

| | |
|-------------------|----------------------------|
| Name _____ | Ident. No./Field No. _____ |
| Legal Desc. _____ | County _____ |
| Designed by _____ | Date _____ |
| Checked by _____ | Date _____ |
| Approved by _____ | Date _____ |

Original System

| | | | |
|--------------------------------|---|-------|--|
| A Irrigation System Type | _____ | _____ | |
| B Soil Surface Disturbance | _____ | _____ | |
| C Surface Evaporation Losses | _____ | _____ | |
| D Scheduling Control | _____ | _____ | |
| Rating Value = (A x B x C x D) | = (A) _____ x (B) _____ x (C) _____ x (D) _____ | = | |

Modified System

| | | | |
|--------------------------------|---|-------|--|
| A Irrigation System Type | _____ | _____ | |
| B Soil Surface Disturbance | _____ | _____ | |
| C Surface Evaporation Losses | _____ | _____ | |
| D Scheduling Control | _____ | _____ | |
| Rating Value = (A x B x C x D) | = (A) _____ x (B) _____ x (C) _____ x (D) _____ | = | |

Support Documentation for Data Entries

A Irrigation System Type

| | Initial Rating |
|---|----------------|
| Surface Irrigation - Basic (Earthen conveyance ditch and siphon tubes or cutouts) | 50 |
| Surface Irrigation - Basic (Earthen conveyance ditch, siphon tubes or cutouts, land leveled) | 60 |
| Surface Irrigation - Basic (Earthen conveyance ditch, gated pipe, land leveled, tailwater reuse) | 70 |
| Surface Irrigation - Improved (Delivery pipeline, gated pipe) | 70 |
| Surface Irrigation - Improved (Delivery pipeline, gated pipe, land leveled) | 75 |
| Surface Irrigation - Improved (Tailwater reuse, land leveled, delivery pipeline, gated pipe) | 80 |
| Center Pivot ^{1/2/} and Linear Move - Sprinklers on top of pipe | 80 |
| Center Pivot ^{1/2/} and Linear Move - Nozzles below lateral but > 6 ft height above ground | 85 |
| Center Pivot ^{1/2/} and Linear Move - Nozzles near ground (in canopy) | 87 |
| Center Pivot and Linear Move - Low Energy Precision Application (LEPA) | 92 |
| Sprinkler - Solid Set | 75 |
| Sprinkler Irrigation - Traveling Gun | 70 |
| Sprinkler Irrigation - Side Roll | 70 |
| Subsurface Drip Irrigation (SDI) | 92 |

^{1/} When the center pivot system includes an end gun, reduce the system rating by 5.

^{2/} When the center pivot system includes a corner system (trailer section), reduce the system rating by 3.

B Soil Surface Disturbance

| | Modifier |
|---|----------|
| Disturbed Soil Surface (multiple tillage operations: < 30% crop residue) | 0.83 |
| Limited Soil Surface Disturbance (minimum till, conservation till, mulch till: >= 30% crop residue) | 0.93 |
| Undisturbed Soil Surface (strip till, no till, direct seed) | 1.00 |

C Surface Evaporation Losses

| | Modifier |
|---|----------|
| All Surfaces Wetted - Depth of Application < 0.5 inch | 0.70 |
| All Surfaces Wetted - Depth of Application > 0.51 to 1.1 inches | 0.80 |
| All Surfaces Wetted - Depth of Application > 1.1 inches | 0.90 |
| Soil Wetting Confined to Furrows | 0.96 |
| No Surface Wetting | 1.00 |

D Scheduling Control

| | Modifier |
|---|----------|
| Limited (Large application depths - furrow flow - deep percolation) | 0.80 |
| Fair (Generally heavy application depths - more water than root zone can hold or no scheduling) | 0.90 |
| Good (Application depths matched to evapotranspiration (ET) and/or soil conditions) | 0.96 |
| Precise (Application depth matched to transpiration [T]) | 0.98 |