



---

1988

Alabama  
Agricultural  
Experiment  
Station

Weather Data

---



Compiled by U.S. Department of Commerce/NOAA National Weather Service  
Southeast Agricultural Weather Service Center Auburn University  
Alabama Agricultural Experiment Station Lowell T. Frobish, Director  
Auburn University, Alabama March 1989 Agricultural Weather Series No. 28



TABLE OF CONTENTS

	PAGE
TABLE OF CONTENTS	1
CLIMATOLOGICAL PUBLICATIONS FOR AUBURN AND THE STATE OF ALABAMA	2
1988 WEATHER SUMMARY FOR STATE OF ALABAMA	3 THROUGH 5
HISTORY OF AUBURN WEATHER STATION AND ADDITIONAL DATA AVAILABLE	6
UNITS USED IN THIS PUBLICATION	7
1988 DAILY AUBURN WEATHER DATA WITH MONTHLY SUMMARIES AND DAILY NORMAL AND TEMPERATURE EXTREMES	8 THROUGH 31
CLIMATOLOGICAL DATA AND 1988 WEATHER DATA SUMMARY FOR AUBURN, ALABAMA	32
NORMAL DEGREE DAYS ABOVE AND BELOW VARIOUS BASE TEMPERATURES FOR AUBURN, ALABAMA	33
AUBURN DAILY NORMALS OF TEMPERATURE AND PRECIPITATION BASED ON 1951-80 DATA	34 THROUGH 36
SUNRISE/SUNSET AND DAYLENGTH TABLES FOR AUBURN, ALABAMA	37 THROUGH 39
1988 PRECIPITATION SUMMARY FOR AUBURN UNIVERSITY SUBSTATIONS WITH DEPARTURES FROM NORMAL	40
1988 DAILY WEATHER DATA FOR AUBURN UNIVERSITY EXPERIMENT SUBSTATIONS WITH MONTHLY SUMMARIES	
TENNESSEE VALLEY SUBSTATION, BELLE MINA	41 THROUGH 52
BREWTON EXPERIMENT FIELD, BREWTON	53 THROUGH 64
LOWER COASTAL PLAIN SUBSTATION, CAMDEN	65 THROUGH 76
CHILTON AREA HORTICULTURE SUBSTATION, CLANTON	77 THROUGH 88
SAND MOUNTAIN SUBSTATION, CROSSVILLE	89 THROUGH 100
GULF COAST SUBSTATION, FAIRHOPE	101 THROUGH 112
WIREGRASS SUBSTATION, HEADLAND	113 THROUGH 124
BLACK BELT SUBSTATION, MARION JUNCTION	125 THROUGH 136
UPPER COASTAL PLAIN SUBSTATION, WINFIELD	137 THROUGH 148

CLIMATOLOGICAL PUBLICATIONS FOR AUBURN, ALABAMA, AND THE STATE OF ALABAMA

AGRICULTURAL WEATHER  
SERIES NUMBER

PUBLICATION TITLE

1 - 4	1964 TO 1967 AUBURN WEATHER DATA
5	GROWING DEGREE DAYS FOR ALABAMA
6 - 16	1968 TO 1978 AUBURN WEATHER DATA
17	CLIMATE OF FREEZE IN ALABAMA
18	PRECIPITATION PROBABILITIES AND STATISTICS FOR ALABAMA
19 - 22	1979 TO 1982 AUBURN WEATHER DATA
23	1983 ALA. AG. EXPERIMENT STATION WEATHER DATA
24	1984 ALA. AG. EXPERIMENT STATION WEATHER DATA
25	1985 ALA. AG. EXPERIMENT STATION WEATHER DATA
26	1986 ALA. AG. EXPERIMENT STATION WEATHER DATA
27	1987 ALA. AG. EXPERIMENT STATION WEATHER DATA

Other Publications of Interest:

AES Circular June 1976	Climatic Estimates for the E. V. Smith Research Center
ESSC Special Report	Alabama Daily Temperature Normals
AES Bulletin 477	An Atlas and Tables of Thunderstorm Probabilities in the Southeast
AES Bulletin 517	Climatic Features and Length of Growing Season in Alabama

## 1988 WEATHER SUMMARY FOR THE STATE OF ALABAMA

### ANNUAL SUMMARY.....

The year started off with a considerable rainfall deficit except in Baldwin and Mobile counties. Temperatures averaged below normal through March with no noticeable trend for the remainder of the year. Monthly temperatures were normal in April, July, and September; below normal in May, October, and December; and above normal in June, August, and November. Rain amounts were normal in January but returned to below normal over most of Alabama during February and March. Except for the extreme south, there was a deficit of annual rainfall. Normal rain in April brought some relief. Below normal rain returned in May and continued into June. Precipitation totals were generally normal to above normal in July through October and amounts were enough in some places to bring the annual totals up to or above the normal but a majority of areas remained below normal. The year ended with normal rains in November and below normal in December. The most significant annual deficit was in the Tennessee Valley with amounts 10 to 12 inches below normal. Annual deficits across the remainder of the state were mostly between 2 and 8 inches. Only Montgomery (+14.92 inches), Fairhope (+5.76 inches), Milstead (+2.78 inches), Demopolis (+0.60), and Brewton (+0.45 inches) ended the year with a surplus rain total. Although it was an active year for tropical storms, none became of concern to Alabama.

### MONTHLY HIGHLIGHTS.....

The year started with a cold January, but normal to above normal rainfall. Daily low temperatures were below freezing on 18 to 24 days across the northern half of the state and 18 to 20 days in the central and south to 12 to 15 days in Mobile and Baldwin counties. Lows into the single digits were recorded in the Tennessee Valley with low 20s elsewhere except for mid-20s in the extreme southwest. The warmest afternoon temperatures ranged from the upper 60s north to mid-70s central and south. Rain was recorded on 11 to 13 days during the month with most totals between 3 and 6 inches in the north and 4 to 7 inches in the central and south.

Below normal temperatures continued in February with average temperatures some 2 to 4 degrees below normal. The warmest highs were in the 70s but the coldest lows were mostly in the teens. Normally colder locations in northern half of Alabama reported lows in the single digits. Precipitation was below normal in the northern half of the state where rain fell on 7 to 10 days with totals of 1 to 3 inches. Elsewhere rain was reported on 10 to 12 days with 4- to 6-inch amounts more common but local amounts exceeded 7 inches in the extreme south.

March was cool with average temperatures 1 to 4 degrees below normal. Daily highs did warm into the low 80s with some mid-80s in the central counties. However, freezing temperatures occurred on 8 to 14 days in the north; 4 to 6 days central and south; and only 1 to 2 days in Mobile and Baldwin counties. Extreme lows were around

20 degrees in the north to low and mid-20s central and south to around 30 in the extreme southwest. Rain remained mostly below normal with 2- to 3-inch amounts. Only the extreme south had above normal rain with 5- to 7-inch totals more common. Rainfall totals since January 1 were 5 to 7 inches below normal in the northern half of Alabama and 3 to 5 inches below normal in the central and south. Only the extreme south and southwest had annual totals 1 to 3 inches above normal.

Near normal rain amounts finally returned in April with most locations receiving 3 to 5 inches. The rain was well distributed during the month. The main exception was in the southeast where rain amounts were under 3 inches. Temperatures averaged around normal. Extreme highs ranged from the upper 80s in the north to around 90 degrees in the central and south. Low temperatures ranged from the mid-30s north to around 40 central and south. Scattered frost was reported in the northern portions of Alabama at the end of April. Rain totals since January 1 were 4 to 7 inches below normal except for the south where totals were 1 to 3 inches above normal.

The cool and dry weather returned in May. Much of the state received 2 or less inches of rain. A few areas in the south reported less than one-half inch. Northern portions of the state received rain on 6 to 8 days but rain occurred on only 2 to 3 days in some areas of the south. An annual rain deficit of 8 to 12 inches was common over the northern half of Alabama. Temperatures averaged 2 to 4 degrees cooler than usual. Warmest temperatures were in the upper 80s to low 90s. Lowest temperatures were mostly in the 40s but ranged from the mid-30s in colder locations of the north to near 50 degrees along the coast.

Rainfall continued below normal in June. Most totals were 2 inches or less with some areas of northern Alabama receiving less than one-quarter inch. Local areas in the southern half of the state did receive 3 to 5 inches. The deficit for the year stood at 10 to 15 inches in north and west Alabama to about 5 inches over the extreme south. Temperatures averaged around 2 degrees above normal in the Tennessee Valley and near normal elsewhere. Maximum temperatures of 100 degrees were common late in the month. Brewton and Demopolis reported a high of 103. The coolest lows were in the mid- and upper 40s north to 50s elsewhere.

Significant rain finally occurred over the state in July. Four or more inches of rain were common with isolated totals exceeding 10 inches. Marion Junction reported almost 13 inches of rain during the month. Rain fell on 15 days across the extreme south and 10 to 15 days elsewhere. Temperatures averaged near normal to slightly below. Most high temperatures were in the middle and upper 90s but Muscle Shoals and Huntsville reported highs of 100 degrees. The coolest daily lows were mostly in the 60- to 65-degree range with some upper 50s only in the north.

Rains continued in August. Rain fell on 6 to 11 days in the north and 9 to 15 days elsewhere. Fairhope reported rain on 21 days.

Totals were 1 to 4 inches except 4 to 6 inches along the Florida border and 10 to 14 inches in Mobile and Baldwin counties. Temperatures were warm and averaged 1 to 3 degrees above normal except for Mobile and Baldwin counties where the average was a degree below normal. Daily temperatures exceeded 90 degrees on 12 to 20 days in the extreme southwest counties and 20 to 28 days elsewhere. Extreme highs were in the middle and upper 90s with extreme lows around 60 north to middle and upper 60s central and south. Annual totals remained 12 to 16 inches below normal in the northwest part of the state and 1 to 5 inches below normal elsewhere.

September was a very wet month across Alabama. Monthly rain totals were 5 to 8 inches with 10 to 15 inches reported in the southwest. Brewton received over 16 inches of rain. Normal rain for the month is 3 to 6 inches. The rain fell on 9 to 12 days and up to 15 days in the southwest. Average temperatures were normal. The coolest lows were mostly in the 50s except for some 40s in colder locations. The warmest temperatures ranged from near 90 degrees north to low and middle 90s south.

Normal rain continued in October but temperatures were below normal. Rain fell on 7 days during the month at most locations. Totals ranged from 3 inches north to near 2 inches central and south. Rainfall totals since January 1 continued to show a deficit at many locations while others indicated a surplus. Temperatures averaged 3 to 6 degrees below normal. Extremes ranged from 87 at Dothan to 30 degrees at Pinson and Winfield. Frost was reported on two mornings across the north and into the usually colder locations of central and southern Alabama.

November was a warm and wet month. Temperatures averaged 3 to 6 degrees above normal. Warmest temperatures ranged from the mid-70s north and east central to low 80s south. The coldest temperatures were mostly in the upper 20s to low 30s. The main exceptions were in the colder areas of the north which recorded mid-20s and along the coast where mid-30s occurred. The coldest temperatures occurred at the end of the month. Rain fell on 10 to 12 days in the north and central portions of Alabama with 6 to 8 inches of rain common. Two- to 4-inch amounts were more common in the south with rain occurring on 5 to 8 days.

Temperatures were normal in December but rainfall returned to below normal amounts. The warmest highs were in the upper 60s in the Tennessee Valley to low and mid-70s central and upper 70s south. Freezing temperatures were reported on 12 to 21 days in the north and central and 5 to 18 days in the south. Extreme lows ranged from teens in the north to low 20s central and mid-20s south with teens in colder locations. Rain fell on 7 to 13 days in the north and 5 to 10 days central and south. Most totals were 2 to 4 inches in the north and 1 to 3 inches central and south. Lower amounts occurred along the eastern counties from Anniston to Dothan where totals were under 1 inch.

## HISTORY OF THE AUBURN, ALABAMA, WEATHER STATION

The first official weather records for Auburn, Alabama, began in May 1894. There is no record of the exact location of the station. Weather data taken from May 1884 through March 1906 were destroyed in a fire. Dr. J. T. Anderson established a new station about one-half mile southwest of the Auburn Post Office on April 1, 1906.

On April 13, 1947, the station was moved to the home of Mrs. Martha I. Moore. This location was about 1.3 miles west-southwest of the Auburn Post Office. Mrs. Moore moved on January 2, 1952, to a location 3 miles southwest of the Post Office. The station remained there until January 1971.

The U. S. Weather Bureau (now the National Weather Service) created an Advisory Agricultural Meteorologist (AAM) position at Auburn in the fall of 1963. Paul Mott established a micrometeorological weather station on the south end of the Auburn University Agronomy Farm on September 1, 1963. In July 1973, the National Weather Service replaced the AAM position by establishing the Environmental Studies Service Center and the staff of that office started taking observations at the same weather station. In 1981, the office was renamed the Southeast Agricultural Weather Service Center.

Auburn's weather observations continue to be taken at the Auburn University Agronomy Farm location by the staff of the Southeast Agricultural Weather Service Center.

### ADDITIONAL DATA AVAILABLE FROM AUBURN, ALABAMA

Agricultural data other than that published here is available from the Southeast Agricultural Weather Service Center, Auburn University, Alabama, and includes:

1. MAXIMUM/MINIMUM 2-inch air temperature over grass
2. MAXIMUM/MINIMUM 2-inch air temperature over fallow soil
3. MAXIMUM/MINIMUM soil temperatures (2- and 8-inch level)
4. Open pan evaporation maximum/minimum/mean water temperature
5. Miles of wind across the open evaporation pan
6. Relative humidity at 1 a.m., 7 a.m., 1 p.m., 7 p.m.
7. Average wind direction and speed and maximum gust from 6 p.m. to 6 a.m. and 6 a.m. to 6 p.m.
8. Minutes of sunshine and percent of possible
9. Maximum/minimum/mean barometric pressure during 24-hour period

INFORMATION CONTAINED HEREIN IS AVAILABLE TO ALL WITHOUT REGARD FOR RACE, COLOR, SEX, OR NATIONAL ORIGIN



## UNITS USED IN THIS PUBLICATION

1. "NA" means an observation is missing or not reported. Observations are taken at 7 a.m. CST daily and are for the previous 24 hours.
2. Temperatures are in degrees fahrenheit. PRECIP is PRECIPitation in inches. A trace of precipitation is less than 0.01 inch.
3. MAX is MAXimum. MIN is MINimum.
4. AVG is AVerage and MEAN is MEAN computed by  $(MAX + MIN) / 2$ .
5. DFN is the Departure From Normals based on 1951-1980 data.
6. GDD is Growing Degree Days. The value is computed daily when the average daily temperature is greater than the threshold temperature. For B60 and B50, the threshold temperatures are 60 and 50 degrees, respectively. A cumulative total beginning on the first of each month is provided each day. The formula used is:  
$$GDD = AVG \text{ DAILY AIR TEMPERATURE} - THRESHOLD \text{ TEMPERATURE}$$
7. EVAP is open pan EVAPoration in inches.
8. VEG WET is VEGetative WETting in hours from noon on the previous day to noon on the day of observation.
9. SOLAR ENERGY is in watts per square meter for the previous 24 hours ending at 7 a.m. CST daily.
10. PET is Potential EvapoTranspiration. It is based on the Baier Robertson Model. Ref: Soil Moisture Estimator Program System, Tech Bull. 78, January 1972, Plant Res Inst, Can Dept of Agri and Estimation of Latent Evaporation From Simple Weather Observations. Baier, W. and Geo. W. Robertson, 1965, Can J Plant Sci. 45:276-284.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
1/ 1	58	41	50	5	0	0	.10	52	44	48	.05	22	1444	.01
1/ 2	58	38	48	3	0	0	.97	56	47	52	.05	22	488	.02
1/ 3	48	38	43	-2	0	0	.26	52	46	49	.08	22	1497	.00
1/ 4	43	39	41	-4	0	0	.18	48	45	47	.02	22	559	.00
1/ 5	48	27	38	-7	0	0	.00	54	38	46	NA	0	3344	.02
1/ 6	43	26	35	-10	0	0	.00	50	37	44	NA	0	3471	.01
1/ 7	38	27	33	-12	0	0	Trace	43	37	40	NA	5	1948	.00
1/ 8	33	25	29	-16	0	0	1.19	NA	NA	40	NA	NA	NA	.00
1/ 9	32	25	29	-16	0	0	.00	40	36	38	NA	24	NA	.00
1/10	31	24	28	-17	0	0	.00	NA	NA	38	NA	8	NA	.00
1/11	38	24	31	-14	0	0	.00	46	36	41	NA	14	2829	.00
1/12	47	25	36	-9	0	0	.00	48	35	42	NA	0	3677	.03
1/13	53	29	41	-4	0	0	.04	48	36	42	NA	6	3013	.03
1/14	50	21	36	-9	0	0	.01	52	36	44	NA	1	3015	.03
1/15	42	21	32	-13	0	0	.00	46	36	41	NA	0	3387	.01
1/16	49	26	38	-6	0	0	.00	49	36	43	NA	0	3624	.03
1/17	53	29	41	-3	0	0	.04	47	36	42	NA	9	3084	.03
1/18	55	45	50	6	0	0	1.07	51	44	48	NA	24	441	.00
1/19	60	55	58	14	0	8	.69	56	51	54	NA	24	902	.00
1/20	69	53	61	17	1	19	.87	60	56	58	.10	18	995	.02
1/21	65	40	53	9	1	22	.00	62	48	55	.10	0	2401	.05
1/22	48	29	39	-6	1	22	.00	51	38	45	NA	0	1603	.00
1/23	45	24	35	-10	1	22	.00	51	37	44	NA	1	3880	.03
1/24	52	25	39	-6	1	22	.00	50	37	44	NA	1	3995	.05
1/25	52	33	43	-2	1	22	.42	47	38	43	.09	16	1628	.01
1/26	48	22	35	-10	1	22	.00	52	36	44	NA	0	3437	.03
1/27	39	20	30	-15	1	22	.00	45	35	40	NA	0	4073	.02
1/28	45	21	33	-12	1	22	.00	46	35	41	NA	1	4534	.05
1/29	54	23	39	-6	1	22	.00	50	35	43	NA	0	3988	.06
1/30	61	28	45	0	1	22	.00	52	37	45	NA	0	3738	.08
1/31	64	40	52	6	1	24	.00	53	40	47	.14	0	3084	.06

AIR TEMPERATURES:

Mean Maximum= 49.1      Mean Minimum= 30.4      Average= 39.7  
DFN= -6.4      DFN= -3.3      DFN= -4.9  
Highest= 69 Lowest= 20

PRECIPITATION STATISTICS:

Total= 5.84    DFN= +.70    Greatest Daily= 1.19    Rain Days= 12

SOIL TEMPERATURES:

Highest= 62 Lowest= 35 Average= 45

AVERAGE DAILY VALUES:

Pan Evaporation= .08    Hours of Wet Vegetation= 8.0  
Solar Energy= 2645.7  
Average daily potential evapotranspiration (PET)= .02

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
JANUARY

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	56	34	45	74	1985	15	1984
2	56	34	45	79	1952	8	1928
3	56	34	45	77	1952	11	1919
4	56	34	45	76	1917	6	1919
5	55	34	45	76	1950	15	1959
6	55	34	45	76	1950	6	1924
7	55	34	45	77	1913	12	1970
8	55	34	45	75	1946	10	1970
9	55	34	45	76	1930	5	1970
10	55	34	45	77	1957	12	1970
11	55	34	45	79	1949	1	1982
12	55	34	45	81	1949	1	1982
13	55	34	45	75	1937	6	1918
14	55	34	45	78	1932	15	1981
15	55	34	45	75	1952	10	1948
16	55	33	44	79	1943	10	1972
17	55	33	44	79	1952	6	1977
18	55	33	44	77	1929	7	1977
19	55	33	44	78	1952	3	1977
20	55	33	44	79	1927	5	1977
21	55	33	44	81	1923	-7	1985
22	56	33	45	78	1927	-6	1985
23	56	33	45	78	1937	8	1961
24	56	33	45	78	1920	0	1963
25	56	34	45	78	1943	1	1963
26	56	34	45	79	1950	9	1940
27	56	34	45	78	1950	7	1940
28	56	34	45	78	1916	9	1986
29	56	34	45	79	1947	5	1966
30	56	34	45	80	1975	1	1966
31	57	34	46	82	1975	13	1909

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	69	51	60	14	0	10	.00	57	48	53	.10	0	2490	.06
2/ 2	76	55	66	20	6	26	.00	62	51	57	.12	12	3083	.09
2/ 3	68	59	64	18	10	40	1.13	60	55	58	.10	19	1101	.02
2/ 4	67	61	64	18	14	54	1.22	63	58	61	.07	24	815	.01
2/ 5	63	34	49	3	14	54	.10	61	44	53	.08	7	1595	.04
2/ 6	38	20	29	-17	14	54	.00	46	37	42	NA	0	1029	.00
2/ 7	32	16	24	-22	14	54	.00	46	35	41	NA	0	4656	.00
2/ 8	39	18	29	-17	14	54	.00	42	35	39	NA	0	3364	.01
2/ 9	54	31	43	-3	14	54	.00	52	36	44	NA	0	4444	.07
2/10	58	33	46	0	14	54	.00	54	37	46	.16	0	4341	.08
2/11	61	37	49	3	14	54	.00	56	39	48	.16	0	4488	.08
2/12	60	21	41	-6	14	54	.02	55	39	47	NA	9	3394	.07
2/13	35	21	28	-19	14	54	.00	47	36	42	NA	0	4608	.02
2/14	51	21	36	-11	14	54	.00	50	36	43	NA	0	4681	.07
2/15	65	35	50	3	14	54	.49	55	37	46	.14	9	4278	.10
2/16	52	25	39	-8	14	54	.02	51	37	44	NA	1	1041	.05
2/17	54	25	40	-7	14	54	.00	53	37	45	NA	0	4856	.08
2/18	54	30	42	-6	14	54	.00	49	38	44	.10	0	2203	.02
2/19	50	42	46	-2	14	54	.79	46	42	44	.04	24	762	.00
2/20	55	45	50	2	14	54	Trace	52	46	49	.01	14	1160	.01
2/21	47	31	39	-9	14	54	.00	48	39	44	.04	2	915	.01
2/22	53	32	43	-6	14	54	.00	53	38	46	.17	0	5077	.08
2/23	65	37	51	2	14	55	Trace	57	38	48	.19	6	4879	.11
2/24	67	37	52	3	14	57	.02	58	45	52	.06	6	3276	.08
2/25	52	29	41	-8	14	57	.00	57	38	48	NA	0	6473	.10
2/26	54	28	41	-8	14	57	.00	55	38	47	NA	0	5321	.09
2/27	59	32	46	-4	14	57	.00	57	38	48	.14	0	4863	.09
2/28	70	39	55	5	14	62	.00	60	42	51	.22	0	4476	.11
2/29	66	39	53	3	14	65	.00	64	43	54	.18	0	5462	.12

AIR TEMPERATURES:

Mean Maximum= 56.3      Mean Minimum= 33.9      Average= 45.1  
DFN= -2.9                      DFN= -1.4                      DFN= -2.2  
Highest= 76      Lowest= 16

PRECIPITATION STATISTICS:

Total= 3.79      DFN= -1.76      Greatest Daily= 1.22      Rain Days= 8

SOIL TEMPERATURES:

Highest= 64      Lowest= 35      Average= 47

AVERAGE DAILY VALUES:

Pan Evaporation= .12      Hours of Wet Vegetation= 4.6  
Solar Energy= 3418.3  
Average daily potential evapotranspiration (PET)= .06

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
FEBRUARY

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	57	34	46	78	1957	17	1936
2	57	34	46	80	1957	10	1951
3	57	34	46	76	1950	9	1951
4	57	34	46	80	1927	10	1958
5	57	34	46	81	1957	19	1947
6	57	34	46	80	1957	17	1978
7	58	34	46	78	1957	16	1988
8	58	34	46	80	1957	18	1988
9	58	34	46	80	1957	11	1933
10	58	34	46	79	1939	15	1947
11	58	34	46	79	1932	17	1973
12	59	35	47	79	1922	12	1981
13	59	35	47	79	1922	13	1981
14	59	35	47	82	1962	15	1958
15	59	35	47	80	1959	13	1943
16	59	35	47	80	1921	16	1958
17	59	35	47	81	1927	8	1958
18	60	36	48	78	1956	8	1958
19	60	36	48	77	1956	12	1958
20	60	36	48	79	1956	18	1958
21	60	36	48	78	1986	17	1958
22	61	36	49	78	1976	12	1963
23	61	37	49	79	1927	14	1963
24	61	37	49	78	1980	21	1947
25	61	37	49	81	1918	16	1967
26	61	37	49	80	1944	17	1967
27	62	38	50	81	1945	12	1963
28	62	38	50	82	1962	18	1963
29	62	38	50	82	1962	18	1963

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
3/ 1	70	37	54	4	0	4	.00	65	44	55	.24	0	5271	.13
3/ 2	66	40	53	3	0	7	.00	66	44	55	.13	0	5599	.12
3/ 3	71	45	58	7	0	15	Trace	65	45	55	.23	1	4407	.11
3/ 4	66	57	62	11	2	27	1.12	58	53	56	.07	21	831	.01
3/ 5	64	42	53	2	2	30	.00	61	48	55	.11	0	2469	.05
3/ 6	53	38	46	-6	2	30	.00	55	44	50	.06	13	2040	.01
3/ 7	66	43	55	3	2	35	.00	63	44	54	.17	0	5369	.12
3/ 8	72	45	59	7	2	44	.00	66	47	57	.19	0	5292	.13
3/ 9	65	50	58	6	2	52	.61	58	51	55	.09	18	2083	.04
3/10	69	40	55	2	2	57	.05	64	49	57	.05	17	2256	.07
3/11	46	31	39	-14	2	57	Trace	50	41	46	.04	13	1241	.02
3/12	65	38	52	-1	2	59	.00	61	41	51	.24	1	5898	.13
3/13	64	49	57	3	2	66	.12	58	48	53	.06	12	1952	.04
3/14	61	35	48	-6	2	66	.00	64	44	54	.26	0	5865	.12
3/15	48	23	36	-18	2	66	.00	57	38	48	NA	0	6027	.09
3/16	47	26	37	-17	2	66	.00	55	38	47	NA	0	6342	.09
3/17	52	30	41	-14	2	66	.00	58	38	48	NA	0	6283	.10
3/18	63	36	50	-5	2	66	.06	63	40	52	.18	7	6108	.13
3/19	49	35	42	-13	2	66	.37	50	43	47	.04	24	698	.03
3/20	51	32	42	-14	2	66	.00	57	40	49	.16	0	5621	.08
3/21	66	37	52	-4	2	68	.00	62	40	51	.23	0	6264	.14
3/22	75	45	60	4	2	78	.00	67	45	56	.24	0	6252	.16
3/23	78	49	64	8	6	92	.00	71	49	60	.24	3	6046	.17
3/24	76	50	63	6	9	105	.00	72	53	63	.22	0	5672	.15
3/25	75	57	66	9	15	121	.00	70	55	63	.19	2	4457	.12
3/26	67	56	62	5	17	133	.60	61	57	59	.06	14	1108	.02
3/27	74	49	62	4	19	145	.07	68	51	60	.18	0	3645	.11
3/28	72	48	60	2	19	155	.00	69	49	59	.26	0	6650	.16
3/29	76	54	65	7	24	170	.00	71	49	60	.26	0	6484	.16
3/30	78	57	68	9	32	188	.00	72	54	63	.21	6	5456	.15
3/31	76	58	67	8	39	205	.00	71	58	65	.17	0	3837	.11

AIR TEMPERATURES:

Mean Maximum= 65.2      Mean Minimum= 43.0      Average= 54.1  
DFN= -1.2                      DFN= +.7                      DFN= -.3  
Highest= 78      Lowest= 23

PRECIPITATION STATISTICS:

Total= 3.00      DFN= -3.85      Greatest Daily= 1.12      Rain Days= 8

SOIL TEMPERATURES:

Highest= 72      Lowest= 38      Average= 55

AVERAGE DAILY VALUES:

Pan Evaporation= .16      Hours of Wet Vegetation= 4.9  
Solar Energy= 4436.2  
Average daily potential evapotranspiration (PET)= .10

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
MARCH

DAY	DAILY NORMAL			RECORD TEMPERATURES	
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR
1	62	38	50	81 1932	20 1941
2	62	38	50	82 1932	18 1980
3	63	39	51	82 1918	12 1980
4	63	39	51	81 1910	13 1943
5	63	39	51	84 1976	17 1960
6	63	40	52	82 1961	16 1960
7	64	40	52	83 1911	23 1920
8	64	40	52	84 1925	20 1920
9	64	40	52	86 1925	26 1932
10	65	41	53	87 1974	17 1932
11	65	41	53	86 1925	22 1934
12	65	41	53	85 1967	26 1969
13	65	42	54	89 1923	23 1932
14	66	42	54	84 1963	18 1926
15	66	42	54	82 1955	23 1988
16	66	42	54	84 1945	25 1916
17	67	43	55	89 1945	27 1924
18	67	43	55	87 1945	25 1941
19	67	43	55	86 1982	26 1960
20	68	43	56	89 1938	22 1923
21	68	44	56	87 1927	24 1960
22	68	44	56	85 1921	21 1960
23	68	44	56	84 1939	26 1955
24	69	44	57	89 1929	25 1968
25	69	45	57	86 1954	26 1983
26	69	45	57	87 1910	29 1979
27	70	45	58	89 1910	17 1955
28	70	46	58	84 1910	24 1955
29	70	46	58	85 1945	26 1955
30	71	46	59	86 1946	27 1964
31	71	46	59	84 1929	26 1950

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	78	61	70	11	10	20	.00	74	59	67	.10	1	4728	.13
4/ 2	72	59	66	6	16	36	.00	67	58	63	.11	6	1694	.05
4/ 3	70	61	66	6	22	52	.25	66	59	63	.03	14	2138	.05
4/ 4	70	60	65	5	27	67	.07	66	60	63	.04	18	1605	.04
4/ 5	80	54	67	6	34	84	.00	77	58	68	.21	9	5516	.16
4/ 6	86	61	74	13	48	108	.20	82	58	70	.26	7	6595	.19
4/ 7	69	46	58	-3	48	116	.00	72	51	62	.36	0	5628	.13
4/ 8	70	48	59	-2	48	125	.00	72	51	62	.40	0	7152	.17
4/ 9	77	48	63	1	51	138	.00	79	54	67	.25	0	6908	.18
4/10	76	50	63	1	54	151	.00	78	56	67	.19	0	6236	.17
4/11	80	55	68	6	62	169	.01	82	59	71	.22	7	6084	.17
4/12	62	39	51	-11	62	170	.65	66	51	59	.09	23	1852	.04
4/13	54	40	47	-16	62	170	Trace	61	50	56	.07	7	2845	.03
4/14	73	47	60	-3	62	180	.00	72	51	62	.20	10	6803	.17
4/15	77	52	65	2	67	195	.00	77	54	66	.23	5	6814	.18
4/16	80	47	64	0	71	209	.00	78	57	68	.21	0	6220	.18
4/17	69	47	58	-6	71	217	.00	76	56	66	.24	3	5314	.13
4/18	78	57	68	4	79	235	.26	81	56	69	.22	6	6653	.17
4/19	77	58	68	4	87	253	1.77	75	62	69	NA	14	4387	.12
4/20	66	44	55	-10	87	258	.00	71	51	61	.24	0	5042	.12
4/21	71	50	61	-4	88	269	.00	73	52	63	.21	0	7500	.18
4/22	79	56	68	3	96	287	.00	77	56	67	.24	7	6913	.18
4/23	74	61	68	3	104	305	.27	73	61	67	.11	19	3826	.10
4/24	74	65	70	4	114	325	.40	68	64	66	.06	22	751	.04
4/25	82	56	69	3	123	344	Trace	79	60	70	.30	3	6163	.18
4/26	69	56	63	-3	126	357	1.28	70	60	65	.12	20	3107	.08
4/27	67	52	60	-6	126	367	.00	70	58	64	.10	15	2792	.07
4/28	76	43	60	-7	126	377	.00	74	54	64	.27	2	6645	.18
4/29	69	42	56	-11	126	383	.00	72	53	63	.29	4	7660	.18
4/30	73	51	62	-5	128	395	.00	75	54	65	.24	0	7349	.18

AIR TEMPERATURES:

Mean Maximum= 73.3      Mean Minimum= 52.2      Average= 62.7  
DFN= -2.5                      DFN= +1.8                      DFN= -.4  
Highest= 86 Lowest= 39

PRECIPITATION STATISTICS:

Total= 5.16      DFN= -.15      Greatest Daily= 1.77      Rain Days= 10

SOIL TEMPERATURES:

Highest= 82 Lowest= 50 Average= 65

AVERAGE DAILY VALUES:

Pan Evaporation= .19      Hours of Wet Vegetation= 7.4  
Solar Energy= 5097.3  
Average daily potential evapotranspiration (PET)= .13



CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
APRIL

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	71	47	59	86	1974	25	1987
2	72	47	60	85	1986	30	1961
3	72	47	60	86	1945	32	1987
4	73	47	60	87	1934	27	1987
5	73	48	61	87	1934	28	1987
6	73	48	61	86	1988	29	1952
7	73	48	61	87	1967	29	1950
8	74	48	61	89	1919	33	1950
9	74	49	62	92	1927	35	1985
10	74	49	62	86	1978	32	1938
11	75	49	62	86	1930	28	1960
12	75	49	62	86	1930	33	1918
13	75	50	63	86	1945	27	1940
14	76	50	63	88	1945	30	1962
15	76	50	63	88	1972	31	1943
16	76	51	64	91	1925	29	1962
17	76	51	64	89	1914	31	1949
18	77	51	64	91	1955	34	1962
19	77	51	64	89	1955	28	1983
20	77	52	65	88	1927	32	1953
21	77	52	65	89	1946	32	1953
22	78	52	65	90	1987	38	1953
23	78	52	65	92	1987	33	1986
24	78	53	66	92	1925	38	1959
25	78	53	66	88	1960	34	1910
26	79	53	66	90	1924	36	1910
27	79	53	66	90	1986	38	1978
28	79	54	67	91	1986	40	1928
29	79	54	67	90	1943	40	1928
30	80	54	67	94	1942	43	1925

