

APPENDIX Report Form

DUE DATE: 20 DAYS AFTER RECEIPT OF FORM

Form Approved: O.M.B. No. 41-579033

NOTICE - Response to this inquiry is required by law (title 13, U.S. Code). By the same law YOUR REPORT TO THE CENSUS BUREAU IS CONFIDENTIAL. It may be seen only by sworn Census employees and may be used only for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. The law also provides that copies retained in your files are immune from legal process.

Please mention the Census File Number (the eleven-digit number in the upper left corner of the address label) if you write to us about this report.

Form 79-A62
(9-7-79)U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1979 FARM AND RANCH IRRIGATION SURVEY

COMPLETE AND
RETURN TOBureau of the Census
1201 East Tenth Street
Jeffersonville, Indiana 47132

NOTE

Consider as irrigated all land watered by any artificial or controlled means - sprinklers, furrows or ditches, spreader dikes, etc. Include preplant, partial, supplemental, or semi-irrigation. Include irrigation of pastureland, hayland, non-bearing orchardland, and cropland from which no crops were harvested in 1979. See additional instructions on page 4 for selected items.

(Please correct any error in name and address including ZIP code)

CENSUS USE ONLY

010	S	012	C	014	R	016	ASR	018	SR	020		021		022	
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Item 1 - Was any land on the farm or ranch you operated in 1978 irrigated at any time in 1979?

- 023
- 1 ☐ YES - Complete items 2 through 14 and 16
- 2 ☐ NO - Go to item 15

Item 2 - ACREAGE IN 1979

- a. All land owned ☐ None ☐ Number of acres 024
- b. All land rented or leased from others, including land worked on shares, used rent-free, in exchange for services, payments of taxes, etc. Include leased Federal, State, and railroad land. (Do not include land used on a per-head basis under a grazing permit.) ☐ 026
- c. All land rented or leased to others, including land worked on shares by others and land subleased ☐ 028

d. **TOTAL ACRES IN THIS PLACE** - ADD acres owned (item a) and acres rented (item b), then SUBTRACT acres rented to others (item c), and enter your answer in this space. ☐ 030

Item 3 - LAND USE IN 1979

Distribute all acres in this place in column (1) and all irrigated land in this place in column (2) among items a through d. If the same land had more than one use in 1979, report that land only once in the first use listed below that applies. (See page 4 for additional instructions.)

- a. Cropland
- (1) Cropland harvested - Include all land from which crops were harvested or hay was cut, and all land in orchards, citrus groves, vineyards, and nursery and greenhouse products ☐ 032
- (2) Cropland used only for pasture or grazing - Include rotation pasture and grazing land that could have been used for crops without additional improvements ☐ 034
- (3) Other cropland - Include cropland used for cover crops, cropland on which all crops failed, cropland in cultivated summer fallow, and cropland idle ☐ 036
- b. Woodland - Include woodland pastured and woodland not pastured ☐ 038
- c. Other pastureland and rangeland - Include any pastureland other than cropland and woodland pasture ☐ 039
- d. All other land - Include here any land not reported above. Include land in house lots, barn lots, corrals, ponds, roads, wasteland, etc. ☐ 041
- e. **TOTAL ACRES** - Please add the acres reported in items a through d and enter total in this space. (Should be the same as item 2d above.) ☐ 042

None	Number of acres (1)	None	Number of acres irrigated in 1979 (See "NOTE" above) (2)
<input type="checkbox"/>	032	<input type="checkbox"/>	033
<input type="checkbox"/>	034	<input type="checkbox"/>	035
<input type="checkbox"/>	036	<input type="checkbox"/>	037
<input type="checkbox"/>	038	<input type="checkbox"/>	039
<input type="checkbox"/>	039	<input type="checkbox"/>	040
<input type="checkbox"/>	041	<input type="checkbox"/>	042
<input type="checkbox"/>	042	<input type="checkbox"/>	043

Item 4 - How did the number of acres irrigated in 1979 compare with the average number of acres irrigated during the 3-year period, 1976-1978?

