

# Modified Blaney-Criddle for Excel

**This allocation program which calculates a maximum monthly supplemental crop requirement and an average annual supplemental requirement using the Modified Blaney-Criddle method.**

**The District assumes no responsibility to the user for the accuracy of this program. The District advises the user that additional information is available in the Basis of Review Volume III. There may be discrepancies between the result obtained by the user(s) and those results obtained by the District.**

**This program was updated on September, 2000**

Worksheet Developed by Jeffery Scott

Questions Concerning the Worksheet:  
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## Calculations Of Irrigation Requirements (1-in-10)

**Rainfall Station:** Miami  
**Irrigation System:** Sprinkler  
**Irrigated Acreage:** 1.00  
**Crop:** Turf Grass  
**Soil Type:** 0.80  
**Multiplier:** 1.33  
**Efficiency:** 0.75

Calculations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Average Rainfall (inches)	2.02	2.06	2.08	3.13	6.35	7.84	5.44	6.29	8.30	8.38	2.80	2.05	56.74
Evapotranspiration (inches)	2.11	2.42	4.06	5.43	6.95	7.57	8.05	7.70	6.50	5.16	3.43	2.45	61.83
Average Effective Rainfall (inches)	0.95	0.98	1.09	1.69	3.39	4.20	3.16	3.51	4.15	3.89	1.37	0.98	29.36
1-in-10 Effective Rainfall (inches)	0.67	1.02	0.15	0.74	2.06	2.58	2.70	3.03	3.55	3.21	1.06	0.79	21.56
Average Irrigation (inches)	1.16	1.44	2.97	3.74	3.56	3.37	4.89	4.19	2.35	1.27	2.06	1.47	32.47
1-in-10 Irrigation (inches)	1.44	1.40	3.91	4.69	4.89	4.99	5.35	4.67	2.95	1.95	2.37	1.66	40.27

**1-in-10 Annual Supplemental Crop Requirement = 40.27 inches**

**Annual Supplemental Crop Water Use:**

$$40.27 \text{ inches} \times 1 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 1.45 \text{ MG}$$

**1-in-10 Maximum Monthly Supplemental Crop Requirement = 5.35 inches**

**Maximum Monthly Supplemental Crop Water Use:**

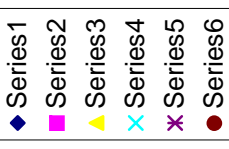
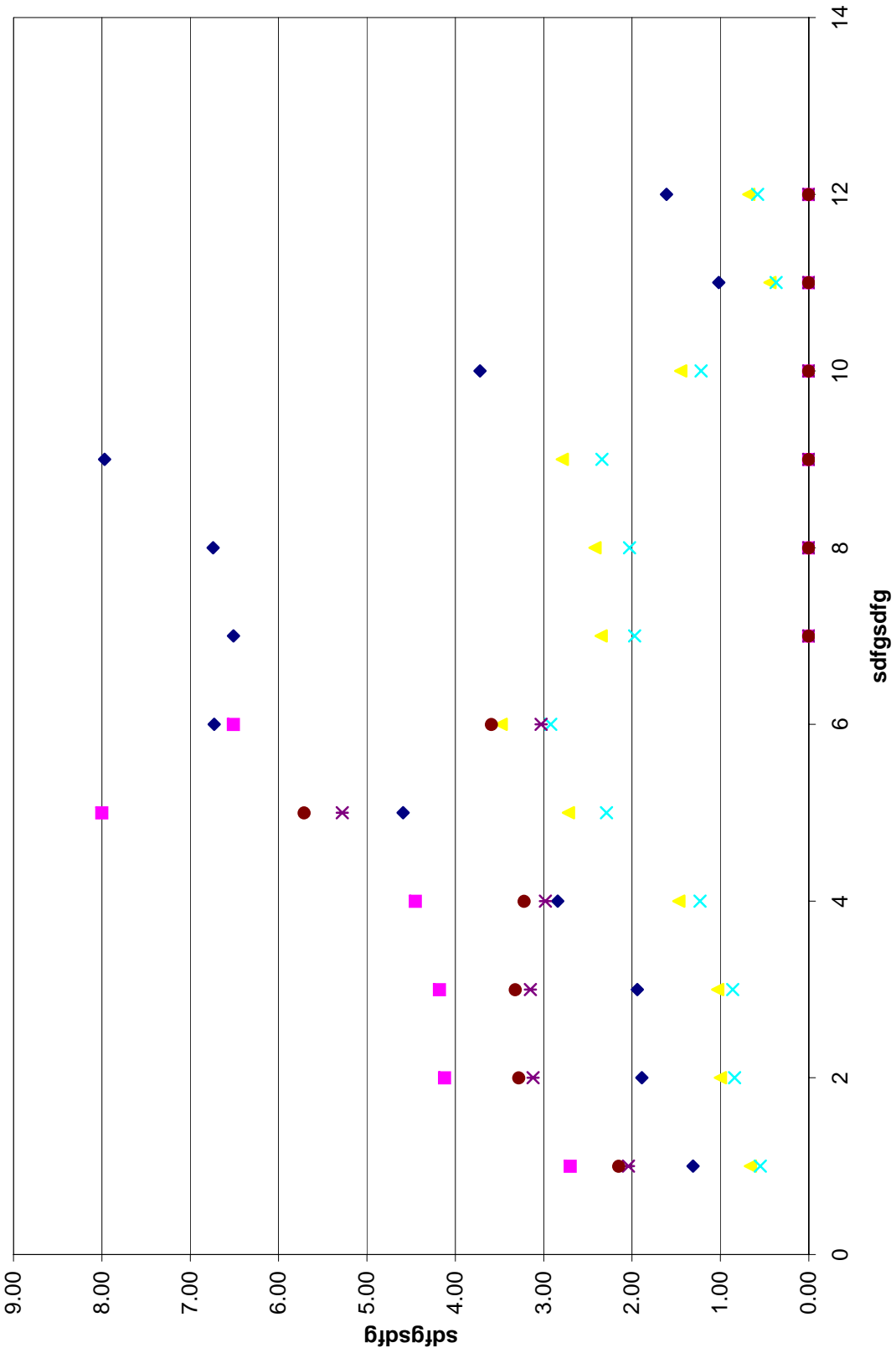
$$5.35 \text{ inches} \times 1 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 0.19 \text{ MG}$$

**Notes:**

- Evapotranspiration was calculated using a modified Blaney-Criddle method.
- Average effective rainfall is the amount that is useful to crops in an average year.
- 2-in-10 drought rainfall is the rainfall minimum expected with a probability of 2 year in 10.
- 2-in-10 effective rainfall is the amount that is useful to crops in a 2-in-10 drought rainfall.
- Average irrigation is the net amount that should be required for maximum yields during an average year.
- 2-in-10 irrigation is the net amount that should be required for maximum yields during a 2-in-10 drought year.



sdfgsd



# Data Input

	<input type="radio"/>	<input type="radio"/>
Enter "X" for 1-in-10 calculations >>>	2-in-10	1-in-10
Otherwise, 2-in-10 values will be calculated		X

Enter Station Number>>> 24

<input type="radio"/> 1 Archbold	<input type="radio"/> 21 Loxahatchee
<input type="radio"/> 2 Avon Park	<input type="radio"/> 22 Melbourne (No Data)
<input type="radio"/> 3 Belle Glade	<input type="radio"/> 23 Merritt Island (No Data)
<input type="radio"/> 4 Big Cypress (No Data)	<input checked="" type="radio"/> 24 Miami
<input type="radio"/> 5 Clewiston	<input type="radio"/> 25 Moore Haven
<input type="radio"/> 6 Everglades	<input type="radio"/> 26 Naples
<input type="radio"/> 7 Fellsmere (No Data)	<input type="radio"/> 27 Okeechobee
<input type="radio"/> 8 Fort Drum	<input type="radio"/> 28 Orlando
<input type="radio"/> 9 Ft. Lauderdale	<input type="radio"/> 29 Pompano Beach
<input type="radio"/> 10 Ft. Myers	<input type="radio"/> 30 Punta Gorda
<input type="radio"/> 11 Ft. Pierce	<input type="radio"/> 31 Stuart
<input type="radio"/> 12 Hialeah	<input type="radio"/> 32 S-65
<input type="radio"/> 13 Homestead	<input type="radio"/> 33 S 140 W
<input type="radio"/> 14 Hypoluxo	<input type="radio"/> 34 Tamiami 4
<input type="radio"/> 15 Immokalee	<input type="radio"/> 35 Titusville (No Data)
<input type="radio"/> 16 Indiantown (No Data)	<input type="radio"/> 36 Vero Beach (No Data)
<input type="radio"/> 17 Jupiter	<input type="radio"/> 37 West Palm Beach
<input type="radio"/> 18 Kissimmee	
<input type="radio"/> 19 La Belle	
<input type="radio"/> 20 Lake Placid (No Data)	