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
5/ 1	67	48	58	-10	0	8	.00	65	54	60	.15	0	2807	.07
5/ 2	75	49	62	-6	2	20	.00	78	55	67	.25	7	7533	.19
5/ 3	79	50	65	-3	7	35	.00	83	58	71	.25	0	7588	.20
5/ 4	76	54	65	-3	12	50	.00	80	60	70	.21	5	5913	.16
5/ 5	75	48	62	-7	14	62	.01	75	58	67	.16	5	4328	.13
5/ 6	72	49	61	-8	15	73	.00	81	58	70	.33	0	7666	.18
5/ 7	77	52	65	-4	20	88	.00	83	59	71	.38	0	7696	.20
5/ 8	81	55	68	-1	28	106	.00	88	62	75	.24	0	7390	.20
5/ 9	82	54	68	-1	36	124	.00	84	65	75	.27	3	5485	.17
5/10	78	61	70	0	46	144	Trace	81	65	73	.17	3	4457	.13
5/11	73	54	64	-6	50	158	.47	78	60	69	.16	11	4155	.11
5/12	81	57	69	-1	59	177	.00	83	61	72	.33	0	7688	.21
5/13	81	61	71	1	70	198	.07	85	63	74	.20	8	6130	.17
5/14	77	56	67	-4	77	215	.00	82	63	73	.18	10	4850	.14
5/15	83	58	71	0	88	236	.00	89	64	77	.21	7	7031	.20
5/16	87	63	75	4	103	261	.00	90	68	79	.24	6	6441	.20
5/17	86	63	75	4	118	286	.00	90	70	80	.22	4	5862	.18
5/18	86	57	72	1	130	308	.00	91	68	80	.40	0	7505	.22
5/19	82	59	71	-1	141	329	.00	92	69	81	.32	0	7628	.21
5/20	83	59	71	-1	152	350	.00	93	70	82	.35	0	7581	.21
5/21	85	58	72	0	164	372	.00	93	71	82	.30	0	7549	.22
5/22	87	60	74	2	178	396	.00	92	72	82	.31	2	6530	.20
5/23	81	66	74	1	192	420	Trace	85	71	78	.14	6	3753	.12
5/24	83	63	73	0	205	443	.03	90	69	80	.28	10	6006	.17
5/25	82	61	72	-1	217	465	.61	81	65	73	.20	20	2935	.11
5/26	76	54	65	-8	222	480	.00	76	59	68	.28	0	4780	.14
5/27	76	54	65	-8	227	495	.00	84	60	72	.31	0	7996	.20
5/28	78	52	65	-9	232	510	.00	89	63	76	.27	4	7907	.21
5/29	85	57	71	-3	243	531	.00	92	66	79	.28	4	7741	.22
5/30	88	60	74	0	257	555	.00	94	70	82	.30	0	7612	.23
5/31	89	63	76	2	273	581	.00	94	72	83	.28	0	6896	.21

AIR TEMPERATURES:

Mean Maximum= 80.4      Mean Minimum= 56.6      Average= 68.5  
DFN= -2.6      DFN= -1.8      DFN= -2.2  
Highest= 89 Lowest= 48

PRECIPITATION STATISTICS:

Total= 1.19      DFN= -3.04      Greatest Daily= .61      Rain Days= 5

SOIL TEMPERATURES:

Highest= 94 Lowest= 54 Average= 75

AVERAGE DAILY VALUES:

Pan Evaporation= .26      Hours of Wet Vegetation= 3.7  
Solar Energy= 6304.5  
Average daily potential evapotranspiration (PET)= .18

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
MAY

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	80	55	68	91	1942	38	1908
2	80	55	68	93	1927	38	1909
3	80	55	68	92	1948	42	1925
4	80	55	68	92	1930	40	1971
5	81	56	69	95	1930	43	1945
6	81	56	69	92	1952	43	1944
7	81	56	69	93	1952	37	1944
8	81	56	69	94	1952	38	1958
9	81	57	69	94	1922	37	1960
10	82	57	70	95	1922	39	1923
11	82	57	70	96	1916	46	1909
12	82	57	70	96	1916	42	1952
13	82	58	70	95	1962	35	1960
14	83	58	71	92	1962	40	1960
15	83	58	71	92	1944	44	1959
16	83	58	71	92	1963	44	1927
17	83	59	71	96	1962	41	1956
18	83	59	71	92	1963	47	1945
19	84	59	72	98	1962	48	1976
20	84	59	72	98	1962	48	1976
21	84	60	72	97	1962	43	1954
22	84	60	72	97	1962	45	1954
23	85	60	73	97	1908	52	1931
24	85	60	73	96	1941	47	1931
25	85	61	73	95	1956	47	1931
26	85	61	73	97	1941	43	1979
27	85	61	73	97	1916	43	1961
28	86	61	74	97	1941	44	1961
29	86	62	74	97	1941	46	1961
30	86	62	74	98	1937	43	1984
31	86	62	74	98	1911	42	1984

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
6/ 1	87	60	74	-1	14	24	.00	94	73	84	.34	0	8136	.23
6/ 2	89	64	77	2	31	51	.00	95	74	85	.28	0	6943	.21
6/ 3	92	65	79	4	50	80	.00	95	75	85	.34	0	6799	.22
6/ 4	92	61	77	2	67	107	.00	93	74	84	.35	0	5969	.21
6/ 5	75	58	67	-9	74	124	.00	87	70	79	.28	0	6646	.17
6/ 6	77	62	70	-6	84	144	.00	85	70	78	.28	0	5873	.15
6/ 7	82	67	75	-1	99	169	.22	87	71	79	.09	18	4887	.15
6/ 8	85	65	75	-1	114	194	.01	87	70	79	.17	11	4334	.15
6/ 9	91	67	79	3	133	223	.22	92	70	81	.30	11	5791	.19
6/10	90	58	74	-3	147	247	.00	87	67	77	.37	0	6194	.21
6/11	79	55	67	-10	154	264	.00	88	66	77	.36	0	6090	.17
6/12	81	56	69	-8	163	283	.00	90	67	79	.25	0	7279	.20
6/13	84	58	71	-6	174	304	.00	92	70	81	.31	0	7671	.22
6/14	84	59	72	-5	186	326	.00	92	71	82	.30	0	7669	.22
6/15	87	61	74	-3	200	350	.00	93	73	83	.30	0	7506	.22
6/16	88	63	76	-1	216	376	.00	93	74	84	.26	0	6829	.21
6/17	93	67	80	2	236	406	.00	95	76	86	.28	0	6524	.21
6/18	92	66	79	1	255	435	.00	93	75	84	.21	0	4933	.18
6/19	93	67	80	2	275	465	.00	95	76	86	.37	0	6914	.22
6/20	92	66	79	1	294	494	.12	95	71	83	.26	13	5900	.20
6/21	91	69	80	2	314	524	.00	97	73	85	.30	4	7020	.22
6/22	93	68	81	3	335	555	.00	98	77	88	.31	2	6765	.22
6/23	95	69	82	3	357	587	.00	99	79	89	.32	0	6700	.22
6/24	95	73	84	5	381	621	.00	99	80	90	.29	0	6162	.21
6/25	97	72	85	6	406	656	.00	97	80	89	.20	0	5463	.20
6/26	97	71	84	5	430	690	.02	97	80	89	.32	0	6756	.23
6/27	97	70	84	5	454	724	.97	94	73	84	.34	22	3503	.16
6/28	95	71	83	4	477	757	.00	88	73	81	.35	0	6598	.22
6/29	86	70	78	-1	495	785	.00	87	73	80	.22	3	4662	.15
6/30	92	74	83	4	518	818	.00	96	74	85	.28	6	6570	.21

AIR TEMPERATURES:

Mean Maximum= 89.0      Mean Minimum= 65.1      Average= 77.0  
DFN= +.0                      DFN= -.1                      DFN= -.1  
Highest= 97    Lowest= 55

PRECIPITATION STATISTICS:

Total= 1.56    DFN= -2.29    Greatest Daily= .97    Rain Days= 6

SOIL TEMPERATURES:

Highest= 99    Lowest= 66    Average= 83

AVERAGE DAILY VALUES:

Pan Evaporation= .29    Hours of Wet Vegetation= 3.0  
Solar Energy= 6302.9  
Average daily potential evapotranspiration (PET)= .20

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
JUNE

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	87	62	75	97	1953	46	1972
2	87	63	75	98	1953	51	1931
3	87	63	75	99	1911	39	1956
4	87	63	75	99	1936	54	1954
5	88	63	76	101	1936	47	1954
6	88	64	76	100	1985	53	1954
7	88	64	76	102	1933	54	1926
8	88	64	76	99	1933	51	1955
9	88	64	76	99	1963	54	1977
10	89	64	77	99	1954	52	1913
11	89	65	77	100	1920	52	1913
12	89	65	77	101	1963	54	1960
13	89	65	77	98	1958	54	1985
14	89	65	77	101	1963	53	1985
15	89	65	77	102	1963	56	1983
16	89	65	77	103	1963	57	1960
17	89	66	78	100	1944	57	1961
18	90	66	78	104	1944	57	1961
19	90	66	78	107	1933	58	1961
20	90	66	78	106	1933	57	1965
21	90	66	78	106	1933	56	1985
22	90	66	78	102	1930	58	1976
23	90	67	79	102	1944	54	1972
24	90	67	79	104	1930	55	1972
25	90	67	79	102	1914	55	1972
26	90	67	79	103	1914	57	1940
27	90	67	79	102	1954	59	1974
28	90	67	79	104	1954	56	1958
29	90	67	79	105	1954	58	1961
30	90	67	79	101	1978	55	1923

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
7/ 1	90	71	81	2	21	31	.00	92	77	85	.29	0	4707	.16
7/ 2	86	70	78	-1	39	59	2.18	NA	NA	85	NA	6	5848	.18
7/ 3	85	70	78	-1	57	87	2.28	NA	NA	85	NA	24	3081	.12
7/ 4	79	69	74	-5	71	111	.05	82	77	80	.28	20	2245	.08
7/ 5	83	67	75	-4	86	136	4.10	84	74	79	NA	16	3779	.13
7/ 6	80	67	74	-5	100	160	.00	78	68	73	.08	5	3212	.11
7/ 7	82	65	74	-5	114	184	.00	82	68	75	NA	2	5696	.16
7/ 8	86	62	74	-5	128	208	.00	85	69	77	.28	6	7693	.22
7/ 9	89	68	79	0	147	237	.00	89	70	80	.26	7	6813	.21
7/10	90	72	81	2	168	268	.00	90	74	82	.24	14	6130	.19
7/11	85	71	78	-1	186	296	Trace	87	75	81	.17	13	6581	.19
7/12	84	69	77	-2	203	323	.12	87	74	81	.10	NA	3199	.12
7/13	86	71	79	-1	222	352	.05	87	74	81	.08	NA	4381	.14
7/14	85	73	79	-1	241	381	.00	88	75	82	.19	NA	4841	.15
7/15	90	72	81	1	262	412	.20	95	77	86	.27	NA	5814	.19
7/16	92	69	81	1	283	443	.13	93	75	84	.34	NA	5793	.19
7/17	85	69	77	-3	300	470	1.46	89	74	82	.34	NA	6241	.18
7/18	89	71	80	0	320	500	.00	92	77	85	.26	NA	6563	.20
7/19	87	69	78	-2	338	528	.15	91	75	83	.22	NA	5715	.18
7/20	87	69	78	-2	356	556	.01	88	75	82	.24	12	5555	.17
7/21	88	71	80	0	376	586	.00	90	76	83	.26	8	6443	.19
7/22	87	71	79	-1	395	615	.36	89	75	82	.19	22	4594	.15
7/23	84	67	76	-4	411	641	.02	87	74	81	.14	11	3687	.13
7/24	85	66	76	-4	427	667	.00	89	73	81	.23	12	6060	.18
7/25	87	65	76	-4	443	693	.00	90	73	82	.28	10	6585	.20
7/26	88	68	78	-2	461	721	.00	94	74	84	.27	7	6579	.20
7/27	83	68	76	-4	477	747	.00	89	75	82	.18	12	4863	.15
7/28	87	69	78	-2	495	775	.00	95	76	86	.23	10	5930	.18
7/29	89	68	79	-1	514	804	.00	98	78	88	.21	10	5827	.19
7/30	90	70	80	0	534	834	.00	102	79	91	.24	11	6856	.21
7/31	92	72	82	2	556	866	.00	99	81	90	.25	8	5928	.19

AIR TEMPERATURES:

Mean Maximum= 86.5      Mean Minimum= 69.0      Average= 77.7  
DFN= -4.2      DFN= +.5      DFN= -1.8  
Highest= 92    Lowest= 62

PRECIPITATION STATISTICS:

Total= 11.11    DFN= +5.37    Greatest Daily= 4.10    Rain Days= 13

SOIL TEMPERATURES:

Highest= 102    Lowest= 68    Average= 82

AVERAGE DAILY VALUES:

Pan Evaporation= .23    Hours of Wet Vegetation= 10.7  
Solar Energy= 5394.8  
Average daily potential evapotranspiration (PET)= .17

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
JULY

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	90	67	79	102	1954	56	1958
2	90	68	79	102	1954	59	1924
3	90	68	79	101	1925	61	1924
4	90	68	79	99	1954	63	1947
5	90	68	79	100	1930	59	1922
6	90	68	79	101	1930	60	1972
7	90	68	79	103	1930	62	1955
8	90	68	79	105	1930	62	1988
9	90	68	79	105	1930	58	1983
10	90	68	79	107	1930	57	1947
11	90	68	79	108	1930	56	1963
12	90	68	79	107	1930	60	1953
13	91	68	80	103	1930	61	1947
14	91	68	80	102	1939	59	1967
15	91	69	80	103	1980	54	1967
16	91	69	80	102	1932	57	1926
17	91	69	80	100	1980	61	1926
18	91	69	80	103	1939	61	1926
19	91	69	80	104	1939	59	1923
20	91	69	80	99	1942	63	1987
21	91	69	80	101	1934	62	1923
22	91	69	80	101	1986	57	1947
23	91	69	80	100	1930	59	1947
24	91	69	80	105	1952	64	1963
25	91	69	80	106	1952	63	1947
26	91	69	80	105	1952	63	1911
27	91	69	80	99	1944	62	1911
28	91	69	80	100	1952	63	1911
29	91	69	80	103	1952	62	1924
30	91	69	80	103	1952	62	1924
31	91	69	80	99	1921	61	1936

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD			PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	MAX		MIN	MEAN					
8/ 1	91	71	81	1	21	31	.00	99	82	91	.26	5	6113	.19	
8/ 2	94	71	83	3	44	64	.01	101	82	92	.29	5	6284	.21	
8/ 3	90	71	81	1	65	95	.00	101	82	92	.24	4	5792	.18	
8/ 4	92	70	81	1	86	126	.04	99	79	89	.23	10	4998	.18	
8/ 5	90	70	80	0	106	156	.00	100	80	90	.29	9	6734	.20	
8/ 6	90	70	80	0	126	186	.00	100	82	91	.28	7	6533	.20	
8/ 7	90	70	80	0	146	216	.00	98	82	90	.23	8	5491	.18	
8/ 8	90	71	81	1	167	247	.00	100	82	91	.27	11	5912	.19	
8/ 9	90	73	82	2	189	279	.00	100	83	92	.20	8	5430	.18	
8/10	90	70	80	0	209	309	.01	100	83	92	.23	12	5051	.17	
8/11	93	73	83	3	232	342	.00	103	83	93	.29	0	6337	.20	
8/12	90	73	82	2	254	374	.00	99	84	92	.24	3	5371	.17	
8/13	90	72	81	1	275	405	.00	101	84	93	.30	0	6149	.19	
8/14	91	71	81	1	296	436	.00	101	84	93	.28	0	6102	.19	
8/15	89	72	81	1	317	467	.09	96	81	89	.23	5	5216	.17	
8/16	87	71	79	-1	336	496	.01	93	80	87	.11	8	3795	.13	
8/17	91	71	81	1	357	527	.98	99	78	89	.34	17	5309	.18	
8/18	89	71	80	0	377	557	.00	94	79	87	.27	15	6313	.19	
8/19	93	72	83	4	400	590	.00	99	80	90	.28	12	6297	.20	
8/20	89	73	81	2	421	621	.26	94	79	87	.21	9	4693	.16	
8/21	88	73	81	2	442	652	1.48	90	78	84	NA	22	4476	.15	
8/22	87	73	80	1	462	682	.87	89	78	84	NA	14	3570	.13	
8/23	90	72	81	2	483	713	.06	94	78	86	.24	15	6065	.19	
8/24	89	72	81	2	504	744	.00	93	79	86	.21	18	5317	.17	
8/25	83	70	77	-2	521	771	.21	86	75	81	.12	13	2772	.10	
8/26	88	66	77	-2	538	798	.00	91	74	83	.29	10	6635	.20	
8/27	88	67	78	-1	556	826	.00	90	75	83	.23	8	3306	.13	
8/28	89	69	79	0	575	855	.00	93	76	85	.23	9	6008	.19	
8/29	87	69	78	-1	593	883	.00	94	77	86	.22	11	5905	.18	
8/30	89	71	80	2	613	913	.01	94	78	86	.14	13	4871	.16	
8/31	84	69	77	-1	630	940	.03	90	76	83	.12	15	3550	.12	

AIR TEMPERATURES:

Mean Maximum= 89.4      Mean Minimum= 70.9      Average= 80.1  
DFN= -1.1      DFN= +3.0      DFN= +.9  
Highest= 94    Lowest= 66

PRECIPITATION STATISTICS:

Total= 4.06    DFN= +.47    Greatest Daily= 1.48    Rain Days= 13

SOIL TEMPERATURES:

Highest= 103    Lowest= 74    Average= 88

AVERAGE DAILY VALUES:

Pan Evaporation= .24    Hours of Wet Vegetation= 9.5  
Solar Energy= 5367.6  
Average daily potential evapotranspiration (PET)= .17



CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
AUGUST

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	91	69	80	100	1986	62	1936
2	91	69	80	101	1987	59	1925
3	91	69	80	99	1987	63	1965
4	91	69	80	100	1935	60	1923
5	91	69	80	103	1935	59	1950
6	91	68	80	101	1947	57	1948
7	91	68	80	100	1980	60	1948
8	91	68	80	99	1956	61	1948
9	91	68	80	99	1937	60	1976
10	91	68	80	103	1980	60	1908
11	91	68	80	100	1956	61	1954
12	91	68	80	100	1956	61	1931
13	91	68	80	102	1954	59	1979
14	91	68	80	103	1954	59	1979
15	91	68	80	102	1954	58	1963
16	91	68	80	99	1954	61	1983
17	91	68	80	102	1954	62	1979
18	91	68	80	101	1954	60	1948
19	90	68	79	103	1925	63	1976
20	90	68	79	106	1925	60	1961
21	90	68	79	99	1983	58	1927
22	90	68	79	100	1983	58	1961
23	90	68	79	99	1938	59	1931
24	90	67	79	103	1938	58	1953
25	90	67	79	104	1938	58	1953
26	90	67	79	103	1943	59	1952
27	90	67	79	103	1938	56	1952
28	90	67	79	101	1954	56	1952
29	90	67	79	101	1954	57	1968
30	89	67	78	99	1951	56	1986
31	89	67	78	100	1954	56	1946

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE			DFN	GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG		B60	B50		MAX	MIN	MEAN				
9/ 1	77	70	74	-4	14	24	Trace	84	76	80	.17	14	2597	.08
9/ 2	78	67	73	-5	27	47	Trace	86	76	81	.17	5	3280	.10
9/ 3	76	67	72	-6	39	69	.01	85	76	81	.09	14	2690	.08
9/ 4	84	69	77	-1	56	96	1.96	88	75	82	.19	20	2855	.10
9/ 5	73	60	67	-11	63	113	2.58	77	70	74	NA	21	755	.04
9/ 6	79	59	69	-8	72	132	.00	86	69	78	NA	11	6445	.17
9/ 7	77	57	67	-10	79	149	.00	84	66	75	.27	2	6451	.17
9/ 8	75	58	67	-10	86	166	.00	79	65	72	.14	6	3823	.10
9/ 9	74	60	67	-10	93	183	.12	78	65	72	.17	19	4814	.12
9/10	69	66	68	-9	101	201	.98	73	69	71	.14	24	1023	.02
9/11	74	68	71	-5	112	222	.13	75	69	72	.03	24	973	.03
9/12	85	72	79	3	131	251	.00	86	73	80	.13	18	3884	.12
9/13	86	70	78	2	149	279	.00	89	74	82	.18	24	4635	.15
9/14	86	69	78	2	167	307	.00	89	75	82	.15	24	4662	.15
9/15	89	74	82	6	189	339	.00	91	75	83	.19	24	4973	.16
9/16	87	73	80	5	209	369	.53	87	76	82	.15	18	3798	.13
9/17	76	72	74	-1	223	393	.81	79	75	77	.09	24	1088	.04
9/18	82	70	76	1	239	419	.01	83	75	79	.07	24	2015	.08
9/19	77	65	71	-3	250	440	.00	83	70	77	.10	24	2476	.08
9/20	83	66	75	1	265	465	.00	86	71	79	.14	23	4230	.13
9/21	88	70	79	5	284	494	.00	90	76	83	.18	19	4658	.15
9/22	88	62	75	1	299	519	.00	89	70	80	.26	18	5022	.17
9/23	87	67	77	4	316	546	.00	88	70	79	.20	19	5516	.17
9/24	89	70	80	7	336	576	.00	91	74	83	.19	17	5001	.16
9/25	86	69	78	5	354	604	.00	90	75	83	.15	17	3816	.13
9/26	87	65	76	4	370	630	.00	91	74	83	.20	18	4270	.14
9/27	84	65	75	3	385	655	.00	91	74	83	.17	14	4436	.14
9/28	72	61	67	-5	392	672	.00	80	70	75	.07	13	1691	.05
9/29	79	65	72	1	404	694	.00	91	70	81	.17	6	4769	.13
9/30	83	67	75	4	419	719	.00	92	73	83	.16	12	4243	.13

AIR TEMPERATURES:

Mean Maximum= 81.0      Mean Minimum= 66.4      Average= 73.7  
DFN= -5.1      DFN= +2.7      DFN= -1.2  
Highest= 89    Lowest= 57

PRECIPITATION STATISTICS:

Total= 7.13    DFN= +2.81    Greatest Daily= 2.58    Rain Days= 9

SOIL TEMPERATURES:

Highest= 92    Lowest= 65    Average= 79

AVERAGE DAILY VALUES:

Pan Evaporation= .15    Hours of Wet Vegetation= 17.2  
Solar Energy= 3696.3  
Average daily potential evapotranspiration (PET)= .11

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
SEPTEMBER

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	89	67	78	97	1957	57	1954
2	89	67	78	100	1957	56	1967
3	89	67	78	100	1957	56	1952
4	89	67	78	104	1925	54	1952
5	89	66	78	108	1925	55	1934
6	88	66	77	103	1925	57	1984
7	88	66	77	103	1925	55	1952
8	88	66	77	103	1925	57	1934
9	88	66	77	104	1925	58	1958
10	88	66	77	100	1954	50	1924
11	87	65	76	98	1954	50	1924
12	87	65	76	101	1927	44	1940
13	87	65	76	98	1962	50	1917
14	87	65	76	99	1927	52	1953
15	87	64	76	102	1927	51	1985
16	86	64	75	103	1927	49	1961
17	86	64	75	103	1927	49	1961
18	86	63	75	100	1931	48	1981
19	85	63	74	99	1931	45	1981
20	85	63	74	101	1925	48	1981
21	85	62	74	97	1925	45	1918
22	85	62	74	98	1955	44	1983
23	84	62	73	98	1940	45	1983
24	84	61	73	98	1921	46	1982
25	84	61	73	97	1979	46	1928
26	83	60	72	96	1923	49	1940
27	83	60	72	96	1933	44	1940
28	83	60	72	95	1954	40	1967
29	82	59	71	96	1954	39	1967
30	82	59	71	94	1933	38	1967

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	79	66	73	3	13	23	.00	86	73	80	.14	12	2872	.09
10/ 2	79	65	72	3	25	45	.85	88	73	81	.20	19	2995	.09
10/ 3	73	66	70	1	35	65	.24	78	72	75	.04	24	1403	.04
10/ 4	72	55	64	-5	39	79	.01	77	64	71	.07	24	1613	.05
10/ 5	71	48	60	-8	39	89	.00	75	58	67	.16	2	3384	.09
10/ 6	69	45	57	-11	39	96	.00	76	56	66	.22	0	5276	.12
10/ 7	68	47	58	-10	39	104	.00	74	56	65	.14	0	4437	.10
10/ 8	68	44	56	-11	39	110	.00	74	55	65	.17	0	4507	.10
10/ 9	64	41	53	-14	39	113	.00	73	55	64	.12	0	3145	.07
10/10	64	49	57	-10	39	120	.00	73	55	64	.13	0	4098	.08
10/11	68	44	56	-10	39	126	.00	77	58	68	.11	0	4156	.10
10/12	70	48	59	-7	39	135	.00	79	58	69	.17	0	4650	.11
10/13	67	40	54	-11	39	139	.00	79	55	67	.22	0	5148	.12
10/14	61	40	51	-14	39	140	.00	76	54	65	.14	0	5099	.10
10/15	65	41	53	-12	39	143	.00	77	54	66	.14	0	5017	.11
10/16	69	46	58	-6	39	151	.00	79	55	67	.12	0	4864	.11
10/17	74	51	63	-1	42	164	.00	79	59	69	.12	0	4158	.11
10/18	77	52	65	2	47	179	.00	84	62	73	.07	0	4573	.13
10/19	76	57	67	4	54	196	.00	79	64	72	.14	0	3465	.10
10/20	71	45	58	-5	54	204	.00	78	59	69	.18	NA	3010	.08
10/21	69	49	59	-3	54	213	.53	76	59	68	.13	NA	3535	.08
10/22	65	44	55	-7	54	218	.01	69	56	63	.02	14	1543	.03
10/23	67	38	53	-9	54	221	.00	70	53	62	.17	12	4597	.11
10/24	71	46	59	-2	54	230	.03	72	53	63	.18	10	4453	.11
10/25	67	39	53	-8	54	233	.00	73	53	63	.19	19	4553	.10
10/26	70	44	57	-4	54	240	.00	74	53	64	.16	7	4427	.11
10/27	70	51	61	1	55	251	Trace	70	56	63	.09	16	2442	.06
10/28	74	54	64	4	59	265	.00	76	59	68	.12	14	3799	.10
10/29	75	57	66	6	65	281	.00	77	61	69	.11	18	3284	.09
10/30	72	52	62	3	67	293	.00	75	61	68	.10	5	2150	.06
10/31	66	52	59	0	67	302	.00	72	61	67	.09	1	1973	.04

AIR TEMPERATURES:

Mean Maximum= 70.0      Mean Minimum= 48.9      Average= 59.5  
DFN= -6.6      DFN= -2.6      DFN= -4.6  
Highest= 79 Lowest= 38

PRECIPITATION STATISTICS:

Total= 1.67      DFN= -1.16      Greatest Daily= .85      Rain Days= 6

SOIL TEMPERATURES:

Highest= 88 Lowest= 53 Average= 68

AVERAGE DAILY VALUES:

Pan Evaporation= .13      Hours of Wet Vegetation= 6.8  
Solar Energy= 3697.6  
Average daily potential evapotranspiration (PET)= .09

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
OCTOBER

DAY	DAILY NORMAL			RECORD TEMPERATURES		
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR	
1	82	58	70	94	1954	42 1920
2	81	57	69	93	1954	39 1920
3	81	57	69	93	1911	40 1974
4	81	57	69	94	1941	41 1987
5	80	56	68	95	1954	41 1987
6	80	56	68	98	1954	42 1932
7	80	55	68	97	1954	38 1932
8	79	55	67	94	1941	39 1987
9	79	54	67	97	1916	40 1951
10	79	54	67	90	1938	40 1915
11	78	53	66	94	1923	36 1906
12	78	53	66	90	1954	38 1906
13	78	52	65	89	1919	38 1977
14	77	52	65	91	1916	36 1977
15	77	52	65	90	1954	34 1978
16	77	51	64	89	1941	34 1954
17	76	51	64	88	1962	33 1954
18	76	50	63	88	1962	33 1948
19	76	50	63	90	1938	34 1948
20	75	50	63	90	1943	33 1961
21	75	49	62	89	1941	34 1913
22	75	49	62	92	1941	34 1961
23	74	49	62	92	1941	36 1924
24	74	48	61	90	1927	29 1917
25	74	48	61	90	1931	30 1962
26	73	48	61	90	1940	29 1962
27	73	47	60	91	1940	30 1957
28	72	47	60	88	1940	27 1957
29	72	47	60	88	1940	29 1952
30	72	46	59	87	1940	25 1952
31	71	46	59	88	1940	28 1954

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	52	45	49	-10	0	0	.32	63	55	59	.01	24	417	.00
11/ 2	63	39	51	-7	0	1	.00	66	51	59	.04	24	2510	.05
11/ 3	73	43	58	0	0	9	.00	69	51	60	.15	24	4084	.11
11/ 4	75	49	62	4	2	21	.00	73	55	64	.15	24	3544	.10
11/ 5	68	56	62	4	4	33	1.94	68	59	64	.19	24	1537	.03
11/ 6	67	41	54	-3	4	37	.00	68	51	60	.18	24	3778	.09
11/ 7	61	34	48	-9	4	37	.00	62	48	55	.15	16	4069	.08
11/ 8	67	37	52	-5	4	39	.03	65	48	57	.17	12	3980	.09
11/ 9	66	53	60	4	4	49	.52	64	56	60	.05	24	1044	.02
11/10	73	53	63	7	7	62	.01	70	60	65	.05	24	1408	.05
11/11	72	46	59	3	7	71	Trace	68	54	61	.05	24	1512	.05
11/12	64	48	56	0	7	77	.00	67	52	60	.22	0	3770	.07
11/13	67	50	59	4	7	86	.28	65	52	59	.22	13	3457	.07
11/14	60	46	53	-2	7	89	.00	64	55	60	.04	24	1438	.01
11/15	70	52	61	6	8	100	.00	67	55	61	.06	24	1933	.05
11/16	75	56	66	12	14	116	.00	71	60	66	.08	0	2364	.07
11/17	73	46	60	6	14	126	.32	68	58	63	.06	14	1229	.05
11/18	62	43	53	-1	14	129	.00	67	49	58	.19	0	3665	.06
11/19	68	45	57	4	14	136	.00	64	49	57	.21	0	3226	.07
11/20	68	58	63	10	17	149	.40	65	58	62	.08	12	1101	.02
11/21	70	37	54	1	17	153	.05	70	51	61	.14	0	2898	.08
11/22	59	39	49	-3	17	153	.00	62	50	56	.13	0	3047	.04
11/23	53	45	49	-3	17	153	.00	56	50	53	.10	0	1229	.00
11/24	61	41	51	-1	17	154	.00	61	49	55	.03	6	1651	.02
11/25	66	44	55	3	17	159	.00	65	49	57	.10	10	3500	.07
11/26	65	49	57	6	17	166	.00	66	52	59	.11	0	2695	.05
11/27	69	57	63	12	20	179	1.50	64	56	60	.20	11	978	.02
11/28	58	38	48	-3	20	179	1.63	61	50	56	NA	11	259	.03
11/29	52	30	41	-9	20	179	.00	58	43	51	.10	0	3547	.04
11/30	58	33	46	-4	20	179	.00	59	43	51	.10	8	3512	.06

AIR TEMPERATURES:

Mean Maximum= 65.2      Mean Minimum= 45.1      Average= 55.1  
DFN= -1.3                      DFN= +3.3                      DFN= +1.0  
Highest= 75    Lowest= 30

PRECIPITATION STATISTICS:

Total= 7.00    DFN= +3.58    Greatest Daily= 1.94    Rain Days= 11

SOIL TEMPERATURES:

Highest= 73    Lowest= 43    Average= 59

AVERAGE DAILY VALUES:

Pan Evaporation= .12    Hours of Wet Vegetation= 12.6  
Solar Energy= 2446.1  
Average daily potential evapotranspiration (PET)= .05

## CLIMATOLOGICAL DATA

## AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
NOVEMBER

DAY	DAILY NORMAL			RECORD TEMPERATURES		
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR	
1	71	46	59	90	1935	31 1930
2	71	45	58	90	1935	28 1963
3	70	45	58	88	1935	19 1954
4	70	45	58	84	1961	26 1954
5	70	45	58	84	1946	25 1982
6	69	44	57	89	1920	28 1962
7	69	44	57	90	1920	27 1959
8	69	44	57	85	1934	28 1951
9	69	43	56	84	1934	27 1951
10	68	43	56	83	1934	24 1956
11	68	43	56	82	1945	26 1926
12	68	43	56	83	1938	26 1968
13	67	42	55	82	1938	25 1963
14	67	42	55	84	1924	24 1963
15	67	42	55	82	1955	18 1969
16	66	42	54	81	1951	18 1940
17	66	41	54	83	1921	26 1943
18	66	41	54	83	1958	21 1951
19	65	41	53	83	1942	22 1951
20	65	41	53	82	1942	16 1914
21	65	40	53	80	1943	21 1937
22	64	40	52	80	1913	22 1937
23	64	40	52	78	1963	18 1956
24	64	40	52	79	1931	16 1970
25	64	39	52	80	1921	9 1950
26	63	39	51	80	1973	9 1950
27	63	39	51	78	1973	21 1950
28	63	39	51	79	1908	21 1938
29	62	38	50	78	1960	17 1955
30	62	38	50	79	1970	16 1959

All temperatures are in degrees Fahrenheit.  
 Normals are based on the period 1951-80.  
 Records begin with 1906 data.

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn University, Alabama

Daily Weather Observations: Auburn  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	58	31	45	-5	0	0	.00	55	42	49	.04	3	1488	.02
12/ 2	55	28	42	-8	0	0	.00	56	40	48	NA	4	3402	.05
12/ 3	52	26	39	-11	0	0	.00	55	39	47	NA	5	3456	.04
12/ 4	61	31	46	-3	0	0	.00	56	39	48	.10	5	3441	.07
12/ 5	64	35	50	1	0	0	.00	58	42	50	.14	0	3258	.07
12/ 6	59	34	47	-2	0	0	.00	58	42	50	.07	12	3244	.05
12/ 7	62	35	49	0	0	0	.00	59	43	51	.08	13	3128	.06
12/ 8	66	41	54	5	0	4	.00	60	46	53	.04	17	2219	.05
12/ 9	67	46	57	8	0	11	.22	62	48	55	.10	10	2465	.05
12/10	51	30	41	-7	0	11	.05	57	41	49	.03	7	1390	.00
12/11	47	31	39	-9	0	11	.15	50	41	46	.05	11	1328	.00
12/12	39	33	36	-12	0	11	.07	47	41	44	.02	11	473	.00
12/13	38	22	30	-18	0	11	Trace	46	37	42	NA	2	1421	.00
12/14	52	23	38	-10	0	11	.00	50	37	44	NA	7	3423	.04
12/15	61	28	45	-2	0	11	.00	54	38	46	.08	4	2990	.06
12/16	58	34	46	-1	0	11	.30	56	46	51	.02	17	1278	.01
12/17	44	21	33	-14	0	11	.00	54	38	46	NA	0	3157	.01
12/18	43	21	32	-15	0	11	.00	47	37	42	NA	0	3300	.01
12/19	44	22	33	-14	0	11	.00	47	37	42	NA	0	3291	.01
12/20	57	27	42	-4	0	11	.00	51	37	44	NA	4	3155	.05
12/21	63	39	51	5	0	12	.00	54	39	47	.04	8	2155	.04
12/22	63	47	55	9	0	17	Trace	55	46	51	.04	11	1138	.01
12/23	71	54	63	17	3	30	.00	62	52	57	.09	4	2199	.05
12/24	67	55	61	15	4	41	.00	62	55	59	.02	14	3749	.07
12/25	71	43	57	11	4	48	.05	63	51	57	.08	14	3351	.08
12/26	61	39	50	5	4	48	.00	61	44	53	.15	0	3235	.05
12/27	63	40	52	7	4	50	.00	58	44	51	.15	0	3215	.06
12/28	69	43	56	11	4	56	.00	61	46	54	.08	12	3100	.07
12/29	64	26	45	0	4	56	.12	58	41	50	NA	0	1158	.03
12/30	55	26	41	-4	4	56	.00	55	40	48	NA	0	3160	.04
12/31	55	47	51	6	4	57	1.27	54	49	52	NA	24	613	.00

AIR TEMPERATURES:

Mean Maximum= 57.4      Mean Minimum= 34.1      Average= 45.8  
DFN= -1.0                      DFN= -1.6                      DFN= -1.3  
Highest= 71      Lowest= 21

PRECIPITATION STATISTICS:

Total= 2.23      DFN= -3.25      Greatest Daily= 1.27      Rain Days= 8

SOIL TEMPERATURES:

Highest= 63      Lowest= 37      Average= 49

AVERAGE DAILY VALUES:

Pan Evaporation= .07      Hours of Wet Vegetation= 7.1  
Solar Energy= 2528.4  
Average daily potential evapotranspiration (PET)= .04



CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
DECEMBER

DAY	DAILY NORMAL			RECORD TEMPERATURES		
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR	
1	62	38	50	80	1933	19 1957
2	62	38	50	79	1982	23 1944
3	61	38	50	78	1982	17 1960
4	61	37	49	78	1933	20 1929
5	61	37	49	76	1961	24 1960
6	60	37	49	81	1924	20 1937
7	60	37	49	77	1951	13 1937
8	60	37	49	78	1978	19 1984
9	60	37	49	77	1956	11 1917
10	59	36	48	78	1972	18 1917
11	59	36	48	79	1918	20 1934
12	59	36	48	80	1971	11 1962
13	59	36	48	81	1926	-1 1962
14	59	36	48	76	1925	0 1962
15	58	36	47	76	1984	15 1962
16	58	36	47	81	1971	14 1951
17	58	35	47	78	1933	14 1960
18	58	35	47	80	1924	15 1953
19	58	35	47	84	1924	12 1963
20	57	35	46	74	1931	12 1963
21	57	35	46	75	1971	17 1981
22	57	35	46	76	1923	12 1960
23	57	35	46	75	1922	12 1960
24	57	35	46	77	1964	19 1983
25	57	35	46	75	1926	3 1983
26	56	34	45	77	1911	5 1983
27	56	34	45	76	1987	7 1983
28	56	34	45	74	1937	9 1925
29	56	34	45	77	1984	15 1925
30	56	34	45	75	1923	12 1983
31	56	34	45	77	1923	12 1983

All temperatures are in degrees Fahrenheit.  
Normals are based on the period 1951-80.  
Records begin with 1906 data.

