants; cut flowers and cut florist greens; indoor foliage plants; potted flowering plants; hanging baskets.
- b. Nursery crops
Nursery stock - ornamentals, shrubs, flowering trees, evergreens, live Christmas trees, fruit and nut trees and plants, vines, palms, ornamental grasses, bareroot herbaceous perennials; aquatic plants.
- c. Propagative materials
Bulbs, corms, rhizomes, tubers, cuttings, seedlings, liners, plugs, flower seeds, tobacco plants, vegetable seeds, vegetable transplants to farm fields.
- d. Food crops grown under protection
Tomatoes, other vegetables and fresh cut herbs, fruits and berries.
- e. Mushrooms.
- f. Other horticultural crops – Specify: ¹⁰¹¹ _____

None	Total Area (Square Feet)	Irrigated Area (Square Feet)
<input type="checkbox"/>	0630	0631
<input type="checkbox"/>	0632	0633
<input type="checkbox"/>	0636	0637
<input type="checkbox"/>	0638	0639
<input type="checkbox"/>	0640	0641
<input type="checkbox"/>	0642	0643

SECTION 13 CONTINUED –

4. For nursery, greenhouse, and other horticultural crops under protection, report area irrigated in 2023 by method used. If more than one method was used on the same area, report for all methods that apply. Report the quantity of water and the unit measure for each irrigation method used on this operation for the entire year. If the total quantity of water (column 2) is unknown, then use column 3 to report the quantity of water used instead.

IRRIGATION METHODS	None	1	2		OR	3		
		Total Area Irrigated or Watered (Square Feet)	a. Quantity of Water Applied in 2023	b. Enter Code for Unit of Measure 1 = Acre-Feet 2 = Gallons 3 = Gallons/Sq Ft. 4 = Inches/Sq Ft.		a. Average Flow Rate (Gallons per Minute) Tenths	b. Number of Hours per Week Used in 2023	c. Number of Weeks Used in 2023
		0701	0702	0703	OR	0704	0705	0706
a. Hand watered.	<input type="checkbox"/>	0707	0708	0709	OR	0710	0711	0712
b. Gravity irrigation.	<input type="checkbox"/>	0713	0714	0715	OR	0716	0717	0718
c. Sprinkler.	<input type="checkbox"/>	0719	0720	0721	OR	0722	0723	0724
d. Drip, trickle, or low-flow micro irrigation.	<input type="checkbox"/>	1166	1167	1168	OR	1169	1170	1171
e. Hydroponics.	<input type="checkbox"/>				OR			

5. For each method used to irrigate nursery, greenhouse, or other horticultural crops under protection, report the percentage of water by source applied. If more than one source was used, report all that apply. For example, if the only source for hand watered crops was ground water, then report 100 percent in column 1, row a. If this operation used gravity irrigation and half of the water came from ground water and half came from on-farm surface water, then report 50 percent in column 1, row b and 50 percent in column 2, row b.

IRRIGATION METHODS	Water Source			
	1 Ground Water from Wells (Percent)	2 On-Farm Surface Water (Percent)	3 Off-Farm Water (All Suppliers) (Percent)	Total
a. Hand watered.	0646	0647	0648	100%
b. Gravity irrigation.	0649	0650	0651	100%
c. Sprinkler.	0652	0653	0654	100%
d. Drip, trickle, or low-flow micro irrigation.	0655	0656	0657	100%
e. Hydroponics.	1172	1173	1174	100%

For each irrigation method used, columns 1 + 2 + 3 must equal 100 percent.