Enter Crop Type>>> 15

Perennial		Annual	
<input type="radio"/> 5 Nursery	<input type="radio"/> 25 Palm Trees	<input type="radio"/> 51 Dry Beans	
<input type="radio"/> 10 Sugarcane		<input type="radio"/> 52 Green Bean	
<input type="radio"/> 11 Alfalfa		<input type="radio"/> 53 Grain Corn	
<input type="radio"/> 12 Avocado		<input type="radio"/> 54 Silage Corn	
<input type="radio"/> 13 Citrus		<input type="radio"/> 55 Sweet Corn	
<input type="radio"/> 14 Grapes		<input type="radio"/> 56 Melons	
<input type="radio"/> 15 Turf Grass		<input type="radio"/> 57 Peas	
<input type="radio"/> 18 Blueberries		<input type="radio"/> 58 Potato	
<input type="radio"/> 20 Pasture		<input type="radio"/> 59 Soybeans	
<input type="radio"/> 21 Papaya		<input type="radio"/> 60 Tomato	
<input type="radio"/> 22 Carambola		<input type="radio"/> 61 Small Vegetables	
<input type="radio"/> 23 Tropical Fruit		<input type="radio"/> 62 Winter Wheat	
<input type="radio"/> 24 Mangoes			

Enter for "Annual Crops"  
Enter "X" for each month the crop is being planted>>>

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Enter for "Annual Crops"  
Growing Season Length>>> 6

	Growing Season Length in Months					
	2	3	4	5	6	
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Enter Soil Type>>> 0.8

	Soil Types				
	0.2	0.4	0.8	1.5	3.6
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Enter Irrigation System No.>>> 07

	Micro-Irrigation		Overhead Sprinkler		Subirrigation	
<input type="radio"/> 01	Micro-sprinkler	<input type="radio"/> 07	Sprinkler	<input type="radio"/> 03	Seepage/Furrow	
<input type="radio"/> 02	Overhead Drip	<input type="radio"/> 08	Portable Gun	<input type="radio"/> 04	semi-Closed Flow-Through	
<input type="radio"/> 11	Nursery Container	<input type="radio"/> 09	Traveling Gun	<input type="radio"/> 05	Crown Flooding	
<input type="radio"/> 12	semi-Closed Flow-Through	<input type="radio"/> 10	Overhead	<input type="radio"/> 06	Sub-irrigation	
<input type="radio"/> 13	Low Volume	<input type="radio"/> 92	Volume Gun	<input type="radio"/> 14	Surface Gravity	
<input type="radio"/> 90	Container	<input type="radio"/> 93	Walking Gun	<input type="radio"/> 18	Flood/Seepage	

Is there a SWM Permit? Enter Either Y or N

	Yes	No
N	<input type="radio"/>	<input type="radio"/>

Enter the Irrigated Acreage>>> 1.00



1-in-10 Data Input		Miami	
rain	Rainfall (inches)	Temp	sun
2.02	1.38	67.35	7.50
2.06	2.15	68.48	7.13
2.08	0.32	71.65	8.38
3.13	1.27	75.13	8.63
6.35	3.56	78.74	9.36
7.84	4.43	81.23	9.28
5.44	4.54	82.68	9.48
6.29	5.30	82.84	9.13
8.30	6.91	81.67	8.32
8.38	6.70	78.10	8.07
2.80	2.11	73.13	7.37
2.05	1.61	68.87	7.38

Soil

Turf Grass	coeff
0.49	
0.57	
0.73	
0.85	
0.90	
0.92	
0.92	
0.91	
0.87	
0.79	
0.67	
0.55	

Calculate et and effective average rain

(3)	(4)	(5)	(6)	(7) Ave.	(8)	(9)	(10) Ave.	(7) in-10	(10) in-10	1-
5.051250	0.851155	4.299397	2.106705	1.150367	1.124886	0.732892	0.948386	0.809209	0.667128	
4.882624	0.870704	4.251320	2.423252	1.170991	1.144954	0.732892	0.982611	1.217141	1.021337	
6.004270	0.925545	5.557222	4.056772	1.181277	1.254346	0.732892	1.085948	0.161718	0.148667	
6.483719	0.985749	6.391320	5.432622	1.700617	1.354551	0.732892	1.688270	0.748017	0.742586	
7.370064	1.048202	7.725316	6.952784	3.138041	1.474601	0.732892	3.391354	1.903891	2.057579	
7.538144	1.091279	8.226218	7.568121	3.755322	1.526169	0.732892	4.200392	2.302630	2.575531	
7.838064	1.116364	8.750132	8.050121	2.748628	1.567819	0.732892	3.158289	2.352010	2.702558	
7.563292	1.119132	8.464322	7.702533	3.112683	1.537671	0.732892	3.507828	2.687740	3.028940	
6.794944	1.098891	7.466903	6.496206	3.941559	1.437467	0.732892	4.152464	3.372746	3.553215	
6.302670	1.037130	6.536688	5.163984	3.973760	1.334376	0.732892	3.886152	3.285139	3.212713	
5.389681	0.951149	5.126390	3.434681	1.541278	1.211505	0.732892	1.368504	1.196673	1.062529	
5.082606	0.877451	4.459738	2.452856	1.165842	1.146849	0.732892	0.979909	0.934485	0.785450	

# PART B

## WATER USE MANAGEMENT SYSTEM

### DESIGN AND EVALUATION AIDS I. SUPPLEMENTAL CROP REQUIREMENT

AND

### WITHDRAWAL CALCULATION SUPPLEMENTAL CROP REQUIREMENT AND WITHDRAWAL CALCULATION

#### Introduction

An important aspect of successful crop production or landscape maintenance is ensuring that the vegetation receives sufficient moisture to meet its evapotranspiration demands. When rainfall is less than evapotranspiration, irrigation must be applied to meet the deficit. As part of its consumptive water use permitting program, the South Florida Water Management District issues permits for irrigation water use. The goal of the permitting program is to provide an allocation of irrigation water sufficient to meet the deficit between effective rainfall and evapotranspiration through a drought event that has a probability of occurring once in every ten years (1-in-10). That allocation is designed to meet both the needs of a prolonged drought of up to one year as well as to meet peak monthly demands.

The South Florida Water Management District uses a modified Blaney-Criddle equation to determine crop evapotranspiration and the method developed by the United States Department of Agriculture Soil Conservation Service to determine supplemental irrigation needs.

#### The Blaney-Criddle Equation

The Blaney-Criddle equation for estimating evapotranspiration is

$$(1) \quad U = \sum_{1}^n p t / 100$$

where:

- U = crop evapotranspiration for a given period,
- k = an annual seasonal, or monthly empirical consumptive use coefficient which varies according to the crop
- p = percent of daytime hours of the year which occur during the period,
- t = mean temperature for the period, in Fahrenheit, and
- m = month.