CLIMATOLOGICAL DATA  
AUBURN, ALABAMA  
NORMALS, MEANS AND EXTREMES

MONTH	TEMPERATURE				MEAN NO OF MEAN NUMBER OF DAYS				RAINFALL										
	NORMALS		EXTREMES		DEGREE MAXIMUM TEMP.		MINIMUM TEMP.		NORMAL	MAXIMUM	MINIMUM	24 HOUR							
	MAX	MIN	MEAN	HIGH	YEAR	LOW	YEAR	BASE-65	90 OR	32 OR	32 OR	0 OR	TOTAL	TOTAL	YEAR	TOTAL	YEAR	MAX	YEAR
								DEGREES	ABOVE	BELOW	BELOW	BELOW							
JAN.	55.5	33.7	44.6	82	1975	-7	1985	641	0	0	11	0	5.14	12.09	1936	.49	1927	5.23	1912
FEB.	59.1	35.3	47.2	82	1962	8	1958	505	0	0	8	0	5.34	17.61	1961	1.50	1943	7.83	1961
MAR.	66.4	42.3	54.4	89	1923	12	1980	344	0	0	4	0	6.85	17.47	1929	.30	1918	5.06	1944
APR.	75.8	50.4	63.1	94	1942	25	1987	118	0	0	0	0	5.31	18.07	1964	.50	1915	5.60	1981
MAY	83.0	58.4	70.7	98	1962	35	1960	15	5	0	0	0	4.23	10.33	1915	.36	1914	4.53	1915
JUNE	89.0	65.2	77.1	107	1933	39	1956	0	15	0	0	0	3.85	8.64	1909	.57	1931	3.64	1928
JULY	90.6	68.5	79.6	108	1930	54	1967	0	18	0	0	0	5.74	15.73	1916	1.39	1914	7.00	1948
AUG.	90.5	67.9	79.2	106	1925	56	1952	0	18	0	0	0	3.59	11.03	1944	.01	1925	3.73	1939
SEPT.	86.1	63.7	74.9	108	1925	38	1967	0	11	0	0	0	4.32	13.13	1965	.36	1919	7.27	1965
OCT.	76.6	51.5	64.1	98	1954	25	1952	102	1	0	0	0	2.83	8.41	1970	.00	1963	3.55	1906
NOV.	66.5	41.8	54.2	90	1935	9	1950	331	0	0	4	0	3.42	17.77	1948	.23	1924	7.05	1948
DEC.	58.4	35.7	47.1	84	1924	-1	1962	555	0	0	10	0	5.48	14.27	1953	.82	1955	6.22	1953
YEAR	74.8	51.2	63.0	108	1930	-7	1985	2611	68	0	37	0	56.10	82.95	1975	28.44	1954	7.83	1961

TEMPERATURE IN DEG. F; RAINFALL IN INCHES; NORMALS BASED ON 1951-80 DATA. MEANS AND EXTREMES BEGIN WITH 1906 DATA.

MONTHLY AND ANNUAL SUMMARY

MONTH	5-FOOT SHELTER TEMPERATURES (DEG F)				MAXIMUM AND MINIMUM TEMPERATURES				DEGREE DAYS BELOW 65		PRECIPITATION TOTAL		OPEN PAN EVAPORATION	SUNSHINE AND RADIATION	
	MAX	MIN	MEAN	DFN*	90 OR ABOVE	32 OR BELOW	DAYS	DFN*	DAYS	DFN*	WATER EQUIVALENT (IN.)	DFN*	TOTAL (IN.)	MINS. OF SUNSHINE	SOLAR RADIATION LANGLEYS**
					DAYS	DAYS									
JAN.	49.1	30.4	39.7	-4.9	0	0	21	10	774	133	5.84	.70	.63	7974	6460
FEB.	56.3	33.9	45.1	-2.1	0	0	15	7	570	65	3.79	-1.55	2.08	10313	8764
MAR.	65.2	43.0	54.1	-.3	0	0	5	1	335	-9	3.00	-3.85	4.56	12774	11777
APR.	73.3	52.2	62.7	-.4	0	0	0	0	100	-18	5.16	-.15	5.61	13505	12984
MAY	80.4	56.6	68.5	-2.2	0	-5	0	0	18	3	1.19	-3.04	7.96	19795	17265
JUNE	89.0	65.1	77.0	-.1	17	2	0	0	0	0	1.56	-2.29	8.60	18150	15966
JULY	86.5	69.0	77.7	-1.9	6	-12	0	0	0	0	11.11	5.37	6.11	7412	14503
AUG.	89.4	70.9	80.1	.9	17	-1	0	0	0	0	4.06	.47	6.84	9185	14007
SEPT.	81.0	66.4	73.7	-1.2	0	-11	0	0	0	0	7.13	2.81	4.31	7396	9560
OCT.	70.0	48.9	59.5	-4.6	0	-1	0	0	186	84	1.67	-1.16	4.13	9980	9847
NOV.	65.2	45.1	55.1	.9	0	0	1	-3	292	-39	7.00	3.58	3.36	5248	6402
DEC.	57.4	34.1	45.8	-1.3	0	0	15	15	589	589	2.23	-3.25	1.41	6393	6652
YEAR	71.9	51.3	61.6	-1.4	40	-28	57	20	2864	253	53.74	-2.36	55.60	128125	134187

\* DEPARTURE FROM 1951-80 NORMAL. \*\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER. {{{ NOTE }}} EVAPORATION, SUNSHINE AND RADIATION DATA ARE NOT ADJUSTED FOR MISSING VALUES

DAILY NORMALS OF AIR TEMPERATURE AND PRECIPITATION  
 BASED ON 1951-80 DATA

Station: AUBURN

State: ALABAMA

Number: 01-0430-5

January					February					March				
DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP
1	56	34	45	.18	1	57	34	46	.17	1	62	38	50	.21
2	56	34	45	.17	2	57	34	46	.17	2	62	38	50	.22
3	56	34	45	.17	3	57	34	46	.17	3	63	39	51	.22
4	56	34	45	.17	4	57	34	46	.18	4	63	39	51	.22
5	55	34	45	.17	5	57	34	46	.18	5	63	39	51	.22
6	55	34	45	.17	6	57	34	46	.18	6	63	40	52	.22
7	55	34	45	.17	7	58	34	46	.18	7	64	40	52	.22
8	55	34	45	.17	8	58	34	46	.18	8	64	40	52	.22
9	55	34	45	.17	9	58	34	46	.18	9	64	40	52	.22
10	55	34	45	.17	10	58	34	46	.18	10	65	41	53	.23
11	55	34	45	.17	11	58	34	46	.18	11	65	41	53	.23
12	55	34	45	.16	12	59	35	47	.19	12	65	41	53	.23
13	55	34	45	.16	13	59	35	47	.19	13	65	42	54	.23
14	55	34	45	.16	14	59	35	47	.19	14	66	42	54	.23
15	55	34	45	.16	15	59	35	47	.19	15	66	42	54	.23
16	55	33	44	.16	16	59	35	47	.19	16	66	42	54	.23
17	55	33	44	.16	17	59	35	47	.19	17	67	43	55	.23
18	55	33	44	.16	18	60	36	48	.20	18	67	43	55	.23
19	55	33	44	.16	19	60	36	48	.20	19	67	43	55	.22
20	55	33	44	.16	20	60	36	48	.20	20	68	43	56	.22
21	55	33	44	.16	21	60	36	48	.20	21	68	44	56	.22
22	56	33	45	.16	22	61	36	49	.20	22	68	44	56	.22
23	56	33	45	.16	23	61	37	49	.20	23	68	44	56	.22
24	56	33	45	.16	24	61	37	49	.21	24	69	44	57	.22
25	56	34	45	.16	25	61	37	49	.21	25	69	45	57	.22
26	56	34	45	.17	26	61	37	49	.21	26	69	45	57	.22
27	56	34	45	.17	27	62	38	50	.21	27	70	45	58	.21
28	56	34	45	.17	28	62	38	50	.21	28	70	46	58	.21
29	56	34	45	.17	29	**	**	**	***	29	70	46	58	.21
30	56	34	45	.17	30	**	**	**	***	30	71	46	59	.21
31	57	34	46	.17	31	**	**	**	***	31	71	46	59	.21

Normal Monthly Values:	Normal Monthly Values:	Normal Monthly Values:
55.5 33.7 44.6 5.14	59.1 35.3 47.2 5.34	66.4 42.3 54.3 6.85
	Normal annual values:	
	74.8 51.2 63.0 56.10	

The daily values listed in these tables are not simple means of observed daily values. They have been interpolated from the monthly normals by use of the natural spline function. The average temperature was computed by adding the maximum to the minimum, dividing by two, and rounding to the nearest degree. The daily precipitation values do not exhibit the typical daily random patterns. However, they may be used to compute normal precipitation accumulations over time intervals. In leap years use the February 28 values for the 29th. Temperatures are in degrees Fahrenheit. Precipitation is in inches.

DAILY NORMALS OF AIR TEMPERATURE AND PRECIPITATION  
 BASED ON 1951-80 DATA

Station: AUBURN

State: ALABAMA

Number: 01-0430-5

April					May					June				
DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP
1	71	47	59	.20	1	80	55	68	.15	1	87	62	75	.12
2	72	47	60	.20	2	80	55	68	.15	2	87	63	75	.12
3	72	47	60	.20	3	80	55	68	.15	3	87	63	75	.12
4	73	47	60	.20	4	80	55	68	.15	4	87	63	75	.11
5	73	48	61	.20	5	81	56	69	.15	5	88	63	76	.11
6	73	48	61	.19	6	81	56	69	.15	6	88	64	76	.11
7	73	48	61	.19	7	81	56	69	.15	7	88	64	76	.11
8	74	48	61	.19	8	81	56	69	.15	8	88	64	76	.11
9	74	49	62	.19	9	81	57	69	.14	9	88	64	76	.11
10	74	49	62	.19	10	82	57	70	.14	10	89	64	77	.12
11	75	49	62	.18	11	82	57	70	.14	11	89	65	77	.12
12	75	49	62	.18	12	82	57	70	.14	12	89	65	77	.12
13	75	50	63	.18	13	82	58	70	.14	13	89	65	77	.12
14	76	50	63	.18	14	83	58	71	.14	14	89	65	77	.12
15	76	50	63	.18	15	83	58	71	.14	15	89	65	77	.12
16	76	51	64	.17	16	83	58	71	.14	16	89	65	77	.12
17	76	51	64	.17	17	83	59	71	.14	17	89	66	78	.12
18	77	51	64	.17	18	83	59	71	.13	18	90	66	78	.13
19	77	51	64	.17	19	84	59	72	.13	19	90	66	78	.13
20	77	52	65	.17	20	84	59	72	.13	20	90	66	78	.13
21	77	52	65	.17	21	84	60	72	.13	21	90	66	78	.13
22	78	52	65	.17	22	84	60	72	.13	22	90	66	78	.14
23	78	52	65	.16	23	85	60	73	.13	23	90	67	79	.14
24	78	53	66	.16	24	85	60	73	.13	24	90	67	79	.14
25	78	53	66	.16	25	85	61	73	.13	25	90	67	79	.15
26	79	53	66	.16	26	85	61	73	.13	26	90	67	79	.15
27	79	53	66	.16	27	85	61	73	.12	27	90	67	79	.15
28	79	54	67	.16	28	86	61	74	.12	28	90	67	79	.16
29	79	54	67	.16	29	86	62	74	.12	29	90	67	79	.16
30	80	54	67	.15	30	86	62	74	.12	30	90	67	79	.16
31	**	**	**	***	31	86	62	74	.12	31	**	**	**	***

Normal Monthly Values:

75.8 50.4 63.1 5.31

Normal Monthly Values:

83.0 58.4 70.7 4.23

Normal annual values:

74.8 51.2 63.0 56.10

Normal Monthly Values:

89.0 65.2 77.1 3.85

The daily values listed in these tables are not simple means of observed daily values. They have been interpolated from the monthly normals by use of the natural spline function. The average temperature was computed by adding the maximum to the minimum, dividing by two, and rounding to the nearest degree. The daily precipitation values do not exhibit the typical daily random patterns. However, they may be used to compute normal precipitation accumulations over time intervals. In leap years use the February 28 values for the 29th. Temperatures are in degrees Fahrenheit. Precipitation is in inches.

DAILY NORMALS OF AIR TEMPERATURE AND PRECIPITATION  
 BASED ON 1951-80 DATA

Station: AUBURN

State: ALABAMA

Number: 01-0430-5

July					August					September				
DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP
1	90	67	79	.17	1	91	69	80	.15	1	89	67	78	.13
2	90	68	79	.17	2	91	69	80	.15	2	89	67	78	.13
3	90	68	79	.18	3	91	69	80	.14	3	89	67	78	.14
4	90	68	79	.18	4	91	69	80	.14	4	89	67	78	.14
5	90	68	79	.18	5	91	69	80	.13	5	89	66	78	.14
6	90	68	79	.19	6	91	68	80	.13	6	88	66	77	.14
7	90	68	79	.19	7	91	68	80	.12	7	88	66	77	.15
8	90	68	79	.19	8	91	68	80	.12	8	88	66	77	.15
9	90	68	79	.19	9	91	68	80	.12	9	88	66	77	.15
10	90	68	79	.19	10	91	68	80	.11	10	88	66	77	.15
11	90	68	79	.20	11	91	68	80	.11	11	87	65	76	.15
12	90	68	79	.20	12	91	68	80	.11	12	87	65	76	.15
13	91	68	80	.20	13	91	68	80	.11	13	87	65	76	.15
14	91	68	80	.20	14	91	68	80	.11	14	87	65	76	.15
15	91	69	80	.20	15	91	68	80	.11	15	87	64	76	.15
16	91	69	80	.20	16	91	68	80	.10	16	86	64	75	.15
17	91	69	80	.20	17	91	68	80	.10	17	86	64	75	.15
18	91	69	80	.20	18	91	68	80	.10	18	86	63	75	.15
19	91	69	80	.19	19	90	68	79	.10	19	85	63	74	.15
20	91	69	80	.19	20	90	68	79	.10	20	85	63	74	.15
21	91	69	80	.19	21	90	68	79	.10	21	85	62	74	.15
22	91	69	80	.19	22	90	68	79	.10	22	85	62	74	.15
23	91	69	80	.19	23	90	68	79	.11	23	84	62	73	.15
24	91	69	80	.18	24	90	67	79	.11	24	84	61	73	.14
25	91	69	80	.18	25	90	67	79	.11	25	84	61	73	.14
26	91	69	80	.18	26	90	67	79	.11	26	83	60	72	.14
27	91	69	80	.17	27	90	67	79	.11	27	83	60	72	.14
28	91	69	80	.17	28	90	67	79	.12	28	83	60	72	.13
29	91	69	80	.16	29	90	67	79	.12	29	82	59	71	.13
30	91	69	80	.16	30	89	67	78	.12	30	82	59	71	.13
31	91	69	80	.16	31	89	67	78	.12	31	**	**	**	***

Normal Monthly Values:

90.6 68.5 79.6 5.74

Normal Monthly Values:

90.5 67.9 79.2 3.59

Normal annual values:  
 74.8 51.2 63.0 56.10

Normal Monthly Values:

86.1 63.7 74.9 4.32

The daily values listed in these tables are not simple means of observed daily values. They have been interpolated from the monthly normals by use of the natural spline function. The average temperature was computed by adding the maximum to the minimum, dividing by two, and rounding to the nearest degree. The daily precipitation values do not exhibit the typical daily random patterns. However, they may be used to compute normal precipitation accumulations over time intervals. In leap years use the February 28 values for the 29th. Temperatures are in degrees Fahrenheit. Precipitation is in inches.

DAILY NORMALS OF AIR TEMPERATURE AND PRECIPITATION  
 BASED ON 1951-80 DATA

Station: AUBURN

State: ALABAMA

Number: 01-0430-5

October					November					December				
DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP	DAY	MAX	MIN	AVG	PRECIP
1	82	58	70	.12	1	71	46	59	.09	1	62	38	50	.15
2	81	57	69	.12	2	71	45	58	.09	2	62	38	50	.16
3	81	57	69	.12	3	70	45	58	.09	3	61	38	50	.16
4	81	57	69	.11	4	70	45	58	.09	4	61	37	49	.16
5	80	56	68	.11	5	70	45	58	.09	5	61	37	49	.17
6	80	56	68	.11	6	69	44	57	.09	6	60	37	49	.17
7	80	55	68	.10	7	69	44	57	.09	7	60	37	49	.17
8	79	55	67	.10	8	69	44	57	.10	8	60	37	49	.17
9	79	54	67	.10	9	69	43	56	.10	9	60	37	49	.17
10	79	54	67	.10	10	68	43	56	.10	10	59	36	48	.18
11	78	53	66	.09	11	68	43	56	.10	11	59	36	48	.18
12	78	53	66	.09	12	68	43	56	.10	12	59	36	48	.18
13	78	52	65	.09	13	67	42	55	.11	13	59	36	48	.18
14	77	52	65	.09	14	67	42	55	.11	14	59	36	48	.18
15	77	52	65	.09	15	67	42	55	.11	15	58	36	47	.18
16	77	51	64	.09	16	66	42	54	.11	16	58	36	47	.18
17	76	51	64	.08	17	66	41	54	.12	17	58	35	47	.18
18	76	50	63	.08	18	66	41	54	.12	18	58	35	47	.18
19	76	50	63	.08	19	65	41	53	.12	19	58	35	47	.19
20	75	50	63	.08	20	65	41	53	.12	20	57	35	46	.19
21	75	49	62	.08	21	65	40	53	.12	21	57	35	46	.19
22	75	49	62	.08	22	64	40	52	.13	22	57	35	46	.19
23	74	49	62	.08	23	64	40	52	.13	23	57	35	46	.18
24	74	48	61	.08	24	64	40	52	.13	24	57	35	46	.18
25	74	48	61	.08	25	64	39	52	.14	25	57	35	46	.18
26	73	48	61	.08	26	63	39	51	.14	26	56	34	45	.18
27	73	47	60	.08	27	63	39	51	.14	27	56	34	45	.18
28	72	47	60	.08	28	63	39	51	.14	28	56	34	45	.18
29	72	47	60	.08	29	62	38	50	.15	29	56	34	45	.18
30	72	46	59	.08	30	62	38	50	.15	30	56	34	45	.18
31	71	46	59	.08	31	**	**	**	***	31	56	34	45	.18

Normal Monthly Values:

76.6 51.5 64.1 2.83

Normal Monthly Values:

66.5 41.8 54.1 3.42

Normal annual values:

74.8 51.2 63.0 56.10

Normal Monthly Values:

58.4 35.7 47.0 5.48

The daily values listed in these tables are not simple means of observed daily values. They have been interpolated from the monthly normals by use of the natural spline function. The average temperature was computed by adding the maximum to the minimum, dividing by two, and rounding to the nearest degree. The daily precipitation values do not exhibit the typical daily random patterns. However, they may be used to compute normal precipitation accumulations over time intervals. In leap years use the February 28 values for the 29th. Temperatures are in degrees Fahrenheit. Precipitation is in inches.

Estimated daylength, sunrise and sunset times for: AUBURN, ALABAMA  
 All sunrise and sunset calculations are for Central Standard Time.

Latitude 32 35 N., Longitude 85 29 W.

JANUARY

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	10:05	6:43 4:48	2	10:05	6:43 4:48	3	10:06	6:43 4:49	4	10:06	6:43 4:50	5	10:07	6:44 4:51
6	10:08	6:44 4:51	7	10:08	6:44 4:52	8	10:09	6:44 4:53	9	10:10	6:44 4:54	10	10:10	6:44 4:54
11	10:11	6:44 4:55	12	10:12	6:44 4:56	13	10:13	6:44 4:57	14	10:14	6:44 4:58	15	10:15	6:44 4:58
16	10:16	6:44 4:59	17	10:17	6:43 5:00	18	10:18	6:43 5:01	19	10:19	6:43 5:02	20	10:20	6:43 5:03
21	10:21	6:42 5:03	22	10:22	6:42 5:04	23	10:23	6:42 5:05	24	10:25	6:41 5:06	25	10:26	6:41 5:07
26	10:27	6:41 5:08	27	10:28	6:40 5:09	28	10:30	6:40 5:10	29	10:31	6:39 5:10	30	10:33	6:39 5:11
31	10:34	6:38 5:12												

FEBRUARY

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	10:35	6:38 5:13	2	10:37	6:37 5:14	3	10:39	6:36 5:15	4	10:40	6:36 5:16	5	10:42	6:35 5:17
6	10:43	6:34 5:18	7	10:45	6:34 5:19	8	10:47	6:33 5:19	9	10:48	6:32 5:20	10	10:50	6:31 5:21
11	10:52	6:31 5:22	12	10:53	6:30 5:23	13	10:55	6:29 5:24	14	10:57	6:28 5:25	15	10:59	6:27 5:26
16	11:01	6:26 5:27	17	11:03	6:25 5:28	18	11:04	6:24 5:28	19	11:06	6:23 5:29	20	11:08	6:22 5:30
21	11:10	6:21 5:31	22	11:12	6:20 5:32	23	11:14	6:19 5:33	24	11:16	6:18 5:34	25	11:18	6:16 5:35
26	11:20	6:15 5:35	27	11:22	6:14 5:36	28	11:24	6:13 5:37	29	11:26	6:12 5:38			

MARCH

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	11:28	6:11 5:39	2	11:30	6:09 5:40	3	11:33	6:08 5:41	4	11:35	6:07 5:41	5	11:37	6:06 5:42
6	11:39	6:04 5:43	7	11:41	6:03 5:44	8	11:43	6:02 5:45	9	11:45	6:00 5:46	10	11:47	5:59 5:46
11	11:50	5:58 5:47	12	11:52	5:56 5:48	13	11:54	5:55 5:49	14	11:56	5:54 5:50	15	11:58	5:52 5:50
16	12:00	5:51 5:51	17	12:03	5:49 5:52	18	12:05	5:48 5:53	19	12:07	5:47 5:54	20	12:09	5:45 5:54
21	12:11	5:44 5:55	22	12:13	5:42 5:56	23	12:16	5:41 5:57	24	12:18	5:40 5:57	25	12:20	5:38 5:58
26	12:22	5:37 5:59	27	12:24	5:35 6:00	28	12:26	5:34 6:00	29	12:29	5:33 6:01	30	12:31	5:31 6:02
31	12:33	5:30 6:03												

APRIL

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	12:35	5:29 6:03	2	12:37	5:27 6:04	3	12:39	5:26 6:05	4	12:41	5:24 6:06	5	12:43	5:23 6:06
6	12:45	5:22 6:07	7	12:48	5:20 6:08	8	12:50	5:19 6:09	9	12:52	5:18 6:09	10	12:54	5:16 6:10
11	12:56	5:15 6:11	12	12:58	5:14 6:12	13	13:00	5:13 6:12	14	13:02	5:11 6:13	15	13:04	5:10 6:14
16	13:05	5:09 6:14	17	13:07	5:08 6:15	18	13:09	5:07 6:16	19	13:11	5:05 6:17	20	13:13	5:04 6:17
21	13:15	5:03 6:18	22	13:17	5:02 6:19	23	13:18	5:01 6:19	24	13:20	5:00 6:20	25	13:22	4:59 6:21
26	13:24	4:58 6:22	27	13:25	4:57 6:22	28	13:27	4:56 6:23	29	13:29	4:55 6:24	30	13:30	4:54 6:24

MAY

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	13:32	4:53 6:25	2	13:34	4:52 6:26	3	13:35	4:51 6:26	4	13:37	4:50 6:27	5	13:38	4:49 6:28
6	13:40	4:49 6:28	7	13:41	4:48 6:29	8	13:43	4:47 6:30	9	13:44	4:46 6:30	10	13:46	4:46 6:31
11	13:47	4:45 6:32	12	13:48	4:44 6:32	13	13:50	4:43 6:33	14	13:51	4:43 6:34	15	13:52	4:42 6:34
16	13:53	4:42 6:35	17	13:54	4:41 6:36	18	13:56	4:41 6:36	19	13:57	4:40 6:37	20	13:58	4:40 6:37
21	13:59	4:39 6:38	22	14:00	4:39 6:39	23	14:01	4:38 6:39	24	14:02	4:38 6:40	25	14:03	4:38 6:40
26	14:04	4:37 6:41	27	14:05	4:37 6:41	28	14:05	4:37 6:42	29	14:06	4:36 6:42	30	14:07	4:36 6:43
31	14:08	4:36 6:43												

JUNE

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	14:08	4:36 6:44	2	14:09	4:35 6:44	3	14:10	4:35 6:45	4	14:10	4:35 6:45	5	14:11	4:35 6:46
6	14:11	4:35 6:46	7	14:12	4:35 6:47	8	14:12	4:35 6:47	9	14:13	4:35 6:48	10	14:13	4:35 6:48
11	14:13	4:35 6:48	12	14:14	4:35 6:49	13	14:14	4:35 6:49	14	14:14	4:35 6:49	15	14:14	4:35 6:50
16	14:15	4:35 6:50	17	14:15	4:36 6:50	18	14:15	4:36 6:51	19	14:15	4:36 6:51	20	14:15	4:36 6:51
21	14:15	4:36 6:51	22	14:15	4:36 6:51	23	14:15	4:37 6:52	24	14:15	4:37 6:52	25	14:15	4:37 6:52
26	14:14	4:38 6:52	27	14:14	4:38 6:52	28	14:14	4:38 6:52	29	14:14	4:39 6:52	30	14:13	4:39 6:52

JULY

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	14:13	4:39 6:52	2	14:13	4:40 6:52	3	14:12	4:40 6:52	4	14:12	4:41 6:52	5	14:11	4:41 6:52
6	14:11	4:41 6:52	7	14:10	4:42 6:52	8	14:10	4:42 6:52	9	14:09	4:43 6:52	10	14:08	4:43 6:51
11	14:08	4:44 6:51	12	14:07	4:44 6:51	13	14:06	4:45 6:51	14	14:05	4:45 6:50	15	14:04	4:46 6:50
16	14:04	4:46 6:50	17	14:03	4:47 6:49	18	14:02	4:47 6:49	19	14:01	4:48 6:49	20	14:00	4:48 6:48
21	13:59	4:49 6:48	22	13:58	4:50 6:47	23	13:57	4:50 6:47	24	13:55	4:51 6:46	25	13:54	4:51 6:46
26	13:53	4:52 6:45	27	13:52	4:53 6:44	28	13:51	4:53 6:44	29	13:49	4:54 6:43	30	13:48	4:54 6:42
31	13:47	4:55 6:42												

AUGUST

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	13:45	4:56 6:41	2	13:44	4:56 6:40	3	13:43	4:57 6:39	4	13:41	4:57 6:39	5	13:40	4:58 6:38
6	13:38	4:59 6:37	7	13:37	4:59 6:36	8	13:35	5:00 6:35	9	13:34	5:01 6:34	10	13:32	5:01 6:33
11	13:30	5:02 6:32	12	13:29	5:03 6:31	13	13:27	5:03 6:30	14	13:25	5:04 6:29	15	13:24	5:05 6:28
16	13:22	5:05 6:27	17	13:20	5:06 6:26	18	13:18	5:06 6:25	19	13:17	5:07 6:24	20	13:15	5:08 6:23
21	13:13	5:08 6:21	22	13:11	5:09 6:20	23	13:09	5:10 6:19	24	13:07	5:10 6:18	25	13:06	5:11 6:17
26	13:04	5:12 6:15	27	13:02	5:12 6:14	28	13:00	5:13 6:13	29	12:58	5:14 6:11	30	12:56	5:14 6:10
31	12:54	5:15 6:09												



SEPTEMBER

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	12:52	5:16 6:07	2	12:50	5:16 6:06	3	12:48	5:17 6:05	4	12:46	5:18 6:03	5	12:44	5:18 6:02
6	12:42	5:19 6:01	7	12:39	5:20 5:59	8	12:37	5:20 5:58	9	12:35	5:21 5:56	10	12:33	5:22 5:55
11	12:31	5:22 5:54	12	12:29	5:23 5:52	13	12:27	5:24 5:51	14	12:25	5:25 5:49	15	12:23	5:25 5:48
16	12:20	5:26 5:46	17	12:18	5:27 5:45	18	12:16	5:27 5:43	19	12:14	5:28 5:42	20	12:12	5:29 5:41
21	12:10	5:29 5:39	22	12:07	5:30 5:38	23	12:05	5:31 5:36	24	12:03	5:32 5:35	25	12:01	5:32 5:33
26	11:59	5:33 5:32	27	11:57	5:34 5:30	28	11:54	5:35 5:29	29	11:52	5:35 5:28	30	11:50	5:36 5:26

OCTOBER

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	11:48	5:37 5:25	2	11:46	5:38 5:23	3	11:44	5:38 5:22	4	11:42	5:39 5:21	5	11:40	5:40 5:19
6	11:37	5:41 5:18	7	11:35	5:41 5:17	8	11:33	5:42 5:15	9	11:31	5:43 5:14	10	11:29	5:44 5:13
11	11:27	5:45 5:12	12	11:25	5:45 5:10	13	11:23	5:46 5:09	14	11:21	5:47 5:08	15	11:19	5:48 5:07
16	11:17	5:49 5:05	17	11:15	5:49 5:04	18	11:13	5:50 5:03	19	11:11	5:51 5:02	20	11:09	5:52 5:01
21	11:07	5:53 5:00	22	11:05	5:53 4:59	23	11:03	5:54 4:58	24	11:01	5:55 4:57	25	11:00	5:56 4:56
26	10:58	5:57 4:55	27	10:56	5:58 4:54	28	10:54	5:59 4:53	29	10:52	5:59 4:52	30	10:51	6:00 4:51
31	10:49	6:01 4:50												

NOVEMBER

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	10:47	6:02 4:49	2	10:46	6:03 4:48	3	10:44	6:04 4:48	4	10:42	6:05 4:47	5	10:41	6:05 4:46
6	10:39	6:06 4:46	7	10:38	6:07 4:45	8	10:36	6:08 4:44	9	10:35	6:09 4:44	10	10:33	6:10 4:43
11	10:32	6:11 4:42	12	10:30	6:11 4:42	13	10:29	6:12 4:41	14	10:28	6:13 4:41	15	10:26	6:14 4:40
16	10:25	6:15 4:40	17	10:24	6:16 4:40	18	10:23	6:17 4:39	19	10:22	6:17 4:39	20	10:20	6:18 4:39
21	10:19	6:19 4:38	22	10:18	6:20 4:38	23	10:17	6:21 4:38	24	10:16	6:22 4:38	25	10:15	6:22 4:37
26	10:14	6:23 4:37	27	10:13	6:24 4:37	28	10:12	6:25 4:37	29	10:12	6:25 4:37	30	10:11	6:26 4:37

DECEMBER

DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET			DAY RISE SET		
DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.	DATE	LENGTH	A.M. P.M.
1	10:10	6:27 4:37	2	10:09	6:28 4:37	3	10:09	6:29 4:37	4	10:08	6:29 4:37	5	10:07	6:30 4:37
6	10:07	6:31 4:37	7	10:06	6:31 4:37	8	10:06	6:32 4:38	9	10:05	6:33 4:38	10	10:05	6:33 4:38
11	10:04	6:34 4:38	12	10:04	6:35 4:39	13	10:04	6:35 4:39	14	10:03	6:36 4:39	15	10:03	6:36 4:40
16	10:03	6:37 4:40	17	10:03	6:38 4:40	18	10:03	6:38 4:41	19	10:03	6:39 4:41	20	10:02	6:39 4:42
21	10:02	6:40 4:42	22	10:02	6:40 4:42	23	10:03	6:40 4:43	24	10:03	6:41 4:43	25	10:03	6:41 4:44
26	10:03	6:42 4:45	27	10:03	6:42 4:45	28	10:03	6:42 4:46	29	10:04	6:43 4:46	30	10:04	6:43 4:47
31	10:04	6:43 4:48												

\*\*\* Add 1 hour to the above sunrise and sunset values for Daylight Savings Time if and when used.

NOTE: The above times are only estimates and should NOT be considered official. However, comparisons with major cities in the Southeastern United States have shown that the above values are generally within 5 minutes of officially published tables. An additional error of less than 1 minute for each 9 miles from the above Latitude and Longitude exists. The above estimates may be used in any year of the twentieth century. These daylength, sunrise, and sunset estimates are provided by the National Weather Service at Auburn, Alabama.

