

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 : **Test3**
Crop : **ALFALFA**
Harvest Date :

Site : **Test2**
Irrigation Method : **TRICKLE, DRIP**
Area (ACRES): **23.0**

Unit : **Test2**
Planting Date :

Soil Series Name : **Otela**

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	0.00	0.00	0.67	1.45	1.94	0.00	0.00	0.00	-1.00	0.32	0.47	-1.00	2.84
2-in-10 Irr Req	0.67	0.45	1.62	2.51	3.10	0.77	0.35	0.06	-1.00	0.83	0.79	-1.00	9.16
1-in-10 Irr Req	0.69	0.71	2.23	3.14	3.77	1.38	0.63	0.35	-1.00	1.09	0.93	-1.00	12.92

Details in Million Gallons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	0.42	0.90	1.21	0.00	0.00	0.00	-1.00	0.20	0.29	-1.00	1.02
2-in-10 Irr Req	0.42	0.28	1.01	1.57	1.94	0.48	0.22	0.04	-1.00	0.52	0.49	-1.00	4.97
1-in-10 Irr Req	0.43	0.45	1.39	1.96	2.35	0.86	0.39	0.22	-1.00	0.68	0.58	-1.00	7.32

Soil Series Name : **Terra Ceia**

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	0.00	0.00	0.00	0.60	1.50	0.00	0.00	0.00	-1.00	0.00	0.00	0.00	1.10
2-in-10 Irr Req	0.00	0.00	0.92	2.05	2.76	0.44	0.00	0.00	-1.00	0.00	1.72	0.00	6.90
1-in-10 Irr Req	1.73	0.00	1.57	2.74	3.41	1.18	1.46	0.00	-1.00	0.00	1.77	1.57	14.42

Details in Million Gallons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	0.00	0.37	0.94	0.00	0.00	0.00	-1.00	0.00	0.00	0.00	0.31
2-in-10 Irr Req	0.00	0.00	0.58	1.28	1.72	0.28	0.00	0.00	-1.00	0.00	1.08	0.00	3.93
1-in-10 Irr Req	1.08	0.00	0.98	1.71	2.13	0.73	0.91	0.00	-1.00	0.00	1.11	0.98	8.63

Soil Series Name : **Terra Ceia**

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	0.00	0.00	0.71	1.53	2.17	0.07	0.00	0.00	0.00	0.40	0.54	0.00	5.43
2-in-10 Irr Req	0.47	0.59	1.65	2.66	3.38	0.87	0.32	0.16	0.17	0.86	0.85	0.53	12.50
1-in-10 Irr Req	0.65	0.91	2.23	3.33	4.08	1.48	0.63	0.48	0.44	1.09	0.99	0.75	17.05

Details in Million Gallons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	0.45	0.96	1.36	0.05	0.00	0.00	0.00	0.25	0.34	0.00	3.39
2-in-10 Irr Req	0.29	0.37	1.03	1.66	2.11	0.54	0.20	0.10	0.10	0.54	0.53	0.33	7.81
1-in-10 Irr Req	0.41	0.57	1.39	2.08	2.55	0.92	0.39	0.30	0.28	0.68	0.62	0.47	10.65

Soil Series Name : **Terra Ceia**

Details in Inches													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Mean Rainfall	9.79	10.76	13.92	9.94	13.34	29.09	29.15	27.00	23.51	12.33	7.71	8.71	195.24
Mean Evaporation	12.36	13.43	19.52	23.37	26.26	22.68	23.30	21.61	18.52	16.94	13.23	11.24	222.46
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	0.00	0.00	0.00	0.55	1.57	-1.00	0.00	0.00	-1.00	0.00	0.00	0.00	0.12
2-in-10 Irr Req	0.00	0.00	0.85	2.02	2.64	-1.00	0.00	0.00	-1.00	0.00	1.73	0.00	5.24
1-in-10 Irr Req	1.73	0.00	1.56	2.74	3.18	-1.00	1.52	0.00	-1.00	0.00	1.77	1.68	12.19

Details in Million Gallons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	0.00	0.34	0.98	-1.00	0.00	0.00	-1.00	0.00	0.00	0.00	-0.67
2-in-10 Irr Req	0.00	0.00	0.53	1.26	1.65	-1.00	0.00	0.00	-1.00	0.00	1.08	0.00	2.52
1-in-10 Irr Req	1.08	0.00	0.98	1.71	1.99	-1.00	0.95	0.00	-1.00	0.00	1.11	1.05	6.86

Soil Series Name : **Otela**

Details in Inches													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Mean Rainfall	12.24	13.45	17.40	12.42	16.67	36.37	36.44	33.75	29.38	15.41	9.64	10.89	244.06
Mean Evaporation	15.45	16.79	24.40	29.22	32.83	28.35	29.13	27.01	23.15	21.18	16.54	14.05	278.08
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	0.00	0.00	0.00	0.63	1.48	-1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11
2-in-10 Irr Req	0.00	0.00	0.84	2.07	2.71	-1.00	0.00	0.00	0.00	0.00	1.77	0.00	6.38
1-in-10 Irr Req	0.00	0.00	1.53	2.74	3.33	-1.00	0.00	1.51	0.00	0.00	1.82	1.76	11.70

Details in Million Gallons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	0.00	0.39	0.92	-1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
2-in-10 Irr Req	0.00	0.00	0.52	1.29	1.69	-1.00	0.00	0.00	0.00	0.00	1.10	0.00	3.61
1-in-10 Irr Req	0.00	0.00	0.96	1.71	2.08	-1.00	0.00	0.95	0.00	0.00	1.14	1.10	6.93

Soil Series Name : **Ortega**

Details in Inches													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Mean Rainfall	14.68	16.14	20.88	14.91	20.01	43.64	43.73	40.50	35.26	18.49	11.57	13.06	292.87
Mean Evaporation	18.54	20.14	29.28	35.06	39.39	34.02	34.95	32.41	27.77	25.41	19.85	16.86	333.70
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	0.63	1.39	2.08	0.10	0.00	0.00	-1.00	0.00	0.53	-1.00	1.72
2-in-10 Irr Req	-1.00	0.54	1.62	2.53	3.21	0.92	0.34	0.17	-1.00	0.66	0.86	-1.00	7.85
1-in-10 Irr Req	-1.00	0.83	2.26	3.22	3.85	1.51	0.68	0.48	-1.00	0.96	1.00	-1.00	11.79

Details in Million Gallons													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	-1.00	0.00	0.39	0.87	1.30	0.06	0.00	0.00	-1.00	0.00	0.33	-1.00	-0.05
2-in-10 Irr Req	-1.00	0.34	1.01	1.58	2.00	0.58	0.21	0.11	-1.00	0.41	0.54	-1.00	3.78
1-in-10 Irr Req	-1.00	0.52	1.41	2.01	2.41	0.94	0.43	0.30	-1.00	0.60	0.62	-1.00	6.24