The equation has been modified to include:

$$(2) \quad k = k_t \times k_c$$

where:

- k<sub>t</sub> = a climatic coefficient which is related to the mean air



temperature, the value of which is expressed as

$$k_t = 0.0173t - 0.314$$

$k_c$  = a coefficient reflecting the growth stage of the crop (Table B-I-1)

### Calculation of Monthly Supplemental Crop Requirement and Allocation

The calculations to determine crop evapotranspiration are based on selected crop growth coefficients (Table B-I-1), rainfall, temperature and solar radiation for selected rainfall stations (Figures B-I-1 through B-I-15 and Table B-I-2) and net depth of application (Figures B-I-1 through B-I-15). In order to estimate monthly evapotranspiration, the District approximates equations (1) and (2) as follows:

$$(3) \quad f(m) = (t(m) \times p(m)) / 100$$

$$(4) \quad k_t(m) = (0.0173 \times t(m)) - 0.314$$

$$(5) \quad k_t f(m) = f(m) \times k_t(m)$$

$$(6) \quad U(m) = k_t f(m) \times k_c(m)$$

where:

$m$  = month of year

$f(m)$  = monthly evapotranspiration factor,

$t(m)$  = average monthly temperature (Table B-I-2),

$p(m)$  = monthly percentage of annual daylight hours (Table B-I-2),

$k_t(m)$  =  $k_t$ ,

$U(m)$  = monthly evapotranspiration, and

$k_c(m)$  = monthly crop growth coefficient (Table B-I-1).

The effective rainfall available for crop evapotranspiration is calculated as a function of the 1-in-10-year drought rainfall as:

$$(7) \quad R_{t1}(m) = (0.70917 \times (R_t(m))^{0.82416}) - 0.11556$$

$$(8) \quad U_I(m) = 10 (0.02426 \times U(m))$$

$$(9) \quad F_1 = 0.531747 + (0.295154 \times D) - (0.057697 \times D^2) + (0.003804 \times D^3)$$

$$(10) \quad R_e(m) = R_{t1}(m) \times U_I(m) \times F_1$$

where:

$R_{t1}(m)$  = monthly effective rainfall factor considering 1-in-10 monthly rainfall,

$R_t(m)$  = 1-in-10 monthly rainfall (Table B-I-2),

$U_I(m)$  = monthly effective rainfall factor considering monthly evapotranspiration,

$F_1$  = soil factor,

$D$  = net depth of application (see Figures B-I-1 through B-I-15), and

Re (m) = monthly effective rainfall.

### Calculation of Water Use Allocations

After the monthly evapotranspiration, U (m), and the monthly 1-in-10 effective rainfall, Re (m), have been determined, the monthly supplemental crop requirement, Sup (m), is calculated as:

$$(11) \quad \text{Sup (m)} = \text{U (m)} - \text{Re (m)}$$

for each month of the year for each of the perennial crops specified in the Water Use Application Crop Information Table (Table D), or each month during which a crop is planted for annual crops, as specified in Table D. The irrigation quantity needed to supply the supplemental crop requirement Sup (m) is determined by:

$$(12) \quad \text{Q (m)} = \text{Sup (m)} \times k_a \times A$$

where:

$k_a$  = allocation coefficient multiplier (BOR Section 2, Table 2-1) for the irrigation system specified in Table I

A = irrigated acreage for the crop.

The individual monthly supplemental irrigation requirements for each month for each of the crops specified in the Table D are summed to determine the annual allocation. The supplemental irrigation requirements for each of the crops specified in Table D are summed by month, and the largest of the monthly sums is the maximum monthly allocation.

### Additional Information:

Additional detail on this method may be found in "Irrigation Water Requirements," Technical Release no. 21, USDA, Soil Conservation Service, Engineering Division, 1970.

## 2-in-10

Archbold (No Data)

Avon Park

Belle Glade

Rain	Temp	Sun	Rain
2.17	63.46	7.42	1.88
2.71	64.71	7.08	1.87
2.60	68.12	8.37	2.89
2.89	72.82	8.67	3.08
4.43	77.45	9.44	4.46
8.74	80.76	9.37	9.48
8.31	81.93	9.56	7.86
7.54	82.37	9.16	8.18
7.23	80.81	8.32	8.76
3.88	75.64	8.03	5.35
1.65	68.67	7.30	2.02
1.74	64.25	7.29	1.70
71	0.86		44

## 1-in-10

Archbold

Avon Park

Belle Glade

Rain	1-in-10	Temp	Sun	Rain	1-in-10	Temp	Sun	Rain	1-in-10
1.91	1.13	60.61	7.43	2.24	1.63	61.74	7.42	2.20	1.94
2.20	1.83	61.97	7.09	2.51	1.73	63.41	7.08	1.89	1.62
3.11	0.55	66.39	8.38	2.82	0.56	67.61	8.37	3.02	0.59
2.33	1.32	70.40	8.66	2.52	1.31	72.20	8.67	2.85	1.30
4.27	3.34	75.65	9.42	4.12	3.03	77.06	9.44	4.85	3.39
7.80	5.55	79.37	9.35	8.27	6.23	80.63	9.37	8.65	6.35
6.94	5.66	80.42	9.54	8.03	6.55	81.90	9.56	7.81	6.39
7.15	6.18	80.94	9.15	7.50	6.45	82.00	9.16	7.95	7.08
6.80	5.43	79.60	8.32	7.15	5.79	80.47	8.32	7.98	6.66
3.24	2.83	74.37	8.04	3.59	3.65	74.97	8.03	4.34	3.65
1.63	1.62	68.40	7.31	1.71	1.60	68.17	7.3	2.22	1.82
1.64	1.10	62.65	7.31	1.76	1.27	63.29	7.29	1.72	1.70

Mean Rainfall	=	Rain
2-in-10 Year Rainfall	=	2-in-10
1-in-10 Year Rainfall	=	1-in-10
Mean Temperature (F)	=	Temp
Annual Daylight (%)	=	Sun

Big Cypress			Clewiston				
Temp	Sun	Rain	Temp	Sun	Rain	Temp	Sun
63.17	7.46	1.69	62.74	7.48	1.31	63.45	7.45
64.15	7.11	2.59	63.20	7.12	1.89	65.57	7.10
66.92	8.38	1.83	67.07	8.38	1.94	69.40	8.38
70.73	8.65	2.06	70.83	8.64	2.84	73.51	8.66
74.72	9.40	5.53	75.12	9.38	4.59	77.18	9.40
78.41	9.32	8.80	78.76	9.30	6.73	80.23	9.33
80.10	9.52	7.63	81.63	9.50	6.51	81.72	9.52
80.55	9.13	6.87	82.11	9.12	6.74	82.09	9.13
79.55	8.32	7.63	80.11	8.32	7.97	81.21	8.32
74.95	8.05	5.11	76.09	8.06	3.72	76.31	8.04
68.55	7.33	1.69	69.50	7.35	1.02	69.77	7.33
64.19	7.34	1.01	63.31	7.36	1.61	64.47	7.33
0.87		15	0.85		22	0.84	

Big Cypress (No Data)				Clewiston					
Temp	Sun	Rain	1-in-10	Temp	Sun	Rain	1-in-10	Temp	Sun
63.00	7.46					2.08	1.93	63.52	7.45
63.83	7.11					1.98	2.46	65.00	7.1
67.55	8.38					2.37	0.43	69.10	8.38
70.60	8.65					2.39	1.25	73.20	8.66
75.29	9.4					4.27	3.22	77.29	9.4
78.93	9.32					7.20	5.56	80.43	9.33
80.32	9.52					6.28	4.38	81.84	9.52
80.68	9.13					6.38	5.13	82.00	9.13
79.43	8.32					5.92	5.20	81.17	8.32
74.94	8.05					3.46	2.66	76.58	8.04
68.87	7.33					1.93	2.01	70.57	7.33
64.32	7.34					1.67	1.41	65.26	7.33

**Everglades**

Rain	Temp	Sun
1.63	66.30	7.49
1.68	67.41	7.12
2.00	69.94	8.38
2.33	73.92	8.64
4.96	77.38	9.37
9.26	80.71	9.29
8.37	82.18	9.49
7.34	82.82	9.11
10.14	81.94	8.32
4.42	77.88	8.06
1.40	71.82	7.36
1.34	67.10	7.37

43

0.86

**Fellsmere**

Rain	Temp	Sun
2.20	62.96	7.41
2.30	64.28	7.08
3.05	67.27	8.37
3.14	72.02	8.67
4.36	75.92	9.44
7.38	79.88	9.37
7.11	81.44	9.56
7.52	81.83	9.16
9.13	80.23	8.32
6.76	75.38	8.03
2.21	68.53	7.29
1.86	63.83	7.29