1988

PRECIPITATION SUMMARY FOR AUBURN UNIVERSTIY EXPERIMENT  
SUBSTATIONS

FOR THE PERIOD: FRIDAY, JANUARY 1, 1988, THROUGH  
SATURDAY, DECEMBER 31, 1988

STATION	ACTUAL TOTAL	NORMAL	DIFF	% OF NORMAL
AUBURN	53.74	56.31	-2.57	95
BELLE MINA	41.74	53.28	-11.54	78
BREWTON	63.03	62.58	+0.45	101
CLANTON	53.55	57.60	-4.05	93
CAMDEN	51.64	57.94	-6.30	89
CROSSVILLE	45.24	54.85	-9.61	82
FAIRHOPE	70.06	64.30	+5.76	109
HEADLAND	50.19	54.83	-4.64	92
MARION JUNCTION	51.94	53.29	-1.35	97
WINFIELD	47.54	56.71	-9.17	84

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
1/ 1	53	42	48	7	0	0	.21	50	43	47	NA	NA	NA	.00
1/ 2	42	27	35	-6	0	0	.05	50	38	44	NA	NA	NA	.00
1/ 3	42	27	35	-6	0	0	.00	47	38	43	NA	NA	NA	.00
1/ 4	45	31	38	-3	0	0	.47	44	38	41	NA	NA	NA	.00
1/ 5	42	20	31	-10	0	0	.00	46	36	41	NA	NA	NA	.00
1/ 6	28	18	23	-18	0	0	.00	37	34	36	NA	NA	NA	.00
1/ 7	27	18	23	-17	0	0	.82	34	34	34	NA	NA	NA	.00
1/ 8	32	23	28	-12	0	0	.24	34	34	34	NA	NA	NA	.00
1/ 9	28	17	23	-17	0	0	.00	35	34	35	NA	NA	NA	.00
1/10	25	8	17	-23	0	0	.00	35	35	35	NA	NA	NA	.00
1/11	35	3	19	-21	0	0	.00	35	35	35	NA	NA	NA	.00
1/12	44	4	24	-16	0	0	.00	35	34	35	NA	NA	NA	.04
1/13	45	31	38	-2	0	0	.29	36	35	36	NA	NA	NA	.00
1/14	35	17	26	-14	0	0	.00	44	34	39	NA	NA	NA	.00
1/15	36	17	27	-13	0	0	.00	37	34	36	NA	NA	NA	.00
1/16	47	21	34	-6	0	0	.00	42	33	38	NA	NA	NA	.01
1/17	54	31	43	3	0	0	.13	44	35	40	NA	NA	NA	.02
1/18	51	41	46	6	0	0	.32	45	40	43	NA	NA	NA	.00
1/19	59	47	53	13	0	3	.23	52	45	49	NA	NA	NA	.00
1/20	66	49	58	18	0	11	1.44	59	52	56	NA	NA	NA	.04
1/21	60	36	48	8	0	11	.00	58	44	51	NA	NA	NA	.05
1/22	43	33	38	-2	0	11	.00	48	40	44	NA	NA	NA	.00
1/23	42	29	36	-4	0	11	.00	47	37	42	NA	NA	NA	.00
1/24	50	27	39	-2	0	11	.00	48	37	43	NA	NA	NA	.01
1/25	54	28	41	0	0	11	.00	47	37	42	NA	NA	NA	.03
1/26	46	19	33	-8	0	11	.00	48	34	41	NA	NA	NA	.01
1/27	33	17	25	-16	0	11	.00	41	33	37	NA	NA	NA	.00
1/28	38	18	28	-13	0	11	.00	41	33	37	NA	NA	NA	.00
1/29	58	24	41	0	0	11	.00	47	34	41	NA	NA	NA	.08
1/30	61	31	46	4	0	11	.00	50	36	43	NA	NA	NA	.07
1/31	67	36	52	10	0	13	.00	54	39	47	NA	NA	NA	.10

AIR TEMPERATURES (in degrees F):

Mean Maximum= 44.8      Mean Minimum= 25.5      Average= 35.1  
DFN= -5.6      DFN= -4.8      DFN= -5.2  
Highest= 67      Lowest= 3

PRECIPITATION STATISTICS (inches):

Total= 4.20      DFN= -1.01      Greatest Daily= 1.44      Rain Days= 10

SOIL TEMPERATURES (in degrees F):

Highest= 59      Lowest= 33      Average= 41

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .01 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	64	53	59	17	0	9	.18	53	47	50	NA	NA	NA	.02
2/ 2	68	53	61	19	1	20	.07	58	51	55	NA	NA	NA	.05
2/ 3	64	47	56	14	1	26	.42	59	52	56	NA	NA	NA	.04
2/ 4	59	43	51	9	1	27	.08	57	50	54	NA	NA	NA	.03
2/ 5	43	27	35	-7	1	27	.00	53	38	46	NA	NA	NA	.00
2/ 6	36	9	23	-19	1	27	.00	44	34	39	NA	NA	NA	.00
2/ 7	27	9	18	-24	1	27	.00	36	33	35	NA	NA	NA	.00
2/ 8	43	13	28	-14	1	27	.00	38	33	36	NA	NA	NA	.02
2/ 9	48	24	36	-7	1	27	.00	47	36	42	NA	NA	NA	.02
2/10	54	25	40	-3	1	27	.00	50	37	44	NA	NA	NA	.06
2/11	59	27	43	0	1	27	.00	53	38	46	NA	NA	NA	.08
2/12	53	16	35	-8	1	27	.21	46	37	42	NA	NA	NA	.08
2/13	27	16	22	-22	1	27	.00	42	36	39	NA	NA	NA	.00
2/14	40	22	31	-13	1	27	.00	46	36	41	NA	NA	NA	.00
2/15	64	30	47	3	1	27	.71	49	37	43	NA	NA	NA	.11
2/16	43	21	32	-12	1	27	.00	48	36	42	NA	NA	NA	.00
2/17	49	21	35	-10	1	27	.00	52	36	44	NA	NA	NA	.04
2/18	61	31	46	1	1	27	.00	55	37	46	NA	NA	NA	.09
2/19	57	36	47	2	1	27	.08	51	41	46	NA	NA	NA	.05
2/20	51	35	43	-2	1	27	.14	50	43	47	NA	NA	NA	.01
2/21	53	26	40	-5	1	27	.00	55	39	47	NA	NA	NA	.06
2/22	48	26	37	-9	1	27	.00	54	39	47	NA	NA	NA	.02
2/23	69	37	53	7	1	30	.00	55	39	47	NA	NA	NA	.12
2/24	56	27	42	-4	1	30	.10	50	39	45	NA	NA	NA	.07
2/25	48	22	35	-11	1	30	.00	51	37	44	NA	NA	NA	.04
2/26	52	24	38	-9	1	30	.00	52	37	45	NA	NA	NA	.06
2/27	62	26	44	-3	1	30	.00	56	37	47	NA	NA	NA	.12
2/28	72	27	50	3	1	30	.00	61	41	51	NA	NA	NA	.18
2/29	64	28	46	-1	1	30	.00	62	42	52	NA	NA	NA	.13

AIR TEMPERATURES (in degrees F):

Mean Maximum= 52.9      Mean Minimum= 27.6      Average= 40.3  
DFN= -2.2      DFN= -5.0      DFN= -3.6  
Highest= 72      Lowest= 9

PRECIPITATION STATISTICS (inches):

Total= 1.99      DFN= -2.84      Greatest Daily= .71      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 62      Lowest= 33      Average= 45

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .05 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
3/ 1	66	30	48	1	0	0	.00	63	43	53	NA	NA	NA	.13
3/ 2	64	31	48	0	0	0	.00	63	43	53	NA	NA	NA	.12
3/ 3	75	38	57	9	0	7	.13	63	44	54	NA	NA	NA	.17
3/ 4	71	51	61	13	1	18	.17	62	53	58	NA	NA	NA	.10
3/ 5	55	35	45	-4	1	18	Trace	58	45	52	NA	NA	NA	.05
3/ 6	47	28	38	-11	1	18	.00	52	40	46	NA	NA	NA	.02
3/ 7	55	28	42	-7	1	18	.05	56	40	48	NA	NA	NA	.08
3/ 8	69	30	50	1	1	18	.00	64	42	53	NA	NA	NA	.16
3/ 9	68	46	57	7	1	25	.23	57	48	53	NA	NA	NA	.10
3/10	60	40	50	0	1	25	.23	59	48	54	NA	NA	NA	.07
3/11	49	28	39	-11	1	25	.05	53	40	47	NA	NA	NA	.04
3/12	68	30	49	-1	1	25	.00	60	40	50	NA	NA	NA	.16
3/13	60	36	48	-3	1	25	.48	54	45	50	NA	NA	NA	.09
3/14	51	32	42	-9	1	25	Trace	60	43	52	NA	NA	NA	.04
3/15	42	22	32	-19	1	25	Trace	53	37	45	NA	NA	NA	.02
3/16	45	20	33	-19	1	25	.00	54	37	46	NA	NA	NA	.05
3/17	50	25	38	-14	1	25	.00	59	37	48	NA	NA	NA	.06
3/18	58	31	45	-7	1	25	.03	62	40	51	NA	NA	NA	.09
3/19	45	32	39	-14	1	25	.08	49	41	45	NA	NA	NA	.01
3/20	52	28	40	-13	1	25	.00	52	41	47	NA	NA	NA	.07
3/21	72	38	55	2	1	30	.00	65	42	54	NA	NA	NA	.16
3/22	77	40	59	6	1	39	.00	72	47	60	NA	NA	NA	.19
3/23	81	41	61	7	2	50	.00	74	51	63	NA	NA	NA	.21
3/24	78	53	66	12	8	66	.00	73	55	64	NA	NA	NA	.16
3/25	79	57	68	14	16	84	.02	73	59	66	NA	NA	NA	.15
3/26	68	56	62	7	18	96	.48	66	58	62	NA	NA	NA	.09
3/27	70	37	54	-1	18	100	.00	68	48	58	NA	NA	NA	.16
3/28	69	38	54	-1	18	104	.00	71	48	60	NA	NA	NA	.15
3/29	78	42	60	4	18	114	.00	75	50	63	NA	NA	NA	.20
3/30	83	52	68	12	26	132	.58	76	56	66	NA	NA	NA	.20
3/31	60	50	55	-2	26	137	.06	65	59	62	NA	NA	NA	.06

AIR TEMPERATURES (in degrees F):

Mean Maximum= 63.4      Mean Minimum= 36.9      Average= 50.2  
DFN= +.2      DFN= -2.8      DFN= -1.3  
Highest= 83      Lowest= 20

PRECIPITATION STATISTICS (inches):

Total= 2.59      DFN= -3.91      Greatest Daily= .58      Rain Days= 13

SOIL TEMPERATURES (in degrees F):

Highest= 76      Lowest= 37      Average= 54

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .11 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	76	59	68	11	8	18	1.39	71	59	65	NA	NA	NA	.13
4/ 2	67	60	64	6	12	32	.28	67	61	64	NA	NA	NA	.07
4/ 3	71	59	65	7	17	47	.21	69	61	65	NA	NA	NA	.10
4/ 4	75	56	66	8	23	63	.08	73	61	67	NA	NA	NA	.14
4/ 5	80	51	66	7	29	79	.00	78	59	69	NA	NA	NA	.19
4/ 6	88	51	70	11	39	99	.29	83	59	71	NA	NA	NA	.24
4/ 7	63	44	54	-6	39	103	.00	69	51	60	NA	NA	NA	.10
4/ 8	69	45	57	-3	39	110	.00	73	51	62	NA	NA	NA	.14
4/ 9	72	43	58	-2	39	118	.00	77	53	65	NA	NA	NA	.16
4/10	77	43	60	0	39	128	.00	80	54	67	NA	NA	NA	.19
4/11	77	47	62	1	41	140	.00	80	57	69	NA	NA	NA	.18
4/12	59	45	52	-9	41	142	1.05	63	55	59	NA	NA	NA	.08
4/13	61	43	52	-9	41	144	.13	65	52	59	NA	NA	NA	.10
4/14	74	43	59	-3	41	153	.00	76	52	64	NA	NA	NA	.18
4/15	77	46	62	0	43	165	.00	78	55	67	NA	NA	NA	.19
4/16	74	39	57	-5	43	172	.02	78	54	66	NA	NA	NA	.19
4/17	66	40	53	-9	43	175	.00	79	54	67	NA	NA	NA	.14
4/18	78	41	60	-3	43	185	.53	78	54	66	NA	NA	NA	.21
4/19	78	45	62	-1	45	197	.12	76	58	67	NA	NA	NA	.20
4/20	64	36	50	-13	45	197	.00	73	52	63	NA	NA	NA	.14
4/21	73	37	55	-8	45	202	.00	77	51	64	NA	NA	NA	.20
4/22	83	50	67	3	52	219	.00	83	55	69	NA	NA	NA	.22
4/23	78	64	71	7	63	240	.02	79	66	73	NA	NA	NA	.14
4/24	82	54	68	4	71	258	Trace	79	65	72	NA	NA	NA	.20
4/25	71	49	60	-5	71	268	.00	86	62	74	NA	NA	NA	.15
4/26	68	46	57	-8	71	275	Trace	76	59	68	NA	NA	NA	.14
4/27	77	46	62	-3	73	287	.00	85	59	72	NA	NA	NA	.20
4/28	69	40	55	-10	73	292	.00	84	59	72	NA	NA	NA	.17
4/29	68	38	53	-12	73	295	.00	83	58	71	NA	NA	NA	.17
4/30	74	38	56	-10	73	301	.00	84	58	71	NA	NA	NA	.20

AIR TEMPERATURES (in degrees F):

Mean Maximum= 73.0      Mean Minimum= 46.6      Average= 59.8  
DFN= -1.2                      DFN= -2.3                      DFN= -1.8  
Highest= 88    Lowest= 36

PRECIPITATION STATISTICS (inches):

Total= 4.12    DFN= -.70    Greatest Daily= 1.39    Rain Days= 11

SOIL TEMPERATURES (in degrees F):

Highest= 86    Lowest= 51    Average= 67

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
5/ 1	73	45	59	-7	0	9	.00	80	60	70	NA	NA	NA	.18
5/ 2	78	45	62	-4	2	21	.00	86	60	73	NA	NA	NA	.21
5/ 3	81	45	63	-3	5	34	.00	88	61	75	NA	NA	NA	.23
5/ 4	78	50	64	-3	9	48	.09	80	63	72	NA	NA	NA	.19
5/ 5	70	45	58	-9	9	56	.02	73	60	67	NA	NA	NA	.16
5/ 6	74	46	60	-7	9	66	Trace	83	60	72	NA	NA	NA	.18
5/ 7	80	47	64	-3	13	80	.00	85	61	73	NA	NA	NA	.22
5/ 8	84	50	67	0	20	97	.00	88	63	76	NA	NA	NA	.23
5/ 9	84	57	71	3	31	118	Trace	84	67	76	NA	NA	NA	.21
5/10	85	56	71	3	42	139	.09	85	69	77	NA	NA	NA	.22
5/11	80	49	65	-3	47	154	.00	91	66	79	NA	NA	NA	.21
5/12	80	48	64	-4	51	168	.00	89	66	78	NA	NA	NA	.22
5/13	80	48	64	-5	55	182	.00	85	66	76	NA	NA	NA	.22
5/14	85	56	71	2	66	203	.00	91	68	80	NA	NA	NA	.22
5/15	88	57	73	4	79	226	.00	93	70	82	NA	NA	NA	.24
5/16	90	59	75	6	94	251	.00	95	71	83	NA	NA	NA	.25
5/17	88	51	70	1	104	271	.00	90	71	81	NA	NA	NA	.26
5/18	81	52	67	-3	111	288	.00	92	68	80	NA	NA	NA	.21
5/19	83	51	67	-3	118	305	.00	89	68	79	NA	NA	NA	.23
5/20	82	51	67	-3	125	322	.00	90	68	79	NA	NA	NA	.22
5/21	85	52	69	-1	134	341	.00	92	68	80	NA	NA	NA	.24
5/22	88	58	73	2	147	364	Trace	89	70	80	NA	NA	NA	.24
5/23	83	59	71	0	158	385	.61	86	68	77	NA	NA	NA	.20
5/24	80	59	70	-1	168	405	.20	82	68	75	NA	NA	NA	.18
5/25	72	59	66	-5	174	421	.18	75	65	70	NA	NA	NA	.13
5/26	75	47	61	-10	175	432	.00	79	58	69	NA	NA	NA	.19
5/27	78	48	63	-9	178	445	.00	87	58	73	NA	NA	NA	.21
5/28	83	50	67	-5	185	462	.00	92	62	77	NA	NA	NA	.23
5/29	85	55	70	-2	195	482	.00	95	65	80	NA	NA	NA	.23
5/30	89	57	73	0	208	505	.00	97	68	83	NA	NA	NA	.25
5/31	91	58	75	2	223	530	.00	97	71	84	NA	NA	NA	.26

AIR TEMPERATURES (in degrees F):

Mean Maximum= 81.7      Mean Minimum= 51.9      Average= 66.8  
DFN= +.4      DFN= -4.7      DFN= -2.1  
Highest= 91    Lowest= 45

PRECIPITATION STATISTICS (inches):

Total= 1.19    DFN= -3.17    Greatest Daily= .61    Rain Days= 6

SOIL TEMPERATURES (in degrees F):

Highest= 97    Lowest= 58    Average= 76

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .22 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
6/ 1	92	62	77	4	17	27	.00	97	73	85	NA	NA	NA	.25
6/ 2	92	63	78	5	35	55	.00	99	75	87	NA	NA	NA	.25
6/ 3	92	62	77	3	52	82	Trace	99	75	87	NA	NA	NA	.25
6/ 4	89	56	73	-1	65	105	.00	95	70	83	NA	NA	NA	.25
6/ 5	81	52	67	-7	72	122	.00	95	69	82	NA	NA	NA	.22
6/ 6	84	54	69	-5	81	141	.00	95	69	82	NA	NA	NA	.23
6/ 7	90	55	73	-1	94	164	.00	98	70	84	NA	NA	NA	.26
6/ 8	95	59	77	2	111	191	.00	99	72	86	NA	NA	NA	.28
6/ 9	94	62	78	3	129	219	.00	100	75	88	NA	NA	NA	.27
6/10	80	50	65	-10	134	234	.00	92	68	80	NA	NA	NA	.22
6/11	79	49	64	-11	138	248	.00	92	67	80	NA	NA	NA	.21
6/12	84	52	68	-8	146	266	.00	95	67	81	NA	NA	NA	.24
6/13	90	53	72	-4	158	288	.00	97	68	83	NA	NA	NA	.27
6/14	91	59	75	-1	173	313	.00	98	72	85	NA	NA	NA	.26
6/15	94	61	78	2	191	341	.00	99	74	87	NA	NA	NA	.27
6/16	95	63	79	3	210	370	.00	98	75	87	NA	NA	NA	.27
6/17	95	62	79	3	229	399	.00	97	76	87	NA	NA	NA	.27
6/18	93	63	78	1	247	427	.00	97	76	87	NA	NA	NA	.26
6/19	93	64	79	2	266	456	.00	95	76	86	NA	NA	NA	.26
6/20	94	66	80	3	286	486	.00	100	74	87	NA	NA	NA	.26
6/21	96	65	81	4	307	517	.00	101	79	90	NA	NA	NA	.27
6/22	98	65	82	5	329	549	.13	100	77	89	NA	NA	NA	.28
6/23	100	68	84	7	353	583	.00	102	77	90	NA	NA	NA	.29
6/24	97	70	84	6	377	617	.00	97	81	89	NA	NA	NA	.26
6/25	99	72	86	8	403	653	.00	103	81	92	NA	NA	NA	.27
6/26	100	72	86	8	429	689	.00	105	83	94	NA	NA	NA	.27
6/27	102	73	88	10	457	727	.00	108	84	96	NA	NA	NA	.28
6/28	95	62	79	1	476	756	.00	105	78	92	NA	NA	NA	.27
6/29	96	63	80	2	496	786	.00	103	77	90	NA	NA	NA	.28
6/30	99	68	84	6	520	820	.00	105	80	93	NA	NA	NA	.28

AIR TEMPERATURES (in degrees F):

Mean Maximum= 92.6      Mean Minimum= 61.5      Average= 77.1  
DFN= +4.7      DFN= -2.4      DFN= +1.2  
Highest= 102    Lowest= 49

PRECIPITATION STATISTICS (inches):

Total= .13    DFN= -3.25    Greatest Daily= .13    Rain Days= 1

SOIL TEMPERATURES (in degrees F):

Highest= 108    Lowest= 67    Average= 87

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .26 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
7/ 1	80	66	73	-5	13	23	.18	86	76	81	NA	NA	NA	.17
7/ 2	89	66	78	-1	31	51	.00	92	75	84	NA	NA	NA	.22
7/ 3	79	69	74	-5	45	75	.03	83	75	79	NA	NA	NA	.15
7/ 4	87	69	78	-1	63	103	.53	86	75	81	NA	NA	NA	.20
7/ 5	83	69	76	-3	79	129	.13	82	75	79	NA	NA	NA	.17
7/ 6	80	66	73	-6	92	152	.06	78	73	76	NA	NA	NA	.17
7/ 7	89	62	76	-3	108	178	.00	90	71	81	NA	NA	NA	.23
7/ 8	93	62	78	-1	126	206	.00	98	71	85	NA	NA	NA	.26
7/ 9	98	65	82	3	148	238	.00	102	75	89	NA	NA	NA	.28
7/10	99	71	85	6	173	273	.00	102	80	91	NA	NA	NA	.27
7/11	98	72	85	6	198	308	.00	104	82	93	NA	NA	NA	.26
7/12	90	70	80	1	218	338	.08	93	80	87	NA	NA	NA	.21
7/13	89	70	80	1	238	368	.20	92	79	86	NA	NA	NA	.21
7/14	85	71	78	-1	256	396	.03	83	77	80	NA	NA	NA	.18
7/15	96	71	84	4	280	430	.63	100	77	89	NA	NA	NA	.25
7/16	95	72	84	4	304	464	.00	96	78	87	NA	NA	NA	.24
7/17	96	70	83	3	327	497	.00	103	81	92	NA	NA	NA	.25
7/18	96	71	84	4	351	531	.00	104	80	92	NA	NA	NA	.25
7/19	94	74	84	4	375	565	.00	102	84	93	NA	NA	NA	.23
7/20	91	75	83	3	398	598	.00	99	83	91	NA	NA	NA	.20
7/21	94	72	83	3	421	631	1.96	99	80	90	NA	NA	NA	.23
7/22	80	68	74	-6	435	655	.52	85	77	81	NA	NA	NA	.15
7/23	81	65	73	-7	448	678	.12	87	75	81	NA	NA	NA	.17
7/24	86	63	75	-5	463	703	.00	92	75	84	NA	NA	NA	.21
7/25	87	66	77	-3	480	730	.00	92	73	83	NA	NA	NA	.20
7/26	81	67	74	-6	494	754	.02	83	76	80	NA	NA	NA	.16
7/27	87	67	77	-3	511	781	.00	94	75	85	NA	NA	NA	.20
7/28	89	68	79	0	530	810	.00	96	77	87	NA	NA	NA	.21
7/29	90	68	79	0	549	839	Trace	96	78	87	NA	NA	NA	.22
7/30	93	68	81	2	570	870	.00	98	78	88	NA	NA	NA	.23
7/31	92	72	82	3	592	902	.00	99	80	90	NA	NA	NA	.21

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 89.3      Mean Minimum= 68.5      Average= 78.9  
                  DFN= -1.4                    DFN= +1.2                    DFN= -.1  
Highest= 99    Lowest= 62

PRECIPITATION STATISTICS (inches):  
Total= 4.49    DFN= -.05    Greatest Daily= 1.96    Rain Days= 13

SOIL TEMPERATURES (in degrees F):  
Highest= 104    Lowest= 71    Average= 85

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
8/ 1	90	68	79	0	19	29	.00	96	80	88	NA	NA	NA	.21
8/ 2	93	69	81	2	40	60	.00	98	80	89	NA	NA	NA	.23
8/ 3	94	69	82	3	62	92	.04	98	80	89	NA	NA	NA	.24
8/ 4	93	70	82	3	84	124	.04	99	79	89	NA	NA	NA	.23
8/ 5	91	70	81	2	105	155	.00	96	81	89	NA	NA	NA	.21
8/ 6	93	69	81	2	126	186	.00	101	82	92	NA	NA	NA	.23
8/ 7	94	73	84	5	150	220	.00	103	84	94	NA	NA	NA	.22
8/ 8	93	69	81	2	171	251	.00	101	83	92	NA	NA	NA	.23
8/ 9	95	70	83	4	194	284	.00	101	82	92	NA	NA	NA	.24
8/10	95	71	83	4	217	317	.14	100	81	91	NA	NA	NA	.23
8/11	94	72	83	4	240	350	.00	98	81	90	NA	NA	NA	.22
8/12	95	72	84	5	264	384	.04	99	81	90	NA	NA	NA	.23
8/13	93	70	82	3	286	416	.00	97	81	89	NA	NA	NA	.22
8/14	97	68	83	4	309	449	.00	104	81	93	NA	NA	NA	.25
8/15	98	69	84	5	333	483	.00	103	81	92	NA	NA	NA	.26
8/16	97	71	84	5	357	517	.10	103	82	93	NA	NA	NA	.24
8/17	98	71	85	6	382	552	.00	99	82	91	NA	NA	NA	.25
8/18	99	71	85	6	407	587	.00	100	83	92	NA	NA	NA	.25
8/19	99	72	86	7	433	623	.00	103	84	94	NA	NA	NA	.25
8/20	94	74	84	5	457	657	.26	95	82	89	NA	NA	NA	.21
8/21	85	72	79	1	476	686	.33	90	80	85	NA	NA	NA	.16
8/22	91	70	81	3	497	717	.00	93	78	86	NA	NA	NA	.20
8/23	93	70	82	4	519	749	.70	97	78	88	NA	NA	NA	.22
8/24	91	73	82	4	541	781	.05	91	80	86	NA	NA	NA	.19
8/25	91	61	76	-2	557	807	.00	96	74	85	NA	NA	NA	.23
8/26	92	60	76	-2	573	833	.00	98	73	86	NA	NA	NA	.24
8/27	93	60	77	-1	590	860	.00	102	76	89	NA	NA	NA	.24
8/28	96	64	80	3	610	890	.00	101	78	90	NA	NA	NA	.25
8/29	93	70	82	5	632	922	.00	99	80	90	NA	NA	NA	.21
8/30	78	63	71	-6	643	943	Trace	84	76	80	NA	NA	NA	.14
8/31	86	57	72	-5	655	965	.00	93	73	83	NA	NA	NA	.21

AIR TEMPERATURES (in degrees F):

Mean Maximum= 93.0      Mean Minimum= 68.6      Average= 80.8  
DFN= +2.5      DFN= +2.6      DFN= +2.6  
Highest= 99    Lowest= 57

PRECIPITATION STATISTICS (inches):

Total= 1.70    DFN= -1.53    Greatest Daily= .70    Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 104    Lowest= 73    Average= 89

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .22 (in)

National Weather Service  
 Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
 1988

DATE	AIR TEMPERATURE			GDD			PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
9/ 1	85	57	71	-5	11	21	.00	90	72	81	NA	NA	NA	.20
9/ 2	88	65	77	1	28	48	.00	94	76	85	NA	NA	NA	.19
9/ 3	87	65	76	0	44	74	.04	92	76	84	NA	NA	NA	.19
9/ 4	77	67	72	-4	56	96	1.43	80	75	78	NA	NA	NA	.12
9/ 5	80	54	67	-9	63	113	Trace	82	67	75	NA	NA	NA	.18
9/ 6	80	52	66	-9	69	129	.00	82	65	74	NA	NA	NA	.18
9/ 7	75	48	62	-13	71	141	.00	83	62	73	NA	NA	NA	.16
9/ 8	78	49	64	-11	75	155	.00	81	62	72	NA	NA	NA	.18
9/ 9	81	55	68	-7	83	173	.00	88	62	75	NA	NA	NA	.18
9/10	86	57	72	-2	95	195	.00	87	68	78	NA	NA	NA	.20
9/11	80	67	74	0	109	219	Trace	79	74	77	NA	NA	NA	.13
9/12	84	70	77	3	126	246	.49	79	75	77	NA	NA	NA	.14
9/13	81	69	75	1	141	271	.29	83	75	79	NA	NA	NA	.13
9/14	88	67	78	5	159	299	.00	88	75	82	NA	NA	NA	.18
9/15	91	64	78	5	177	327	.00	89	73	81	NA	NA	NA	.21
9/16	89	64	77	4	194	354	.00	90	72	81	NA	NA	NA	.19
9/17	75	67	71	-1	205	375	1.74	79	75	77	NA	NA	NA	.09
9/18	84	65	75	3	220	400	.19	87	75	81	NA	NA	NA	.16
9/19	85	65	75	3	235	425	.01	87	73	80	NA	NA	NA	.16
9/20	83	66	75	4	250	450	.10	80	73	77	NA	NA	NA	.14
9/21	87	61	74	3	264	474	.00	87	72	80	NA	NA	NA	.18
9/22	86	59	73	2	277	497	.00	86	70	78	NA	NA	NA	.18
9/23	89	59	74	3	291	521	.00	88	70	79	NA	NA	NA	.20
9/24	90	68	79	9	310	550	.00	90	70	80	NA	NA	NA	.18
9/25	87	67	77	7	327	577	.33	84	70	77	NA	NA	NA	.16
9/26	82	57	70	1	337	597	.00	85	69	77	NA	NA	NA	.16
9/27	80	57	69	0	346	616	.00	80	68	74	NA	NA	NA	.15
9/28	80	62	71	3	357	637	.00	84	70	77	NA	NA	NA	.13
9/29	74	60	67	-1	364	654	Trace	75	70	73	NA	NA	NA	.10
9/30	71	64	68	1	372	672	.41	73	70	72	NA	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 82.8      Mean Minimum= 61.6      Average= 72.2  
 DFN= -1.8              DFN= +1.4              DFN= -.2  
 Highest= 91    Lowest= 48

PRECIPITATION STATISTICS (inches):

Total= 5.03    DFN= +1.32    Greatest Daily= 1.74    Rain Days= 10

SOIL TEMPERATURES (in degrees F):

Highest= 94    Lowest= 62    Average= 78

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
 Solar Energy= NA (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
 Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
 1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	81	65	73	6	13	23	.00	81	70	76	NA	NA	NA	.13
10/ 2	75	62	69	2	22	42	1.04	74	70	72	NA	NA	NA	.10
10/ 3	76	60	68	2	30	60	.00	79	68	74	NA	NA	NA	.11
10/ 4	73	46	60	-6	30	70	.00	74	60	67	NA	NA	NA	.13
10/ 5	72	40	56	-10	30	76	.00	73	57	65	NA	NA	NA	.14
10/ 6	66	40	53	-12	30	79	.00	72	56	64	NA	NA	NA	.11
10/ 7	68	40	54	-11	30	83	.00	73	55	64	NA	NA	NA	.12
10/ 8	68	37	53	-11	30	86	.00	72	56	64	NA	NA	NA	.13
10/ 9	69	37	53	-11	30	89	.00	73	55	64	NA	NA	NA	.13
10/10	69	42	56	-8	30	95	.10	70	57	64	NA	NA	NA	.12
10/11	69	45	57	-6	30	102	.00	71	59	65	NA	NA	NA	.10
10/12	73	37	55	-8	30	107	.00	75	57	66	NA	NA	NA	.15
10/13	66	35	51	-11	30	108	.00	72	55	64	NA	NA	NA	.12
10/14	66	32	49	-13	30	108	.00	71	54	63	NA	NA	NA	.12
10/15	70	32	51	-10	30	109	.00	71	53	62	NA	NA	NA	.15
10/16	72	33	53	-8	30	112	.00	74	55	65	NA	NA	NA	.16
10/17	72	46	59	-2	30	121	.00	67	56	62	NA	NA	NA	.12
10/18	80	56	68	8	38	139	.00	75	62	69	NA	NA	NA	.13
10/19	72	47	60	0	38	149	.83	68	59	64	NA	NA	NA	.11
10/20	67	42	55	-4	38	154	.00	67	55	61	NA	NA	NA	.09
10/21	57	45	51	-8	38	155	.25	59	57	58	NA	NA	NA	.02
10/22	63	40	52	-7	38	157	.01	65	54	60	NA	NA	NA	.07
10/23	63	40	52	-6	38	159	.00	67	53	60	NA	NA	NA	.07
10/24	68	40	54	-4	38	163	.12	63	52	58	NA	NA	NA	.10
10/25	64	36	50	-8	38	163	.00	65	57	61	NA	NA	NA	.09
10/26	73	36	55	-2	38	168	.00	62	51	57	NA	NA	NA	.15
10/27	66	36	51	-6	38	169	.00	61	53	57	NA	NA	NA	.10
10/28	74	37	56	-1	38	175	.98	62	53	58	NA	NA	NA	.15
10/29	64	36	50	-6	38	175	.08	61	54	58	NA	NA	NA	.09
10/30	66	39	53	-3	38	178	.00	62	53	58	NA	NA	NA	.09
10/31	61	42	52	-4	38	180	.00	58	52	55	NA	NA	NA	.05

AIR TEMPERATURES (in degrees F):

Mean Maximum= 69.1      Mean Minimum= 42.0      Average= 55.5  
 DFN= -5.4                      DFN= -5.3                      DFN= -5.4  
 Highest= 81    Lowest= 32

PRECIPITATION STATISTICS (inches):

Total= 3.41    DFN= +.47    Greatest Daily= 1.04    Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 81    Lowest= 51    Average= 63

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
 Solar Energy= NA (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .11 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	51	45	48	-7	0	0	.02	55	54	55	NA	NA	NA	.00
11/ 2	65	40	53	-2	0	3	.00	63	54	59	NA	NA	NA	.08
11/ 3	68	40	54	0	0	7	.00	63	53	58	NA	NA	NA	.10
11/ 4	75	52	64	10	4	21	.00	63	55	59	NA	NA	NA	.10
11/ 5	68	48	58	4	4	29	2.24	61	57	59	NA	NA	NA	.07
11/ 6	63	43	53	0	4	32	.10	60	54	57	NA	NA	NA	.05
11/ 7	56	33	45	-8	4	32	.00	55	50	53	NA	NA	NA	.04
11/ 8	70	33	52	-1	4	34	.05	58	50	54	NA	NA	NA	.13
11/ 9	70	51	61	8	5	45	.01	62	57	60	NA	NA	NA	.07
11/10	67	51	59	7	5	54	.01	60	57	59	NA	NA	NA	.05
11/11	68	40	54	2	5	58	.18	63	55	59	NA	NA	NA	.09
11/12	60	40	50	-2	5	58	.00	59	54	57	NA	NA	NA	.04
11/13	65	40	53	1	5	61	.56	62	53	58	NA	NA	NA	.07
11/14	66	40	53	2	5	64	.00	62	54	58	NA	NA	NA	.07
11/15	71	40	56	5	5	70	.00	61	54	58	NA	NA	NA	.11
11/16	72	56	64	13	9	84	.00	61	56	59	NA	NA	NA	.06
11/17	71	36	54	4	9	88	.33	62	55	59	NA	NA	NA	.12
11/18	55	30	43	-7	9	88	.00	57	50	54	NA	NA	NA	.03
11/19	64	31	48	-1	9	88	.02	57	50	54	NA	NA	NA	.09
11/20	70	50	60	11	9	98	1.88	62	50	56	NA	NA	NA	.06
11/21	62	40	51	2	9	99	.00	61	54	58	NA	NA	NA	.05
11/22	52	32	42	-7	9	99	.00	55	49	52	NA	NA	NA	.01
11/23	63	32	48	-1	9	99	.00	55	48	52	NA	NA	NA	.08
11/24	65	32	49	1	9	99	.00	57	50	54	NA	NA	NA	.09
11/25	66	33	50	2	9	99	.00	56	48	52	NA	NA	NA	.09
11/26	70	45	58	10	9	107	Trace	58	52	55	NA	NA	NA	.08
11/27	69	52	61	13	10	118	2.22	60	56	58	NA	NA	NA	.05
11/28	60	37	49	2	10	118	.28	58	51	55	NA	NA	NA	.04
11/29	47	29	38	-9	10	118	.00	52	46	49	NA	NA	NA	.00
11/30	58	29	44	-3	10	118	.10	52	46	49	NA	NA	NA	.05

