

AGRICULTURAL
FIELD
SCALE
IRRIGATION
REQUIREMENTS
SIMULATION
MODEL

AFSIRS MODEL: INTERACTIVE VERSION 6.2

THIS MODEL SIMULATES IRRIGATION REQUIREMENTS
FOR FLORIDA CROPS, SOILS, AND CLIMATE CONDITIONS.
PROBABILITIES OF OCCURRENCE OF IRRIGATION REQUIREMENTS
ARE CALCULATED USING HISTORICAL WEATHER DATA BASES
FOR NINE FLORIDA LOCATIONS.

INSTRUCTIONS FOR THE USE OF THIS MODEL ARE GIVEN
IN THE AFSIRS MODEL USER'S GUIDE.

DETAILS OF THE OPERATION OF THIS MODEL, ITS APPLICATIONS
AND LIMITATIONS ARE GIVEN IN THE AFSIRS MODEL TECHNICAL MANUAL.

AFSIRS MODEL: INTERACTIVE VERSION 6.2

THIS MODEL SIMULATES IRRIGATION REQUIREMENTS
FOR FLORIDA CROPS, SOILS, AND CLIMATE CONDITIONS.

Owner : **asdfasd**
Crop : **ALFALFA**
Harvest Date :

Site : **afasdfa**
Irrigation Method : **TRICKLE, DRIP**
Area (ACRES): **12.0**

Unit : **asdfasdf**
Planting Date :

Soil Series Name : **Candler**

| Details in Inches | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Mean Rainfall | 2.45 | 2.69 | 3.48 | 2.48 | 3.33 | 7.27 | 7.29 | 6.75 | 5.88 | 3.08 | 1.93 | 2.18 | 48.81 |
| Mean Evaporation | 3.09 | 3.36 | 4.88 | 5.84 | 6.57 | 5.67 | 5.83 | 5.40 | 4.63 | 4.24 | 3.31 | 2.81 | 55.62 |
| Peak Evaporation | 3.64 | 4.03 | 5.74 | 6.79 | 7.77 | 6.75 | 6.68 | 6.44 | 5.72 | 5.21 | 3.80 | 3.39 | - |

| Details in Inches | | | | | | | | | | | | | |
|-------------------|-------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Avg Irr Req | -1.00 | 0.00 | 0.70 | 1.47 | 2.13 | 0.18 | 0.00 | 0.00 | -1.00 | 0.36 | 0.50 | 0.00 | 3.35 |
| 2-in-10 Irr Req | -1.00 | 0.59 | 1.65 | 2.65 | 3.34 | 1.00 | 0.32 | 0.13 | -1.00 | 0.87 | 0.84 | 0.54 | 9.93 |
| 1-in-10 Irr Req | -1.00 | 0.94 | 2.25 | 3.37 | 4.04 | 1.58 | 0.62 | 0.44 | -1.00 | 1.14 | 1.00 | 0.76 | 14.12 |

| Details in Million Gallons | | | | | | | | | | | | | |
|----------------------------|-------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Avg Irr Req | -1.00 | 0.00 | 0.23 | 0.48 | 0.69 | 0.06 | 0.00 | 0.00 | -1.00 | 0.12 | 0.16 | 0.00 | -0.26 |
| 2-in-10 Irr Req | -1.00 | 0.19 | 0.54 | 0.86 | 1.09 | 0.33 | 0.10 | 0.04 | -1.00 | 0.28 | 0.27 | 0.18 | 1.89 |
| 1-in-10 Irr Req | -1.00 | 0.31 | 0.73 | 1.10 | 1.32 | 0.51 | 0.20 | 0.14 | -1.00 | 0.37 | 0.32 | 0.25 | 3.25 |

