

Conservation Security Program Irrigation System Index

| Irrigation System Type | |
|---|----|
| Border | |
| <input type="checkbox"/> Graded Border | 80 |
| <input type="checkbox"/> Level or Basin | 90 |
| <input type="checkbox"/> Guide | 70 |
| <input type="checkbox"/> Contour Level Field Crop | 70 |
| <input type="checkbox"/> Contour Level Rice | 80 |
| <input type="checkbox"/> Contour Level Rice Side Inlets | 85 |
| <input type="checkbox"/> Border Ditch | 60 |
| Furrow | |
| <input type="checkbox"/> Level or Basin | 90 |
| <input type="checkbox"/> Graded Furrow | 75 |
| <input type="checkbox"/> Contour Furrow | 75 |
| <input type="checkbox"/> Corrugations | 75 |
| <input type="checkbox"/> Surge | 80 |
| Flood | |
| <input type="checkbox"/> Controlled | 60 |
| <input type="checkbox"/> Uncontrolled | 50 |
| <input type="checkbox"/> Contour Ditch | 60 |
| Sprinkler | |
| <input type="checkbox"/> Big Gun or Boom | 60 |
| <input type="checkbox"/> Hand Line or Wheel Line | 70 |
| <input type="checkbox"/> Solid Set (above canopy) | 75 |
| <input type="checkbox"/> Solid Set (below canopy) | 80 |
| Center Pivot | |
| <input type="checkbox"/> Center Pivot w/ dump valve watering 0-25% of field corners | 64 |
| <input type="checkbox"/> Center Pivot w/ dump valve watering 26%-50% of field corners | 60 |
| <input type="checkbox"/> Center Pivot w/ dump valve watering 51-75% of field corners | 56 |
| <input type="checkbox"/> Center Pivot w/ dump valve watering 75-100% of field corners | 52 |
| <input type="checkbox"/> Generic Center Pivot | 80 |
| <input type="checkbox"/> Low Pressure Improved | 83 |
| <input type="checkbox"/> LEPA | 92 |
| <input type="checkbox"/> LESA | 89 |
| <input type="checkbox"/> LPIC | 87 |
| <input type="checkbox"/> MESA | 85 |
| <input type="checkbox"/> Variable Rate Irrigation (VRI) | 87 |
| Lateral Move | |
| <input type="checkbox"/> Generic | 82 |
| <input type="checkbox"/> LEPA, LESA, LPIC, MESA | 87 |

| Micro | |
|---|----|
| <input type="checkbox"/> Point Source | 90 |
| <input type="checkbox"/> Sprays | 85 |
| <input type="checkbox"/> Continuous Tape | 90 |
| <input type="checkbox"/> Subsurface Drip irrigation | 92 |
| Subirrigation | |
| <input type="checkbox"/> Subirrigated | 75 |

| Method of Measuring Flow | |
|--|------|
| <input type="checkbox"/> No Flow Measuring device | 0.90 |
| Flow Measurement Used | |
| <input type="checkbox"/> whole farm-manually recorded | 0.93 |
| <input type="checkbox"/> whole farm-automatic recorded | 0.95 |
| <input type="checkbox"/> whole farm plus individual field manual | 0.97 |
| <input type="checkbox"/> whole farm plus individual field automatic recorded | 1.00 |

| Method of Scheduling Irrigation | |
|---|------|
| <input type="checkbox"/> Visual crop stress | 0.90 |
| <input type="checkbox"/> Soil moisture by NRCS feel method | 0.93 |
| <input type="checkbox"/> Check book scheduling, irrigation scheduler, etc | 0.96 |
| <input type="checkbox"/> Irrigation scheduling via pan evaporation or atmometer for field | 0.97 |
| <input type="checkbox"/> Irrigation scheduling via regional weather network | 0.98 |
| <input type="checkbox"/> Soil moisture using Gypsum blocks, moisture probe, etc | 0.99 |
| <input type="checkbox"/> Continuous measurement of soil moisture, water applied and ET | 1.00 |

| Ability to Control Water Distribution | |
|---|------|
| <input type="checkbox"/> Very poor diversion facilities. Little control of flow rate to farm | 0.90 |
| <input type="checkbox"/> Can control flow rates to farm, but the on-farm delivery system is such that it is very hard to deliver the desired flow to any given field. | 0.94 |
| <input type="checkbox"/> Flow rates to each field are adequately controlled. Flow rates to each set are difficult to control | 0.98 |
| <input type="checkbox"/> All flow rates to each set are adequately controlled | 1.00 |

Soil Condition Index (SCI)

Note: The SCI multiplier will be determined by NRCS personnel when the completed worksheet is brought into the USDA Service Center. The SCI value must be 0 or greater to be eligible for the CSP Program. The multiplier will be a value within the range of 0.9 to 1.0 depending on the computed SCI. A value of 0.9 is suggested for initial assessments.

Precision of Land Slope

| | |
|---|------|
| <input type="checkbox"/> Land smoothed | 0.90 |
| <input type="checkbox"/> Land leveled | 0.94 |
| <input type="checkbox"/> Land precision leveled | 0.98 |
| <input type="checkbox"/> Land precision leveled - slope <= .005 | 1.00 |
| <input type="checkbox"/> A sprinkler system is utilized | 1.00 |

Tail water Capture and Reuse

| | |
|---|------|
| <input type="checkbox"/> No Tail water or Tail water not captured | 1.00 |
|---|------|

Tail water Captured

| | |
|--|------|
| <input type="checkbox"/> Irrigation System Type less than or equal to 60 | 1.25 |
| <input type="checkbox"/> Irrigation System Type between 61 and 80 | 1.15 |
| <input type="checkbox"/> Irrigation System Type greater than 80 | 1.10 |

Water Conveyance

| | |
|--|------|
| <input type="checkbox"/> Open ditch or canal - sand/gravel | 0.90 |
| <input type="checkbox"/> Open ditch or canal - sandy loam | 0.93 |
| <input type="checkbox"/> Open ditch or canal - clay soil | 0.96 |
| <input type="checkbox"/> Open canal – lined | 0.98 |
| <input type="checkbox"/> Closed conduit pipeline | 1.00 |

To Calculate Your Irrigation Index Value, MULTIPLY Each of the Values Found for Your Irrigation System

| Example in Italics | Example | Your System |
|--|-------------|-------------|
| System type <i>Graded Furrow</i> | 75 | |
| Measurement Method <i>Whole Farm- manually recorded</i> | 0.93 | |
| Scheduling Method <i>Soil Moisture by NRCS feel method</i> | 0.93 | |
| Water Control <i>Flow rates are adequately controlled.</i> | 0.98 | |
| SCI Index To be provided by your NRCS Field Office | 0.90 | |
| Water Conveyance <i>Open Channel - Lined</i> | 0.98 | |
| Land Slope <i>Land Leveled</i> | 0.94 | |
| Tail water Capture and Reuse <i>Tail water not Captured</i> | 1.00 | |
| Irrigation Index <i>75x0.93x0.93x0.98x0.90x0.98x0.94x1.0 = 52.7</i> | 52.7 | |