55

0.86

**Fort Drum (No Data)**

Sun
7.41
7.08
8.37
8.67
9.44
9.37
9.56
9.16
8.32
8.03
7.29
7.29

**Everglades**

Rain	1-in-10	Temp	Sun
1.69	1.38	65.10	7.49
1.63	1.52	66.03	7.12
0.95	0.09	69.39	8.38
2.26	0.98	73.17	8.64
4.41	2.83	76.94	9.37
9.75	7.07	80.30	9.29
8.21	6.93	81.77	9.49
7.79	6.93	82.00	9.11
9.07	7.85	81.50	8.32
4.12	3.13	77.29	8.06
1.46	1.18	71.23	7.36
1.45	1.09	66.74	7.37

**Fellsmere (No Data)**

Rain	1-in-10	Temp	Sun
2.05	1.10		
2.72	2.60		
3.39	0.70		
2.16	1.12		
4.67	2.70		
7.52	6.70		
7.46	5.70		
6.80	6.20		
6.48	5.00		
3.92	3.20		
1.79	2.10		
1.78	1.50		

**Fort Drum**

Rain	1-in-10
2.05	1.10
2.72	2.60
3.39	0.70
2.16	1.12
4.67	2.70
7.52	6.70
7.46	5.70
6.80	6.20
6.48	5.00
3.92	3.20
1.79	2.10
1.78	1.50

**Ft. Lauderdale****Rain**

2.54  
2.26  
2.62  
3.93  
5.78  
8.15  
6.11  
6.72  
8.56  
9.54  
3.40  
2.51

54

**Temp**

67.74  
68.11  
70.44  
74.27  
77.40  
80.24  
81.76  
82.33  
81.34  
77.84  
72.59  
68.71

0.87

**Sun**

7.49  
7.12  
8.38  
8.64  
9.37  
9.29  
9.49  
9.11  
8.32  
8.06  
7.36  
7.37

**Ft. Myers****Rain**

1.90  
2.16  
2.21  
2.37  
3.90  
9.09  
8.47  
8.00  
8.13  
3.88  
1.37  
1.51

98

**Temp**

64.32  
65.36  
68.62  
73.07  
77.34  
80.60  
81.99  
82.41  
81.15  
76.26  
69.44  
65.50

0.86

**Sun**

7.46  
7.11  
8.38  
8.65  
9.40  
9.32  
9.52  
9.13  
8.32  
8.05  
7.33  
7.34

**Ft. Lauderdale****Rain**

2.86  
2.52  
2.90  
4.12  
6.28  
9.02  
6.39  
6.90  
8.21  
8.40  
3.96  
2.52

**1-in-10**

1.89  
2.35  
0.44  
1.62  
4.20  
7.13  
5.32  
6.10  
6.86  
6.38  
3.06  
2.21

**Temp**

66.81  
67.62  
70.71  
74.27  
77.94  
80.90  
82.00  
82.26  
81.37  
77.77  
72.63  
68.42

**Ft. Myers****Rain**

1.90  
2.00  
1.50  
1.90  
4.10  
9.40  
8.70  
8.60  
8.40  
3.50  
1.50  
1.50

**1-in-10**

1.30  
1.70  
0.30  
0.70  
2.90  
7.20  
6.80  
7.40  
8.00  
2.40  
1.20  
1.30

**Temp**

64.03  
65.10  
68.87  
73.13  
77.97  
81.23  
82.53  
82.90  
81.60  
76.58  
69.83  
65.29

**Sun**

7.46  
7.11  
8.38  
8.65  
9.4  
9.32  
9.52  
9.13  
8.32  
8.05  
7.33  
7.34

**Temp**

61.77  
62.90  
66.84  
70.77  
75.48  
79.23  
81.00  
81.00  
79.63  
74.61  
68.57  
63.00

**Sun**

7.41  
7.08  
8.37  
8.67  
9.44  
9.37  
9.56  
9.16  
8.32  
8.03  
7.29  
7.29

Ft. Pierce			Hialeah			Homestead		
Rain	Temp	Sun	Rain	Temp	Sun	Rain	Temp	Sun
2.44	64.70	7.42	2.10	65.91	7.49	1.67		
2.66	65.57	7.09	1.90	66.53	7.12	1.73		
2.96	68.31	8.38	2.05	70.07	8.38	2.36		
3.27	72.62	8.66	3.73	73.78	8.64	3.36		
4.13	76.57	9.43	5.95	76.93	9.37	6.48		
6.40	79.96	9.36	9.24	80.03	9.29	9.25		
5.47	81.59	9.55	7.23	81.20	9.49	8.22		
5.68	82.01	9.15	7.69	81.82	9.11	7.77		
7.74	80.76	8.32	9.35	80.63	8.32	9.98		
7.21	76.48	8.03	8.82	76.62	8.06	8.58		
2.69	70.14	7.30	2.96	71.30	7.36	2.14		
2.08	65.76	7.30	1.81	66.92	7.37	1.18		
75	0.86		28	0.87		55		

Ft. Pierce			Hialeah			Homestead			
Rain	1-in-10	Temp	Sun	Rain	1-in-10	Temp	Sun	Rain	1-in-10
2.48	1.91	63.29	7.42	2.28	1.46	66.42	7.49	1.72	1.37
2.77	1.96	64.31	7.09	2.11	1.65	67.55	7.12	1.86	1.55
3.23	0.77	67.94	8.38	2.70	0.38	71.03	8.38	2.29	0.35
3.08	1.55	72.00	8.66	3.70	1.82	74.30	8.64	3.18	0.93
4.29	2.90	76.42	9.43	6.37	3.94	77.97	9.37	6.73	4.45
5.98	4.33	79.77	9.36	9.31	6.02	80.80	9.29	9.39	6.34
5.66	5.29	81.00	9.55	7.07	6.34	82.00	9.49	7.95	7.28
5.82	4.90	81.35	9.15	8.25	7.09	82.16	9.11	8.27	7.21
8.03	6.55	80.30	8.32	8.98	7.79	81.30	8.32	10.27	9.14
6.72	6.22	75.97	8.03	7.39	6.57	77.39	8.06	7.18	6.44
2.95	2.24	69.80	7.3	3.52	2.17	72.20	7.36	2.15	1.69
2.07	1.88	64.94	7.3	1.85	1.37	67.77	7.37	1.35	1.28

<b>Hypoluxo</b>			<b>Immokalee (No Data)</b>	
<b>Temp</b>	<b>Sun</b>	<b>Rain</b>	<b>Temp</b>	<b>Sun</b>
65.80	7.52	2.89	67.72	7.46
66.60	7.13	2.72	68.09	7.11
69.36	8.39	3.18	69.94	8.38
72.94	8.63	3.55	73.62	8.65
76.20	9.35	4.96	76.88	9.40
79.34	9.26	7.61	79.96	9.32
80.45	9.47	5.46	81.41	9.52
80.97	9.09	5.63	82.00	9.13
80.15	8.31	8.39	81.22	8.32
76.56	8.07	8.75	77.78	8.05
70.68	7.38	3.25	72.51	7.33
66.54	7.40	2.44	68.75	7.34
0.87		67	0.87	

<b>Hypoluxo</b>				<b>Immokalee</b>					
<b>Temp</b>	<b>Sun</b>	<b>Rain</b>	<b>1-in-10</b>	<b>Temp</b>	<b>Sun</b>	<b>Rain</b>	<b>1-in-10</b>	<b>Temp</b>	<b>Sun</b>
65.77	7.52	3.10	2.08	65.84	7.46	2.14	1.91	64.03	7.48
67.45	7.13	2.73	2.17	66.69	7.11	2.26	1.54	65.24	7.12
69.81	8.39	3.46	0.23	70.10	8.38	3.09	0.48	68.77	8.38
72.50	8.63	3.45	2.00	73.63	8.65	2.23	0.68	71.87	8.64
76.52	9.35	5.26	3.44	77.81	9.4	4.23	2.47	76.74	9.38
80.03	9.26	8.29	5.96	80.77	9.32	8.61	7.46	80.10	9.30
81.45	9.47	5.75	4.79	82.29	9.52	7.48	6.76	81.26	9.50
82.00	9.09	6.57	5.51	82.55	9.13	7.35	6.49	81.74	9.12
81.07	8.31	7.78	6.36	81.30	8.32	6.71	5.47	80.67	9.32
77.45	8.07	7.73	7.50	77.45	8.05	2.90	1.64	76.00	8.06
71.93	7.38	3.81	2.64	71.87	7.33	1.95	1.65	67.20	7.35
67.29	7.4	2.61	2.00	67.35	7.34	1.51	1.22	65.45	7.36



