

Instructions

Irrigation Water Management Record Sheet

NE-ENG-80

Instructions for use of NE-ENG-80

This worksheet can be used for recording irrigation field information.

- (1) Name of producer.
- (2) Field number in which IWM is being applied.
- (3) FSA tract number.
- (4) Number of acres in field.
- (5) Length of furrows if gravity irrigated.
- (6) Average furrow grade if gravity irrigated or slope of field if sprinkler irrigated.
- (7) The well or water source output in gallons per minute.
- (8) The date that the water source output was last checked or measured.
- (9) Crop grown.
- (10) Location, phone number, radio station, of evapotranspiration (ET) data for the nearest weather station.
- (11) Soil type.
- (12) Available water at field capacity in the crops root zone for the soil listed (normally 3 foot).
- (13) The maximum allowed depletion of the available water before irrigation should be scheduled.
- (14) The date each irrigation is started.
- (15) The soil moisture deficit on the day that irrigation is started, this is the amount in inches that the soil will hold, without runoff or deep percolation.
- (16) The evapotranspiration (ET) rate or the average daily crop water use rate on the day the irrigation is started.
- (17) Inches applied, this is the gross amount of water pumped or delivered to the field or to the set, whichever applies. The sum of this line equals the gross amount delivered to the field for the season.
- (18) This is to record the meter reading, clock time or hour meter reading at the beginning of each irrigation.
- (19) Meter reading at the end of each irrigation. (Same as above)
- (20) The number of furrows being irrigated for this set or irrigation. The average gallons per minute flowing down the furrows may be substituted when furrow length varies or set size is not constant.
- (21) This is the average time it takes for one half of the furrows in any given set to reach the end of the field, and the data can be used to evaluate the irrigation to make adjustment to achieve higher efficiency, more uniform distribution, or decrease deep perk.
- (22) This line is used to record the time water is allowed to run on the set being evaluated. In cases where this record is being pushed on Center Pivot irrigation, record the hours for one revolution of the pivot.
- (23) Record the dates of rainfall during the growing season.
- (24) Record the rainfall amounts for the field.
- (25) Keep factors that need explanation in the notes.
- (26) Total irrigation water application for the season.
- (27) Total rainfall for the growing season, at a minimum rainfall from May through September must be kept.

Note: The use of this form is intended to satisfy requirements to record irrigation information for various water quantity or quality programs in Nebraska. It is not intended for this form to be considered a water management plan or complete scheduling tool. The information included on this form will be used to evaluate the irrigation system to determine the effectiveness of the system.

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