**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: TestSite55
 Site: TestSite55
 Unit: TestSite55

 Crop: BARLEY
 Irrigation Method: TRICKLE, DRIP
 Planting Date:

Harvest Date : Area (ACRES): 300.0

	Details in Inches												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Mean Rainfall	0.00	2.14	3.48	2.48	3.33	1.45	0.00	0.00	0.00	0.00	0.00	0.00	12.89
Mean ET	0.00	2.81	4.88	5.84	6.57	1.16	0.00	0.00	0.00	0.00	0.00	0.00	21.26
Peak ET	0.00	4.03	5.74	6.79	7.77	6.75	0.00	0.00	0.00	0.00	0.00	0.00	31.08

				Irriga	tion Wei	ghted Av	erage (Ir	nches)						
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total													
Avg Irr Req	0.00	0.10	1.26	3.21	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.38	
2-In-10 Irr Req	0.00	0.31	2.42	4.66	4.16	0.14	0.00	0.00	0.00	0.00	0.00	0.00	11.69	
1-In-10 Irr Req	0.00	0.43	3.12	5.46	4.90	0.26	0.00	0.00	0.00	0.00	0.00	0.00	14.17	

				Irrigat	ion Weig	hted Ave	erage (G	allons)						
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total													
Avg Irr Req	0.00	0.81	10.29	26.13	22.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.11	
2-In-10 Irr Req	0.00	2.55	19.67	37.95	33.87	1.15	0.00	0.00	0.00	0.00	0.00	0.00	95.20	
1-In-10 Irr Req	0.00	3.51	25.41	44.46	39.96	2.15	0.00	0.00	0.00	0.00	0.00	0.00	115.47	

Soil Series Name : Candler Soil Map Unit Code : 658913 Soil Component Code : 2996647

Soil Percentage: 0.27

					Det	ails in In	ches						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.18	1.73	3.75	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.84
2-in-10 Irr Req	0.00	0.44	3.01	5.20	4.51	0.30	0.00	0.00	0.00	0.00	0.00	0.00	13.45
1-in-10 Irr Req	0.00	0.61	3.79	5.97	5.22	0.36	0.00	0.00	0.00	0.00	0.00	0.00	15.95
					Details	in Million	Gallons						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	1.45	14.07	30.57	25.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.05
2-in-10 Irr Req	0.00	3.57	24.53	42.36	36.70	2.42	0.00	0.00	0.00	0.00	0.00	0.00	109.57
1-in-10 Irr Req	0.00	4.95	30.91	48.66	42.52	2.92	0.00	0.00	0.00	0.00	0.00	0.00	129.96

Soil Series Name : Candler Soil Map Unit Code : 658913 Soil Component Code : 2983694

Soil Perce	entage :	0.20											
Details in Inches     Details in Inches     Details in Inches													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	0.33	2.03	1.91	-99.00	0.00	0.00	0.00	0.00	0.00	0.00	4.26
2-in-10 Irr Req	0.00	0.00	1.27	3.40	3.32	-99.00	0.00	0.00	0.00	0.00	0.00	0.00	7.99
1-in-10 Irr Req	0.00	0.00	1.81	4.19	4.13	-99.00	0.00	0.00	0.00	0.00	0.00	0.00	10.14
					Details	in Million	Gallons						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	2.69	16.50	15.55	-99.00	0.00	0.00	0.00	0.00	0.00	0.00	34.74
2-in-10 Irr Req	0.00	0.00	10.32	27.72	27.07	-99.00	0.00	0.00	0.00	0.00	0.00	0.00	65.12
1-in-10 Irr Req	0.00	0.00	14.78	34.14	33.65	-99.00	0.00	0.00	0.00	0.00	0.00	0.00	82.58

Soil Series Name : **Astatula** Soil Map Unit Code : **658913** Soil Component Code : **3035507** 

Soil Percentage: 0.19

	-in-10 lrr Reg 0.00 0.63 3.74 5.99 5.14 0.30 0.00 0.00 0.00 0.00 0.00 0.00 15.80  Details in Million Gallons												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.19	1.67	3.74	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.77
2-in-10 Irr Req	0.00	0.46	2.95	5.20	4.45	0.19	0.00	0.00	0.00	0.00	0.00	0.00	13.25
1-in-10 Irr Req	0.00	0.63	3.74	5.99	5.14	0.30	0.00	0.00	0.00	0.00	0.00	0.00	15.80
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	1.55	13.58	30.46	25.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.44
2-in-10 Irr Req	0.00	3.72	24.01	42.39	36.28	1.52	0.00	0.00	0.00	0.00	0.00	0.00	107.91
1-in-10 Irr Req	0.00	5.16	30.43	48.78	41.90	2.47	0.00	0.00	0.00	0.00	0.00	0.00	128.74

Soil Series Name : Arredondo Soil Map Unit Code : 658913 Soil Component Code : 3003124

Soil Percentage: 0.16

					Det	ails in In	ches								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total		
Avg Irr Req	0.00	0.00	1.24	3.31	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.55		
2-in-10 Irr Req	0.00	.00 0.25 2.43 4.95 4.37 0.00 0.00 0.00 0.00 0.00 0.00 0.00 12.01													
1-in-10 Irr Req	0.00														
	0.00 0.36 3.19 5.88 5.14 0.50 0.00 0.00 0.00 0.00 0.00 0.00 Details in Million Gallons														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total		
Avg Irr Req	0.00	0.00	10.13	26.98	24.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.51		
2-in-10 Irr Req	0.00	2.02	19.82	40.36	35.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.82		
1-in-10 Irr Req	0.00	2.94	26.01	47.90	41.83	4.04	0.00	0.00	0.00	0.00	0.00	0.00	122.72		

Soil Series Name : Floridana Soil Map Unit Code : 658913 Soil Component Code : 3048460

Soil Percentage: 0.09

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Avg Irr Req         0.00         0.00         0.74         2.44         2.27         0.00													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	0.74	2.44	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.44
2-in-10 Irr Req	0.00	0.33	1.52	3.73	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.27
1-in-10 Irr Req	0.00	0.39	2.00	4.46	4.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.37
	Jan         Feb         Mar         Apr         May         Jun         Jul         Aug         Sep         Oct         Nov         Dec           0.00												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Avg Irr Req	0.00	0.00	6.00	19.88	18.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.35
2-in-10 Irr Req	0.00	2.71	12.41	30.36	30.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.53
1-in-10 Irr Req	0.00	3.18	16.28	36.35	36.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.59

Soil Series Name : Candler Soil Map Unit Code : 658913 Soil Component Code : 2977217

Soil Percentage: 0.09

					Det	ails in In	ches								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total		
Avg Irr Req	0.00	0.18	1.73	3.75	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.84		
2-in-10 Irr Req	0.00	.00 0.44 3.01 5.20 4.51 0.30 0.00 0.00 0.00 0.00 0.00 0.00 13.45													
1-in-10 Irr Req	0.00														
					Details	in Million	Gallons								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total		
Avg Irr Req	0.00	1.45	14.07	30.57	25.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.05		
2-in-10 Irr Req	0.00	3.57	24.53	42.36	36.70	2.42	0.00	0.00	0.00	0.00	0.00	0.00	109.57		
1-in-10 Irr Req	0.00	4.95	30.91	48.66	42.52	2.92	0.00	0.00	0.00	0.00	0.00	0.00	129.96		