SECTION 14 IRRIGATION AND WATER MANAGEMENT PRACTICES

1. How did you decide when to irrigate in 2023? Mark (X) all that apply –

- 1020 Condition of crop (observation or experience)
- 1021 Feel of the soil
- 1022 Use of soil moisture-sensing devices (moisture blocks, tensiometers, capacitance, other electronic sensors)
- 1023 Use of plant moisture-sensing devices such as pressure (chamber) bombs or infrared (IR) thermometer
- 1024 Use of irrigation scheduling service, including commercial and government
- 1025 Reports on daily crop-water evapo-transpiration (ET) use (Internet, newspapers, radio, TV, fax, or email)
- 1026 When water was delivered or available by irrigation water supplier (no choice by water user)
- 1027 Personal calendar schedule
- 1028 Computer simulation models (not from a commercial service)
- 1029 When neighbors began to irrigate

2. Did you have to discontinue irrigation during 2023 long enough to affect crop yields?

0669 1 **Yes** – Continue 3 **No** – Go to item 3

None	Number of Acres
<input type="checkbox"/>	1039

a. On how many acres did you discontinue irrigation long enough to affect crop yields for any reason during 2023?

b. What were the reasons for discontinuing irrigation? Mark (X) all that apply –

- 1030 Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)
- 1031 Shortage of ground water (lowering water level of wells or depletion of ground water)
- 1032 Irrigation equipment failure
- 1033 Energy price increases or energy shortage
- 1034 Water salinity too high
- 1035 Loss of water rights not due to voluntary transfers
- 1036 Cost of purchased water
- 1037 Other – Specify: ¹⁰³⁸ _____

3. What sources of information does this operation rely on for guidance in reducing irrigation costs or to conserve water used for irrigation? Mark (X) all that apply –

- 1040 Extension agents or university specialists
- 1041 Private irrigation specialists or crop consultants hired by owner or operator
- 1042 Irrigation equipment dealers
- 1043 Local irrigation district employees or others hired by the water supplier
- 1044 Government specialists from the Natural Resources Conservation Service, local conservation district, Bureau of Reclamation, or other Federal or state agencies
- 1045 Media reports or information in the press
- 1046 Neighboring farmers
- 1047 Electronic information services (Internet, DTN, Internet links to private or public data sources, etc.)
- 1048 None

4. Did this operation participate in on-farm groundwater recharge by applying excess water to irrigated fields or other recharge sites such as basins, ditches, and ponds?

1154 1 **Yes** 3 **No**

SECTION 14 CONTINUED –

5. Did any of the following prevent you from implementing improvements that would have reduced energy and/or conserved water in your irrigation system during the past five years? Mark (X) all that apply –

- 1070 Investigating improvements is not a priority at this time
- 1071 Risk of reduced yield or poorer quality crop from not meeting water needs
- 1072 Physical field or crop conditions limit system improvements
- 1073 Improvements will reduce costs, but not enough to recover implementation costs
- 1074 Cannot finance improvements
- 1075 Landlord(s) will not share cost of improvements
- 1076 Uncertainty about future availability of water
- 1077 Will not be farming this operation long enough to justify new improvements
- 1078 Improvements will increase management time or cost

6. Has this operation made irrigation and/or drainage improvements above regular maintenance in the past five years?

- 0209 **Yes** – Continue 3 **No** – Go to Section 15

7. Did you receive any technical or financial assistance for these irrigation and/or drainage improvements?

- 0211 **Yes** – Continue 3 **No** – Go to Section 15

a. From which of the following sources did you receive technical or financial assistance for these improvements? Mark (X) all that apply –

SOURCE OF ASSISTANCE

- (i) USDA programs for water conservation and environmental improvements (CTA, EQIP, RCPP, AMA, WMB, CIG, etc.)
- (ii) Other USDA programs for stewardship (such as CSP) or easements (ACEP/WRP, CRP (including CREP), etc.)
- (iii) Non-USDA Federal programs from agencies such as the Bureau of Reclamation and EPA
- (iv) State programs, local water management, or water supply districts.
- (v) Private businesses such as equipment dealers, bankers, and lenders.

