

2008 HORTICULTURAL IRRIGATION SURVEY

Form Number: 08-A062.1
(08/15/08)



National Agricultural
Statistics Service

Please return your
completed report to:

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

OFFICE USE ONLY

0009	0010	0011

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

Everyone who receives a form must return one by mail or via the Internet at www.agcensus.nass.usda.gov. Your report is due by **February 17, 2009**. To fill out the paper form, use a black or pen ballpoint pen. **Duplicate forms?** If you received extra report forms for the SAME farming operation, return all report forms in the same envelope with this completed report. Questions? Call us toll-free at **1-888-424-7828**. Thank you for your cooperation.

SECTION 1 HORTICULTURE OPERATION

1. Were any nursery, floriculture, or greenhouse crops, including ornamental plants, mushrooms, aquatic plants, Christmas trees, short rotation woody crops, vegetable or tobacco transplants, sod, food crops under protection, vegetable seeds, flower seeds, or other propagative materials, grown for sale on this operation in 2008?
0001
 1 YES – Continue 2 NO – Go to SECTION 7 and return by mail

2. Did retail and wholesale sales (total gross sales) of horticultural crops grown or produced on this operation total \$10,000 or more during 2008?
0004
 1 YES – Continue 2 NO – Go to SECTION 7 and return by mail

3. Did this operation IRRIGATE or WATER any horticultural crops in 2008?
0005
 1 YES – Please complete this report form 2 NO – Go to SECTION 6 and return by mail

PENALTY FOR FAILURE TO REPORT

Notice: Response to this inquiry is required by law (Title 7, U.S. Code). By the same law, YOUR REPORT IS CONFIDENTIAL and it will only be used 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.

SECTION 2 IRRIGATION AREA, METHODS, AND WATER APPLIED IN 2008

Under Glass or Other Protection

None

SQUARE FEET UNDER PROTECTION	
Total Area	Irrigated Area
0628	0629

1. Nursery, greenhouse, floriculture, sod, mushrooms, and propagative materials under glass or other protection.

2. Crops Under Glass or Other Protection

For horticultural crops only, enter the total area and irrigated area by horticultural crop category for this operation in 2008.

HORTICULTURAL CROPS

NONE

- a. Floriculture and Bedding Crops.
- b. Nursery Crops.
- c. Sod.
- d. Propagative Materials.
- e. Food Crops Grown Under Protection.
- f. Mushroom Crops.
- g. Other – Specify: _____

1 Enter the total area for each crop grown under glass or other protection on this operation in 2008 Total Square Feet	2 Enter the irrigated area for each crop grown under glass or other protection on this operation in 2008 Irrigated Square Feet
0630	0631
0632	0633
0634	0635
0636	0637
0638	0639
0640	0641
0642	0643

3. Method and Water Applied Under Glass or Other Protection

For horticultural crops only, report area irrigated or watered by method used. If more than one method was used, report all that apply. Report quantity of water in the unit or units of measure most used on this operation. If total quantity of water (column 2) and the unit of measure (column 3) are known, then skip columns 4, 5, and 6.

IRRIGATION METHODS

None

- a. Hand Watered.
- b. Gravity Irrigation.
- c. Overhead/sprinkler.
- d. Drip Irrigation.
- e. Subirrigation.
- f. Other – Specify: _____

1 What was the total area irrigated or watered by this method? Square Feet	2 How much water was applied by this method?	3 [Enter unit code] 1 Acre Feet 2 Gallons 3 Inches 4 Gallons/Sq Ft. 5 Inches/Sq Feet 6 Other – Specify: _____	OR	4 What is this irrigation method's average flow rate? [Enter in Gallons per Minute]	5 How many hours per week was this irrigation method used to water horticultural crops?	6 How many weeks was this irrigation method used to water horticultural crops?
0701	0702	0703		0704	0705	0706
0707	0708	0709		0710	0711	0712
0713	0714	0715		0716	0717	0718
0719	0720	0721		0722	0723	0724
0725	0726	0727		0728	0729	0730
0731	0732	0733		0734	0735	0736

SECTION 2
Continued

IRRIGATION AREA, METHODS, AND WATER APPLIED IN 2008

In the Open

4. Nursery, greenhouse, floriculture, sod, mushrooms, and propagative materials in the open (including natural shade). . . .

None

ACRES IN THE OPEN			
Total Acres	Tenths	Irrigated Acres	Tenths
0737	•__	0738	•__

5. Crops in the Open

For horticultural crops only, enter the total area and irrigated area by horticultural crop category for this operation in 2008.