AIR TEMPERATURES (in degrees F):

Mean Maximum= 64.2      Mean Minimum= 40.0      Average= 52.1  
DFN= +1.4      DFN= +1.8      DFN= +1.6  
Highest= 75      Lowest= 29

PRECIPITATION STATISTICS (inches):

Total= 8.00      DFN= +3.61      Greatest Daily= 2.24      Rain Days= 14

SOIL TEMPERATURES (in degrees F):

Highest= 63      Lowest= 46      Average= 56

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .06 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Tennessee Valley Substation, Belle Mina  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	54	28	41	-6	0	0	.00	53	44	49	NA	NA	NA	.03
12/ 2	49	26	38	-8	0	0	.00	48	42	45	NA	NA	NA	.00
12/ 3	50	25	38	-8	0	0	.00	49	42	46	NA	NA	NA	.01
12/ 4	62	26	44	-2	0	0	.00	51	42	47	NA	NA	NA	.08
12/ 5	53	28	41	-4	0	0	.00	48	41	45	NA	NA	NA	.02
12/ 6	57	25	41	-4	0	0	.00	48	40	44	NA	NA	NA	.05
12/ 7	62	25	44	-1	0	0	.00	50	41	46	NA	NA	NA	.09
12/ 8	65	37	51	6	0	1	.00	52	44	48	NA	NA	NA	.07
12/ 9	53	33	43	-2	0	1	.15	50	44	47	NA	NA	NA	.00
12/10	41	23	32	-12	0	1	.02	45	40	43	NA	NA	NA	.00
12/11	41	24	33	-11	0	1	.00	45	40	43	NA	NA	NA	.00
12/12	38	24	31	-13	0	1	.00	42	38	40	NA	NA	NA	.00
12/13	42	25	34	-10	0	1	.00	44	37	41	NA	NA	NA	.00
12/14	51	29	40	-4	0	1	.00	45	37	41	NA	NA	NA	.00
12/15	62	30	46	2	0	1	.00	47	39	43	NA	NA	NA	.07
12/16	51	23	37	-6	0	1	.00	47	39	43	NA	NA	NA	.02
12/17	36	22	29	-14	0	1	.00	43	37	40	NA	NA	NA	.00
12/18	40	19	30	-13	0	1	.00	41	37	39	NA	NA	NA	.00
12/19	47	17	32	-11	0	1	.00	42	37	40	NA	NA	NA	.01
12/20	59	29	44	1	0	1	.00	45	37	41	NA	NA	NA	.05
12/21	69	51	60	17	0	11	Trace	51	44	48	NA	NA	NA	.05
12/22	60	47	54	12	0	15	.58	54	50	52	NA	NA	NA	.00
12/23	66	51	59	17	0	24	1.32	56	50	53	NA	NA	NA	.03
12/24	62	50	56	14	0	30	.09	56	55	56	NA	NA	NA	.00
12/25	67	35	51	9	0	31	.61	61	49	55	NA	NA	NA	.08
12/26	52	30	41	-1	0	31	.00	52	45	49	NA	NA	NA	.01
12/27	63	30	47	6	0	31	.00	61	47	54	NA	NA	NA	.07
12/28	68	43	56	15	0	37	.54	55	47	51	NA	NA	NA	.07
12/29	44	24	34	-7	0	37	Trace	53	40	47	NA	NA	NA	.00
12/30	44	24	34	-7	0	37	Trace	47	40	44	NA	NA	NA	.00
12/31	45	38	42	1	0	37	1.34	47	44	46	NA	NA	NA	.00

AIR TEMPERATURES (in degrees F):

Mean Maximum= 53.3      Mean Minimum= 30.4      Average= 41.8  
DFN= -.5      DFN= -2.3      DFN= -1.4  
Highest= 69      Lowest= 17

PRECIPITATION STATISTICS (inches):

Total= 4.65      DFN= -.72      Greatest Daily= 1.34      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 61      Lowest= 37      Average= 46

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .03 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
1/ 1	62	44	53	3	0	3	.15	57	50	54	NA	NA	NA	.03
1/ 2	63	38	51	1	0	4	1.15	60	53	57	NA	NA	NA	.06
1/ 3	52	38	45	-5	0	4	.27	53	50	52	NA	NA	NA	.00
1/ 4	50	40	45	-5	0	4	.08	50	50	50	NA	NA	NA	.00
1/ 5	50	29	40	-10	0	4	.00	53	41	47	NA	NA	NA	.01
1/ 6	50	25	38	-12	0	4	.00	52	39	46	NA	NA	NA	.02
1/ 7	47	26	37	-13	0	4	.00	45	39	42	NA	NA	NA	.00
1/ 8	44	33	39	-11	0	4	.61	43	43	43	NA	NA	NA	.00
1/ 9	39	29	34	-16	0	4	Trace	43	41	42	NA	NA	NA	.00
1/10	45	29	37	-13	0	4	.00	48	41	45	NA	NA	NA	.00
1/11	48	24	36	-14	0	4	.00	51	39	45	NA	NA	NA	.01
1/12	56	25	41	-8	0	4	.00	53	39	46	NA	NA	NA	.06
1/13	61	29	45	-4	0	4	.15	51	39	45	NA	NA	NA	.08
1/14	56	23	40	-9	0	4	.05	54	38	46	NA	NA	NA	.07
1/15	49	20	35	-15	0	4	.00	46	38	42	NA	NA	NA	.03
1/16	58	20	39	-11	0	4	.00	52	38	45	NA	NA	NA	.09
1/17	59	31	45	-5	0	4	.15	50	40	45	NA	NA	NA	.06
1/18	66	51	59	9	0	13	1.27	59	50	55	NA	NA	NA	.04
1/19	74	61	68	18	8	31	.15	65	59	62	NA	NA	NA	.06
1/20	73	55	64	14	12	45	.79	65	63	64	NA	NA	NA	.08
1/21	70	40	55	5	12	50	.00	67	52	60	NA	NA	NA	.10
1/22	53	25	39	-11	12	50	.00	58	42	50	NA	NA	NA	.04
1/23	51	21	36	-14	12	50	.00	56	40	48	NA	NA	NA	.05
1/24	58	22	40	-10	12	50	.00	55	40	48	NA	NA	NA	.09
1/25	53	35	44	-6	12	50	1.60	48	45	47	NA	NA	NA	.01
1/26	52	23	38	-12	12	50	.00	54	39	47	NA	NA	NA	.05
1/27	49	21	35	-15	12	50	.00	51	38	45	NA	NA	NA	.04
1/28	50	19	35	-15	12	50	.00	51	38	45	NA	NA	NA	.05
1/29	62	20	41	-9	12	50	.00	55	38	47	NA	NA	NA	.12
1/30	66	24	45	-5	12	50	.00	54	40	47	NA	NA	NA	.14
1/31	70	41	56	5	12	56	.00	58	45	52	NA	NA	NA	.11

AIR TEMPERATURES (in degrees F):

Mean Maximum= 56.0      Mean Minimum= 31.0      Average= 43.5  
DFN= -6.3                      DFN= -5.9                      DFN= -6.1  
Highest= 74      Lowest= 19

PRECIPITATION STATISTICS (inches):

Total= 6.42      DFN= +1.66      Greatest Daily= 1.60      Rain Days= 12

SOIL TEMPERATURES (in degrees F):

Highest= 67      Lowest= 38      Average= 48

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .05 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	72	50	61	10	1	11	Trace	60	50	55	NA	NA	NA	.09
2/ 2	74	51	63	12	4	24	Trace	62	55	59	NA	NA	NA	.10
2/ 3	72	62	67	16	11	41	.10	69	62	66	NA	NA	NA	.06
2/ 4	72	62	67	16	18	58	.06	65	64	65	NA	NA	NA	.06
2/ 5	67	33	50	-1	18	58	.29	65	47	56	NA	NA	NA	.12
2/ 6	36	26	31	-20	18	58	.77	48	40	44	NA	NA	NA	.00
2/ 7	39	15	27	-25	18	58	.00	50	37	44	NA	NA	NA	.00
2/ 8	44	15	30	-22	18	58	.00	46	37	42	NA	NA	NA	.03
2/ 9	59	23	41	-11	18	58	.00	58	40	49	NA	NA	NA	.10
2/10	61	24	43	-9	18	58	.00	57	40	49	NA	NA	NA	.11
2/11	66	26	46	-6	18	58	.00	59	42	51	NA	NA	NA	.14
2/12	64	20	42	-10	18	58	Trace	52	40	46	NA	NA	NA	.14
2/13	46	19	33	-19	18	58	.00	50	39	45	NA	NA	NA	.03
2/14	64	21	43	-9	18	58	.00	58	39	49	NA	NA	NA	.14
2/15	70	28	49	-3	18	58	1.36	61	42	52	NA	NA	NA	.16
2/16	57	24	41	-12	18	58	Trace	60	41	51	NA	NA	NA	.09
2/17	59	25	42	-11	18	58	.00	58	40	49	NA	NA	NA	.10
2/18	58	29	44	-9	18	58	.15	52	42	47	NA	NA	NA	.08
2/19	53	41	47	-6	18	58	2.05	51	48	50	NA	NA	NA	.01
2/20	63	46	55	2	18	63	.07	57	51	54	NA	NA	NA	.06
2/21	49	29	39	-15	18	63	.25	53	44	49	NA	NA	NA	.03
2/22	61	30	46	-8	18	63	.00	60	45	53	NA	NA	NA	.10
2/23	68	32	50	-4	18	63	.00	61	45	53	NA	NA	NA	.14
2/24	71	43	57	3	18	70	.04	62	50	56	NA	NA	NA	.13
2/25	59	24	42	-12	18	70	.00	60	43	52	NA	NA	NA	.11
2/26	62	26	44	-11	18	70	.00	61	43	52	NA	NA	NA	.12
2/27	69	27	48	-7	18	70	.00	63	43	53	NA	NA	NA	.17
2/28	71	40	56	1	18	76	.00	63	50	57	NA	NA	NA	.14
2/29	75	42	59	4	18	85	.00	69	51	60	NA	NA	NA	.16

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 61.4      Mean Minimum= 32.2      Average= 46.8  
DFN= -5.0                      DFN= -6.5                      DFN= -5.7  
Highest= 75      Lowest= 15

PRECIPITATION STATISTICS (inches):  
Total= 5.14      DFN= -.64      Greatest Daily= 2.05      Rain Days= 10

SOIL TEMPERATURES (in degrees F):  
Highest= 69      Lowest= 37      Average= 52

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .09 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
3/ 1	76	36	56	1	0	6	.00	72	52	62	NA	NA	NA	.18
3/ 2	74	33	54	-2	0	10	.00	71	51	61	NA	NA	NA	.18
3/ 3	77	35	56	0	0	16	.03	68	51	60	NA	NA	NA	.20
3/ 4	66	57	62	6	2	28	3.21	62	60	61	NA	NA	NA	.06
3/ 5	70	43	57	1	2	35	.00	67	54	61	NA	NA	NA	.13
3/ 6	59	43	51	-6	2	36	.00	60	54	57	NA	NA	NA	.06
3/ 7	74	40	57	0	2	43	.00	72	53	63	NA	NA	NA	.16
3/ 8	73	42	58	1	2	51	.00	68	53	61	NA	NA	NA	.15
3/ 9	63	52	58	1	2	59	.17	61	59	60	NA	NA	NA	.06
3/10	76	41	59	1	2	68	.31	71	52	62	NA	NA	NA	.18
3/11	57	29	43	-15	2	68	.00	62	47	55	NA	NA	NA	.09
3/12	72	36	54	-4	2	72	.00	68	47	58	NA	NA	NA	.17
3/13	70	48	59	1	2	81	.25	62	54	58	NA	NA	NA	.12
3/14	67	35	51	-8	2	82	.00	67	48	58	NA	NA	NA	.14
3/15	53	21	37	-22	2	82	.00	64	42	53	NA	NA	NA	.10
3/16	53	22	38	-21	2	82	.00	63	42	53	NA	NA	NA	.10
3/17	60	25	43	-16	2	82	.00	64	42	53	NA	NA	NA	.13
3/18	68	33	51	-9	2	83	.16	68	45	57	NA	NA	NA	.16
3/19	51	37	44	-16	2	83	.10	54	49	52	NA	NA	NA	.04
3/20	57	26	42	-18	2	83	.00	62	44	53	NA	NA	NA	.11
3/21	71	33	52	-8	2	85	.00	68	44	56	NA	NA	NA	.18
3/22	78	39	59	-2	2	94	.00	74	49	62	NA	NA	NA	.20
3/23	80	44	62	1	4	106	.00	77	56	67	NA	NA	NA	.20
3/24	78	50	64	3	8	120	.00	77	59	68	NA	NA	NA	.17
3/25	79	57	68	6	16	138	.00	74	61	68	NA	NA	NA	.16
3/26	70	51	61	-1	17	149	2.00	70	60	65	NA	NA	NA	.12
3/27	80	40	60	-2	17	159	1.40	70	57	64	NA	NA	NA	.22
3/28	77	37	57	-5	17	166	.00	70	54	62	NA	NA	NA	.21
3/29	82	44	63	0	20	179	.00	75	54	65	NA	NA	NA	.22
3/30	80	55	68	5	28	197	.00	73	61	67	NA	NA	NA	.17
3/31	83	58	71	8	39	218	.00	77	63	70	NA	NA	NA	.18

AIR TEMPERATURES (in degrees F):

Mean Maximum= 70.1      Mean Minimum= 40.1      Average= 55.1  
DFN= -3.1      DFN= -4.7      DFN= -3.9  
Highest= 83      Lowest= 21

PRECIPITATION STATISTICS (inches):

Total= 7.63      DFN= +1.43      Greatest Daily= 3.21      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 77      Lowest= 42      Average= 60

AVERAGE DAILY VALUES:

Fan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .15 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	77	61	69	6	9	19	.04	71	66	69	NA	NA	NA	.14
4/ 2	80	61	71	7	20	40	.00	75	66	71	NA	NA	NA	.15
4/ 3	68	57	63	-1	23	53	1.01	68	64	66	NA	NA	NA	.09
4/ 4	71	54	63	-1	26	66	.12	66	62	64	NA	NA	NA	.12
4/ 5	86	49	68	4	34	84	.00	82	62	72	NA	NA	NA	.23
4/ 6	90	50	70	6	44	104	.66	79	62	71	NA	NA	NA	.26
4/ 7	73	45	59	-6	44	113	.00	74	55	65	NA	NA	NA	.16
4/ 8	76	46	61	-4	45	124	.00	76	55	66	NA	NA	NA	.18
4/ 9	79	48	64	-1	49	138	.00	75	55	65	NA	NA	NA	.19
4/10	81	49	65	0	54	153	.00	76	63	70	NA	NA	NA	.20
4/11	83	53	68	2	62	171	.17	77	65	71	NA	NA	NA	.20
4/12	57	42	50	-16	62	171	.24	67	55	61	NA	NA	NA	.08
4/13	59	40	50	-16	62	171	.06	59	53	56	NA	NA	NA	.10
4/14	78	41	60	-6	62	181	.00	72	53	63	NA	NA	NA	.21
4/15	83	47	65	-1	67	196	.00	76	58	67	NA	NA	NA	.23
4/16	86	53	70	3	77	216	.00	79	62	71	NA	NA	NA	.23
4/17	79	49	64	-3	81	230	.00	83	65	74	NA	NA	NA	.20
4/18	83	50	67	0	88	247	.25	83	64	74	NA	NA	NA	.22
4/19	83	60	72	5	100	269	.70	77	67	72	NA	NA	NA	.19
4/20	68	43	56	-11	100	275	.00	73	59	66	NA	NA	NA	.15
4/21	78	45	62	-6	102	287	.00	78	59	69	NA	NA	NA	.20
4/22	86	51	69	1	111	306	.00	83	62	73	NA	NA	NA	.24
4/23	81	64	73	5	124	329	.00	75	69	72	NA	NA	NA	.16
4/24	82	71	77	9	141	356	.09	75	72	74	NA	NA	NA	.15
4/25	89	61	75	6	156	381	.02	85	70	78	NA	NA	NA	.23
4/26	87	61	74	5	170	405	.00	83	70	77	NA	NA	NA	.21
4/27	82	53	68	-1	178	423	.00	88	69	79	NA	NA	NA	.21
4/28	83	50	67	-2	185	440	.00	85	66	76	NA	NA	NA	.22
4/29	76	44	60	-9	185	450	.00	83	64	74	NA	NA	NA	.20
4/30	77	48	63	-7	188	463	Trace	82	64	73	NA	NA	NA	.19

AIR TEMPERATURES (in degrees F):

Mean Maximum= 78.7      Mean Minimum= 51.5      Average= 65.1  
DFN= -2.5      DFN= +.0      DFN= -1.2  
Highest= 90      Lowest= 40

PRECIPITATION STATISTICS (inches):

Total= 3.36      DFN= -1.80      Greatest Daily= 1.01      Rain Days= 11

SOIL TEMPERATURES (in degrees F):

Highest= 88      Lowest= 53      Average= 70

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA\*\*  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .18 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
5/ 1	78	55	67	-3	7	17	.00	71	63	67	NA	NA	NA	.18
5/ 2	80	45	63	-7	10	30	.00	84	63	74	NA	NA	NA	.22
5/ 3	84	47	66	-4	16	46	.00	87	65	76	NA	NA	NA	.24
5/ 4	83	50	67	-4	23	63	.00	82	66	74	NA	NA	NA	.23
5/ 5	85	53	69	-2	32	82	.00	84	67	76	NA	NA	NA	.23
5/ 6	78	47	63	-8	35	95	.00	83	66	75	NA	NA	NA	.20
5/ 7	83	46	65	-6	40	110	.00	83	66	75	NA	NA	NA	.24
5/ 8	86	51	69	-2	49	129	.00	86	66	76	NA	NA	NA	.24
5/ 9	84	59	72	0	61	151	.00	85	71	78	NA	NA	NA	.21
5/10	84	65	75	3	76	176	.00	82	72	77	NA	NA	NA	.19
5/11	88	52	70	-2	86	196	.00	84	69	77	NA	NA	NA	.25
5/12	88	50	69	-3	95	215	.00	89	69	79	NA	NA	NA	.26
5/13	81	53	67	-5	102	232	.00	81	70	76	NA	NA	NA	.21
5/14	83	54	69	-4	111	251	.00	86	70	78	NA	NA	NA	.22
5/15	88	55	72	-1	123	273	.00	89	70	80	NA	NA	NA	.25
5/16	92	58	75	2	138	298	.00	89	72	81	NA	NA	NA	.26
5/17	92	60	76	3	154	324	.78	89	71	80	NA	NA	NA	.26
5/18	91	53	72	-2	166	346	.00	84	69	77	NA	NA	NA	.27
5/19	87	53	70	-4	176	366	.00	88	69	79	NA	NA	NA	.25
5/20	88	55	72	-2	188	388	.00	91	70	81	NA	NA	NA	.25
5/21	89	60	75	1	203	413	.00	89	73	81	NA	NA	NA	.24
5/22	90	63	77	3	220	440	.00	90	74	82	NA	NA	NA	.23
5/23	81	63	72	-3	232	462	.16	79	71	75	NA	NA	NA	.18
5/24	87	65	76	1	248	488	.00	87	71	79	NA	NA	NA	.21
5/25	90	61	76	1	264	514	Trace	90	73	82	NA	NA	NA	.24
5/26	83	55	69	-6	273	533	.00	86	70	78	NA	NA	NA	.22
5/27	83	49	66	-9	279	549	.00	87	70	79	NA	NA	NA	.24
5/28	85	48	67	-9	286	566	.00	88	70	79	NA	NA	NA	.25
5/29	88	52	70	-6	296	586	.00	88	71	80	NA	NA	NA	.26
5/30	92	56	74	-2	310	610	.00	90	73	82	NA	NA	NA	.27
5/31	94	55	75	-1	325	635	.00	90	75	83	NA	NA	NA	.29

AIR TEMPERATURES (in degrees F):

Mean Maximum= 86.0      Mean Minimum= 54.5      Average= 70.2  
DFN= -1.3      DFN= -3.7      DFN= -2.5  
Highest= 94      Lowest= 45

PRECIPITATION STATISTICS (inches):

Total= .94      DFN= -3.80      Greatest Daily= .78      Rain Days= 2

SOIL TEMPERATURES (in degrees F):

Highest= 91      Lowest= 63      Average= 78

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .23 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
6/ 1	91	59	75	-1	15	25	.00	91	76	84	NA	NA	NA	.26
6/ 2	95	61	78	2	33	53	.00	91	77	84	NA	NA	NA	.27
6/ 3	95	65	80	3	53	83	Trace	92	79	86	NA	NA	NA	.26
6/ 4	93	65	79	2	72	112	.13	93	77	85	NA	NA	NA	.25
6/ 5	82	67	75	-2	87	137	Trace	88	76	82	NA	NA	NA	.17
6/ 6	76	65	71	-6	98	158	.04	79	73	76	NA	NA	NA	.14
6/ 7	81	63	72	-5	110	180	Trace	82	73	78	NA	NA	NA	.18
6/ 8	88	64	76	-1	126	206	.33	87	73	80	NA	NA	NA	.22
6/ 9	93	65	79	1	145	235	.00	89	73	81	NA	NA	NA	.25
6/10	95	62	79	1	164	264	.79	91	73	82	NA	NA	NA	.27
6/11	84	51	68	-10	172	282	.00	87	70	79	NA	NA	NA	.24
6/12	86	58	72	-6	184	304	.00	90	70	80	NA	NA	NA	.23
6/13	86	57	72	-6	196	326	.00	91	74	83	NA	NA	NA	.23
6/14	87	59	73	-6	209	349	.00	93	74	84	NA	NA	NA	.23
6/15	89	60	75	-4	224	374	.00	93	76	85	NA	NA	NA	.24
6/16	92	62	77	-2	241	401	.00	97	77	87	NA	NA	NA	.25
6/17	95	65	80	1	261	431	.00	96	79	88	NA	NA	NA	.26
6/18	97	67	82	3	283	463	.00	98	80	89	NA	NA	NA	.27
6/19	94	61	78	-1	301	491	.00	96	79	88	NA	NA	NA	.27
6/20	96	63	80	0	321	521	.00	98	79	89	NA	NA	NA	.28
6/21	93	67	80	0	341	551	Trace	93	80	87	NA	NA	NA	.24
6/22	95	69	82	2	363	583	Trace	95	81	88	NA	NA	NA	.25
6/23	91	70	81	1	384	614	.00	92	81	87	NA	NA	NA	.22
6/24	91	70	81	1	405	645	Trace	90	81	86	NA	NA	NA	.22
6/25	96	73	85	5	430	680	.00	94	81	88	NA	NA	NA	.24
6/26	99	73	86	6	456	716	Trace	99	84	92	NA	NA	NA	.26
6/27	98	70	84	4	480	750	Trace	96	84	90	NA	NA	NA	.27
6/28	103	71	87	7	507	787	.06	98	82	90	NA	NA	NA	.29
6/29	96	72	84	4	531	821	.00	98	82	90	NA	NA	NA	.25
6/30	99	76	88	8	559	859	.00	97	84	91	NA	NA	NA	.25

AIR TEMPERATURES (in degrees F):

Mean Maximum= 91.9      Mean Minimum= 65.0      Average= 78.4  
DFN= -.2      DFN= +.3      DFN= +.0  
Highest= 103    Lowest= 51

PRECIPITATION STATISTICS (inches):

Total= 1.35    DFN= -4.55    Greatest Daily= .79    Rain Days= 5

SOIL TEMPERATURES (in degrees F):

Highest= 99    Lowest= 70    Average= 85

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .24 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE			GDD			PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
7/ 1	92	73	83	3	23	33	.38	89	80	85	NA	NA	NA	.22
7/ 2	81	73	77	-3	40	60	.33	83	78	81	NA	NA	NA	.15
7/ 3	95	70	83	3	63	93	1.67	91	78	85	NA	NA	NA	.25
7/ 4	89	71	80	-1	83	123	.84	86	77	82	NA	NA	NA	.21
7/ 5	85	72	79	-2	102	152	Trace	85	77	81	NA	NA	NA	.18
7/ 6	84	69	77	-4	119	179	.49	83	75	79	NA	NA	NA	.18
7/ 7	86	68	77	-4	136	206	.00	85	75	80	NA	NA	NA	.20
7/ 8	87	64	76	-5	152	232	.00	90	75	83	NA	NA	NA	.21
7/ 9	91	64	78	-3	170	260	.00	93	75	84	NA	NA	NA	.24
7/10	94	69	82	1	192	292	.00	97	78	88	NA	NA	NA	.24
7/11	89	72	81	0	213	323	.52	98	79	89	NA	NA	NA	.20
7/12	89	73	81	0	234	354	.58	85	79	82	NA	NA	NA	.20
7/13	93	69	81	0	255	385	.00	90	79	85	NA	NA	NA	.24
7/14	95	71	83	2	278	418	.00	95	79	87	NA	NA	NA	.24
7/15	95	73	84	3	302	452	.00	96	82	89	NA	NA	NA	.24
7/16	97	70	84	3	326	486	1.23	103	80	92	NA	NA	NA	.26
7/17	91	71	81	0	347	517	.00	91	80	86	NA	NA	NA	.22
7/18	90	72	81	0	368	548	1.04	91	79	85	NA	NA	NA	.21
7/19	88	71	80	-1	388	578	.00	91	78	85	NA	NA	NA	.20
7/20	91	70	81	0	409	609	.00	94	79	87	NA	NA	NA	.22
7/21	91	72	82	1	431	641	.00	96	78	87	NA	NA	NA	.21
7/22	92	70	81	0	452	672	.45	95	81	88	NA	NA	NA	.22
7/23	84	67	76	-5	468	698	.60	84	77	81	NA	NA	NA	.18
7/24	87	67	77	-4	485	725	.00	88	77	83	NA	NA	NA	.20
7/25	90	65	78	-3	503	753	.00	90	78	84	NA	NA	NA	.23
7/26	92	67	80	-1	523	783	.00	95	78	87	NA	NA	NA	.23
7/27	92	68	80	-1	543	813	.32	95	79	87	NA	NA	NA	.23
7/28	83	69	76	-5	559	839	.08	85	78	82	NA	NA	NA	.17
7/29	95	69	82	1	581	871	.51	94	78	86	NA	NA	NA	.24
7/30	95	70	83	2	604	904	.00	91	78	85	NA	NA	NA	.24
7/31	96	69	83	2	627	937	.00	99	81	90	NA	NA	NA	.25

AIR TEMPERATURES (in degrees F):

Mean Maximum= 90.3      Mean Minimum= 69.6      Average= 80.0  
DFN= -2.7      DFN= +1.5      DFN= -.6  
Highest= 97    Lowest= 64

PRECIPITATION STATISTICS (inches):

Total= 9.04    DFN= +2.10    Greatest Daily= 1.67    Rain Days= 14

SOIL TEMPERATURES (in degrees F):

Highest= 103    Lowest= 75    Average= 85

AVERAGE DAILY VALUES:

Pan Evaporation= \*\*\* (in)    Hours of Wet Vegetation= \*\*\*\*  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .22 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
8/ 1	96	69	83	2	23	33	Trace	95	81	88	NA	NA	NA	.25
8/ 2	97	68	83	2	46	66	.03	100	82	91	NA	NA	NA	.26
8/ 3	95	69	82	1	68	98	.00	98	82	90	NA	NA	NA	.24
8/ 4	91	71	81	0	89	129	.00	93	82	88	NA	NA	NA	.21
8/ 5	85	72	79	-2	108	158	.08	90	81	86	NA	NA	NA	.17
8/ 6	86	73	80	-1	128	188	.17	87	79	83	NA	NA	NA	.17
8/ 7	83	73	78	-3	146	216	.66	84	79	82	NA	NA	NA	.15
8/ 8	79	72	76	-5	162	242	.60	80	77	79	NA	NA	NA	.13
8/ 9	80	72	76	-5	178	268	.42	78	76	77	NA	NA	NA	.14
8/10	90	70	80	-1	198	298	.00	87	75	81	NA	NA	NA	.21
8/11	95	71	83	2	221	331	.02	95	77	86	NA	NA	NA	.23
8/12	96	70	83	2	244	364	.23	94	80	87	NA	NA	NA	.24
8/13	91	70	81	1	265	395	.08	89	78	84	NA	NA	NA	.21
8/14	93	70	82	2	287	427	.00	94	78	86	NA	NA	NA	.22
8/15	94	69	82	2	309	459	.00	94	81	88	NA	NA	NA	.23
8/16	84	71	78	-2	327	487	.64	89	79	84	NA	NA	NA	.16
8/17	90	70	80	0	347	517	.09	88	78	83	NA	NA	NA	.20
8/18	93	70	82	2	369	549	.00	94	78	86	NA	NA	NA	.22
8/19	95	71	83	3	392	582	.00	97	80	89	NA	NA	NA	.23
8/20	93	71	82	2	414	614	.00	94	82	88	NA	NA	NA	.22
8/21	93	72	83	3	437	647	1.21	94	80	87	NA	NA	NA	.21
8/22	87	67	77	-3	454	674	.00	88	78	83	NA	NA	NA	.19
8/23	92	69	81	1	475	705	.05	90	78	84	NA	NA	NA	.21
8/24	92	70	81	1	496	736	.16	89	79	84	NA	NA	NA	.21
8/25	92	71	82	2	518	768	.09	88	79	84	NA	NA	NA	.21
8/26	93	65	79	-1	537	797	.00	91	78	85	NA	NA	NA	.23
8/27	95	66	81	1	558	828	.00	96	78	87	NA	NA	NA	.24
8/28	93	68	81	1	579	859	.00	95	81	88	NA	NA	NA	.22
8/29	93	68	81	2	600	890	.00	94	81	88	NA	NA	NA	.22
8/30	95	69	82	3	622	922	.00	95	82	89	NA	NA	NA	.23
8/31	93	68	81	2	643	953	.06	96	81	89	NA	NA	NA	.22

AIR TEMPERATURES (in degrees F):

Mean Maximum= 91.1      Mean Minimum= 69.8      Average= 80.5  
 DFN= -1.4                      DFN= +2.5                      DFN= +.5  
 Highest= 97    Lowest= 65

PRECIPITATION STATISTICS (inches):

Total= 4.59    DFN= -.92    Greatest Daily= 1.21    Rain Days= 16

SOIL TEMPERATURES (in degrees F):

Highest= 100    Lowest= 75    Average= 85

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
 Solar Energy= NA (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
9/ 1	91	70	81	2	21	31	.12	93	81	87	NA	NA	NA	.20
9/ 2	83	72	78	-1	39	59	.00	83	79	81	NA	NA	NA	.14
9/ 3	86	71	79	0	58	88	.11	86	78	82	NA	NA	NA	.16
9/ 4	91	70	81	2	79	119	.71	88	78	83	NA	NA	NA	.20
9/ 5	78	63	71	-7	90	140	1.48	79	74	77	NA	NA	NA	.14
9/ 6	83	57	70	-8	100	160	.00	86	72	79	NA	NA	NA	.19
9/ 7	82	53	68	-10	108	178	.00	85	71	78	NA	NA	NA	.19
9/ 8	86	54	70	-8	118	198	.00	86	71	79	NA	NA	NA	.21
9/ 9	73	60	67	-11	125	215	.49	75	71	73	NA	NA	NA	.11
9/10	73	64	69	-9	134	234	5.53	72	72	72	NA	NA	NA	.10
9/11	79	70	75	-2	149	259	3.80	75	72	74	NA	NA	NA	.12
9/12	91	67	79	2	168	288	.38	85	75	80	NA	NA	NA	.20
9/13	91	68	80	3	188	318	.00	88	75	82	NA	NA	NA	.20
9/14	93	62	78	1	206	346	.00	89	77	83	NA	NA	NA	.23
9/15	92	68	80	3	226	376	.00	92	78	85	NA	NA	NA	.20
9/16	89	70	80	4	246	406	1.96	86	78	82	NA	NA	NA	.18
9/17	78	72	75	-1	261	431	.88	79	77	78	NA	NA	NA	.10
9/18	88	69	79	3	280	460	.10	84	76	80	NA	NA	NA	.17
9/19	91	70	81	5	301	491	.02	86	76	81	NA	NA	NA	.19
9/20	91	68	80	5	321	521	.00	88	77	83	NA	NA	NA	.19
9/21	93	69	81	6	342	552	.00	92	78	85	NA	NA	NA	.20
9/22	93	68	81	6	363	583	.00	93	80	87	NA	NA	NA	.20
9/23	93	69	81	7	384	614	.00	94	80	87	NA	NA	NA	.20
9/24	93	69	81	7	405	645	.24	92	79	86	NA	NA	NA	.20
9/25	92	70	81	8	426	676	.06	89	78	84	NA	NA	NA	.19
9/26	92	70	81	8	447	707	.00	89	78	84	NA	NA	NA	.19
9/27	90	70	80	7	467	737	.14	88	78	83	NA	NA	NA	.18
9/28	81	65	73	1	480	760	.00	82	75	79	NA	NA	NA	.13
9/29	87	66	77	5	497	787	.37	84	75	80	NA	NA	NA	.17
9/30	89	67	78	6	515	815	.00	86	74	80	NA	NA	NA	.18

AIR TEMPERATURES (in degrees F):

Mean Maximum= 87.1      Mean Minimum= 66.7      Average= 76.9  
DFN= -1.2                      DFN= +3.2                      DFN= +1.0  
Highest= 93    Lowest= 53

PRECIPITATION STATISTICS (inches):

Total= 16.39    DFN= +11.37    Greatest Daily= 5.53    Rain Days= 16

SOIL TEMPERATURES (in degrees F):