Indiantown			Jupiter			Kissimmee		
Rain	Temp	Sun	Rain	Temp	Sun	Rain	Temp	Sun
2.23	63.97	7.44	3.66	67.99	7.44	2.35		
3.08	65.41	7.10	2.49	67.77	7.10	2.84		
3.14	68.26	8.38	3.26	70.38	8.38	3.11		
4.11	72.13	8.66	2.82	74.09	8.66	2.70		
3.94	75.99	9.41	4.89	76.25	9.41	3.98		
9.70	78.88	9.34	6.37	79.86	9.34	7.32		
6.38	80.10	9.53	5.79	81.05	9.53	7.52		
7.08	81.39	9.14	6.26	82.15	9.14	6.88		
7.25	80.53	8.32	8.63	81.61	8.32	6.44		
5.47	75.33	8.04	10.37	78.14	8.04	3.92		
1.96	69.36	7.32	3.18	71.57	7.32	1.95		
1.49	64.15	7.32	2.38	69.29	7.32	2.17		
13	0.86		32	0.87		62		

Indiantown (No Data)			Jupiter			Kissimmee			
Rain	1-in-10	Temp	Sun	Rain	1-in-10	Temp	Sun	Rain	1-in-10
				3.41	2.85	64.84	7.44	2.12	1.85
				2.94	2.44	65.69	7.1	2.67	2.36
				4.27	0.65	69.26	8.38	3.31	0.36
				3.07	1.10	72.97	8.66	2.49	1.65
				5.55	4.02	76.97	9.41	3.90	2.59
				7.59	5.50	80.17	9.34	6.97	5.84
				5.41	4.43	81.68	9.53	7.46	6.13
				6.78	5.44	82.06	9.14	6.76	6.10
				8.44	7.09	81.20	8.32	6.49	4.50
				8.42	8.38	76.90	8.04	3.27	2.98
				3.61	2.08	71.10	7.32	1.96	1.41
				2.47	1.75	66.61	7.32	2.08	1.63

La Belle			Lake Placid				
Temp	Sun	Rain	Temp	Sun	Rain	Temp	Sun
61.07	7.39	1.62	63.79	7.45	1.83	62.83	7.43
62.42	7.06	2.26	65.08	7.10	2.45	64.95	7.09
66.43	8.37	2.74	68.57	8.38	2.65	68.67	8.38
71.47	8.68	2.94	72.74	8.66	3.25	72.91	8.66
76.43	9.47	4.11	76.98	9.40	3.90	77.72	9.42
80.22	9.40	9.06	80.15	9.33	8.22	80.69	9.35
81.54	9.59	8.18	81.45	9.52	7.85	81.78	9.54
81.87	9.18	7.54	81.80	9.13	6.88	82.30	9.15
80.06	8.32	7.69	80.67	8.32	7.15	80.78	8.32
74.28	8.01	3.86	75.56	8.04	3.90	75.26	8.04
66.69	7.27	1.31	68.90	7.33	1.74	68.49	7.31
61.87	7.26	1.35	64.30	7.33	1.41	63.72	7.31
0.85		40	0.86		36	0.85	

La Belle				Lake Placid (No Data)					
Temp	Sun	Rain	1-in-10	Temp	Sun	Rain	1-in-10	Temp	Sun
60.94	7.39	1.95	1.42	62.94	7.45				
62.38	7.06	2.11	1.75	64.62	7.1				
66.65	8.37	2.02	0.49	68.23	8.38				
71.20	8.68	2.54	1.18	72.27	8.66				
76.19	9.47	4.57	3.48	77.10	9.4				
80.30	9.4	9.38	7.35	80.33	9.33				
81.65	9.59	8.19	7.01	81.16	9.52				
81.84	9.18	7.85	7.30	81.77	9.13				
80.07	8.32	6.82	5.54	80.43	8.32				
74.77	8.01	3.80	2.87	75.42	8.04				
67.93	7.27	1.73	1.85	68.97	7.33				
62.48	7.26	1.72	1.90	64.65	7.33				



<b>Miami</b>			<b>Moore Haven</b>				
<b>Temp</b>	<b>Sun</b>	<b>Rain</b>	<b>Temp</b>	<b>Sun</b>	<b>Rain</b>	<b>Temp</b>	<b>Sun</b>
62.49	7.38	2.58	67.51	7.50	1.54	63.43	7.44
63.68	7.06	2.14	67.94	7.13	1.90	64.59	7.10
66.80	8.37	2.44	70.88	8.38	2.40	67.98	8.38
71.51	8.68	3.42	73.89	8.63	2.87	72.17	8.66
76.48	9.48	6.39	77.41	9.36	4.65	76.28	9.41
80.03	9.41	6.85	80.28	9.28	8.11	79.67	9.34
81.38	9.60	5.86	81.56	9.48	7.58	81.01	9.53
81.77	9.18	6.27	82.16	9.13	6.87	81.59	9.14
80.14	8.32	8.81	81.00	8.32	7.58	80.47	8.32
75.30	8.01	8.86	77.54	8.07	4.24	76.00	8.04
68.23	7.26	2.72	72.18	7.37	1.42	69.13	7.32
63.55	7.25	2.01	68.77	7.38	1.23	64.63	7.32
0.85		77	0.87		51	0.85	

ta)

<b>Temp</b>	<b>Sun</b>	<b>Miami</b>		<b>Moore Haven</b>				<b>Temp</b>	<b>Sun</b>
		<b>Rain</b>	<b>1-in-10</b>	<b>Temp</b>	<b>Sun</b>	<b>Rain</b>	<b>1-in-10</b>		
		2.02	1.38	67.35	7.5	1.82	1.44	62.71	7.44
		2.06	2.15	68.48	7.13	2.04	1.77	63.86	7.1
		2.08	0.32	71.65	8.38	1.90	0.49	67.81	8.38
		3.13	1.27	75.13	8.63	2.38	1.13	71.87	8.66
		6.35	3.56	78.74	9.36	4.33	2.92	76.48	9.41
		7.84	4.43	81.23	9.28	7.57	5.53	80.00	9.34
		5.44	4.54	82.68	9.48	7.04	5.54	81.32	9.53
		6.29	5.30	82.84	9.13	6.73	6.11	81.71	9.14
		8.30	6.91	81.67	8.32	6.97	5.98	80.50	8.32
		8.38	6.70	78.10	8.07	3.47	2.40	75.61	8.04
		2.80	2.11	73.13	7.37	1.73	1.60	69.00	7.32
		2.05	1.61	68.87	7.38	1.62	1.32	64.26	7.32

Naples			Okeechobee			Orlando	
Rain	Temp	Sun	Rain	Temp	Sun	Rain	
1.81	65.56	7.49	1.75	62.69	7.43	2.30	
2.02	66.58	7.12	2.00	64.18	7.09	2.43	
2.11	69.81	8.38	3.05	67.49	8.38	2.81	
2.15	73.74	8.64	3.09	71.74	8.66	2.99	
3.93	77.41	9.37	4.15	75.98	9.42	4.21	
8.50	80.82	9.29	7.39	79.46	9.35	6.61	
8.35	82.34	9.49	6.84	80.99	9.54	7.85	
8.25	82.91	9.11	6.22	81.52	9.15	7.04	
9.51	81.97	8.32	7.25	80.34	8.32	7.13	
4.45	77.00	8.06	4.81	75.69	8.04	4.62	
1.36	71.26	7.36	1.46	68.82	7.31	1.72	
1.29	66.52	7.37	1.40	63.77	7.31	2.33	
27	0.86		48	0.85		56	

