

INSTRUCTIONS FOR IRRIGATION FLOW RATE QUESTIONNAIRE

The information required in this questionnaire will describe your water delivery system and irrigation methods. This information is essential in order for staff of IDWR to evaluate your irrigation water requirements. Much of the information is technical, and you may wish to contact the Soil Conservation Service or other professionals for assistance with this form.

Please provide your name, address, and phone number where you may be contacted for further information or clarification. Include the claim number(s) for those claims where the irrigation flow rate is more than 0.02 cfs (1 miner's inch) per acre.

1. provide the total number of acres irrigated for the claims listed.
2. provide a breakdown in acres of the types of crops grown in a typical irrigation season for each of your irrigation system types.

Items 3 through 8 must be completed for each of the irrigation system types you specified in item 2. This information must be completed as accurately as possible. All information must be based on peak water use during the irrigation season.

inflow - this is the flow of water applied to an individual furrow, border, ditch, etc.; proper evaluation requires good accuracy

spacing or width - this is the distance between individual furrows, border ridges, sprinkler laterals, etc.

length - this is the maximum length of run of furrows, corrugations, borders etc.

field slope - this is the slope of the field in the direction of the run of furrows, borders, etc.; specify in percent or give units if specified otherwise

set time - this is the number of hours that water is applied during an irrigation set

frequency - this is the number of days between irrigation start times of the same set of furrows or border(s) etc.

9. complete the appropriate items for the main ditch from the point of diversion to the farm; if this ditch is shared by other water users a more complete description of the system will be required

Items 10, 11, 12, and 13 see questionnaire.

IRRIGATION FLOW RATE QUESTIONNAIRE

THIS INFORMATION IS REQUIRED FOR ANY ADJUDICATION CLAIM(S) FOR WHICH THE IRRIGATION FLOW RATE CLAIMED IS MORE THAN 0.02 CFS PER ACRE (ONE EXCEPTION IS THAT 0.03 CFS PER ACRE MAY BE ALLOWED FOR IRRIGATION OF UP TO 5 ACRES).

CLAIM NO(S). _____

NAME _____

ADDRESS _____

PHONE _____

1. TOTAL IRRIGATED ACRES SHOWN ON CLAIM(S) REFERENCED ABOVE _____ ACRES.

2. SHOW THE NUMBER OF ACRES OF CROPS GROWN FOR YOUR IRRIGATION SYSTEM(S) DURING A TYPICAL SEASON

	Border	Furrow	Corrugation	Sprinkler	Contour Ditch	Other
Alfalfa						
Beans						
Field Corn						
Silage						
Spring Grain						
Winter Wheat						
Orchard						
Pasture						
Potatoes						
Sugar Beets						
Other						

PLEASE COMPLETE ITEMS 3 THROUGH 8 FOR EACH OF THE IRRIGATION SYSTEM TYPES SPECIFIED ABOVE

3. BORDER (COMPLETE BELOW BASED ON PEAK USE)

<hr/> Inflow to border (cfs) <hr/>	<hr/> Border width (feet) <hr/>	<hr/> border length (feet) <hr/>
<hr/> field slope (%) <hr/>	<hr/> set time (hours) <hr/>	<hr/> number of borders per set <hr/>
<hr/> frequency (days) <hr/>		

4. FURROW (COMPLETE BELOW BASED ON PEAK USE)

<hr/> Inflow to furrow (gpm) <hr/>	<hr/> furrow spacing (inches) <hr/>	<hr/> furrow length (feet) <hr/>
<hr/> field slope (%) <hr/>	<hr/> set time (hours) <hr/>	<hr/> number of furrow per set <hr/>
<hr/> Frequency (days) <hr/>		

5. CORRUGATION (COMPLETE BELOW BASED ON PEAK USE)

<hr/> Inflow to corr. (gpm) <hr/>	<hr/> Corr. Spacing (inches) <hr/>	<hr/> Corr. Length (feet) <hr/>
<hr/> Field slope (%) <hr/>	<hr/> Set time (hours) <hr/>	<hr/> Number of corrugations per set <hr/>
<hr/> Frequency (days) <hr/>		

6. SPRINKLER (COMPLETE BELOW BASED ON PEAK USE)

<hr/> average nozzle flow (gpm) <hr/>	<hr/> nozzle spacing (feet) <hr/>
<hr/> lateral length (feet) <hr/>	<hr/> lateral spacing(feet) <hr/>
<hr/> number of laterals per set <hr/>	<hr/> set time (hrs.) <hr/>
<hr/> frequency (days) <hr/>	

7. CONTOUR DITCH (COMPLETE BELOW BASED ON PEAK USE)

<hr/> average nozzle flow (gpm) <hr/>	<hr/> nozzle spacing (feet) <hr/>
<hr/> lateral length (feet) <hr/>	<hr/> lateral spacing(feet) <hr/>
<hr/> number of laterals per set <hr/>	<hr/> set time (hrs.) <hr/>
<hr/> frequency (days) <hr/>	

8. OTHER IRRIGATION SYSTEM TYPE (specify) _____
(COMPLETE BELOW BASED ON PEAK USE)

Inflow (cfs)

Field slope (%)

frequency (days)

Total area irrigated per set (acres)

Set time (hrs.)

9. CONVEYANCE FROM SOURCE TO FARM

UNLINED DITCH-SPECIFY SOIL TYPE: _____

length (ft) ave. depth from land surface (in) ave. top width of water surface (in)

LINED DITCH-SPECIFY TYPE OF LINING: _____

length (ft) ave. depth from land surface (in) ave. top width of water surface (in)

PIPELINE

length (feet) diameter (inches)

IS THIS CONVEYANCE SYSTEM SHARED BY OTHER WATER USERS? _____
IF YES, PLEASE DESCRIBE OR SKETCH THE SYSTEM SHOWING THE NUMBER OF WATER
USERS, LOCATION OF HEADGATES, LENGTHS ETC.

10. ON-FARM DISTRIBUTION SYSTEM-DRAW A SIMPLE SKETCH OF YOUR ON-FARM WATER DISTRIBUTION SYSTEM. AN AERIAL PHOTO/FARM PLAN WITH THE IRRIGATION SYSTEM SKETCHED ON IT MAY BE USED. THIS SKETCH MUST INCLUDE THE FOLLOWING INFORMATION FOR EACH REACH: LENGTH, TOP WIDTH OF WATER SURFACE, DEPTH FROM LAND SURFACE, SOIL TYPE OR LINING, AND PERCENT OF TOTAL FLOW DURING USE.

11. HAVE YOU CHANGED YOUR IRRIGATION SYSTEM FROM THE ONE HISTORICALLY USED?
(FOR EXAMPLE, LAND LEVELING, CHANGING LENGTH OF RUNS, CHANGE FROM FURROW TO SPRINKLER, ETC.)

IF YES, PLEASE DESCRIBE:

12. HAVE YOU HAD ANY IRRIGATION SYSTEM DESIGN/EVALUATIONS OR FARM SOIL SURVEYS COMPLETED BY THE SOIL CONSERVATION SERVICE, PRIVATE CONSULTANTS, OR IRRIGATION EQUIPMENT DEALERS?
IF YES, PLEASE DESCRIBE OR ATTACH COPIES

13. PLEASE INCLUDE ANY FURTHER COMMENTS WHICH WILL AID IN THE EVALUATION OF YOUR WATER REQUIREMENTS.