Highest= 94    Lowest= 71    Average= 81

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .18 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	85	66	76	5	16	26	.15	82	75	79	NA	NA	NA	.15
10/ 2	82	66	74	3	30	50	.74	78	75	77	NA	NA	NA	.13
10/ 3	75	65	70	0	40	70	1.27	76	73	75	NA	NA	NA	.09
10/ 4	79	52	66	-4	46	86	.00	78	68	73	NA	NA	NA	.16
10/ 5	75	46	61	-8	47	97	.00	76	65	71	NA	NA	NA	.15
10/ 6	74	45	60	-9	47	107	.00	74	63	69	NA	NA	NA	.15
10/ 7	76	45	61	-8	48	118	.00	77	63	70	NA	NA	NA	.16
10/ 8	76	45	61	-7	49	129	.00	78	63	71	NA	NA	NA	.16
10/ 9	73	41	57	-11	49	136	.00	78	64	71	NA	NA	NA	.15
10/10	74	43	59	-8	49	145	.05	74	63	69	NA	NA	NA	.15
10/11	76	43	60	-7	49	155	.00	77	64	71	NA	NA	NA	.16
10/12	78	43	61	-5	50	166	.00	77	64	71	NA	NA	NA	.17
10/13	73	36	55	-11	50	171	.00	76	62	69	NA	NA	NA	.16
10/14	69	33	51	-15	50	172	.00	73	60	67	NA	NA	NA	.15
10/15	70	33	52	-13	50	174	.00	72	59	66	NA	NA	NA	.15
10/16	78	34	56	-9	50	180	.00	74	59	67	NA	NA	NA	.20
10/17	82	47	65	0	55	195	.00	76	63	70	NA	NA	NA	.18
10/18	84	48	66	2	61	211	.00	79	67	73	NA	NA	NA	.19
10/19	85	49	67	3	68	228	.00	80	67	74	NA	NA	NA	.19
10/20	77	50	64	0	72	242	.00	75	67	71	NA	NA	NA	.14
10/21	75	50	63	0	75	255	.00	74	67	71	NA	NA	NA	.13
10/22	74	44	59	-4	75	264	.68	73	60	67	NA	NA	NA	.14
10/23	76	39	58	-5	75	272	.00	73	58	66	NA	NA	NA	.17
10/24	81	39	60	-2	75	282	.16	73	58	66	NA	NA	NA	.20
10/25	74	37	56	-6	75	288	.00	73	58	66	NA	NA	NA	.16
10/26	78	38	58	-4	75	296	.00	72	57	65	NA	NA	NA	.18
10/27	79	42	61	0	76	307	.00	69	59	64	NA	NA	NA	.17
10/28	82	49	66	5	82	323	.00	75	62	69	NA	NA	NA	.17
10/29	84	57	71	10	93	344	.00	76	62	69	NA	NA	NA	.15
10/30	78	58	68	8	101	362	.00	75	68	72	NA	NA	NA	.11
10/31	74	59	67	7	108	379	.00	73	68	71	NA	NA	NA	.08

AIR TEMPERATURES (in degrees F):

Mean Maximum= 77.3      Mean Minimum= 46.5      Average= 61.9  
DFN= -2.6      DFN= -3.6      DFN= -3.1  
Highest= 85      Lowest= 33

PRECIPITATION STATISTICS (inches):

Total= 3.05      DFN= +.13      Greatest Daily= 1.27      Rain Days= 6

SOIL TEMPERATURES (in degrees F):

Highest= 82      Lowest= 57      Average= 70

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .15 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
11/ 1	66	49	58	-2	0	8	.05	68	64	66	NA	NA	NA	.06
11/ 2	62	36	49	-10	0	8	.00	68	56	62	NA	NA	NA	.08
11/ 3	81	38	60	1	0	18	.00	71	56	64	NA	NA	NA	.19
11/ 4	80	50	65	6	5	33	.00	72	60	66	NA	NA	NA	.15
11/ 5	83	55	69	10	14	52	1.05	73	63	68	NA	NA	NA	.15
11/ 6	75	38	57	-1	14	59	.00	70	56	63	NA	NA	NA	.15
11/ 7	68	32	50	-8	14	59	.00	66	53	60	NA	NA	NA	.13
11/ 8	75	34	55	-3	14	64	.00	68	53	61	NA	NA	NA	.16
11/ 9	83	55	69	11	23	83	.00	71	60	66	NA	NA	NA	.15
11/10	83	52	68	11	31	101	.00	75	63	69	NA	NA	NA	.15
11/11	83	51	67	10	38	118	.05	74	63	69	NA	NA	NA	.16
11/12	73	44	59	2	38	127	.00	72	59	66	NA	NA	NA	.12
11/13	74	49	62	5	40	139	.77	68	59	64	NA	NA	NA	.11
11/14	69	52	61	5	41	150	.00	67	63	65	NA	NA	NA	.06
11/15	83	59	71	15	52	171	.00	74	63	69	NA	NA	NA	.13
11/16	81	58	70	14	62	191	.00	73	65	69	NA	NA	NA	.12
11/17	81	50	66	11	68	207	.38	71	62	67	NA	NA	NA	.14
11/18	68	43	56	1	68	213	.00	67	57	62	NA	NA	NA	.08
11/19	71	48	60	5	68	223	.00	65	57	61	NA	NA	NA	.09
11/20	79	60	70	15	78	243	.44	69	65	67	NA	NA	NA	.10
11/21	72	40	56	2	78	249	.00	69	55	62	NA	NA	NA	.12
11/22	62	41	52	-2	78	251	.00	62	55	59	NA	NA	NA	.05
11/23	64	45	55	1	78	256	.00	61	55	58	NA	NA	NA	.05
11/24	63	35	49	-5	78	256	.00	62	53	58	NA	NA	NA	.07
11/25	73	37	55	1	78	261	.00	65	53	59	NA	NA	NA	.13
11/26	76	48	62	8	80	273	.00	67	57	62	NA	NA	NA	.11
11/27	77	60	69	15	89	292	.12	69	62	66	NA	NA	NA	.08
11/28	79	37	58	5	89	300	.16	70	54	62	NA	NA	NA	.17
11/29	59	26	43	-10	89	300	.00	62	47	55	NA	NA	NA	.08
11/30	64	27	46	-7	89	300	.00	56	47	52	NA	NA	NA	.10

AIR TEMPERATURES (in degrees F):

Mean Maximum= 73.6      Mean Minimum= 45.0      Average= 59.3  
DFN= +3.5      DFN= +3.5      DFN= +3.5  
Highest= 83      Lowest= 26

PRECIPITATION STATISTICS (inches):

Total= 3.02      DFN= -1.03      Greatest Daily= 1.05      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 75      Lowest= 47      Average= 63

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .11 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Brewton Experiment Field, Brewton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	68	26	47	-6	0	0	.00	61	48	55	NA	NA	NA	.13
12/ 2	63	25	44	-9	0	0	.00	60	47	54	NA	NA	NA	.10
12/ 3	58	23	41	-12	0	0	.00	60	45	53	NA	NA	NA	.08
12/ 4	65	25	45	-8	0	0	.00	60	45	53	NA	NA	NA	.11
12/ 5	70	28	49	-4	0	0	.00	65	47	56	NA	NA	NA	.14
12/ 6	67	29	48	-4	0	0	.00	60	47	54	NA	NA	NA	.11
12/ 7	70	29	50	-2	0	0	.00	59	47	53	NA	NA	NA	.13
12/ 8	74	40	57	5	0	7	.00	63	53	58	NA	NA	NA	.12
12/ 9	73	40	57	5	0	14	.00	61	53	57	NA	NA	NA	.12
12/10	50	37	44	-8	0	14	.00	60	53	57	NA	NA	NA	.00
12/11	58	38	48	-4	0	14	.64	56	50	53	NA	NA	NA	.03
12/12	46	35	41	-10	0	14	.18	50	48	49	NA	NA	NA	.00
12/13	45	23	34	-17	0	14	.03	50	42	46	NA	NA	NA	.00
12/14	60	23	42	-9	0	14	.00	54	42	48	NA	NA	NA	.09
12/15	66	28	47	-4	0	14	.00	55	45	50	NA	NA	NA	.11
12/16	74	36	55	4	0	19	.43	61	52	57	NA	NA	NA	.13
12/17	52	20	36	-15	0	19	Trace	62	42	52	NA	NA	NA	.05
12/18	53	19	36	-15	0	19	.00	50	40	45	NA	NA	NA	.06
12/19	55	20	38	-13	0	19	.00	50	40	45	NA	NA	NA	.06
12/20	61	23	42	-8	0	19	.00	53	40	47	NA	NA	NA	.09
12/21	67	46	57	7	0	26	.00	54	50	52	NA	NA	NA	.06
12/22	78	51	65	15	5	41	.00	64	53	59	NA	NA	NA	.11
12/23	79	58	69	19	14	60	.00	65	60	63	NA	NA	NA	.10
12/24	79	60	70	20	24	80	.00	69	61	65	NA	NA	NA	.09
12/25	80	44	62	12	26	92	Trace	70	57	64	NA	NA	NA	.15
12/26	69	30	50	0	26	92	.00	65	50	58	NA	NA	NA	.12
12/27	72	29	51	1	26	93	.00	62	50	56	NA	NA	NA	.14
12/28	74	44	59	9	26	102	.00	63	52	58	NA	NA	NA	.11
12/29	71	30	51	1	26	103	.58	63	47	55	NA	NA	NA	.13
12/30	60	30	45	-5	26	103	.00	58	47	53	NA	NA	NA	.06
12/31	73	47	60	10	26	113	.00	63	54	59	NA	NA	NA	.09

AIR TEMPERATURES (in degrees F):

Mean Maximum= 65.5      Mean Minimum= 33.4      Average= 49.5  
DFN= +1.5      DFN= -4.4      DFN= -1.5  
Highest= 80      Lowest= 19

PRECIPITATION STATISTICS (inches):

Total= 1.86      DFN= -3.74      Greatest Daily= .64      Rain Days= 5

SOIL TEMPERATURES (in degrees F):

Highest= 70      Lowest= 40      Average= 54

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .09 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	73	54	64	17	4	14	.01	60	49	55	NA	NA	NA	.08
2/ 2	75	59	67	20	11	31	.05	62	55	59	NA	NA	NA	.08
2/ 3	73	64	69	22	20	50	1.03	65	59	62	NA	NA	NA	.05
2/ 4	71	56	64	17	24	64	.95	65	62	64	NA	NA	NA	.07
2/ 5	57	36	47	0	24	64	.00	64	51	58	NA	NA	NA	.04
2/ 6	40	23	32	-15	24	64	.00	51	43	47	NA	NA	NA	.00
2/ 7	34	16	25	-23	24	64	.00	49	40	45	NA	NA	NA	.00
2/ 8	37	17	27	-21	24	64	.00	43	39	41	NA	NA	NA	.00
2/ 9	53	27	40	-8	24	64	.00	53	42	48	NA	NA	NA	.05
2/10	57	27	42	-6	24	64	.00	54	42	48	NA	NA	NA	.07
2/11	64	30	47	-1	24	64	.00	54	43	49	NA	NA	NA	.11
2/12	57	18	38	-10	24	64	.04	52	41	47	NA	NA	NA	.10
2/13	40	19	30	-19	24	64	.00	49	40	45	NA	NA	NA	.00
2/14	58	21	40	-9	24	64	.00	52	39	46	NA	NA	NA	.10
2/15	70	32	51	2	24	65	1.00	56	38	47	NA	NA	NA	.14
2/16	52	23	38	-11	24	65	.00	52	41	47	NA	NA	NA	.06
2/17	53	24	39	-11	24	65	.00	54	41	48	NA	NA	NA	.06
2/18	58	33	46	-4	24	65	.00	51	42	47	NA	NA	NA	.07
2/19	53	41	47	-3	24	65	1.34	49	46	48	NA	NA	NA	.01
2/20	61	45	53	3	24	68	.00	56	49	53	NA	NA	NA	.05
2/21	55	33	44	-7	24	68	.00	54	46	50	NA	NA	NA	.05
2/22	58	32	45	-6	24	68	.00	58	45	52	NA	NA	NA	.07
2/23	71	45	58	7	24	76	.00	61	46	54	NA	NA	NA	.12
2/24	69	38	54	3	24	80	.03	60	49	55	NA	NA	NA	.13
2/25	57	28	43	-9	24	80	.00	60	44	52	NA	NA	NA	.08
2/26	59	29	44	-8	24	80	.00	58	44	51	NA	NA	NA	.09
2/27	69	32	51	-1	24	81	.00	59	44	52	NA	NA	NA	.15
2/28	70	40	55	3	24	86	.00	60	45	53	NA	NA	NA	.13
2/29	71	39	55	2	24	91	.00	64	49	57	NA	NA	NA	.14

AIR TEMPERATURES (in degrees F):

Mean Maximum= 59.1      Mean Minimum= 33.8      Average= 46.5  
DFN= -2.1      DFN= -3.1      DFN= -2.6  
Highest= 75      Lowest= 16

PRECIPITATION STATISTICS (inches):

Total= 4.45      DFN= -.73      Greatest Daily= 1.34      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 65      Lowest= 38      Average= 51

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .07 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
3/ 1	74	39	57	4	0	7	.00	65	49	57	NA	NA	NA	.16
3/ 2	69	39	54	1	0	11	.00	65	49	57	NA	NA	NA	.13
3/ 3	75	43	59	6	0	20	.00	64	49	57	NA	NA	NA	.16
3/ 4	68	51	60	7	0	30	.36	61	56	59	NA	NA	NA	.09
3/ 5	61	38	50	-4	0	30	.00	62	52	57	NA	NA	NA	.08
3/ 6	58	37	48	-6	0	30	.00	63	50	57	NA	NA	NA	.07
3/ 7	70	37	54	0	0	34	.00	65	50	58	NA	NA	NA	.15
3/ 8	75	42	59	5	0	43	.00	66	51	59	NA	NA	NA	.16
3/ 9	66	53	60	5	0	53	.18	59	54	57	NA	NA	NA	.07
3/10	68	41	55	0	0	58	.22	64	51	58	NA	NA	NA	.12
3/11	54	35	45	-10	0	58	.00	56	48	52	NA	NA	NA	.05
3/12	73	40	57	1	0	65	.00	66	48	57	NA	NA	NA	.16
3/13	72	46	59	3	0	74	.10	63	53	58	NA	NA	NA	.14
3/14	61	35	48	-8	0	74	.00	65	48	57	NA	NA	NA	.10
3/15	50	25	38	-18	0	74	.00	60	43	52	NA	NA	NA	.06
3/16	51	27	39	-18	0	74	.00	59	43	51	NA	NA	NA	.07
3/17	58	31	45	-12	0	74	.00	61	43	52	NA	NA	NA	.10
3/18	66	33	50	-7	0	74	.12	63	45	54	NA	NA	NA	.14
3/19	53	36	45	-12	0	74	.14	54	46	50	NA	NA	NA	.05
3/20	55	36	46	-12	0	74	.00	60	46	53	NA	NA	NA	.07
3/21	72	38	55	-3	0	79	.00	63	46	55	NA	NA	NA	.17
3/22	79	46	63	5	3	92	.00	68	49	59	NA	NA	NA	.19
3/23	82	45	64	5	7	106	.00	71	52	62	NA	NA	NA	.21
3/24	80	49	65	6	12	121	.00	72	54	63	NA	NA	NA	.19
3/25	82	58	70	11	22	141	.07	72	57	65	NA	NA	NA	.17
3/26	67	57	62	2	24	153	2.46	62	61	62	NA	NA	NA	.08
3/27	80	43	62	2	26	165	.00	69	60	65	NA	NA	NA	.21
3/28	73	43	58	-2	26	173	.00	74	55	65	NA	NA	NA	.16
3/29	83	50	67	7	33	190	.00	73	55	64	NA	NA	NA	.20
3/30	83	58	71	10	44	211	Trace	73	58	66	NA	NA	NA	.18
3/31	80	60	70	9	54	231	.00	72	63	68	NA	NA	NA	.16

AIR TEMPERATURES (in degrees F):

Mean Maximum= 69.0      Mean Minimum= 42.3      Average= 55.6  
DFN= +.1      DFN= -1.4      DFN= -.7  
Highest= 83    Lowest= 25

PRECIPITATION STATISTICS (inches):

Total= 3.65    DFN= -3.60    Greatest Daily= 2.46    Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 74    Lowest= 43    Average= 58

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .13 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	80	61	71	10	11	21	.05	72	63	68	NA	NA	NA	.15
4/ 2	82	63	73	11	24	44	.03	75	64	70	NA	NA	NA	.16
4/ 3	67	58	63	1	27	57	.80	67	63	65	NA	NA	NA	.08
4/ 4	70	54	62	0	29	69	.02	69	62	66	NA	NA	NA	.11
4/ 5	85	55	70	7	39	89	.00	81	62	72	NA	NA	NA	.21
4/ 6	90	56	73	10	52	112	.01	81	62	72	NA	NA	NA	.24
4/ 7	72	45	59	-4	52	121	.00	80	60	70	NA	NA	NA	.16
4/ 8	74	45	60	-3	52	131	.00	80	60	70	NA	NA	NA	.17
4/ 9	79	48	64	0	56	145	.00	81	60	71	NA	NA	NA	.19
4/10	79	50	65	1	61	160	.00	81	59	70	NA	NA	NA	.19
4/11	82	52	67	3	68	177	.00	80	59	70	NA	NA	NA	.20
4/12	54	39	47	-18	68	177	.26	65	56	61	NA	NA	NA	.07
4/13	60	42	51	-14	68	178	.00	64	56	60	NA	NA	NA	.09
4/14	78	46	62	-3	70	190	.00	75	56	66	NA	NA	NA	.20
4/15	82	51	67	2	77	207	.00	78	58	68	NA	NA	NA	.21
4/16	82	50	66	0	83	223	.00	80	62	71	NA	NA	NA	.21
4/17	75	48	62	-4	85	235	.00	79	62	71	NA	NA	NA	.17
4/18	83	48	66	0	91	251	.36	82	61	72	NA	NA	NA	.22
4/19	83	57	70	3	101	271	1.31	79	65	72	NA	NA	NA	.20
4/20	64	43	54	-13	101	275	.00	78	58	68	NA	NA	NA	.12
4/21	75	46	61	-6	102	286	.00	78	58	68	NA	NA	NA	.18
4/22	83	53	68	1	110	304	.00	80	60	70	NA	NA	NA	.21
4/23	77	62	70	2	120	324	.05	72	65	69	NA	NA	NA	.14
4/24	77	65	71	3	131	345	.57	73	70	72	NA	NA	NA	.14
4/25	81	57	69	1	140	364	.09	85	68	77	NA	NA	NA	.19
4/26	76	57	67	-1	147	381	.48	85	67	76	NA	NA	NA	.16
4/27	77	54	66	-2	153	397	.00	82	65	74	NA	NA	NA	.17
4/28	78	47	63	-5	156	410	.00	82	62	72	NA	NA	NA	.20
4/29	74	46	60	-9	156	420	.00	83	62	73	NA	NA	NA	.18
4/30	77	48	63	-6	159	433	.00	84	62	73	NA	NA	NA	.19

AIR TEMPERATURES (in degrees F):

Mean Maximum= 76.5      Mean Minimum= 51.5      Average= 64.0  
DFN= -1.2                      DFN= -1.0                      DFN= -1.1  
Highest= 90      Lowest= 39

PRECIPITATION STATISTICS (inches):

Total= 4.03      DFN= -1.17      Greatest Daily= 1.31      Rain Days= 12

SOIL TEMPERATURES (in degrees F):

Highest= 85      Lowest= 56      Average= 70

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .17 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
5/ 1	78	48	63	-6	3	13	.00	85	62	74	NA	NA	NA	.20
5/ 2	79	48	64	-5	7	27	.00	86	62	74	NA	NA	NA	.21
5/ 3	83	50	67	-2	14	44	.00	88	64	76	NA	NA	NA	.23
5/ 4	82	52	67	-2	21	61	.02	85	66	76	NA	NA	NA	.21
5/ 5	78	52	65	-5	26	76	.00	84	67	76	NA	NA	NA	.19
5/ 6	77	52	65	-5	31	91	.00	86	67	77	NA	NA	NA	.18
5/ 7	83	54	69	-1	40	110	.00	88	67	78	NA	NA	NA	.21
5/ 8	85	53	69	-1	49	129	.00	89	67	78	NA	NA	NA	.23
5/ 9	86	61	74	4	63	153	.00	88	67	78	NA	NA	NA	.21
5/10	86	66	76	5	79	179	.00	84	72	78	NA	NA	NA	.20
5/11	85	52	69	-2	88	198	.00	86	69	78	NA	NA	NA	.23
5/12	87	52	70	-1	98	218	.00	91	69	80	NA	NA	NA	.25
5/13	79	50	65	-6	103	233	.00	81	70	76	NA	NA	NA	.20
5/14	81	51	66	-6	109	249	.00	81	69	75	NA	NA	NA	.21
5/15	89	54	72	0	121	271	.00	91	68	80	NA	NA	NA	.25
5/16	91	62	77	5	138	298	.00	93	71	82	NA	NA	NA	.24
5/17	89	63	76	4	154	324	.00	86	72	79	NA	NA	NA	.23
5/18	89	56	73	1	167	347	.00	94	71	83	NA	NA	NA	.25
5/19	85	54	70	-3	177	367	.00	93	71	82	NA	NA	NA	.23
5/20	87	55	71	-2	188	388	.00	94	72	83	NA	NA	NA	.24
5/21	89	60	75	2	203	413	.00	94	72	83	NA	NA	NA	.24
5/22	92	59	76	3	219	439	.23	92	71	82	NA	NA	NA	.26
5/23	91	59	75	1	234	464	Trace	77	70	74	NA	NA	NA	.25
5/24	85	64	75	1	249	489	.10	83	70	77	NA	NA	NA	.20
5/25	83	62	73	-1	262	512	.13	80	70	75	NA	NA	NA	.19
5/26	81	53	67	-7	269	529	.00	84	66	75	NA	NA	NA	.21
5/27	82	53	68	-7	277	547	.00	90	66	78	NA	NA	NA	.22
5/28	85	53	69	-6	286	566	.00	91	68	80	NA	NA	NA	.24
5/29	89	56	73	-2	299	589	.00	93	70	82	NA	NA	NA	.25
5/30	92	57	75	0	314	614	.00	95	69	82	NA	NA	NA	.27
5/31	93	61	77	1	331	641	.00	95	73	84	NA	NA	NA	.26

AIR TEMPERATURES (in degrees F):

Mean Maximum= 85.2      Mean Minimum= 55.5      Average= 70.4  
DFN= +1.5      DFN= -4.5      DFN= -1.5  
Highest= 93      Lowest= 48

PRECIPITATION STATISTICS (inches):

Total= .48      DFN= -4.00      Greatest Daily= .23      Rain Days= 4

SOIL TEMPERATURES (in degrees F):

Highest= 95      Lowest= 62      Average= 78

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .23 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
6/ 1	94	61	78	2	18	28	.00	98	75	87	NA	NA	NA	.27
6/ 2	94	63	79	3	37	57	.00	95	75	85	NA	NA	NA	.26
6/ 3	93	64	79	3	56	86	.00	92	76	84	NA	NA	NA	.25
6/ 4	93	67	80	3	76	116	.00	94	76	85	NA	NA	NA	.24
6/ 5	84	65	75	-2	91	141	.00	92	71	82	NA	NA	NA	.19
6/ 6	81	64	73	-4	104	164	.00	85	75	80	NA	NA	NA	.18
6/ 7	87	65	76	-1	120	190	.81	87	74	81	NA	NA	NA	.21
6/ 8	88	66	77	0	137	217	.53	89	73	81	NA	NA	NA	.22
6/ 9	93	68	81	3	158	248	.00	90	73	82	NA	NA	NA	.24
6/10	91	60	76	-2	174	274	.00	85	72	79	NA	NA	NA	.25
6/11	83	54	69	-9	183	293	.00	94	71	83	NA	NA	NA	.22
6/12	85	55	70	-8	193	313	.00	95	69	82	NA	NA	NA	.23
6/13	88	55	72	-6	205	335	.00	94	74	84	NA	NA	NA	.25
6/14	89	60	75	-4	220	360	.00	95	74	85	NA	NA	NA	.24
6/15	91	61	76	-3	236	386	.00	96	74	85	NA	NA	NA	.25
6/16	93	62	78	-1	254	414	.00	95	75	85	NA	NA	NA	.26
6/17	96	66	81	2	275	445	.00	94	76	85	NA	NA	NA	.27
6/18	96	69	83	4	298	478	.00	93	79	86	NA	NA	NA	.26
6/19	97	63	80	1	318	508	.00	95	80	88	NA	NA	NA	.28
6/20	94	65	80	1	338	538	.00	96	78	87	NA	NA	NA	.26
6/21	95	67	81	1	359	569	.00	98	75	87	NA	NA	NA	.26
6/22	97	70	84	4	383	603	.00	97	79	88	NA	NA	NA	.26
6/23	96	72	84	4	407	637	.00	96	80	88	NA	NA	NA	.25
6/24	94	72	83	3	430	670	.00	93	80	87	NA	NA	NA	.23
6/25	96	73	85	5	455	705	.00	95	81	88	NA	NA	NA	.24
6/26	100	74	87	7	482	742	.00	100	81	91	NA	NA	NA	.27
6/27	100	71	86	6	508	778	.02	99	80	90	NA	NA	NA	.28
6/28	101	67	84	4	532	812	.03	97	80	89	NA	NA	NA	.29
6/29	97	71	84	4	556	846	.00	101	80	91	NA	NA	NA	.26
6/30	102	73	88	8	584	884	.00	102	82	92	NA	NA	NA	.28

AIR TEMPERATURES (in degrees F):

Mean Maximum= 92.9      Mean Minimum= 65.4      Average= 79.2  
DFN= +3.2                      DFN= -1.2                      DFN= +1.0  
Highest= 102    Lowest= 54

PRECIPITATION STATISTICS (inches):

Total= 1.39    DFN= -2.73    Greatest Daily= .81    Rain Days= 4

SOIL TEMPERATURES (in degrees F):

Highest= 102    Lowest= 69    Average= 85

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .25 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
7/ 1	86	71	79	-1	19	29	.75	86	79	83	NA	NA	NA	.19
7/ 2	84	72	78	-2	37	57	1.48	85	79	82	NA	NA	NA	.17
7/ 3	95	71	83	3	60	90	.10	91	83	87	NA	NA	NA	.24
7/ 4	88	69	79	-1	79	119	.29	90	79	85	NA	NA	NA	.21
7/ 5	86	70	78	-2	97	147	.23	86	77	82	NA	NA	NA	.19
7/ 6	75	69	72	-8	109	169	.77	79	76	78	NA	NA	NA	.12
7/ 7	84	64	74	-6	123	193	.00	89	75	82	NA	NA	NA	.20
7/ 8	88	64	76	-4	139	219	.00	90	75	83	NA	NA	NA	.22
7/ 9	92	61	77	-3	156	246	.00	95	75	85	NA	NA	NA	.26
7/10	93	69	81	1	177	277	.00	96	77	87	NA	NA	NA	.24
7/11	87	71	79	-1	196	306	.96	94	74	84	NA	NA	NA	.19
7/12	87	71	79	-1	215	335	.11	86	78	82	NA	NA	NA	.19
7/13	92	73	83	2	238	368	.00	92	78	85	NA	NA	NA	.22
7/14	88	74	81	0	259	399	.00	87	79	83	NA	NA	NA	.19
7/15	94	75	85	4	284	434	.00	96	79	88	NA	NA	NA	.22
7/16	95	72	84	3	308	468	.15	98	81	90	NA	NA	NA	.24
7/17	83	71	77	-4	325	495	.23	98	79	89	NA	NA	NA	.17
7/18	91	72	82	1	347	527	.27	93	79	86	NA	NA	NA	.21
7/19	88	71	80	-1	367	557	.40	88	80	84	NA	NA	NA	.20
7/20	91	71	81	0	388	588	.07	93	80	87	NA	NA	NA	.22
7/21	91	72	82	1	410	620	.23	92	80	86	NA	NA	NA	.21
7/22	87	70	79	-2	429	649	.13	86	79	83	NA	NA	NA	.19
7/23	82	69	76	-5	445	675	.19	84	78	81	NA	NA	NA	.16
7/24	87	65	76	-5	461	701	.00	91	77	84	NA	NA	NA	.21
7/25	89	66	78	-3	479	729	.00	90	77	84	NA	NA	NA	.22
7/26	91	67	79	-2	498	758	1.00	91	76	84	NA	NA	NA	.23
7/27	87	68	78	-3	516	786	.00	91	76	84	NA	NA	NA	.20
7/28	91	71	81	0	537	817	.00	90	77	84	NA	NA	NA	.21
7/29	92	72	82	1	559	849	.00	92	79	86	NA	NA	NA	.22
7/30	93	68	81	0	580	880	.53	95	80	88	NA	NA	NA	.23
7/31	93	72	83	2	603	913	.00	94	79	87	NA	NA	NA	.22

AIR TEMPERATURES (in degrees F):

Mean Maximum= 88.7      Mean Minimum= 69.7      Average= 79.2  
DFN= -2.9      DFN= +.2      DFN= -1.4  
Highest= 95      Lowest= 61

PRECIPITATION STATISTICS (inches):

Total= 7.89      DFN= +2.06      Greatest Daily= 1.48      Rain Days= 18

SOIL TEMPERATURES (in degrees F):

Highest= 98      Lowest= 74      Average= 84

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD			PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	MAX		MIN	MEAN					
8/ 1	94	71	83	2	23	33	.00	94	80	87	NA	NA	NA	.23	
8/ 2	94	70	82	1	45	65	.00	95	81	88	NA	NA	NA	.23	
8/ 3	93	70	82	1	67	97	.02	93	81	87	NA	NA	NA	.23	
8/ 4	94	69	82	1	89	129	.89	94	80	87	NA	NA	NA	.24	
8/ 5	87	70	79	-2	108	158	.06	89	80	85	NA	NA	NA	.19	
8/ 6	90	71	81	0	129	189	.00	90	79	85	NA	NA	NA	.20	
8/ 7	90	72	81	0	150	220	.02	90	80	85	NA	NA	NA	.20	
8/ 8	89	71	80	-1	170	250	.01	88	80	84	NA	NA	NA	.20	
8/ 9	87	71	79	-2	189	279	.00	87	80	84	NA	NA	NA	.18	
8/10	92	70	81	0	210	310	.05	91	79	85	NA	NA	NA	.22	
8/11	93	72	83	3	233	343	.00	91	79	85	NA	NA	NA	.22	
8/12	92	72	82	2	255	375	.87	90	80	85	NA	NA	NA	.21	
8/13	89	72	81	1	276	406	Trace	89	80	85	NA	NA	NA	.19	
8/14	92	72	82	2	298	438	.00	92	80	86	NA	NA	NA	.21	
8/15	93	72	83	3	321	471	.00	92	80	86	NA	NA	NA	.22	
8/16	85	70	78	-2	339	499	.46	88	79	84	NA	NA	NA	.17	
8/17	90	71	81	1	360	530	.00	89	79	84	NA	NA	NA	.20	
8/18	93	72	83	3	383	563	.00	95	80	88	NA	NA	NA	.21	
8/19	93	73	83	3	406	596	.02	90	81	86	NA	NA	NA	.21	
8/20	94	71	83	3	429	629	.00	92	81	87	NA	NA	NA	.22	
8/21	91	70	81	1	450	660	.50	92	80	86	NA	NA	NA	.21	
8/22	87	71	79	-1	469	689	Trace	91	79	85	NA	NA	NA	.18	
8/23	90	71	81	1	490	720	.00	89	79	84	NA	NA	NA	.20	
8/24	91	72	82	2	512	752	.00	88	79	84	NA	NA	NA	.20	
8/25	86	71	79	0	531	781	.00	86	79	83	NA	NA	NA	.17	
8/26	92	67	80	1	551	811	.00	93	78	86	NA	NA	NA	.22	
8/27	94	67	81	2	572	842	.00	92	78	85	NA	NA	NA	.23	
8/28	94	69	82	3	594	874	.00	91	79	85	NA	NA	NA	.22	
8/29	92	69	81	2	615	905	.00	92	79	86	NA	NA	NA	.21	
8/30	93	70	82	3	637	937	.00	89	80	85	NA	NA	NA	.21	
8/31	87	70	79	0	656	966	.00	88	80	84	NA	NA	NA	.17	

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 91.0      Mean Minimum= 70.6      Average= 80.8  
DFN= -.1      DFN= +1.8      DFN= +.9  
Highest= 94    Lowest= 67

PRECIPITATION STATISTICS (inches):  
Total= 2.90    DFN= -1.46    Greatest Daily= .89    Rain Days= 10

SOIL TEMPERATURES (in degrees F):  
Highest= 95    Lowest= 78    Average= 85

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD			PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	MAX		MIN	MEAN					
9/ 1	91	71	81	2	21	31	.00	89	79	84	NA	NA	NA	.20	
9/ 2	84	71	78	-1	39	59	.00	85	79	82	NA	NA	NA	.15	
9/ 3	81	71	76	-2	55	85	.04	83	79	81	NA	NA	NA	.13	
9/ 4	87	70	79	1	74	114	1.85	85	78	82	NA	NA	NA	.17	
9/ 5	72	58	65	-13	79	129	1.75	84	72	78	NA	NA	NA	.11	
9/ 6	80	58	69	-9	88	148	.00	84	72	78	NA	NA	NA	.16	
9/ 7	80	54	67	-11	95	165	.00	83	69	76	NA	NA	NA	.18	
9/ 8	83	55	69	-9	104	184	.00	81	69	75	NA	NA	NA	.19	
9/ 9	81	63	72	-6	116	206	.00	82	71	77	NA	NA	NA	.15	
9/10	79	66	73	-4	129	229	1.00	79	73	76	NA	NA	NA	.13	
9/11	80	68	74	-3	143	253	.82	81	74	78	NA	NA	NA	.13	
9/12	88	70	79	2	162	282	.05	83	73	78	NA	NA	NA	.17	
9/13	87	70	79	2	181	311	.08	85	76	81	NA	NA	NA	.17	
9/14	90	70	80	4	201	341	.00	87	76	82	NA	NA	NA	.18	
9/15	91	72	82	6	223	373	.00	88	77	83	NA	NA	NA	.18	
9/16	87	73	80	4	243	403	.20	85	78	82	NA	NA	NA	.15	
9/17	80	73	77	1	260	430	.46	81	78	80	NA	NA	NA	.11	
9/18	85	71	78	2	278	458	.01	83	78	81	NA	NA	NA	.15	
9/19	89	69	79	4	297	487	.00	88	78	83	NA	NA	NA	.18	
9/20	89	70	80	5	317	517	.00	86	78	82	NA	NA	NA	.17	
9/21	92	71	82	7	339	549	.00	87	77	82	NA	NA	NA	.19	
9/22	91	71	81	6	360	580	.00	87	77	82	NA	NA	NA	.18	
9/23	90	71	81	7	381	611	.00	88	78	83	NA	NA	NA	.17	
9/24	91	72	82	8	403	643	.00	85	78	82	NA	NA	NA	.18	
9/25	90	71	81	8	424	674	.00	85	76	81	NA	NA	NA	.17	
9/26	96	65	81	8	445	705	Trace	85	76	81	NA	NA	NA	.23	
9/27	87	65	76	4	461	731	.00	86	76	81	NA	NA	NA	.17	
9/28	72	65	69	-3	470	750	.18	77	74	76	NA	NA	NA	.08	
9/29	83	65	74	2	484	774	.06	80	74	77	NA	NA	NA	.14	
9/30	81	66	74	3	498	798	.00	79	74	77	NA	NA	NA	.13	

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 85.2      Mean Minimum= 67.5      Average= 76.4  
DFN= -1.7      DFN= +3.2      DFN= +.8  
Highest= 96      Lowest= 54

PRECIPITATION STATISTICS (inches):  
Total= 6.50      DFN= +2.37      Greatest Daily= 1.85      Rain Days= 12