- 044
- 1 ☐ Much above average (50% or more) 4 ☐ Below average (20% to 49%)
- 2 ☐ Above average (20% to 49%) 5 ☐ Much below average (50% or more)
- 3 ☐ Near average (within 20%)

Item 5 - IRRIGATED AND NON-IRRIGATED YIELDS FROM SELECTED CROPS HARVESTED FROM THIS PLACE IN 1979

(See page 4 for additional instructions.)

	None	Irrigated crop Include preplant and supplemental or semi-irrigation (See page 4 for additional instructions.)				Non-irrigated crop	
		Irrigated acres harvested	Average yield per acre harvested	Number of times irrigation water was applied by -		Non-irrigated acres harvested	Average yield per acre harvested
				Sprinklers	Gravity		
a. Field corn for grain or seed	<input type="checkbox"/>	045	1 Bushels, shelled	2	3	4	5 Bushels, shelled
b. Field corn for silage or green chop	<input type="checkbox"/>	051	1 Tons, green	2	3	4	5 Tons, green
c. Sorghums or milo for grain or seed	<input type="checkbox"/>	057	1 Bushels	2	3	4	5 Bushels
d. Wheat for grain	<input type="checkbox"/>	063	1 Bushels	2	3	4	5 Bushels
e. Barley for grain	<input type="checkbox"/>	069	1 Bushels	2	3	4	5 Bushels
f. Soybeans for beans	<input type="checkbox"/>	075	1 Bushels	2	3	4	5 Bushels
g. Dry field and seed beans	<input type="checkbox"/>	081	1 100-lb. bags	2	3	4	5 100-lb. bags
h. Rice	<input type="checkbox"/>	087	1 100-lb. bags	2	3	4	5 100-lb. bags
i. Other small grains (oats, rye, etc.)	<input type="checkbox"/>	093		1	2	3	
j. Alfalfa and alfalfa mixtures for hay or dehydrating	<input type="checkbox"/>	097	1 Tons, /10 dry	2	3	4	5 Tons, /10 dry
k. Wild or native hay	<input type="checkbox"/>	103	1 Tons, /10 dry	2	3	4	5 Tons, /10 dry
l. Cotton	<input type="checkbox"/>	109	1 Lbs. lint	2	3	4	5 Lbs. lint
m. Tobacco, all types	<input type="checkbox"/>	115	1 Pounds	2	3	4	5 Pounds
n. Sugar beets for sugar	<input type="checkbox"/>	121	1 Tons	2	3	4	5 Tons
o. Irish potatoes	<input type="checkbox"/>	127	1 Cwt.	2	3	4	5 Cwt.
p. Land from which vegetables were harvested	<input type="checkbox"/>	133		1	2	3	
q. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	<input type="checkbox"/>	137		1	2	3	
r. All other crops	<input type="checkbox"/>	141		1	2	3	

Item 6 — Did you have to discontinue irrigation in 1979 long enough to AFFECT crop yields for any of the following reasons?

	Yes	No
a. Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)	147 <input type="checkbox"/>	<input type="checkbox"/>
b. Shortage of ground water (lowering water level of wells or depletion of ground water)	1 <input type="checkbox"/>	<input type="checkbox"/>
c. Irrigation equipment failure	2 <input type="checkbox"/>	<input type="checkbox"/>
d. Energy shortage		
(1) Diesel	3 <input type="checkbox"/>	<input type="checkbox"/>
(2) Gasoline	4 <input type="checkbox"/>	<input type="checkbox"/>
(3) Electricity	5 <input type="checkbox"/>	<input type="checkbox"/>
(4) LP gas, butane, and propane	6 <input type="checkbox"/>	<input type="checkbox"/>
(5) Natural gas	7 <input type="checkbox"/>	<input type="checkbox"/>
e. Poor water quality	8 <input type="checkbox"/>	<input type="checkbox"/>
f. Loss of water rights	9 <input type="checkbox"/>	<input type="checkbox"/>
g. Other — Specify _____		

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Item 7 — METHOD OF WATER DISTRIBUTION IN 1979 — Report acres irrigated by each type of FIELD distribution system listed below. If same land was irrigated by more than one method, report acres irrigated by each method used. (See page 4 for additional instructions.)