Naples			Okeechobee			Orlando			
Rain	1-in-10	Temp	Sun	Rain	1-in-10	Temp	Sun	Rain	1-in-10
1.88	1.48	64.97	7.49	1.76	0.96	62.03	7.43	2.30	1.86
1.93	1.59	65.93	7.12	2.19	1.68	63.93	7.09	2.60	2.15
0.96	0.06	69.39	8.38	2.89	0.24	67.84	8.38	3.45	0.81
2.05	0.68	73.00	8.64	2.78	1.51	72.13	8.66	2.75	1.75
4.42	2.96	77.26	9.37	4.29	2.72	76.81	9.42	4.10	2.88
8.17	5.63	80.57	9.29	7.35	6.15	80.17	9.35	7.30	6.18
8.36	6.77	81.87	9.49	6.55	5.90	81.61	9.54	7.80	6.78
8.18	7.25	82.00	9.11	6.65	5.65	81.71	9.15	6.95	6.35
8.69	7.53	81.53	8.32	6.37	5.03	80.47	8.32	6.99	5.51
4.09	3.56	77.03	8.06	4.10	3.24	75.35	8.04	3.55	3.31
1.56	1.18	71.20	7.36	1.91	1.35	69.13	7.31	1.89	1.73
1.32	0.95	66.55	7.37	1.58	1.37	63.65	7.31	2.22	2.06

Pompano Beach			Punta Gorda (No Data)	
Temp	Sun	Rain	Temp	Sun
61.27	7.38	2.41	67.10	7.48
63.12	7.06	2.34	67.46	7.12
66.80	8.37	2.38	70.70	8.38
71.50	8.68	3.65	74.19	8.64
76.75	9.48	5.08	77.02	9.38
80.68	9.41	7.93	79.95	9.30
82.04	9.60	6.74	81.43	9.50
82.31	9.18	7.07	81.82	9.12
80.40	8.32	9.06	81.00	8.32
74.34	8.01	10.46	77.20	8.06
66.65	7.26	2.75	72.24	7.35
61.87	7.25	2.49	68.08	7.36
0.85		28	0.87	

Pompano Beach				Punta Gorda					
Temp	Sun	Rain	1-in-10	Temp	Sun	Rain	1-in-10	Temp	Sun
59.45	7.38	2.94	1.77	66.90	7.48	2.41	2.22	62.55	7.43
62.28	7.06	3.60	2.40	67.55	7.12	2.34	1.72	63.72	7.09
66.94	8.37	5.98	0.40	70.77	8.38	2.35	0.73	67.97	8.38
71.13	8.68	7.75	1.46	74.30	8.64	1.85	0.94	72.27	8.66
77.03	9.48	6.41	3.71	77.68	9.38	4.03	2.89	77.35	9.42
81.17	9.41	6.73	5.13	80.53	9.3	8.90	7.14	81.00	9.35
82.23	9.6	7.99	5.65	82.03	9.5	7.52	6.25	82.19	9.54
82.39	9.18	7.71	6.60	82.42	9.12	7.55	6.87	82.19	9.15
80.83	8.32	3.60	6.98	81.10	8.32	6.48	5.82	81.03	8.32
74.77	8.01	2.30	5.57	77.39	8.06	3.19	2.62	75.90	8.04
68.17	7.26	2.71	3.40	72.40	7.35	1.77	1.21	69.13	7.31
62.19	7.25	2.14	1.90	68.03	7.36	1.84	1.58	64.35	7.31

**Stuart**

Rain	Temp	Sun
2.34	65.49	7.44
2.46	66.35	7.10
2.98	69.87	8.38
3.15	73.80	8.66
4.48	77.34	9.42
7.09	80.82	9.35
6.49	82.16	9.54
5.97	82.58	9.14
8.65	81.35	8.32
8.06	77.25	8.04
2.31	71.52	7.32
2.24	66.82	7.31
34	0.85	

**S-65 (No Data)****S 140 W (No Data)****Stuart**

Rain	1-in-10	Temp	Sun
2.40	1.90	64.84	7.44
2.72	1.90	65.69	7.1
3.57	0.60	69.26	8.38
2.76	1.20	72.97	8.66
4.95	3.20	76.97	9.42
6.58	5.50	80.17	9.35
6.53	5.60	81.68	9.54
5.71	4.40	82.06	9.14
8.05	7.20	81.20	8.32
6.69	6.10	76.90	8.04
2.83	2.00	71.10	7.32
2.56	2.20	66.61	7.31

**S-65**

Rain	1-in-10	Temp
2.18	2.18	61.03
2.91	2.91	62.72
3.05	3.05	67.00
2.20	2.20	71.60
4.39	4.39	76.77
7.90	7.90	80.23
7.70	7.70	81.16
6.58	6.58	81.48
6.30	6.30	79.97
3.30	3.30	74.10
2.14	2.14	67.17
1.84	1.84	62.16

**S 140 W**

Rain	1-in-10
2.03	1.12
1.67	0.82
2.36	0.02
2.33	1.64
4.27	2.48
8.38	5.18
5.72	4.70
6.71	6.90
5.48	5.32
2.47	1.73
1.93	1.07
1.38	0.89

**Tamiami 4****Rain**

1.44  
1.46  
1.89  
2.67  
6.21  
8.95  
8.37  
7.81  
9.66  
6.09  
1.51  
1.05

26

**Temp**

67.12  
68.75  
70.82  
73.29  
76.93  
80.56  
82.41  
83.19  
82.56  
78.67  
72.95  
68.13

0.86

**Sun**

7.50  
7.12  
8.38  
8.64  
9.36  
9.28  
9.48  
9.13  
8.32  
8.06  
7.37  
7.38

**Titusville****Rain**

2.14  
2.39  
3.15  
2.97  
4.08  
7.38  
8.06  
7.28  
8.56  
6.41  
2.18  
2.40

43

**Temp**

61.26  
62.90  
65.92  
71.06  
76.10  
80.06  
81.58  
81.82  
80.15  
74.81  
67.21  
62.22

0.86

**Sun**

7.37  
7.06  
8.37  
8.68  
9.48  
9.42  
9.60  
9.18  
8.33  
8.01  
7.26  
7.24

**Tamiami 4****Rain**

1.67  
1.56  
1.99  
2.73  
5.44  
9.35  
8.06  
7.26  
8.20  
4.72  
2.02  
1.19

**1-in-10**

1.77  
1.57  
0.29  
1.49  
3.76  
6.19  
7.55  
7.73  
6.33  
2.79  
1.58  
1.05

**Titusville (No Data)****Rain**

7.5  
7.12  
8.38  
8.64  
9.36  
9.28  
9.48  
9.13  
8.32  
8.06  
7.37  
7.38

**1-in-10****Temp**

66.94  
67.72  
70.65  
73.53  
77.48  
80.93  
82.77  
83.06  
82.23  
78.55  
73.00  
68.23

**Sun****Temp**

66.71  
68.34  
70.45  
73.73  
78.16  
82.07  
83.90  
84.00  
83.37  
79.23  
74.00  
68.65

**Sun**

7.50  
7.12  
8.38  
8.64  
9.36  
9.28  
9.48  
9.13  
8.32  
8.06  
7.37  
7.38



**Vero Beach**

Rain	Temp	Sun
2.05	63.05	7.41
2.45	64.63	7.08
3.58	68.06	8.37
3.07	72.16	8.67
3.37	76.47	9.44
4.88	79.85	9.37
5.69	81.33	9.56
6.04	81.68	9.16
8.97	80.47	8.32
6.87	75.66	8.03
2.54	69.13	7.29
1.72	64.11	7.29

23

0.85

**West Palm Beach**

Rain	Temp	Sun
2.42	66.33	7.47
2.54	66.88	7.11
2.84	70.19	8.38
3.64	74.22	8.65
5.13	77.70	9.39
7.81	80.62	9.32
6.67	82.47	9.51
6.85	82.78	9.12
9.53	81.72	8.32
8.70	77.71	8.05
2.56	71.98	7.34
2.31	67.63	7.34

29

0.87

**Vero Beach (No Data)**

Rain 1-in-10 Temp

**West Palm Beach**

Rain	1-in-10	Temp	Sun
2.77	2.42	65.84	7.47
2.54	2.25	66.69	7.11
3.38	0.84	70.10	8.38
3.52	1.34	73.63	8.65
5.65	3.07	77.81	9.39
7.97	5.93	80.77	9.32
6.32	5.00	82.29	9.51
6.73	6.42	82.55	9.12
8.81	7.06	81.30	8.32
6.86	6.34	77.45	8.05
3.90	2.64	71.87	7.34
2.52	2.59	67.35	7.34