SOIL TEMPERATURES (in degrees F):  
Highest= 89      Lowest= 69      Average= 80

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	84	67	76	5	16	26	.19	80	74	77	NA	NA	NA	.14
10/ 2	81	69	75	4	31	51	1.10	80	73	77	NA	NA	NA	.12
10/ 3	73	66	70	0	41	71	.76	80	70	75	NA	NA	NA	.07
10/ 4	74	52	63	-7	44	84	.00	75	67	71	NA	NA	NA	.12
10/ 5	72	50	61	-8	45	95	.00	76	66	71	NA	NA	NA	.12
10/ 6	70	45	58	-11	45	103	.00	73	66	70	NA	NA	NA	.12
10/ 7	71	45	58	-10	45	111	.00	71	66	69	NA	NA	NA	.13
10/ 8	73	45	59	-9	45	120	.00	73	63	68	NA	NA	NA	.14
10/ 9	70	45	58	-10	45	128	.00	71	63	67	NA	NA	NA	.12
10/10	68	45	57	-10	45	135	.06	72	63	68	NA	NA	NA	.10
10/11	72	45	59	-8	45	144	.00	72	63	68	NA	NA	NA	.13
10/12	75	47	61	-5	46	155	.00	72	63	68	NA	NA	NA	.14
10/13	71	41	56	-10	46	161	.00	71	61	66	NA	NA	NA	.13
10/14	67	39	53	-12	46	164	.00	69	59	64	NA	NA	NA	.11
10/15	69	39	54	-11	46	168	.00	68	59	64	NA	NA	NA	.13
10/16	75	41	58	-7	46	176	.00	74	59	67	NA	NA	NA	.16
10/17	78	51	65	1	51	191	.00	70	60	65	NA	NA	NA	.14
10/18	81	56	69	5	60	210	.00	72	63	68	NA	NA	NA	.15
10/19	82	57	70	6	70	230	Trace	72	64	68	NA	NA	NA	.15
10/20	65	46	56	-7	70	236	.00	69	63	66	NA	NA	NA	.07
10/21	73	47	60	-3	70	246	1.53	69	63	66	NA	NA	NA	.12
10/22	65	48	57	-6	70	253	.05	66	60	63	NA	NA	NA	.07
10/23	72	43	58	-4	70	261	.00	69	60	65	NA	NA	NA	.13
10/24	76	45	61	-1	71	272	.12	69	59	64	NA	NA	NA	.14
10/25	70	40	55	-7	71	277	.00	67	52	60	NA	NA	NA	.12
10/26	72	42	57	-4	71	284	.00	68	57	63	NA	NA	NA	.13
10/27	71	49	60	-1	71	294	Trace	67	59	63	NA	NA	NA	.10
10/28	79	53	66	6	77	310	.00	71	61	66	NA	NA	NA	.13
10/29	80	57	69	9	86	329	Trace	71	62	67	NA	NA	NA	.13
10/30	71	58	65	5	91	344	.15	71	62	67	NA	NA	NA	.07
10/31	73	55	64	5	95	358	.40	71	64	68	NA	NA	NA	.09

AIR TEMPERATURES (in degrees F):

Mean Maximum= 73.3      Mean Minimum= 49.3      Average= 61.3  
DFN= -4.4      DFN= -2.5      DFN= -3.5  
Highest= 84      Lowest= 39

PRECIPITATION STATISTICS (inches):

Total= 4.36      DFN= +1.33      Greatest Daily= 1.53      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 80      Lowest= 52      Average= 67

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .12 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	58	51	55	-4	0	5	.21	65	62	64	NA	NA	NA	.00
11/ 2	67	43	55	-4	0	10	.00	67	58	63	NA	NA	NA	.09
11/ 3	74	45	60	2	0	20	.00	68	58	63	NA	NA	NA	.12
11/ 4	77	56	67	9	7	37	.00	67	60	64	NA	NA	NA	.11
11/ 5	79	56	68	10	15	55	1.88	70	62	66	NA	NA	NA	.12
11/ 6	72	42	57	0	15	62	.00	67	56	62	NA	NA	NA	.12
11/ 7	68	37	53	-4	15	65	.00	62	54	58	NA	NA	NA	.11
11/ 8	73	41	57	0	15	72	.00	64	54	59	NA	NA	NA	.13
11/ 9	79	60	70	13	25	92	.09	67	59	63	NA	NA	NA	.10
11/10	78	60	69	13	34	111	.00	71	64	68	NA	NA	NA	.10
11/11	77	47	62	6	36	123	.37	69	60	65	NA	NA	NA	.13
11/12	68	45	57	1	36	130	.00	62	58	60	NA	NA	NA	.08
11/13	71	46	59	3	36	139	.93	66	58	62	NA	NA	NA	.09
11/14	60	55	58	3	36	147	Trace	66	58	62	NA	NA	NA	.00
11/15	72	58	65	10	41	162	.00	64	58	61	NA	NA	NA	.06
11/16	78	62	70	15	51	182	.00	74	64	69	NA	NA	NA	.09
11/17	72	45	59	5	51	191	1.03	67	59	63	NA	NA	NA	.10
11/18	62	42	52	-2	51	193	.00	62	54	58	NA	NA	NA	.05
11/19	69	44	57	3	51	200	.01	63	54	59	NA	NA	NA	.08
11/20	78	61	70	16	61	220	1.23	68	62	65	NA	NA	NA	.09
11/21	66	44	55	2	61	225	.00	67	57	62	NA	NA	NA	.06
11/22	59	42	51	-2	61	226	.00	63	55	59	NA	NA	NA	.03
11/23	64	42	53	0	61	229	.00	62	55	59	NA	NA	NA	.06
11/24	60	38	49	-4	61	229	.00	61	55	58	NA	NA	NA	.04
11/25	65	38	52	0	61	231	.00	62	54	58	NA	NA	NA	.07
11/26	74	49	62	10	63	243	.00	65	55	60	NA	NA	NA	.10
11/27	78	60	69	17	72	262	.70	67	60	64	NA	NA	NA	.09
11/28	68	38	53	2	72	265	.22	64	54	59	NA	NA	NA	.09
11/29	54	31	43	-8	72	265	Trace	59	50	55	NA	NA	NA	.03
11/30	60	31	46	-5	72	265	.00	58	50	54	NA	NA	NA	.06

AIR TEMPERATURES (in degrees F):

Mean Maximum= 69.3      Mean Minimum= 47.0      Average= 58.1  
DFN= +2.2      DFN= +4.9      DFN= +3.6  
Highest= 79      Lowest= 31

PRECIPITATION STATISTICS (inches):

Total= 6.67      DFN= +2.94      Greatest Daily= 1.88      Rain Days= 10

SOIL TEMPERATURES (in degrees F):

Highest= 74      Lowest= 50      Average= 61

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .08 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Lower Coastal Plain Substation, Camden  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	63	30	47	-4	0	0	.00	60	49	55	NA	NA	NA	.08
12/ 2	60	32	46	-5	0	0	.00	55	47	51	NA	NA	NA	.06
12/ 3	55	28	42	-8	0	0	.00	55	46	51	NA	NA	NA	.04
12/ 4	62	28	45	-5	0	0	.00	55	46	51	NA	NA	NA	.08
12/ 5	63	31	47	-3	0	0	.00	56	44	50	NA	NA	NA	.08
12/ 6	50	30	40	-10	0	0	.00	54	46	50	NA	NA	NA	.00
12/ 7	64	30	47	-2	0	0	.00	54	46	50	NA	NA	NA	.09
12/ 8	65	48	57	8	0	7	.00	55	51	53	NA	NA	NA	.04
12/ 9	68	43	56	7	0	13	.05	59	52	56	NA	NA	NA	.07
12/10	51	33	42	-7	0	13	.01	54	50	52	NA	NA	NA	.00
12/11	46	35	41	-8	0	13	.31	52	50	51	NA	NA	NA	.00
12/12	42	34	38	-11	0	13	.11	51	49	50	NA	NA	NA	.00
12/13	50	21	36	-13	0	13	.02	51	44	48	NA	NA	NA	.03
12/14	54	27	41	-7	0	13	.00	51	44	48	NA	NA	NA	.03
12/15	63	35	49	1	0	13	.00	52	45	49	NA	NA	NA	.07
12/16	61	35	48	0	0	13	.50	51	49	50	NA	NA	NA	.05
12/17	45	25	35	-13	0	13	.00	53	42	48	NA	NA	NA	.00
12/18	49	22	36	-12	0	13	.00	49	41	45	NA	NA	NA	.02
12/19	51	24	38	-10	0	13	.00	48	41	45	NA	NA	NA	.02
12/20	60	31	46	-2	0	13	.00	50	42	46	NA	NA	NA	.06
12/21	64	48	56	9	0	19	.00	52	47	50	NA	NA	NA	.03
12/22	73	51	62	15	2	31	.00	57	49	53	NA	NA	NA	.08
12/23	72	58	65	18	7	46	.00	61	54	58	NA	NA	NA	.05
12/24	69	58	64	17	11	60	.17	60	57	59	NA	NA	NA	.03
12/25	70	43	57	10	11	67	.05	60	58	59	NA	NA	NA	.08
12/26	61	36	49	2	11	67	.00	61	57	59	NA	NA	NA	.05
12/27	68	38	53	6	11	70	.00	62	57	60	NA	NA	NA	.09
12/28	74	47	61	14	12	81	.15	63	51	57	NA	NA	NA	.10
12/29	65	28	47	0	12	81	.00	58	47	53	NA	NA	NA	.10
12/30	58	29	44	-3	12	81	.03	52	47	50	NA	NA	NA	.05
12/31	61	46	54	8	12	85	2.84	55	51	53	NA	NA	NA	.02

AIR TEMPERATURES (in degrees F):

Mean Maximum= 59.9      Mean Minimum= 35.6      Average= 47.8  
DFN= +.1      DFN= -.7      DFN= -.3  
Highest= 74    Lowest= 21

PRECIPITATION STATISTICS (inches):

Total= 4.24    DFN= -1.48    Greatest Daily= 2.84    Rain Days= 11

SOIL TEMPERATURES (in degrees F):

Highest= 63    Lowest= 41    Average= 52

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .05 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
1/ 1	56	50	53	10	0	3	.65	55	54	55	NA	NA	NA	.00
1/ 2	56	30	43	0	0	3	.12	54	50	52	NA	NA	NA	.04
1/ 3	46	40	43	0	0	3	.21	50	50	50	NA	NA	NA	.00
1/ 4	45	38	42	-1	0	3	.01	50	48	49	NA	NA	NA	.00
1/ 5	47	27	37	-6	0	3	.00	52	42	47	NA	NA	NA	.00
1/ 6	39	27	33	-10	0	3	.00	47	40	44	NA	NA	NA	.00
1/ 7	34	27	31	-12	0	3	.06	43	40	42	NA	NA	NA	.00
1/ 8	33	30	32	-11	0	3	.83	40	40	40	NA	NA	NA	.00
1/ 9	33	25	29	-14	0	3	.00	40	39	40	NA	NA	NA	.00
1/10	28	22	25	-18	0	3	.00	40	39	40	NA	NA	NA	.00
1/11	37	28	33	-10	0	3	.00	46	37	42	NA	NA	NA	.00
1/12	49	27	38	-4	0	3	.00	48	36	42	NA	NA	NA	.00
1/13	52	30	41	-1	0	3	.23	45	37	41	NA	NA	NA	.01
1/14	45	21	33	-9	0	3	.00	50	35	43	NA	NA	NA	.00
1/15	38	21	30	-12	0	3	.00	45	36	41	NA	NA	NA	.00
1/16	51	27	39	-4	0	3	.00	48	36	42	NA	NA	NA	.02
1/17	54	38	46	3	0	3	.15	50	38	44	NA	NA	NA	.00
1/18	54	46	50	7	0	3	.80	50	50	50	NA	NA	NA	.00
1/19	62	54	58	15	0	11	.38	56	50	53	NA	NA	NA	.00
1/20	68	48	58	15	0	19	2.17	60	54	57	NA	NA	NA	.06
1/21	63	35	49	6	0	19	.00	58	48	53	NA	NA	NA	.07
1/22	48	33	41	-2	0	19	.00	52	45	49	NA	NA	NA	.00
1/23	46	28	37	-6	0	19	.00	51	41	46	NA	NA	NA	.00
1/24	53	24	39	-4	0	19	.00	NA	NA	46	NA	NA	NA	.04
1/25	48	33	41	-2	0	19	.30	50	40	45	NA	NA	NA	.00
1/26	48	21	35	-8	0	19	.00	49	38	44	NA	NA	NA	.02
1/27	40	20	30	-13	0	19	.00	45	36	41	NA	NA	NA	.00
1/28	44	21	33	-11	0	19	.00	46	35	41	NA	NA	NA	.00
1/29	57	24	41	-3	0	19	.00	50	36	43	NA	NA	NA	.07
1/30	64	32	48	4	0	19	.00	50	38	44	NA	NA	NA	.09
1/31	67	42	55	11	0	24	.00	54	37	46	NA	NA	NA	.08

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 48.5      Mean Minimum= 31.3      Average= 39.9  
DFN= -5.5                      DFN= -.1                      DFN= -2.8  
Highest= 68    Lowest= 20

PRECIPITATION STATISTICS (inches):  
Total= 5.91    DFN= +.51    Greatest Daily= 2.17    Rain Days= 12

SOIL TEMPERATURES (in degrees F):  
Highest= 60    Lowest= 35    Average= 45

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .02 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	69	54	62	18	2	12	.00	56	48	52	NA	NA	NA	.06
2/ 2	75	57	66	22	8	28	.00	62	52	57	NA	NA	NA	.09
2/ 3	68	59	64	20	12	42	.45	60	57	59	NA	NA	NA	.04
2/ 4	67	56	62	18	14	54	2.90	63	61	62	NA	NA	NA	.04
2/ 5	56	33	45	1	14	54	.00	61	46	54	NA	NA	NA	.04
2/ 6	38	19	29	-15	14	54	.00	48	39	44	NA	NA	NA	.00
2/ 7	35	15	25	-19	14	54	.00	46	36	41	NA	NA	NA	.00
2/ 8	39	15	27	-18	14	54	.00	42	39	41	NA	NA	NA	.00
2/ 9	53	28	41	-4	14	54	.00	51	37	44	NA	NA	NA	.04
2/10	57	28	43	-2	14	54	.00	53	40	47	NA	NA	NA	.07
2/11	62	34	48	3	14	54	.00	55	41	48	NA	NA	NA	.08
2/12	54	18	36	-9	14	54	.05	48	39	44	NA	NA	NA	.08
2/13	35	17	26	-20	14	54	.00	47	36	42	NA	NA	NA	.00
2/14	55	17	36	-10	14	54	.00	48	36	42	NA	NA	NA	.09
2/15	66	20	43	-3	14	54	.64	53	41	47	NA	NA	NA	.16
2/16	48	23	36	-10	14	54	.00	50	39	45	NA	NA	NA	.03
2/17	60	24	42	-4	14	54	.00	54	36	45	NA	NA	NA	.11
2/18	55	32	44	-3	14	54	.00	51	40	46	NA	NA	NA	.05
2/19	53	38	46	-1	14	54	.19	52	48	50	NA	NA	NA	.02
2/20	58	43	51	4	14	55	.00	58	48	53	NA	NA	NA	.04
2/21	55	32	44	-3	14	55	.00	53	43	48	NA	NA	NA	.05
2/22	55	32	44	-4	14	55	.00	53	43	48	NA	NA	NA	.05
2/23	68	35	52	4	14	57	.00	57	41	49	NA	NA	NA	.13
2/24	66	35	51	3	14	58	.22	58	46	52	NA	NA	NA	.12
2/25	52	27	40	-8	14	58	.00	56	43	50	NA	NA	NA	.05
2/26	56	27	42	-7	14	58	.00	55	42	49	NA	NA	NA	.08
2/27	60	30	45	-4	14	58	.00	55	42	49	NA	NA	NA	.10
2/28	70	35	53	4	14	61	.00	59	45	52	NA	NA	NA	.14
2/29	72	39	56	7	14	67	.00	60	47	54	NA	NA	NA	.15

AIR TEMPERATURES (in degrees F):

Mean Maximum= 57.1      Mean Minimum= 31.8      Average= 44.5  
 DFN= -1.0                      DFN= -1.9                      DFN= -1.4  
 Highest= 75    Lowest= 15

PRECIPITATION STATISTICS (inches):

Total= 4.45    DFN= -.90    Greatest Daily= 2.90    Rain Days= 6

SOIL TEMPERATURES (in degrees F):

Highest= 63    Lowest= 36    Average= 49

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
 Solar Energy= NA (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .07 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
3/ 1	72	38	55	6	0	5	.00	61	46	54	NA	NA	NA	.15
3/ 2	68	37	53	3	0	8	.00	61	46	54	NA	NA	NA	.13
3/ 3	72	42	57	7	0	15	Trace	59	45	52	NA	NA	NA	.14
3/ 4	68	56	62	12	2	27	.12	63	54	59	NA	NA	NA	.07
3/ 5	60	39	50	0	2	27	.00	58	50	54	.09	NA	NA	.07
3/ 6	59	37	48	-3	2	27	.00	56	48	52	.09	NA	NA	.07
3/ 7	68	40	54	3	2	31	.00	62	47	55	.14	NA	NA	.12
3/ 8	73	40	57	6	2	38	.00	66	48	57	.13	NA	NA	.16
3/ 9	65	47	56	5	2	44	.56	58	53	56	.07	NA	NA	.08
3/10	66	40	53	1	2	47	.26	62	51	57	.09	NA	NA	.11
3/11	51	30	41	-11	2	47	Trace	54	44	49	.07	NA	NA	.05
3/12	68	33	51	-1	2	48	.00	62	44	53	.09	NA	NA	.15
3/13	64	43	54	1	2	52	.73	62	47	55	.05	NA	NA	.09
3/14	60	34	47	-6	2	52	.00	62	47	55	NA	NA	NA	.10
3/15	47	24	36	-17	2	52	.00	56	40	48	NA	NA	NA	.05
3/16	48	28	38	-15	2	52	.00	55	40	48	NA	NA	NA	.04
3/17	54	29	42	-12	2	52	.00	57	40	49	NA	NA	NA	.08
3/18	62	31	47	-7	2	52	.10	60	42	51	.16	NA	NA	.12
3/19	48	34	41	-13	2	52	.00	59	44	52	.08	NA	NA	.03
3/20	54	34	44	-11	2	52	.00	63	47	55	.08	NA	NA	.06
3/21	70	34	52	-3	2	54	.00	55	50	53	.17	NA	NA	.17
3/22	78	44	61	6	3	65	.00	65	48	57	.11	NA	NA	.19
3/23	83	46	65	9	8	80	.00	69	48	59	.23	NA	NA	.21
3/24	77	51	64	8	12	94	.00	69	53	61	.17	NA	NA	.16
3/25	77	54	66	10	18	110	.00	70	56	63	.22	NA	NA	.15
3/26	62	58	60	3	18	120	1.32	61	60	61	.25	NA	NA	.04
3/27	78	46	62	5	20	132	.00	72	54	63	.26	NA	NA	.18
3/28	78	39	59	2	20	141	.00	70	52	61	.17	NA	NA	.21
3/29	77	39	58	0	20	149	.00	70	51	61	.28	NA	NA	.20
3/30	79	53	66	8	26	165	.02	70	55	63	.12	NA	NA	.17
3/31	72	60	66	8	32	181	.00	67	61	64	.16	NA	NA	.10

AIR TEMPERATURES (in degrees F):

Mean Maximum= 66.4      Mean Minimum= 40.6      Average= 53.5  
DFN= +.8                      DFN= -.3                      DFN= +.3  
Highest= 83      Lowest= 24

PRECIPITATION STATISTICS (inches):

Total= 3.11      DFN= -4.24      Greatest Daily= 1.32      Rain Days= 7

SOIL TEMPERATURES (in degrees F):

Highest= 72      Lowest= 40      Average= 56

AVERAGE DAILY VALUES:

Pan Evaporation= .14 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .12 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
4/ 1	79	61	70	11	10	20	.02	71	61	66	.08	NA	NA	.15
4/ 2	76	59	68	9	18	38	.39	69	62	66	NA	NA	NA	.13
4/ 3	72	58	65	6	23	53	1.28	68	63	66	NA	NA	NA	.11
4/ 4	69	58	64	5	27	67	.14	68	63	66	NA	NA	NA	.09
4/ 5	81	54	68	8	35	85	.00	78	61	70	.16	NA	NA	.18
4/ 6	88	55	72	12	47	107	.15	78	60	69	.02	NA	NA	.23
4/ 7	67	45	56	-4	47	113	.00	70	56	63	.34	NA	NA	.13
4/ 8	71	47	59	-1	47	122	.00	69	55	62	.27	NA	NA	.14
4/ 9	78	47	63	2	50	135	.00	72	55	64	.20	NA	NA	.19
4/10	81	48	65	4	55	150	.00	74	58	66	.20	NA	NA	.21
4/11	83	50	67	6	62	167	.32	74	58	66	NA	NA	NA	.21
4/12	55	40	48	-14	62	167	.63	74	54	64	NA	NA	NA	.07
4/13	56	41	49	-13	62	167	.02	61	51	56	.10	NA	NA	.07
4/14	74	45	60	-2	62	177	.00	72	51	62	.17	NA	NA	.17
4/15	79	46	63	1	65	190	.00	73	56	65	.27	NA	NA	.20
4/16	79	52	66	3	71	206	.00	74	60	67	.22	NA	NA	.18
4/17	70	45	58	-5	71	214	.00	79	60	70	.21	NA	NA	.15
4/18	80	50	65	2	76	229	.68	74	60	67	.26	NA	NA	.20
4/19	76	56	66	2	82	245	.45	76	64	70	.24	NA	NA	.15
4/20	66	39	53	-11	82	248	.00	72	57	65	.17	NA	NA	.15
4/21	75	40	58	-6	82	256	.00	74	57	66	NA	NA	NA	.20
4/22	84	52	68	4	90	274	.00	79	61	70	NA	NA	NA	.22
4/23	74	52	63	-2	93	287	.25	69	63	66	.35	NA	NA	.16
4/24	72	64	68	3	101	305	1.28	70	68	69	NA	NA	NA	.11
4/25	78	55	67	2	108	322	.00	82	66	74	.34	NA	NA	.17
4/26	72	54	63	-2	111	335	.05	72	65	69	.06	NA	NA	.14
4/27	76	53	65	-1	116	350	.00	79	65	72	.16	NA	NA	.17
4/28	76	45	61	-5	117	361	.00	78	62	70	.31	NA	NA	.19
4/29	71	43	57	-9	117	368	.00	76	60	68	.21	NA	NA	.17
4/30	74	44	59	-7	117	377	.00	78	59	69	.20	NA	NA	.19

AIR TEMPERATURES (in degrees F):

Mean Maximum= 74.4      Mean Minimum= 49.9      Average= 62.2  
DFN= -1.0                      DFN= +.4                      DFN= -.3  
Highest= 88      Lowest= 39

PRECIPITATION STATISTICS (inches):

Total= 5.66      DFN= -.41      Greatest Daily= 1.28      Rain Days= 13

SOIL TEMPERATURES (in degrees F):

Highest= 82      Lowest= 51      Average= 67

AVERAGE DAILY VALUES:

Pan Evaporation= .21 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
5/ 1	70	47	59	-8	0	9	.00	71	60	66	.10	NA	NA	.15
5/ 2	78	49	64	-3	4	23	.00	80	60	70	.16	NA	NA	.20
5/ 3	81	48	65	-2	9	38	.00	83	62	73	.30	NA	NA	.22
5/ 4	78	52	65	-2	14	53	.14	78	64	71	.27	NA	NA	.19
5/ 5	75	52	64	-4	18	67	.00	75	64	70	.11	NA	NA	.17
5/ 6	74	47	61	-7	19	78	.00	80	61	71	NA	NA	NA	.18
5/ 7	79	49	64	-4	23	92	.00	82	63	73	.24	NA	NA	.20
5/ 8	85	59	72	4	35	114	.00	83	64	74	.29	NA	NA	.21
5/ 9	83	58	71	2	46	135	.00	85	66	76	.26	NA	NA	.20
5/10	82	61	72	3	58	157	.00	81	68	75	.10	NA	NA	.19
5/11	82	50	66	-3	64	173	.30	82	68	75	.30	NA	NA	.22
5/12	82	54	68	-1	72	191	.00	84	67	76	.26	NA	NA	.21
5/13	80	56	68	-2	80	209	.00	82	67	75	.18	NA	NA	.19
5/14	80	56	68	-2	88	227	.00	88	64	76	.21	NA	NA	.19
5/15	87	62	75	5	103	252	.00	86	68	77	.20	NA	NA	.22
5/16	89	64	77	7	120	279	.00	88	70	79	.20	NA	NA	.22
5/17	86	63	75	5	135	304	.24	87	71	79	.23	NA	NA	.21
5/18	86	53	70	-1	145	324	.00	85	69	77	.28	NA	NA	.24
5/19	82	53	68	-3	153	342	.00	88	68	78	.28	NA	NA	.22
5/20	84	55	70	-1	163	362	.00	90	72	81	.19	NA	NA	.22
5/21	88	55	72	1	175	384	.00	88	60	74	.22	NA	NA	.25
5/22	88	61	75	3	190	409	.00	88	63	76	.25	NA	NA	.23
5/23	77	61	69	-3	199	428	.72	86	70	78	.21	NA	NA	.16
5/24	78	59	69	-3	208	447	.36	79	60	70	NA	NA	NA	.17
5/25	72	60	66	-6	214	463	.24	75	68	72	NA	NA	NA	.13
5/26	77	52	65	-7	219	478	.00	81	65	73	.31	NA	NA	.19
5/27	77	51	64	-9	223	492	.00	82	64	73	.23	NA	NA	.19
5/28	81	51	66	-7	229	508	.00	85	65	75	.20	NA	NA	.22
5/29	85	53	69	-4	238	527	.00	86	68	77	.33	NA	NA	.24
5/30	88	59	74	1	252	551	.00	89	74	82	.28	NA	NA	.24
5/31	91	65	78	4	270	579	.00	89	75	82	.20	NA	NA	.24

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 81.5      Mean Minimum= 55.3      Average= 68.4  
DFN= -.8      DFN= -2.1      DFN= -1.5  
Highest= 91      Lowest= 47

PRECIPITATION STATISTICS (inches):  
Total= 2.00      DFN= -2.17      Greatest Daily= .72      Rain Days= 6

SOIL TEMPERATURES (in degrees F):  
Highest= 90      Lowest= 60      Average= 75

AVERAGE DAILY VALUES:  
Pan Evaporation= .23 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .20 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
6/ 1	89	60	75	1	15	25	.00	91	75	83	.30	NA	NA	.24
6/ 2	90	60	75	1	30	50	.00	93	74	84	.23	NA	NA	.25
6/ 3	90	63	77	3	47	77	.00	91	75	83	.31	NA	NA	.24
6/ 4	90	62	76	1	63	103	1.74	90	74	82	NA	NA	NA	.24
6/ 5	77	57	67	-8	70	120	.00	83	71	77	NA	NA	NA	.17
6/ 6	73	60	67	-8	77	137	.00	75	70	73	.05	NA	NA	.14
6/ 7	88	61	75	0	92	162	.00	84	68	76	.22	NA	NA	.23
6/ 8	88	68	78	3	110	190	.00	88	75	82	.24	NA	NA	.21
6/ 9	93	68	81	5	131	221	.00	89	75	82	.28	NA	NA	.24
6/10	88	55	72	-4	143	243	.00	85	75	80	.30	NA	NA	.25
6/11	78	54	66	-10	149	259	.00	89	72	81	NA	NA	NA	.19
6/12	85	54	70	-6	159	279	.00	90	73	82	.23	NA	NA	.24
6/13	85	54	70	-6	169	299	.00	91	75	83	.23	NA	NA	.24
6/14	87	55	71	-6	180	320	.00	91	75	83	NA	NA	NA	.24
6/15	89	59	74	-3	194	344	.00	93	75	84	.32	NA	NA	.24
6/16	91	60	76	-1	210	370	.00	93	76	85	.30	NA	NA	.25
6/17	95	67	81	4	231	401	.00	91	78	85	.26	NA	NA	.26
6/18	95	65	80	3	251	431	.00	97	78	88	.30	NA	NA	.26
6/19	93	65	79	2	270	460	.00	95	78	87	.30	NA	NA	.25
6/20	94	65	80	2	290	490	.00	96	78	87	.30	NA	NA	.26
6/21	95	66	81	3	311	521	Trace	98	79	89	.28	NA	NA	.26
6/22	96	67	82	4	333	553	.00	97	80	89	.37	NA	NA	.26
6/23	97	70	84	6	357	587	.00	96	81	89	.21	NA	NA	.26
6/24	97	71	84	6	381	621	.00	96	80	88	.32	NA	NA	.26
6/25	98	74	86	8	407	657	.78	98	82	90	NA	NA	NA	.25
6/26	96	72	84	5	431	691	.00	96	81	89	.28	NA	NA	.25
6/27	96	70	83	4	454	724	1.72	96	80	88	NA	NA	NA	.25
6/28	95	70	83	4	477	757	.00	93	78	86	.30	NA	NA	.25
6/29	88	68	78	-1	495	785	.00	91	79	85	.21	NA	NA	.21
6/30	94	69	82	3	517	817	.00	93	79	86	.29	NA	NA	.24

AIR TEMPERATURES (in degrees F):

Mean Maximum= 90.3      Mean Minimum= 63.6      Average= 77.0  
DFN= +1.8                      DFN= -1.0                      DFN= +.4  
Highest= 98      Lowest= 54

PRECIPITATION STATISTICS (inches):

Total= 4.24      DFN= +.53      Greatest Daily= 1.74      Rain Days= 3

SOIL TEMPERATURES (in degrees F):

Highest= 98      Lowest= 68      Average= 84

AVERAGE DAILY VALUES:

Pan Evaporation= .27 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .24 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE			DFN	GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG		B60	B50		MAX	MIN	MEAN				
7/ 1	94	69	82	3	22	32	.00	87	81	84	.21	NA	NA	.24
7/ 2	94	67	81	2	43	63	.08	88	80	84	.10	NA	NA	.25
7/ 3	84	69	77	-2	60	90	1.60	82	78	80	NA	NA	NA	.18
7/ 4	85	70	78	-1	78	118	1.76	86	76	81	NA	NA	NA	.18
7/ 5	86	70	78	-1	96	146	.00	88	80	84	.21	NA	NA	.19
7/ 6	76	66	71	-8	107	167	.73	80	76	78	NA	NA	NA	.14
7/ 7	83	63	73	-6	120	190	.00	86	76	81	.39	NA	NA	.19
7/ 8	88	62	75	-4	135	215	.00	90	76	83	.25	NA	NA	.23
7/ 9	91	64	78	-1	153	243	.00	90	75	83	.25	NA	NA	.24
7/10	91	66	79	-1	172	272	.00	90	77	84	.27	NA	NA	.23
7/11	85	70	78	-2	190	300	.65	90	79	85	.16	NA	NA	.18
7/12	84	70	77	-3	207	327	1.88	84	78	81	NA	NA	NA	.18
7/13	89	70	80	0	227	357	.00	88	77	83	.30	NA	NA	.21
7/14	88	69	79	-1	246	386	.00	84	79	82	.27	NA	NA	.20
7/15	90	74	82	2	268	418	.00	89	78	84	.25	NA	NA	.20
7/16	90	69	80	0	288	448	.45	89	80	85	NA	NA	NA	.22
7/17	90	71	81	1	309	479	.26	90	80	85	NA	NA	NA	.21
7/18	90	68	79	-1	328	508	.00	85	80	83	.14	NA	NA	.22
7/19	87	71	79	-1	347	537	.00	90	80	85	.29	NA	NA	.19
7/20	88	71	80	0	367	567	.00	91	81	86	.26	NA	NA	.20
7/21	89	72	81	1	388	598	.00	92	80	86	.28	NA	NA	.20
7/22	88	70	79	-1	407	627	.26	87	80	84	.14	NA	NA	.20
7/23	88	70	79	-1	426	656	.00	90	81	86	.20	NA	NA	.20
7/24	87	69	78	-2	444	684	.00	88	80	84	.20	NA	NA	.20
7/25	86	66	76	-4	460	710	.00	88	80	84	.19	NA	NA	.20
7/26	88	66	77	-3	477	737	.00	90	80	85	.28	NA	NA	.21
7/27	86	67	77	-3	494	764	.00	88	80	84	.10	NA	NA	.19
7/28	88	69	79	-1	513	793	.00	90	80	85	.25	NA	NA	.20
7/29	90	68	79	-1	532	822	.00	93	80	87	.17	NA	NA	.22
7/30	91	69	80	0	552	852	.00	95	82	89	.25	NA	NA	.22
7/31	92	70	81	1	573	883	.00	96	81	89	.25	NA	NA	.22

AIR TEMPERATURES (in degrees F):

Mean Maximum= 87.9      Mean Minimum= 68.5      Average= 78.2  
DFN= -2.8      DFN= +.3      DFN= -1.3  
Highest= 94      Lowest= 62

PRECIPITATION STATISTICS (inches):

Total= 7.67      DFN= +2.55      Greatest Daily= 1.88      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 96      Lowest= 75      Average= 84

AVERAGE DAILY VALUES:

Pan Evaporation= .23 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .20 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
8/ 1	93	68	81	1	21	31	.00	95	82	89	.25	NA	NA	.23
8/ 2	96	69	83	3	44	64	.00	97	82	90	.29	NA	NA	.25
8/ 3	91	69	80	0	64	94	.15	92	82	87	.20	NA	NA	.22
8/ 4	93	69	81	1	85	125	.45	93	81	87	NA	NA	NA	.23
8/ 5	90	69	80	0	105	155	.00	98	82	90	NA	NA	NA	.21
8/ 6	89	70	80	0	125	185	.00	92	81	87	.23	NA	NA	.20
8/ 7	89	69	79	-1	144	214	Trace	93	80	87	.24	NA	NA	.20
8/ 8	90	69	80	0	164	244	.00	93	81	87	.23	NA	NA	.21
8/ 9	91	69	80	0	184	274	.00	93	81	87	.19	NA	NA	.21
8/10	91	70	81	1	205	305	.00	94	83	89	.28	NA	NA	.21
8/11	92	70	81	1	226	336	.00	96	82	89	.12	NA	NA	.22
8/12	92	72	82	2	248	368	.05	92	84	88	.17	NA	NA	.21
8/13	92	70	81	1	269	399	.00	95	85	90	.23	NA	NA	.22
8/14	93	71	82	3	291	431	.00	100	85	93	.22	NA	NA	.22
8/15	93	71	82	3	313	463	.00	94	83	89	.19	NA	NA	.22
8/16	92	70	81	2	334	494	.00	95	84	90	.20	NA	NA	.21
8/17	92	70	81	2	355	525	.00	99	84	92	.17	NA	NA	.21
8/18	91	69	80	1	375	555	.00	92	83	88	.29	NA	NA	.21
8/19	94	70	82	3	397	587	.00	98	88	93	.28	NA	NA	.23
8/20	93	71	82	3	419	619	.00	95	87	91	.25	NA	NA	.22
8/21	90	71	81	2	440	650	.39	93	87	90	.23	NA	NA	.20
8/22	88	71	80	1	460	680	.00	90	87	89	.10	NA	NA	.18
8/23	90	71	81	2	481	711	.00	91	79	85	.25	NA	NA	.19
8/24	89	73	81	2	502	742	.00	91	82	87	.18	NA	NA	.18
8/25	89	73	81	3	523	773	.00	88	68	78	.12	NA	NA	.18
8/26	93	67	80	2	543	803	.00	94	80	87	.23	NA	NA	.22
8/27	92	68	80	2	563	833	.00	89	81	85	.37	NA	NA	.21
8/28	91	67	79	1	582	862	.00	92	82	87	.21	NA	NA	.21
8/29	91	67	79	1	601	891	.00	94	83	89	.18	NA	NA	.21
8/30	93	68	81	3	622	922	.08	94	82	88	.18	NA	NA	.22
8/31	88	67	78	0	640	950	.00	89	80	85	.30	NA	NA	.19