	None	Acres irrigated
a. Sprinkler irrigation		150
(1) Center pivot	<input type="checkbox"/>	151
(2) Mechanical-move — Include both continuous or self-propelled and intermittent mechanical move systems such as sideroll, wheel move, end-tow, carriage with trailer lines, rotating boom, and big gun traveler	<input type="checkbox"/>	152
(3) Hand move	<input type="checkbox"/>	153
(4) Solid set and permanent system	<input type="checkbox"/>	154
b. Gravity irrigation		
(1) Gated pipe	<input type="checkbox"/>	155
(2) Open ditch, siphon tubes	<input type="checkbox"/>	156
(3) Flooding from underground pipe with valves	<input type="checkbox"/>	157
(4) Flooding from ditches, canals, dikes, and any other gravity method (excluding methods reported above)	<input type="checkbox"/>	158
c. Drip or trickle irrigation	<input type="checkbox"/>	159
d. Subirrigation (water applied beneath the ground; maintenance of water table at a predetermined depth)	<input type="checkbox"/>	159

Item 8 — ESTIMATED QUANTITY OF WATER USED IN 1979 BY SOURCE
NOTE — Give your best estimate if measurements are not available.
(See page 4 for additional instructions.)

	Average acre-feet per acre irrigated One acre-foot covers one acre one foot deep (1)	Quantity of water used for irrigation in 1979 Report in the unit or units of measure most convenient for you. If average acre-feet cannot be estimated in column (1), give combined pumping capacity and duration in columns (2) and (3), or total depth of water applied, in inches, in column (4)		Total inches applied Include all applications (4)
		Total gallons per minute (2)	No. of days water was applied (3)	
a. From a well or wells located on operated land	161 /10	162	163	164
b. From an on-farm surface supply not controlled by a water supply organization (stream, drainage ditch, lake, pond, spring, or reservoir on or adjacent to operated land)	165 /10	166	167	168
c. From off-farm water suppliers (U.S. Bureau of Reclamation; irrigation district; mutual, private, cooperative, or neighborhood ditches; commercial company or municipal or community water system)	169 /10			170

Item 9 — SELECTED IRRIGATION FACILITIES ON THIS PLACE IN 1979

a. How many irrigation wells were on this place in 1979, including those capable of use, but not used? (Exclude abandoned wells.)
☐ None — If none, skip to item 9c
 172 _____ Number of wells — If any, complete item 9b.

b. Of the number reported in item 9a, how many wells were used in 1979?
 173 _____ Number

Report the following information for each well which was used on this place in 1979 (wells reported in 9b)
 If there are more than nine wells, report information for nine of the wells, then report the average for the remaining wells.

	Depth of well Feet	Depth to water (At start of irrigation season) Feet	Pumping depth (Depth to bowls or impellers) Feet	Pump capacity (Discharge from well) GPM
(1) Well number 1	174	175	176	177
(2) Well number 2	178	179	180	181
(3) Well number 3	182	183	184	185
(4) Well number 4	186	187	188	189
(5) Well number 5	190	191	192	193
(6) Well number 6	194	195	196	197
(7) Well number 7	198	199	200	201
(8) Well number 8	202	203	204	205
(9) Well number 9	206	207	208	209
(10) All other wells	210	211	212	213
	Average	Average	Average	Average

Item 9 — SELECTED IRRIGATION FACILITIES ON THIS PLACE IN 1979 — Continued

c. Irrigation pumps (other than well pumps) used for —
(Report all pumps on this place whether they are in service or not.)

None

Number of pumps	Average discharge capacity GPM
216	217
218	219
220	

(1) Tailwater pits ☐

(2) Ponds, lakes, reservoirs, rivers, etc. ☐

(3) To relift or boost water within system ☐

d. Constructed reservoirs or ponds for storing irrigation water on this place (Do not include tailwater pits.)