## Perennials

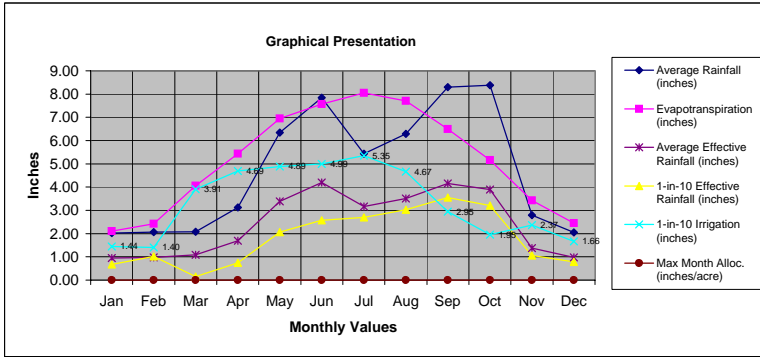
	<b>5</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>18</b>	<b>20</b>
<b>a</b>	<b>Nursery</b>	<b>Sugarcane</b>	<b>Alfalfa</b>	<b>Avocado</b>	<b>Citrus</b>	<b>Grapes</b>	<b>Turf Grass</b>	<b>Blueberries</b>	<b>Pasture</b>
b									
a	0.49	0.39	0.63	0.27	0.63	0.20	0.49	0.63	0.46
b	0.57	0.30	0.73	0.42	0.66	0.24	0.57	0.66	0.60
c	0.73	0.53	0.86	0.58	0.68	0.38	0.73	0.68	0.63
d	0.85	0.61	0.99	0.70	0.70	0.60	0.85	0.70	0.68
e	0.90	0.70	1.08	0.78	0.71	0.71	0.90	0.71	0.70
f	0.92	0.79	1.13	0.81	0.71	0.80	0.92	0.71	0.53
g	0.92	0.79	1.11	0.77	0.71	0.80	0.92	0.71	0.56
h	0.91	0.84	1.06	0.71	0.71	0.76	0.91	0.71	0.58
i	0.87	0.73	0.99	0.63	0.70	0.61	0.87	0.70	0.52
j	0.79	0.88	0.91	0.54	0.68	0.50	0.79	0.68	0.53
k	0.67	0.72	0.78	0.43	0.67	0.35	0.67	0.67	0.49
l	0.55	0.69	0.64	0.30	0.64	0.23	0.55	0.64	0.44

## Annuals

<b>a</b>	<b>51</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>
	<b>Dry Beans</b>	<b>Green Bean</b>	<b>Grain Corn</b>	<b>Silage Corn</b>	<b>Sweet Corn</b>	<b>Melons</b>	<b>Peas</b>	<b>Potato</b>	<b>Soybeans</b>
b									
a	0.54	0.53	0.46	0.45	0.47	0.45	0.54	0.36	0.22
b	0.59	0.55	0.50	0.47	0.50	0.48	0.59	0.41	0.26
c	0.65	0.58	0.53	0.50	0.54	0.52	0.65	0.45	0.30
d	0.72	0.61	0.58	0.54	0.58	0.56	0.72	0.51	0.33
e	0.81	0.64	0.64	0.59	0.64	0.61	0.80	0.59	0.37
f	0.90	0.68	0.71	0.64	0.72	0.66	0.88	0.72	0.41
g	0.96	0.73	0.82	0.71	0.82	0.71	0.97	0.85	0.48
h	1.03	0.79	0.92	0.80	0.91	0.75	1.03	0.97	0.55
i	1.08	0.84	1.00	0.90	0.99	0.80	1.07	1.08	0.63
j	1.11	0.89	1.05	0.98	1.05	0.82	1.11	1.17	0.72
k	1.12	0.94	1.07	1.03	1.07	0.82	1.12	1.25	0.84
l	1.11	0.98	1.08	1.06	1.08	0.80	1.12	1.31	0.92
m	1.08	1.02	1.07	1.07	1.08	0.79	1.11	1.35	0.98
n	1.03	1.05	1.06	1.08	1.07	0.77	1.10	1.37	1.02
o	0.96	1.08	1.03	1.07	1.07	0.76	1.08	1.37	1.02
p	0.90	1.10	1.00	1.06	1.06	0.75	1.06	1.36	0.93
q	0.83	1.11	0.97	1.04	1.05	0.73	1.04	1.34	0.83
r	0.75	1.12	0.93	1.02	1.03	0.71	1.01	1.30	0.77
s	0.67	1.12	0.89	1.00	1.02	0.69	0.97	1.27	0.72
t	0.60	1.11	0.85	0.96	1.00	0.67	0.96	1.23	0.68

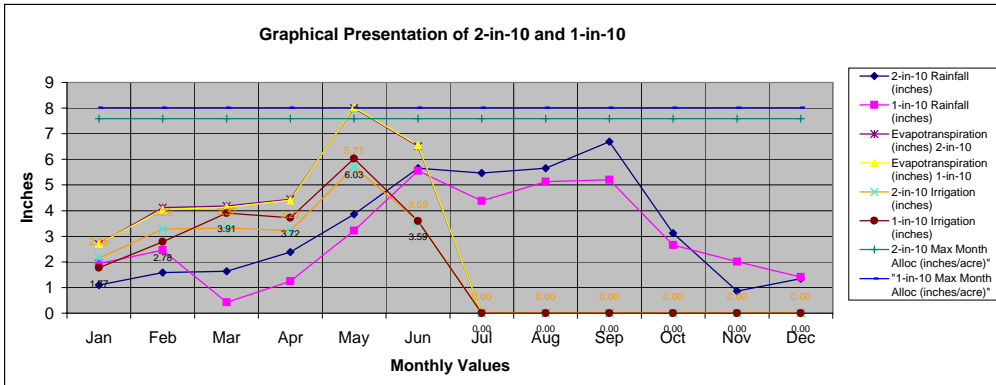
<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>
<b>Papaya</b>	<b>Carambola</b>	<b>Tropical Fruit</b>	<b>Mangoes</b>	<b>Palm Trees</b>
0.63	0.63	0.63	0.27	0.49
0.66	0.66	0.66	0.42	0.57
0.68	0.68	0.68	0.58	0.73
0.70	0.70	0.70	0.70	0.85
0.71	0.71	0.71	0.78	0.90
0.71	0.71	0.71	0.81	0.92
0.71	0.71	0.71	0.77	0.92
0.71	0.71	0.71	0.71	0.91
0.70	0.70	0.70	0.63	0.87
0.68	0.68	0.68	0.54	0.79
0.67	0.67	0.67	0.43	0.67
0.64	0.64	0.64	0.30	0.55

<b>60</b>	<b>61</b>	<b>62</b>
<b>Tomato</b>	<b>Small Vegetables</b>	<b>Winter Wheat</b>
0.45	0.33	0.28
0.46	0.39	0.30
0.47	0.47	0.34
0.48	0.56	0.39
0.51	0.64	0.44
0.56	0.69	0.52
0.65	0.74	0.58
0.76	0.78	0.65
0.87	0.80	0.72
0.95	0.82	0.78
1.01	0.83	0.85
1.03	0.83	0.91
1.02	0.82	0.97
0.98	0.80	1.02
0.95	0.76	1.08
0.90	0.73	1.13
0.85	0.66	1.18
0.80	0.58	1.22
0.75	0.48	1.24
0.70	0.38	1.32