	Technical Assistance	Financial Assistance
0215 <input type="checkbox"/>	0216 <input type="checkbox"/>	
0217 <input type="checkbox"/>	0218 <input type="checkbox"/>	
0219 <input type="checkbox"/>	0235 <input type="checkbox"/>	
0236 <input type="checkbox"/>	0237 <input type="checkbox"/>	
0238 <input type="checkbox"/>	0239 <input type="checkbox"/>	

SECTION 15 LABOR USED FOR IRRIGATION

1. Report the number of hours that hired workers performed irrigation work on this operation in 2023 and the average hourly wage. (Exclude contract labor.)

None	Total Hours of Paid Irrigation Labor Per Year	Average Hourly Wage
		Cents
<input type="checkbox"/>	0732	0733 \$

2. Report contract irrigation labor expenses on this operation in 2023.

None	Total Expense for Contract Irrigation Labor
<input type="checkbox"/>	0788 \$.00

SECTION 16 NO IRRIGATED LAND OR LAND WITH UNUSED IRRIGATION SYSTEMS

- Complete this section if you did not irrigate any land or if you had acres with access to irrigation systems or equipment that did not receive any irrigation in 2023. If you did irrigate all of your equipped land in 2023, skip to Section 17.
- Was there any land on this operation with access to irrigation systems or equipment in 2022, regardless of water rights and availability? Include all land that was irrigated and all land that could have been irrigated during 2022.
 1155 1 **Yes** – Continue 3 **No** – Go to Section 17
- Was any of the land with access to irrigation systems in the previous question irrigated in 2022?
 1156 1 **Yes** 3 **No**
- What were the reasons for not irrigating in 2023? Mark (X) all that apply.
 1050 Sufficient soil moisture – no irrigation needed
 1052 Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)
 1053 Shortage of ground water (lowering water level of wells or depletion of ground water)
 1054 Irrigation uneconomical due to high fuel and power costs and/or low commodity prices
 1055 Loss of water rights not due to voluntary transfers
 1056 Sold or leased water rights or annual water allocation
 1057 Sold or leased irrigated land or irrigated area under protection to others
 1058 Restrictions on water use
 1059 Converted to non-agricultural use
 1060 Converted to an agricultural enterprise not requiring irrigation
 1061 Available surface water too salty
 1062 Other – Specify: ¹⁰⁶³ _____
- Has this operation ceased irrigation permanently? 0530 1 **Yes** 3 **No**

SECTION 17 VALUE OF SALES IN 2023

- Which range includes the gross value of all agricultural products sold from this operation in 2023 including landlord's share? Mark (X) only one –
 0980 1 \$ 0 - \$9,999 2 \$10,000 - \$24,999 3 \$25,000 - \$49,999 4 \$50,000 - \$99,999
 5 \$100,000 - \$249,999 6 \$250,000 - \$499,999 7 \$500,000 - \$999,999 8 \$1,000,000 and over

2.	What percent of total sales were from irrigated crop sales, including irrigated nursery or greenhouse crops, floriculture, sod, mushrooms, vegetable seeds, and propagative materials?	0981	Percent
3.	What percent of total sales were from non-irrigated crop sales and livestock sales?	0982	
			100%

SECTION 18 PERSON COMPLETING THIS FORM – Please Print

1092 Name: _____	9911 Phone: (____) _____	check if cell phone <input type="checkbox"/>	9910 MM DD YY Date: ____ ____ ____
---------------------	-----------------------------	--	--

1095
E-mail: _____

Thank you for your cooperation.

The complete report will be available on the Internet at <http://www.nass.usda.gov> in fall of 2024.

OFFICE USE													
Response		Respondent		Mode		Enum.	Eval.	R. Unit	Change	Optional Use			
1-Comp	9901	1-Op/Mgr	9902	1-PASI (Mail)	9903	9998	9900	9921	9985	9907	9908	9906	9916
2-R		2-Sp		2-PATI (Tel)									
3-Inac		3-Acct/Bkpr		3-PAPI (Face-to-Face)									
		4-Partner											
		9-Oth											
S/E Name _____													