HORTICULTURAL CROPS

NONE

- a. Floriculture and Bedding Crops.
- b. Nursery Crops.
- c. Sod.
- d. Propagative Materials.
- e. Mushroom Crops.
- f. Other – Specify: _____

1 Enter the total area for each crop grown in the open on this operation in 2008 Total Acres (nearest tenth)	2 Enter the irrigated area for each crop grown in the open on this operation in 2008 Irrigated Acres (nearest tenth)
0739 •__	0740 •__
0741 •__	0742 •__
0743 •__	0744 •__
0745 •__	0746 •__
0747 •__	0748 •__
0749 •__	0750 •__

6. Method and Water Applied in the Open

For horticultural crops only, report area irrigated or watered by method used. If more than one method was used, report all that apply. Report quantity of water in the unit or units of measure most used on this operation. If total quantity of water (column 2) and the unit of measure (column 3) are known, then skip columns 4, 5, and 6.

IRRIGATION METHODS

None

- a. Hand Watered.
- b. Gravity Irrigation.
- c. Overhead/sprinkler.
- d. Drip Irrigation.
- e. Subirrigation.
- f. Other – Specify: _____

1 What was the total area irrigated or watered by this method? Total Acres (nearest tenth)	2 How much water was applied by this method?	3 [Enter unit code] 1 Acre Feet 2 Gallons 3 Inches 4 Gallons/Sq Ft. 5 Inches/Sq Feet 6 Other – Specify: _____	OR	4 What is this irrigation method's average flow rate? [Enter in Gallons per Minute]	5 How many hours per week was this irrigation method used to water horticultural crops?	6 How many weeks was this irrigation method used to water horticultural crops?
0796 •__	0797	0798		0799 •__	0800	0801
0802 •__	0803	0804		0805 •__	0806	0807
0808 •__	0809	0810		0811 •__	0812	0813
0814 •__	0815	0816		0817 •__	0818	0819
0820 •__	0821	0822		0823 •__	0824	0825
0826 •__	0827	0828		0829 •__	0830	0831

SECTION 3 IRRIGATION BY WATER SOURCE IN 2008

Under Glass or Other Protection

1. For the methods used to irrigate or water horticultural crops under glass or other protection, report the water source by percent of 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 i.

IRRIGATION METHODS		Of the total quantity of water applied by the irrigation methods listed, what percent used on this operation in 2008 was from –		
		i. Ground Water? (from wells) PERCENT	ii. On-Farm Surface Water? PERCENT	iii. Off-Farm Surface Water? (All Suppliers) PERCENT
None				
a. Hand Watered.	<input type="checkbox"/>	0646	0647	0648
b. Gravity Irrigation.	<input type="checkbox"/>	0649	0650	0651
c. Overhead/sprinkler.	<input type="checkbox"/>	0652	0653	0654
d. Drip Irrigation.	<input type="checkbox"/>	0655	0656	0657
e. Subirrigation.	<input type="checkbox"/>	0658	0659	0660
f. Other – Specify: _____	<input type="checkbox"/>	0661	0662	0663

For each irrigation method used, columns i + ii + iii must equal 100 percent.

In the Open

2. For the methods used to irrigate or water horticultural crops in the open, report the water source by percent of 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 i.

IRRIGATION METHODS		Of the total quantity of water applied by the irrigation methods listed, what percent used on this operation in 2008 was from –		
		i. Ground Water? (from wells) PERCENT	ii. On-Farm Surface Water? PERCENT	iii. Off-Farm Surface Water? (All Suppliers) PERCENT
None				
a. Hand Watered.	<input type="checkbox"/>	0832	0833	0834
b. Gravity Irrigation.	<input type="checkbox"/>	0835	0836	0837
c. Overhead/sprinkler.	<input type="checkbox"/>	0838	0839	0840
d. Drip Irrigation.	<input type="checkbox"/>	0841	0842	0843
e. Subirrigation.	<input type="checkbox"/>	0844	0845	0846
f. Other – Specify: _____	<input type="checkbox"/>	0847	0848	0849

For each irrigation method used, columns i + ii + iii must equal 100 percent.

NOTES AND CALCULATIONS

SECTION 4 RECYCLED AND/OR RECLAIMED WATER USE IN 2008

Report recycled and reclaimed water use in 2008 separately. **Recycled water** is the reuse of surface or groundwater that has already been used to irrigate a crop on the operation during 2008 (i.e. water recycled from a tailwater reuse pit). **Reclaimed water** is wastewater that has been treated for non-potable re-use purposes. Include any reclaimed water used from livestock operations or from off-farm wastewater sources such as municipal or industrial wastewater.