Soil Series Name : **Astatula**

| Details in Inches | | | | | | | | | | | | | |
|-------------------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Mean Rainfall | 4.89 | 5.38 | 6.96 | 4.97 | 6.67 | 14.55 | 14.58 | 13.50 | 11.75 | 6.16 | 3.86 | 4.35 | 97.62 |
| Mean Evaporation | 6.18 | 6.71 | 9.76 | 11.69 | 13.13 | 11.34 | 11.65 | 10.80 | 9.26 | 8.47 | 6.62 | 5.62 | 111.23 |
| Peak Evaporation | 3.64 | 4.03 | 5.74 | 6.79 | 7.77 | 6.75 | 6.68 | 6.44 | 5.72 | 5.21 | 3.80 | 3.39 | - |

| Details in Inches | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Avg Irr Req | 0.07 | 0.28 | 0.87 | 1.77 | 2.25 | 0.39 | 0.08 | 0.00 | 0.00 | 0.48 | 0.59 | 0.27 | 7.05 |
| 2-in-10 Irr Req | 0.48 | 0.74 | 1.93 | 2.72 | 3.49 | 1.23 | 0.54 | 0.37 | 0.40 | 0.98 | 0.96 | 0.59 | 14.43 |
| 1-in-10 Irr Req | 0.69 | 1.02 | 2.65 | 3.26 | 4.21 | 1.86 | 0.86 | 0.65 | 0.61 | 1.28 | 1.16 | 0.76 | 18.99 |

| Details in Million Gallons | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Avg Irr Req | 0.02 | 0.09 | 0.28 | 0.58 | 0.73 | 0.13 | 0.03 | 0.00 | 0.00 | 0.16 | 0.19 | 0.09 | 2.30 |
| 2-in-10 Irr Req | 0.16 | 0.24 | 0.63 | 0.88 | 1.14 | 0.40 | 0.18 | 0.12 | 0.13 | 0.32 | 0.31 | 0.19 | 4.70 |
| 1-in-10 Irr Req | 0.23 | 0.33 | 0.86 | 1.06 | 1.37 | 0.60 | 0.28 | 0.21 | 0.20 | 0.42 | 0.38 | 0.25 | 6.19 |

Soil Series Name : **Candler**

| Details in Inches | | | | | | | | | | | | | |
|-------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Mean Rainfall | 7.34 | 8.07 | 10.44 | 7.45 | 10.01 | 21.82 | 21.87 | 20.25 | 17.63 | 9.24 | 5.78 | 6.53 | 146.43 |
| Mean Evaporation | 9.27 | 10.07 | 14.64 | 17.53 | 19.70 | 17.01 | 17.48 | 16.20 | 13.89 | 12.71 | 9.93 | 8.43 | 166.85 |
| Peak Evaporation | 3.64 | 4.03 | 5.74 | 6.79 | 7.77 | 6.75 | 6.68 | 6.44 | 5.72 | 5.21 | 3.80 | 3.39 | - |

| Details in Inches | | | | | | | | | | | | | |
|-------------------|-------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Avg Irr Req | -1.00 | 0.00 | 0.70 | 1.47 | 2.13 | 0.18 | 0.00 | 0.00 | -1.00 | 0.36 | 0.50 | 0.00 | 3.35 |
| 2-in-10 Irr Req | -1.00 | 0.59 | 1.65 | 2.65 | 3.34 | 1.00 | 0.32 | 0.13 | -1.00 | 0.87 | 0.84 | 0.54 | 9.93 |
| 1-in-10 Irr Req | -1.00 | 0.94 | 2.25 | 3.37 | 4.04 | 1.58 | 0.62 | 0.44 | -1.00 | 1.14 | 1.00 | 0.76 | 14.12 |

| Details in Million Gallons | | | | | | | | | | | | | |
|----------------------------|-------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Avg Irr Req | -1.00 | 0.00 | 0.23 | 0.48 | 0.69 | 0.06 | 0.00 | 0.00 | -1.00 | 0.12 | 0.16 | 0.00 | -0.26 |
| 2-in-10 Irr Req | -1.00 | 0.19 | 0.54 | 0.86 | 1.09 | 0.33 | 0.10 | 0.04 | -1.00 | 0.28 | 0.27 | 0.18 | 1.89 |
| 1-in-10 Irr Req | -1.00 | 0.31 | 0.73 | 1.10 | 1.32 | 0.51 | 0.20 | 0.14 | -1.00 | 0.37 | 0.32 | 0.25 | 3.25 |