Maximum Monthly Supplemental Crop Water Use: 0.00 MG  
0.00 inches/acre

0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00  
0.00



Update 2-in-10 and 1-in-10 Graph

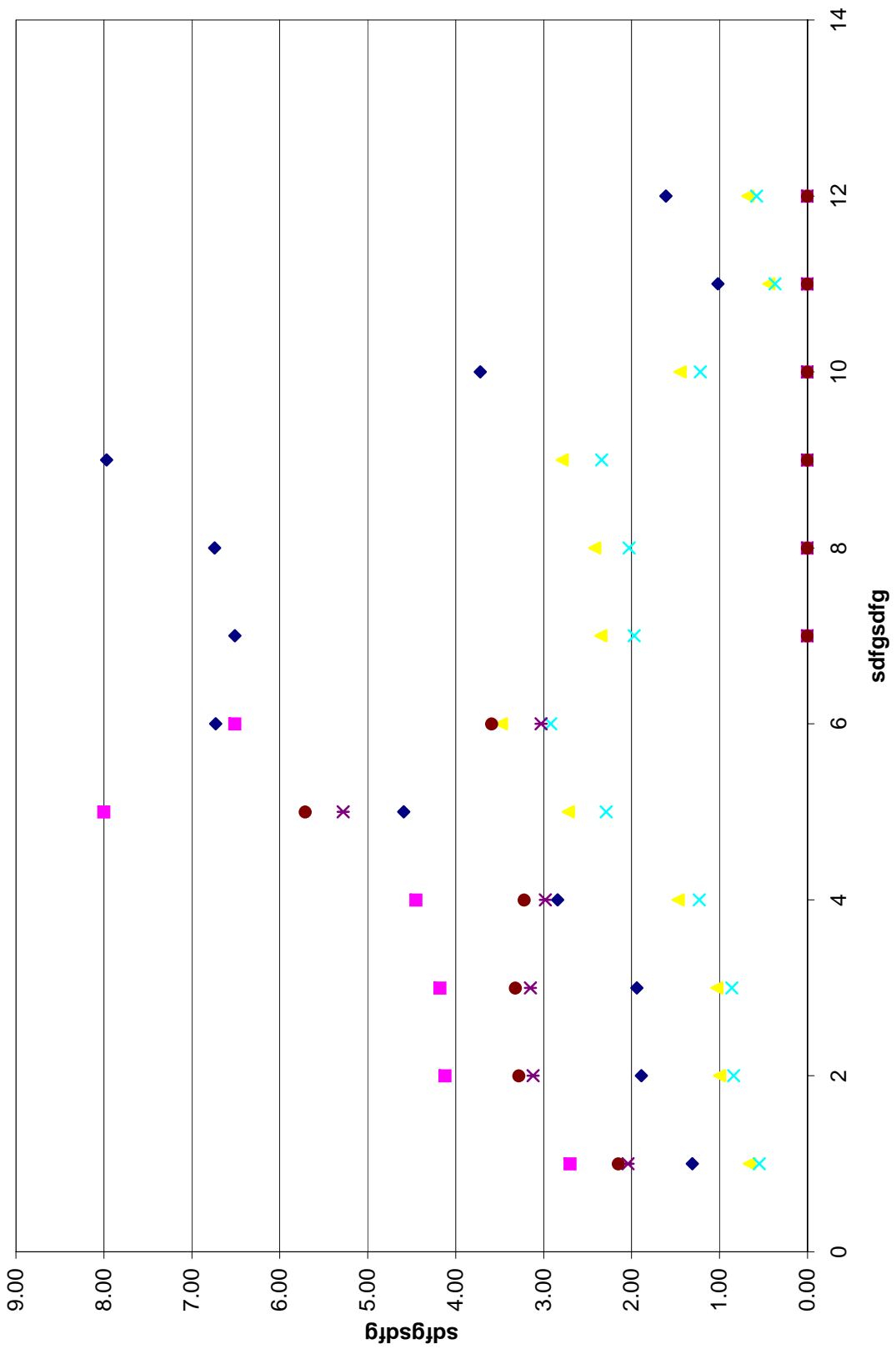
2-in-10

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	2,268	7,594
Average Rainfall (inches)	1.31	1.89	1.94	2.84	4.59	6.73	6.51	6.74	7.97	3.72	1.02	1.61	46.87	11.00	7,594
Evapotranspiration (inches)	2.70	4.12	4.18	4.45	8.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	29.96		7,594
Average Effective Rainfall (inches)	0.66	1.00	1.03	1.47	2.72	3.48	2.35	2.42	2.79	1.45	0.44	0.68	20.49		7,594
2-in-10 Effective Rainfall (inches)	0.55	0.84	0.86	1.23	2.29	2.92	1.97	2.03	2.34	1.22	0.37	0.58	17.20		7,594
Average Irrigation (inches)	2.04	3.12	3.15	2.98	5.28	3.03	0.00	0.00	0.00	0.00	0.00	0.00	19.60		7,594
2-in-10 Irrigation (inches)	2.15	3.28	3.32	3.22	5.71	3.59	0.00	0.00	0.00	0.00	0.00	0.00	21.27		7,594
2-in-10 Rainfall (inches)	1.1	1.59	1.63	2.39	3.86	5.65	5.47	5.66	6.69	3.12	0.86	1.35			7,594

1-in-10

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	2,395	8,019
Average Rainfall (inches)	2.08	1.98	2.37	2.39	4.27	7.20	6.28	6.38	5.92	3.46	1.93	1.67	45.93	11.00	8,019
Evapotranspiration (inches)	2.71	4.04	4.13	4.41	8.03	6.55	0.00	0.00	0.00	0.00	0.00	0.00	29.87		8,019
Average Effective Rainfall (inches)	1.01	1.04	1.23	1.25	2.56	3.69	2.28	2.31	2.17	1.36	0.81	0.71	20.42		8,019
1-in-10 Effective Rainfall (inches)	0.94	1.26	0.22	0.69	2.00	2.96	1.67	1.92	1.94	1.08	0.84	0.61	16.13		8,019
Average Irrigation (inches)	1.70	3.00	2.90	3.16	5.47	2.86	0.00	0.00	0.00	0.00	0.00	0.00	19.09		8,019
1-in-10 Irrigation (inches)	1.77	2.78	3.91	3.72	6.03	3.59	0.00	0.00	0.00	0.00	0.00	0.00	21.80		8,019
1-in-10 Rainfall (inches)	1.93	2.46	0.43	1.25	3.22	5.56	4.38	5.13	5.2	2.66	2.01	1.41			8,019

sdfgsd



## 2-in-10

			<b>With SWM</b>	<b>Without SWM</b>
01	1	Micro-spinkler	1.18	1.18
02	2	Overhead Drip	1.18	1.18
03	13	Seepage/Furrow	2.50	1.67
04	14	Semi-Closed Flow-Through	2.50	1.67
05	15	Crown Flooding	2.50	1.67
06	16	Sub-irrigation	2.50	1.67
07	7	Sprinkler	1.33	1.25
08	8	Portable Gun	1.54	1.43
09	9	Traveling Gun	1.43	1.33
10	10	Overhead	1.33	1.25
11	3	Nursery Container	5.00	2.86
12	4	Low Volume	1.18	1.18
13	5	Drip	1.18	1.18
14	17	Surface Gravity	2.50	1.67
18	18	Flood/Seepage	2.50	1.67
90	6	Container	5.00	2.86
92	11	Volume Gun	1.43	1.33
93	12	Walking Gun	1.43	1.33
94		Low Volume/Canal Eff	0.50	0.50
95		Flood/Canal Eff	0.50	0.50

## 1-in-10

			<b>With SWM</b>	<b>Without SWM</b>
01	1	Micro-spinkler	1.18	1.18
02	2	Overhead Drip	1.18	1.18
03	13	Seepage/Furrow	2.00	2.00
04	14	Semi-Closed Flow-Through	2.00	2.00
05	15	Crown Flooding	2.00	2.00
06	16	Sub-irrigation	2.00	2.00
07	7	Sprinkler	1.33	1.33
08	8	Portable Gun	1.43	1.43
09	9	Traveling Gun	1.33	1.33
10	10	Overhead	1.33	1.25
11	3	Nursery Container	2.86	2.86
12	4	Low Volume	1.18	1.18
13	5	Drip	1.18	1.18
14	17	Surface Gravity	2.00	2.00
18	18	Flood/Seepage	2.00	2.00
90	6	Container	2.86	2.86
92	11	Volume Gun	1.33	1.33
93	12	Walking Gun	1.33	1.33
94		Low Volume/Canal Eff	0.50	0.50
95		Flood/Canal Eff	0.50	0.50