222 _____ Number

(1) Area covered when filled to capacity ☐ 223 _____ /10 Acres

Item 10 — EXPENDITURES IN 1979 FOR IRRIGATION WELLS, PUMPS, EQUIPMENT, AND OTHER IRRIGATION FACILITIES ON THIS PLACE

Report expenditures in 1979 for irrigation facilities on this place whether made by you or someone else. Include landlord's share — Give estimates if actual figures are unavailable. (See page 4 for additional instructions.)

None

Total expenditures CENTS NOT REQUIRED	
Dollars	Cents
226	
\$	
227	
\$	
228	
\$	
229	
\$	

a. Purchase of irrigation equipment and machinery — Include sprinklers, pipes, siphons, nozzles, pumps, motors, and engines at net cost ☐

b. New well construction or deepening of existing wells — Include drilling costs, cost of casing, and any costs to prepare well for installation of pump. (Do not include cost of pumps and motors.) ☐

c. Construction or improvement of permanent storage and distribution systems (dams, ponds, reservoirs, permanent ditches, canals, flumes, etc.) ☐

d. Land clearing and leveling for irrigation purposes ☐

Item 11 — MAINTENANCE AND REPAIR COSTS FOR IRRIGATION EQUIPMENT AND FACILITIES ON THIS PLACE IN 1979

(See page 4 for additional instructions.)

None

CENTS NOT REQUIRED	
Dollars	Cents
231	
\$	

a. Amount spent for maintenance and repairs of irrigation equipment and facilities in 1979 including maintenance of on-farm ditches. Include landlord's share — Give estimate if actual figures are unavailable. ☐

Item 12 — ENERGY USE ON THIS PLACE IN 1979 FOR PUMPING IRRIGATION WATER BY POWER SOURCE — Include fuel adjustment cost.

(See page 4 for additional instructions.)

	Number of wells or pumps powered by type of energy used	Total cost of fuel used CENTS NOT REQUIRED		Amount of energy used by type of fuel	Acres irrigated by type of energy used
		Dollars	Cents		
a. Electricity <input type="checkbox"/>	234	235		236	237
		\$		Kilowatt-hours	
b. Natural gas <input type="checkbox"/>	238	239		240	241
		\$		Thousand cubic feet	
c. LP gas, propane, or butane <input type="checkbox"/>	242	243		244	245
		\$		Gallons	
d. Diesel fuel <input type="checkbox"/>	246	247		248	249
		\$		Gallons	
e. Gasoline <input type="checkbox"/>	250	251		252	253
		\$		Gallons	

Item 13 — WATER RECEIVED FROM OFF-FARM IRRIGATION WATER SUPPLIERS IN 1979

(U.S. Bureau of Reclamation; irrigation districts; mutual, private, cooperative or neighborhood ditches; commercial company, municipal, or community water system)

a. How much water was received? ☐ 256 _____ Acre-feet

b. Total cost of water received — Include all assessments, fees, or charges paid to water suppliers ☐ 257 \$ _____ Dollars only

c. Number of acres irrigated with water received ☐ 258 _____ Acres

Item 14 — OTHER IRRIGATION USES ON THIS PLACE IN 1979

Was irrigation used for any of the following secondary purposes?

None

Acres on which applied	
261	
262	
263	
264	
265	
266	
267	

a. Application of commercial fertilizer materials ☐

b. Application of chemicals to control insects or nematodes ☐

c. Application of chemicals to control weeds, grasses, or brush ☐

d. Application of chemicals to control diseases in crops and orchards ☐

e. Prevent freeze damage ☐

f. Crop cooling to delay early budding or blooming ☐

g. Other — land disposal of liquid livestock waste, leaching, etc. — Specify ☐

Item 15 — Was any land irrigated on this place in 1978? Do not answer this item if you irrigated any land in 1979.