RECYCLED WATER

1. Did this operation use recycled water to irrigate any crops in 2008?
⁰⁹³⁵ ₁ **Yes** – Continue ₂ **No** – Go to item 3 below

	AREA UNDER PROTECTION SQUARE FEET	ACRES IN THE OPEN (NEAREST TENTH)
2. How much of the horticultural area on this operation was irrigated with recycled water during 2008?	0936	0937

3. What was the source of the recycled water during 2008. Mark (X) all that apply.
⁰⁹³⁸ ₁ On-farm irrigation
₂ Off-farm irrigation
₃ Other – Specify: _____

RECLAIMED WATER

4. Did this operation use reclaimed water to irrigate horticultural crops in 2008?
⁰⁹³⁹ ₁ **Yes** – Continue ₂ **No** – Go to SECTION 5

	AREA UNDER PROTECTION SQUARE FEET	ACRES IN THE OPEN (NEAREST TENTH)
a. How much of the horticultural area on this operation was irrigated with reclaimed water during 2008?	0940	0941

5. What was the source of the reclaimed water during 2008? Mark (X) all that apply.
⁰⁹⁴² ₁ Municipal
₂ Industrial
₃ On-farm livestock operation
₄ Off-farm livestock operation
₅ Other – Specify: _____

6. Was any reclaimed water supply purchased?
⁰⁹⁴³ ₁ **Yes** – Continue ₂ **No** – Go to item 7

	TOTAL GALLONS
a. How much reclaimed water was purchased?	0944

	DOLLARS PER 1,000 GALLONS
b. What was the average price paid per 1,000 gallons for reclaimed water?	0945 \$.00

7. Did this operation receive any payments for using any reclaimed water supply?
⁰⁹⁴⁶ ₁ **Yes** – Continue ₂ **No** – Go to SECTION 5

	TOTAL GALLONS
a. How much reclaimed water did this operation receive payment for?	0947

	DOLLARS PER 1,000 GALLONS
b. What was the average price received per 1,000 gallons for reclaimed water?	0948 \$.00

SECTION 5

OTHER USES OF IRRIGATION WATER ON THIS OPERATION IN 2008

AREA ON WHICH APPLIED

1. Report the area on this operation that was irrigated for the following purposes:

- a. Prevent freeze damage
- b. Crop cooling to delay early budding, blooming, or to reduce heat stress (cool crop canopy)
- c. Leaching to remove salts from the soil (salinity control)
- d. Other – Specify: _____

NONE	AREA UNDER PROTECTION SQUARE FEET	NONE	ACRES IN THE OPEN TENTH)
<input type="checkbox"/>	0619	<input type="checkbox"/>	0620 • ____
<input type="checkbox"/>	0621	<input type="checkbox"/>	0622 • ____
<input type="checkbox"/>	0623	<input type="checkbox"/>	0624 • ____
<input type="checkbox"/>	0625	<input type="checkbox"/>	0626 • ____

SECTION 6

IRRIGATED LAND IN 2007

Complete this section ONLY if you DID NOT irrigate or water any horticultural crops in 2008.

1. Was any land irrigated on THIS OPERATION in 2007?

- ⁰⁵²⁸ **YES** – Continue **NO** – Go to SECTION 7

2. Reasons for not irrigating in 2008 – Mark (X) all that apply.

- ⁰⁵²⁹ Sufficient soil moisture – no irrigation needed
- Surplus soil moisture or flooding
- Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)
- Shortage of ground water (lowering water level of wells or depletion of ground water)
- Irrigation uneconomical due to high fuel and power costs and/or low commodity prices
- Abandoned irrigation because of land degradation (soil erosion, soil salinity, etc.)
- Loss of water rights (not due to voluntary transfers)
- Restrictions on water use
- Sold or leased water rights or annual water allocation
- Converted to non-agricultural use
- Converted to an agricultural enterprise not requiring irrigation
- Available surface water too salty due to drought conditions
- Other – Specify: _____

3. Do you consider the discontinuance of irrigation on this operation to be permanent?

- ⁰⁵³⁰ **YES** **NO** – Continue

SECTION 7 | VALUE OF SALES

1. What was the gross value of agricultural products sold from this operation in 2008? Include 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 or more

PERCENT

0983

2. What percent of total farm sales were from irrigated horticulture?

3. What percent of total farm sales were from other crop or livestock sales? Include non-irrigated horticulture sales.

0984

SECTION 8 | PERSON COMPLETING THIS FORM - Please print

9910 MM DD YY
Date: ____ - ____ - ____

Name: _____

Telephone: (____) ____ - ____

0099
1 **YES** 2 **NO**

Would you like to receive a free copy of the results of this survey in the mail?

(The survey results will also be available on the Internet at <http://www.usda.gov/nass> in the fall of 2009.)

Thank you for your response

OFFICE USE

Response	Respondent	Mode	Enum.	Eval.	Optional Use
1-Comp 2-R 3-Inac	9901 1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902 1-Mail 2-Tel 3-Face-to-Face	9903 0098	0100	0002 0003

S/E Name _____

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The time to complete this information collection is estimated to average 20 minutes per response.