268

- 1 ☐ YES — Answer a and b below
2 ☐ NO — Go to item 16

a. Reason for discontinuing irrigation in 1979 — Mark (X) any of the following that apply.

270

- 1 ☐ Sufficient soil moisture — no irrigation needed
2 ☐ Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)
3 ☐ Shortage of ground water (lowering water level of wells or depletion of ground water)
4 ☐ Irrigation uneconomical due to high fuel and power costs and/or low commodity prices
5 ☐ Irrigation equipment failure
6 ☐ Loss of water rights
7 ☐ Other — Specify _____

b. Do you consider your discontinuance of irrigation to be permanent?

271

- 1 ☐ YES
2 ☐ NO

Item 16 — PERSON COMPLETING THIS FORM — Please print

Name	Date	Telephone	
		Area code	Number

ADDITIONAL INSTRUCTIONS

NOTE: In completing this form, if exact figures are not available, give your best estimate. An estimate is more useful than an omitted answer.

Item 3 — Land Use and Irrigated Land Uses in 1979

All acres "In This Place" must be distributed among the land use categories in item 3. Each acre "In This Place" should be reported only once, in the first category that applies.

Similarly, for each category of **Land Use**, report the acres irrigated in 1979, in the appropriate category.

Report all cropland, pastureland, and rangeland watered by artificial means at any time during 1979. In addition to fully irrigated land, report as irrigated any lands to which supplemental water was applied. This may be considered as partial, supplemental, or semi-irrigation. Also include any acreage which received only preplant irrigation (watered before planting). Haylands, pastureland, or rangeland should be reported as irrigated if spring flood water is spread by canals, ditches, spreader dikes, pipes, or other works.

Item 5 — Irrigated and Non-Irrigated Crop Yields

For each crop harvested, report separately the acres and average yield from irrigated land and non-irrigated land.

Report harvested crops as irrigated if any water was artificially applied either before planting or during the crop growing season in 1979. 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.

Item 7 — Method of Water Distribution

This item refers to the method used to spread the water over the land. Report the acres of land irrigated by each type of field distribution system listed. Do not confuse the delivery system used to convey water from the source to the field with the field distribution system.

Item 8 — Quantity of Water Used

Three methods of reporting estimated quantity of water used have been provided on the report form. Use any one of the methods shown. Remember, if actual measurements are unavailable, give your best estimate.

Average acre-feet — This method is often used by operators who get water from irrigation districts or other irrigation organizations. The acre-feet used may be shown on the water bill.

Gallons pumped and duration — This method is often used by operators who pump their water from wells. By reporting the combined discharge capacity of all the well-pumps and the duration of the pumping season we can compute the total quantities of water applied.

Total depth in inches — This method is often preferred by operators using sprinkler systems. Sum the inches applied in each irrigation to a total. If inches applied for each irrigation are unknown, use an average.

Item 10 — Irrigation Expenditures

Report expenditures made in 1979 for the construction of irrigation facilities and purchase of irrigation equipment and machinery on this place. Include estimates of expenditures made by or shared with others (landlords, government agencies, etc.). Report cost of maintenance and repairs in item 11.

Item 11 — Maintenance and Repair Cost

Report all expenses in 1979 for keeping irrigation equipment and facilities in working order. Include expenses for tune-ups, oil changes, and repairs to pumps, motors, pipe, canals, sprinkler systems, etc. Also include expenses for ditch and canal cleanout.

Item 12 — Energy Use for Irrigation Pumping

Report both the expenditure for fuel and power and the amount used in 1979 for irrigation pumping on this place. Include in the cost figures any additional charges by the power of fuel suppliers such as the "fuel adjustment charge" or any other type of additional charge which is based on the amount of power or fuel purchased. Again, give best estimates if actual figures are not available.

Remarks

CENSUS USE ONLY	275	276	277	278	279	280	281	282	283	284
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WATER RESOURCES AREAS AND AGGREGATED SUBAREAS

(DRAINAGE BASINS APPROXIMATED BY COUNTY BOUNDARIES)