AIR TEMPERATURES (in degrees F):

Mean Maximum= 91.3      Mean Minimum= 69.6      Average= 80.5  
DFN= +.9      DFN= +2.4      DFN= +1.7  
Highest= 96    Lowest= 67

PRECIPITATION STATISTICS (inches):

Total= 1.12    DFN= -2.97    Greatest Daily= .45    Rain Days= 5

SOIL TEMPERATURES (in degrees F):

Highest= 100    Lowest= 68    Average= 88

AVERAGE DAILY VALUES:

Pan Evaporation= .22 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
9/ 1	83	66	75	-3	15	25	.00	90	80	85	.21	NA	NA	.16
9/ 2	84	70	77	-1	32	52	.00	89	81	85	.21	NA	NA	.15
9/ 3	84	70	77	0	49	79	.00	89	81	85	.21	NA	NA	.15
9/ 4	82	69	76	-1	65	105	.93	85	79	82	.08	NA	NA	.14
9/ 5	71	57	64	-13	69	119	3.05	84	73	79	NA	NA	NA	.11
9/ 6	78	57	68	-9	77	137	.00	83	70	77	.24	NA	NA	.15
9/ 7	79	53	66	-11	83	153	.00	83	71	77	.28	NA	NA	.17
9/ 8	79	53	66	-11	89	169	.00	80	70	75	.12	NA	NA	.17
9/ 9	80	58	69	-7	98	188	.00	81	71	76	.24	NA	NA	.16
9/10	80	64	72	-4	110	210	.00	80	71	76	.13	NA	NA	.14
9/11	74	66	70	-6	120	230	2.00	80	71	76	NA	NA	NA	.10
9/12	88	70	79	3	139	259	.36	88	78	83	NA	NA	NA	.17
9/13	83	67	75	0	154	284	.65	84	76	80	NA	NA	NA	.15
9/14	88	67	78	3	172	312	.00	86	75	81	.17	NA	NA	.18
9/15	89	70	80	5	192	342	.00	92	77	85	.29	NA	NA	.18
9/16	85	70	78	4	210	370	.68	85	79	82	NA	NA	NA	.15
9/17	78	72	75	1	225	395	1.17	79	78	79	NA	NA	NA	.10
9/18	82	69	76	2	241	421	.07	82	78	80	.23	NA	NA	.13
9/19	83	65	74	1	255	445	.00	84	77	81	.06	NA	NA	.15
9/20	83	65	74	1	269	469	.00	84	76	80	.19	NA	NA	.15
9/21	89	70	80	8	289	499	.00	87	77	82	.20	NA	NA	.17
9/22	89	65	77	5	306	526	.00	88	78	83	.22	NA	NA	.19
9/23	87	64	76	4	322	552	.00	87	77	82	.14	NA	NA	.18
9/24	87	64	76	4	338	578	.00	86	77	82	.19	NA	NA	.18
9/25	86	63	75	4	353	603	.00	86	77	82	.20	NA	NA	.17
9/26	86	63	75	4	368	628	.00	86	77	82	.23	NA	NA	.17
9/27	84	62	73	2	381	651	.00	85	77	81	.09	NA	NA	.16
9/28	70	62	66	-4	387	667	.00	77	75	76	.13	NA	NA	.07
9/29	80	62	71	1	398	688	.00	80	73	77	.11	NA	NA	.13
9/30	82	65	74	5	412	712	.00	80	74	77	.07	NA	NA	.14

AIR TEMPERATURES (in degrees F):

Mean Maximum= 82.4      Mean Minimum= 64.6      Average= 73.5  
DFN= -3.3      DFN= +2.6      DFN= -.3  
Highest= 89      Lowest= 53

PRECIPITATION STATISTICS (inches):

Total= 8.91      DFN= +4.35      Greatest Daily= 3.05      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 92      Lowest= 70      Average= 80

AVERAGE DAILY VALUES:

Pan Evaporation= .18 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .15 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	74	65	70	2	10	20	Trace	79	75	77	NA	NA	NA	.08
10/ 2	72	65	69	1	19	39	.40	76	74	75	NA	NA	NA	.07
10/ 3	72	65	69	1	28	58	.25	76	74	75	NA	NA	NA	.07
10/ 4	74	49	62	-5	30	70	.00	77	69	73	.15	NA	NA	.13
10/ 5	71	48	60	-7	30	80	.00	75	66	71	.18	NA	NA	.12
10/ 6	67	45	56	-11	30	86	.00	74	64	69	.14	NA	NA	.10
10/ 7	71	44	58	-8	30	94	.00	74	64	69	.14	NA	NA	.13
10/ 8	70	42	56	-10	30	100	.00	74	64	69	.14	NA	NA	.13
10/ 9	70	44	57	-8	30	107	.00	75	65	70	.14	NA	NA	.12
10/10	70	48	59	-6	30	116	.00	75	65	70	.13	NA	NA	.11
10/11	70	48	59	-5	30	125	.00	70	64	67	.12	NA	NA	.10
10/12	73	46	60	-4	30	135	.00	72	61	67	.15	NA	NA	.13
10/13	69	39	54	-9	30	139	.00	71	61	66	.15	NA	NA	.13
10/14	64	36	50	-13	30	139	.00	69	60	65	.17	NA	NA	.10
10/15	69	38	54	-8	30	143	.00	70	59	65	.07	NA	NA	.13
10/16	72	47	60	-2	30	153	.00	71	62	67	.15	NA	NA	.12
10/17	75	50	63	1	33	166	.00	72	63	68	.11	NA	NA	.13
10/18	75	53	64	3	37	180	.00	76	64	70	.17	NA	NA	.11
10/19	84	57	71	10	48	201	.00	74	65	70	.08	NA	NA	.16
10/20	70	43	57	-4	48	208	.01	73	65	69	.10	NA	NA	.11
10/21	67	44	56	-4	48	214	.69	68	63	66	.06	NA	NA	.09
10/22	63	49	56	-4	48	220	.06	69	62	66	.12	NA	NA	.05
10/23	66	42	54	-6	48	224	.00	69	61	65	.16	NA	NA	.09
10/24	78	50	64	5	52	238	.14	68	64	66	.08	NA	NA	.14
10/25	71	40	56	-3	52	244	.00	68	61	65	.12	NA	NA	.13
10/26	73	41	57	-2	52	251	.00	67	59	63	.10	NA	NA	.13
10/27	67	51	59	1	52	260	Trace	64	61	63	.04	NA	NA	.06
10/28	78	51	65	7	57	275	.00	71	62	67	.08	NA	NA	.13
10/29	78	56	67	10	64	292	.00	71	63	67	.07	NA	NA	.12
10/30	74	51	63	6	67	305	.00	72	65	69	.09	NA	NA	.11
10/31	70	53	62	5	69	317	.13	69	64	67	.13	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 71.5      Mean Minimum= 48.4      Average= 60.0  
DFN= -4.6      DFN= +.1      DFN= -2.2  
Highest= 84    Lowest= 36

PRECIPITATION STATISTICS (inches):

Total= 1.68    DFN= -1.11    Greatest Daily= .69    Rain Days= 7

SOIL TEMPERATURES (in degrees F):

Highest= 79    Lowest= 59    Average= 68

AVERAGE DAILY VALUES:

Pan Evaporation= .12 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .11 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	54	48	51	-5	0	1	.41	65	62	64	.13	NA	NA	.00
11/ 2	68	44	56	0	0	7	.00	68	59	64	.03	NA	NA	.09
11/ 3	68	46	57	1	0	14	.00	75	46	61	.17	NA	NA	.08
11/ 4	68	62	65	10	5	29	.00	75	53	64	.09	NA	NA	.03
11/ 5	75	53	64	9	9	43	1.60	68	62	65	NA	NA	NA	.10
11/ 6	72	48	60	5	9	53	.00	67	58	63	.12	NA	NA	.10
11/ 7	69	37	53	-2	9	56	.00	66	55	61	.15	NA	NA	.11
11/ 8	71	39	55	1	9	61	.05	67	55	61	.09	NA	NA	.12
11/ 9	67	57	62	8	11	73	.37	64	60	62	.01	NA	NA	.03
11/10	74	58	66	12	17	89	1.07	67	63	65	.42	NA	NA	.08
11/11	75	44	60	7	17	99	.00	67	60	64	.21	NA	NA	.13
11/12	64	45	55	2	17	104	.00	65	58	62	.13	NA	NA	.05
11/13	69	54	62	9	19	116	1.15	66	58	62	NA	NA	NA	.05
11/14	68	45	57	4	19	123	.00	67	61	64	.15	NA	NA	.08
11/15	68	50	59	7	19	132	.00	65	60	63	.05	NA	NA	.06
11/16	74	61	68	16	27	150	.00	67	63	65	.03	NA	NA	.06
11/17	74	43	59	7	27	159	.95	65	60	63	NA	NA	NA	.12
11/18	62	38	50	-2	27	159	.00	63	56	60	.16	NA	NA	.06
11/19	71	38	55	4	27	164	.00	61	55	58	.13	NA	NA	.11
11/20	72	59	66	15	33	180	.57	66	61	64	.05	NA	NA	.05
11/21	66	43	55	4	33	185	.00	66	59	63	.18	NA	NA	.07
11/22	60	40	50	0	33	185	.00	62	55	59	.08	NA	NA	.04
11/23	64	40	52	2	33	187	.00	61	54	58	NA	NA	NA	.06
11/24	65	38	52	2	33	189	.00	62	55	59	.08	NA	NA	.07
11/25	68	39	54	5	33	193	.00	62	55	59	.10	NA	NA	.09
11/26	70	48	59	10	33	202	.00	63	55	59	.11	NA	NA	.07
11/27	74	59	67	18	40	219	.50	64	62	63	.07	NA	NA	.06
11/28	63	37	50	1	40	219	.00	64	50	57	NA	NA	NA	.06
11/29	53	28	41	-7	40	219	.00	57	51	54	.07	NA	NA	.03
11/30	60	28	44	-4	40	219	.00	57	50	54	.07	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 67.5      Mean Minimum= 45.6      Average= 56.6  
DFN= +2.1                      DFN= +7.1                      DFN= +4.6  
Highest= 75      Lowest= 28

PRECIPITATION STATISTICS (inches):

Total= 6.67      DFN= +3.22      Greatest Daily= 1.60      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 75      Lowest= 46      Average= 61

AVERAGE DAILY VALUES:

Pan Evaporation= .12 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .07 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Chilton Area Horticulture Substation, Clanton  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	60	31	46	-2	0	0	.00	57	50	54	.10	NA	NA	.06
12/ 2	56	30	43	-5	0	0	.00	54	48	51	.12	NA	NA	.04
12/ 3	63	28	46	-2	0	0	.00	54	47	51	.08	NA	NA	.09
12/ 4	64	30	47	0	0	0	.00	56	47	52	NA	NA	NA	.09
12/ 5	58	34	46	-1	0	0	.00	57	48	53	NA	NA	NA	.04
12/ 6	62	32	47	0	0	0	.00	54	48	51	.07	NA	NA	.07
12/ 7	65	33	49	2	0	0	.00	55	47	51	.09	NA	NA	.08
12/ 8	65	39	52	5	0	2	.00	57	50	54	.05	NA	NA	.06
12/ 9	69	40	55	9	0	7	.08	58	50	54	.05	NA	NA	.09
12/10	48	29	39	-7	0	7	.00	55	45	50	.06	NA	NA	.00
12/11	49	29	39	-7	0	7	.18	55	45	50	NA	NA	NA	.00
12/12	41	31	36	-10	0	7	.00	50	45	48	.08	NA	NA	.00
12/13	46	26	36	-10	0	7	.00	50	44	47	NA	NA	NA	.00
12/14	55	26	41	-4	0	7	.00	50	43	47	NA	NA	NA	.04
12/15	62	33	48	3	0	7	.01	51	44	48	.06	NA	NA	.06
12/16	56	32	44	-1	0	7	.28	54	49	52	.05	NA	NA	.03
12/17	43	29	36	-9	0	7	.00	51	43	47	.09	NA	NA	.00
12/18	45	22	34	-11	0	7	.00	47	42	45	NA	NA	NA	.00
12/19	62	27	45	1	0	7	.00	49	43	46	NA	NA	NA	.08
12/20	59	37	48	4	0	7	.00	52	45	49	.10	NA	NA	.03
12/21	61	49	55	11	0	12	.00	51	49	50	NA	NA	NA	.01
12/22	66	53	60	16	0	22	.00	54	51	53	NA	NA	NA	.02
12/23	71	57	64	20	4	36	.36	59	57	58	NA	NA	NA	.04
12/24	67	57	62	18	6	48	.06	59	56	58	.06	NA	NA	.02
12/25	68	43	56	12	6	54	.08	61	53	57	.08	NA	NA	.07
12/26	60	34	47	3	6	54	.00	57	49	53	.10	NA	NA	.05
12/27	65	48	57	13	6	61	.00	55	49	52	.05	NA	NA	.03
12/28	71	45	58	14	6	69	.25	57	49	53	.10	NA	NA	.08
12/29	71	27	49	5	6	69	.00	56	46	51	NA	NA	NA	.14
12/30	55	32	44	0	6	69	.00	53	44	49	.05	NA	NA	.02
12/31	62	41	52	9	6	71	1.87	52	49	51	NA	NA	NA	.04

AIR TEMPERATURES (in degrees F):

Mean Maximum= 59.5      Mean Minimum= 35.6      Average= 47.6  
DFN= +2.4                      DFN= +2.6                      DFN= +2.5  
Highest= 71      Lowest= 22

PRECIPITATION STATISTICS (inches):

Total= 3.17      DFN= -2.38      Greatest Daily= 1.87      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 61      Lowest= 42      Average= 51

AVERAGE DAILY VALUES:

Fan Evaporation= .08 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .04 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
1/ 1	53	39	46	5	0	0	.33	49	43	46	NA	NA	NA	.00
1/ 2	49	28	39	-2	0	0	.19	48	41	45	NA	NA	NA	.00
1/ 3	48	28	38	-2	0	0	.00	48	41	45	NA	NA	NA	.00
1/ 4	41	30	36	-4	0	0	.35	44	43	44	NA	NA	NA	.00
1/ 5	40	19	30	-10	0	0	.00	43	38	41	NA	NA	NA	.00
1/ 6	31	17	24	-16	0	0	.00	40	36	38	NA	NA	NA	.00
1/ 7	29	17	23	-17	0	0	.17	37	37	37	NA	NA	NA	.00
1/ 8	31	21	26	-14	0	0	.80	38	37	38	NA	NA	NA	.00
1/ 9	30	16	23	-17	0	0	.00	39	38	39	NA	NA	NA	.00
1/10	25	13	19	-21	0	0	.00	39	39	39	NA	NA	NA	.00
1/11	36	11	24	-16	0	0	.00	39	39	39	NA	NA	NA	.00
1/12	45	9	27	-13	0	0	.00	39	38	39	NA	NA	NA	.03
1/13	46	25	36	-4	0	0	.09	39	38	39	NA	NA	NA	.00
1/14	37	15	26	-14	0	0	.00	42	35	39	NA	NA	NA	.00
1/15	38	15	27	-13	0	0	.00	39	35	37	NA	NA	NA	.00
1/16	45	22	34	-6	0	0	.00	41	35	38	NA	NA	NA	.00
1/17	51	29	40	0	0	0	.30	43	35	39	NA	NA	NA	.01
1/18	45	36	41	1	0	0	.48	42	39	41	NA	NA	NA	.00
1/19	55	42	49	9	0	0	.43	49	42	46	NA	NA	NA	.00
1/20	64	50	57	17	0	7	1.59	52	49	51	NA	NA	NA	.03
1/21	62	31	47	7	0	7	.00	56	44	50	NA	NA	NA	.07
1/22	43	29	36	-4	0	7	.00	47	40	44	NA	NA	NA	.00
1/23	38	23	31	-9	0	7	.00	42	37	40	NA	NA	NA	.00
1/24	49	26	38	-2	0	7	.00	44	37	41	NA	NA	NA	.01
1/25	53	30	42	2	0	7	.30	43	37	40	NA	NA	NA	.02
1/26	44	16	30	-10	0	7	Trace	45	36	41	NA	NA	NA	.01
1/27	33	12	23	-17	0	7	.00	39	35	37	NA	NA	NA	.00
1/28	39	12	26	-15	0	7	.00	40	35	38	NA	NA	NA	.00
1/29	55	23	39	-2	0	7	.00	44	35	40	NA	NA	NA	.06
1/30	58	32	45	4	0	7	.00	47	36	42	NA	NA	NA	.05
1/31	63	37	50	9	0	7	.00	48	39	44	NA	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 44.4      Mean Minimum= 24.3      Average= 34.3  
DFN= -5.0                      DFN= -6.1                      DFN= -5.5  
Highest= 64      Lowest= 9

PRECIPITATION STATISTICS (inches):

Total= 5.03      DFN= -.19      Greatest Daily= 1.59      Rain Days= 11

SOIL TEMPERATURES (in degrees F):

Highest= 56      Lowest= 35      Average= 41

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .01 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	65	50	58	17	0	8	.13	51	45	48	NA	NA	NA	.04
2/ 2	68	52	60	19	0	18	Trace	55	49	52	NA	NA	NA	.05
2/ 3	64	52	58	17	0	26	.62	56	53	55	NA	NA	NA	.03
2/ 4	63	45	54	12	0	30	.27	58	54	56	NA	NA	NA	.05
2/ 5	47	25	36	-6	0	30	.00	54	40	47	NA	NA	NA	.01
2/ 6	36	7	22	-20	0	30	.00	43	36	40	NA	NA	NA	.00
2/ 7	25	7	16	-26	0	30	.00	36	35	36	NA	NA	NA	.00
2/ 8	40	14	27	-15	0	30	.00	37	34	36	NA	NA	NA	.00
2/ 9	47	21	34	-8	0	30	.00	44	36	40	NA	NA	NA	.03
2/10	52	22	37	-5	0	30	.00	48	36	42	NA	NA	NA	.05
2/11	59	25	42	-1	0	30	.00	49	37	43	NA	NA	NA	.09
2/12	54	14	34	-9	0	30	.05	46	37	42	NA	NA	NA	.09
2/13	28	13	21	-22	0	30	.00	40	35	38	NA	NA	NA	.00
2/14	40	19	30	-13	0	30	.00	44	35	40	NA	NA	NA	.00
2/15	61	33	47	4	0	30	.92	46	35	41	NA	NA	NA	.08
2/16	44	20	32	-11	0	30	Trace	44	37	41	NA	NA	NA	.01
2/17	48	20	34	-10	0	30	.00	48	37	43	NA	NA	NA	.04
2/18	58	29	44	0	0	30	.00	47	38	43	NA	NA	NA	.08
2/19	55	36	46	2	0	30	.08	46	40	43	NA	NA	NA	.04
2/20	50	38	44	0	0	30	.05	46	43	45	NA	NA	NA	.00
2/21	52	25	39	-5	0	30	.00	51	39	45	NA	NA	NA	.05
2/22	47	26	37	-8	0	30	.00	48	38	43	NA	NA	NA	.02
2/23	65	36	51	6	0	31	Trace	51	38	45	NA	NA	NA	.10
2/24	58	27	43	-2	0	31	.03	49	40	45	NA	NA	NA	.09
2/25	45	19	32	-13	0	31	.00	47	38	43	NA	NA	NA	.03
2/26	48	21	35	-11	0	31	.00	46	37	42	NA	NA	NA	.05
2/27	59	25	42	-4	0	31	.00	50	37	44	NA	NA	NA	.10
2/28	70	28	49	3	0	31	.00	54	40	47	NA	NA	NA	.16
2/29	64	28	46	0	0	31	.00	54	40	47	NA	NA	NA	.13

AIR TEMPERATURES (in degrees F):

Mean Maximum= 52.1      Mean Minimum= 26.8      Average= 39.5  
DFN= -1.9      DFN= -5.7      DFN= -3.8  
Highest= 70      Lowest= 7

PRECIPITATION STATISTICS (inches):

Total= 2.15      DFN= -2.94      Greatest Daily= .92      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 58      Lowest= 34      Average= 44

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .05 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL				VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN	EVAP			
3/ 1	66	30	48	2	0	0	.00	54	40	47	NA	NA	NA	.13
3/ 2	67	32	50	3	0	0	.00	55	40	48	NA	NA	NA	.13
3/ 3	70	40	55	8	0	5	.02	55	41	48	.14	NA	NA	.13
3/ 4	66	55	61	14	1	16	.47	56	49	53	.08	NA	NA	.06
3/ 5	59	35	47	0	1	16	.00	56	46	51	.10	NA	NA	.08
3/ 6	54	36	45	-3	1	16	.00	56	46	51	.06	NA	NA	.04
3/ 7	61	34	48	0	1	16	.03	56	44	50	.12	NA	NA	.09
3/ 8	68	37	53	5	1	19	.00	58	44	51	.08	NA	NA	.13
3/ 9	68	49	59	10	1	28	.56	56	48	52	.11	NA	NA	.09
3/10	60	38	49	0	1	28	.18	56	48	52	.01	NA	NA	.08
3/11	45	28	37	-12	1	28	.08	48	41	45	.01	NA	NA	.02
3/12	66	32	49	-1	1	28	.00	57	41	49	.11	NA	NA	.14
3/13	60	38	49	-1	1	28	.27	52	43	48	.09	NA	NA	.08
3/14	52	30	41	-9	1	28	Trace	55	43	49	.13	NA	NA	.06
3/15	40	20	30	-20	1	28	.01	48	38	43	NA	NA	NA	.01
3/16	41	22	32	-19	1	28	.00	48	38	43	NA	NA	NA	.01
3/17	44	24	34	-17	1	28	.00	50	38	44	NA	NA	NA	.03
3/18	57	30	44	-7	1	28	.02	54	39	47	NA	NA	NA	.09
3/19	46	29	38	-14	1	28	.08	45	40	43	NA	NA	NA	.03
3/20	50	29	40	-12	1	28	.00	48	40	44	NA	NA	NA	.05
3/21	67	39	53	0	1	31	.00	55	40	48	.19	NA	NA	.13
3/22	76	45	61	8	2	42	.00	61	45	53	.24	NA	NA	.17
3/23	76	48	62	9	4	54	.00	63	47	55	.25	NA	NA	.16
3/24	75	50	63	9	7	67	.00	63	50	57	.24	NA	NA	.15
3/25	75	55	65	11	12	82	.02	64	54	59	.21	NA	NA	.13
3/26	62	52	57	3	12	89	.26	61	57	59	NA	NA	NA	.06
3/27	74	36	55	0	12	94	.00	64	48	56	.25	NA	NA	.19
3/28	66	38	52	-3	12	96	.00	62	48	55	.26	NA	NA	.13
3/29	76	48	62	7	14	108	.00	64	48	56	.28	NA	NA	.16
3/30	79	56	68	12	22	126	.04	68	52	60	.27	NA	NA	.16
3/31	69	57	63	7	25	139	.11	64	59	62	.04	NA	NA	.09

AIR TEMPERATURES (in degrees F):

Mean Maximum= 62.4      Mean Minimum= 38.5      Average= 50.4  
DFN= +.4      DFN= -1.2      DFN= -.4  
Highest= 79      Lowest= 20

PRECIPITATION STATISTICS (inches):

Total= 2.15      DFN= -4.53      Greatest Daily= .56      Rain Days= 14

SOIL TEMPERATURES (in degrees F):

Highest= 68      Lowest= 38      Average= 51

AVERAGE DAILY VALUES:

Pan Evaporation= .15 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .10 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
4/ 1	76	59	68	12	8	18	.09	66	59	63	.12	NA	NA	.13
4/ 2	64	57	61	4	9	29	.52	61	59	60	NA	NA	NA	.06
4/ 3	65	58	62	5	11	41	.51	60	59	60	NA	NA	NA	.07
4/ 4	67	60	64	7	15	55	.02	61	60	61	NA	NA	NA	.07
4/ 5	78	53	66	8	21	71	.00	69	58	64	.27	NA	NA	.17
4/ 6	85	53	69	11	30	90	.09	70	58	64	.30	NA	NA	.21
4/ 7	66	47	57	-1	30	97	Trace	64	51	58	.32	NA	NA	.11
4/ 8	65	42	54	-5	30	101	.00	61	50	56	.37	NA	NA	.12
4/ 9	70	42	56	-3	30	107	.00	67	50	59	.23	NA	NA	.15
4/10	75	45	60	1	30	117	.00	68	51	60	.28	NA	NA	.18
4/11	77	51	64	4	34	131	.00	70	53	62	.21	NA	NA	.17
4/12	58	41	50	-10	34	131	1.65	57	53	55	NA	NA	NA	.08
4/13	54	38	46	-14	34	131	.04	54	50	52	.08	NA	NA	.07
4/14	70	39	55	-5	34	136	.00	67	50	59	.28	NA	NA	.17
4/15	76	46	61	0	35	147	.00	69	52	61	.13	NA	NA	.18
4/16	76	39	58	-3	35	155	.00	68	53	61	.22	NA	NA	.21
4/17	65	38	52	-9	35	157	.00	67	52	60	.15	NA	NA	.14
4/18	75	44	60	-1	35	167	.56	69	52	61	.31	NA	NA	.18
4/19	76	49	63	1	38	180	.70	71	60	66	.23	NA	NA	.18
4/20	60	33	47	-15	38	180	.00	67	51	59	.16	NA	NA	.13
4/21	69	35	52	-10	38	182	.00	68	51	60	.26	NA	NA	.18
4/22	79	51	65	3	43	197	.00	71	55	63	.24	NA	NA	.19
4/23	76	60	68	5	51	215	Trace	71	60	66	.15	NA	NA	.14
4/24	78	59	69	6	60	234	.00	71	64	68	.11	NA	NA	.16
4/25	70	44	57	-6	60	241	.00	73	58	66	.31	NA	NA	.16
4/26	70	44	57	-6	60	248	.21	67	58	63	.08	NA	NA	.16
4/27	73	52	63	-1	63	261	.00	74	59	67	.18	NA	NA	.15
4/28	68	36	52	-12	63	263	.00	71	54	63	.30	NA	NA	.17
4/29	63	36	50	-14	63	263	.00	69	53	61	.27	NA	NA	.14
4/30	69	40	55	-9	63	268	.00	69	53	61	.25	NA	NA	.17

AIR TEMPERATURES (in degrees F):

Mean Maximum= 70.4      Mean Minimum= 46.4      Average= 58.4  
DFN= -2.0                      DFN= -2.2                      DFN= -2.1  
Highest= 85      Lowest= 33

PRECIPITATION STATISTICS (inches):

Total= 4.39      DFN= -.94      Greatest Daily= 1.65      Rain Days= 10

SOIL TEMPERATURES (in degrees F):

Highest= 74      Lowest= 50      Average= 61

AVERAGE DAILY VALUES:

Pan Evaporation= .22 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .15 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
5/ 1	68	42	55	-10	0	5	.00	66	53	60	.13	NA	NA	.15
5/ 2	75	45	60	-5	0	15	.00	74	54	64	.25	NA	NA	.19
5/ 3	78	45	62	-3	2	27	.00	77	56	67	.26	NA	NA	.21
5/ 4	75	53	64	-1	6	41	.42	72	58	65	.18	NA	NA	.17
5/ 5	70	46	58	-8	6	49	.00	69	57	63	.18	NA	NA	.16
5/ 6	69	47	58	-8	6	57	.00	68	55	62	.29	NA	NA	.15
5/ 7	75	47	61	-5	7	68	.00	72	55	64	.25	NA	NA	.19
5/ 8	81	52	67	1	14	85	.00	76	57	67	.22	NA	NA	.21
5/ 9	79	60	70	4	24	105	.00	74	61	68	.35	NA	NA	.17
5/10	78	56	67	0	31	122	.65	76	63	70	.20	NA	NA	.18
5/11	75	50	63	-4	34	135	.00	74	60	67	.17	NA	NA	.18
5/12	75	49	62	-5	36	147	.00	74	60	67	.27	NA	NA	.18
5/13	76	55	66	-1	42	163	.00	73	60	67	.19	NA	NA	.17
5/14	78	52	65	-2	47	178	.00	76	63	70	.20	NA	NA	.19
5/15	85	57	71	3	58	199	.02	80	63	72	.28	NA	NA	.22
5/16	86	60	73	5	71	222	.12	83	63	73	.15	NA	NA	.22
5/17	84	57	71	3	82	243	.00	77	65	71	.23	NA	NA	.21
5/18	77	50	64	-4	86	257	.00	80	63	72	.34	NA	NA	.19
5/19	77	48	63	-5	89	270	.00	79	63	71	.34	NA	NA	.20
5/20	76	49	63	-6	92	283	.00	80	63	72	.20	NA	NA	.19
5/21	81	52	67	-2	99	300	.00	81	63	72	.21	NA	NA	.21
5/22	84	58	71	2	110	321	.00	81	65	73	.23	NA	NA	.21
5/23	81	60	71	2	121	342	.22	80	67	74	.15	NA	NA	.19
5/24	76	58	67	-3	128	359	.29	74	65	70	.20	NA	NA	.16
5/25	71	56	64	-6	132	373	.54	70	64	67	.12	NA	NA	.14
5/26	72	48	60	-10	132	383	.00	74	60	67	.32	NA	NA	.17
5/27	74	46	60	-10	132	393	.00	76	60	68	.25	NA	NA	.19
5/28	79	48	64	-6	136	407	.00	80	60	70	.25	NA	NA	.21
5/29	82	50	66	-5	142	423	.00	82	62	72	.28	NA	NA	.23
5/30	86	55	71	0	153	444	.00	84	64	74	.24	NA	NA	.24
5/31	89	60	75	4	168	469	.00	85	67	76	.28	NA	NA	.24

AIR TEMPERATURES (in degrees F):

Mean Maximum= 77.8      Mean Minimum= 52.0      Average= 64.9  
DFN= -1.1      DFN= -4.2      DFN= -2.7  
Highest= 89      Lowest= 42

PRECIPITATION STATISTICS (inches):

Total= 2.26      DFN= -2.25      Greatest Daily= .65      Rain Days= 7

SOIL TEMPERATURES (in degrees F):

Highest= 85      Lowest= 53      Average= 69

AVERAGE DAILY VALUES:

Pan Evaporation= .23 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .19 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
6/ 1	89	61	75	4	15	25	.00	86	69	78	.27	NA	NA	.24
6/ 2	88	61	75	3	30	50	.00	85	70	78	.27	NA	NA	.23
6/ 3	88	59	74	2	44	74	.00	82	70	76	.21	NA	NA	.24
6/ 4	85	55	70	-2	54	94	.00	82	68	75	.30	NA	NA	.23
6/ 5	79	52	66	-6	60	110	.00	83	67	75	.24	NA	NA	.20
6/ 6	81	52	67	-6	67	127	.00	84	67	76	.29	NA	NA	.22
6/ 7	88	56	72	-1	79	149	.00	87	67	77	.30	NA	NA	.25
6/ 8	90	60	75	2	94	174	.00	87	69	78	.24	NA	NA	.25
6/ 9	91	64	78	5	112	202	.00	88	70	79	.38	NA	NA	.24
6/10	82	48	65	-8	117	217	.00	80	66	73	.19	NA	NA	.24
6/11	75	47	61	-13	118	228	.00	83	65	74	.29	NA	NA	.19
6/12	81	48	65	-9	123	243	.00	85	66	76	.32	NA	NA	.23
6/13	85	55	70	-4	133	263	.00	86	66	76	.27	NA	NA	.23
6/14	88	59	74	0	147	287	.00	87	69	78	.25	NA	NA	.24
6/15	91	60	76	2	163	313	.00	88	70	79	.29	NA	NA	.25
6/16	92	61	77	2	180	340	.00	88	72	80	.28	NA	NA	.26
6/17	91	62	77	2	197	367	.00	87	73	80	.31	NA	NA	.25
6/18	91	64	78	3	215	395	.00	86	73	80	.25	NA	NA	.24
6/19	90	62	76	1	231	421	.12	84	70	77	.19	NA	NA	.24
6/20	87	63	75	0	246	446	.00	85	71	78	.25	NA	NA	.22
6/21	94	64	79	4	265	475	.00	90	71	81	.31	NA	NA	.26
6/22	96	66	81	6	286	506	Trace	92	74	83	.31	NA	NA	.27
6/23	96	69	83	7	309	539	.00	90	75	83	.28	NA	NA	.26
6/24	95	71	83	7	332	572	.00	90	76	83	.28	NA	NA	.25
6/25	97	70	84	8	356	606	.00	90	77	84	.27	NA	NA	.26
6/26	95	69	82	6	378	638	.48	90	75	83	.21	NA	NA	.25
6/27	96	71	84	8	402	672	.00	87	75	81	.37	NA	NA	.25
6/28	90	65	78	2	420	700	.00	90	73	82	.41	NA	NA	.23
6/29	90	66	78	2	438	728	.00	89	74	82	.28	NA	NA	.23
6/30	93	71	82	6	460	760	.00	93	75	84	.21	NA	NA	.23

AIR TEMPERATURES (in degrees F):

Mean Maximum= 89.1      Mean Minimum= 61.0      Average= 75.1  
DFN= +3.9                      DFN= -2.1                      DFN= +.9  
Highest= 97      Lowest= 47

PRECIPITATION STATISTICS (inches):

Total= .60      DFN= -3.17      Greatest Daily= .48      Rain Days= 2

SOIL TEMPERATURES (in degrees F):

Highest= 93      Lowest= 65      Average= 79

AVERAGE DAILY VALUES:

Pan Evaporation= .28 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .24 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
7/ 1	80	64	72	-4	12	22	.03	89	74	82	.11	NA	NA	.17
7/ 2	86	66	76	-1	28	48	.00	88	74	81	.35	NA	NA	.20
7/ 3	80	67	74	-3	42	72	Trace	81	74	78	.19	NA	NA	.16
7/ 4	80	65	73	-4	55	95	.06	80	74	77	.15	NA	NA	.17
7/ 5	78	67	73	-4	68	118	.07	79	74	77	.12	NA	NA	.15
7/ 6	77	65	71	-6	79	139	.10	78	71	75	.09	NA	NA	.15
7/ 7	87	57	72	-5	91	161	.00	84	70	77	.25	NA	NA	.24
7/ 8	92	60	76	-1	107	187	.00	89	70	80	.32	NA	NA	.26
7/ 9	98	63	81	4	128	218	.00	91	72	82	.28	NA	NA	.29
7/10	97	68	83	6	151	251	.00	91	76	84	.35	NA	NA	.27
7/11	93	70	82	5	173	283	Trace	92	76	84	.35	NA	NA	.23
7/12	88	69	79	2	192	312	.06	89	76	83	.25	NA	NA	.21
7/13	90	69	80	3	212	342	.00	89	77	83	.20	NA	NA	.22
7/14	87	71	79	2	231	371	Trace	84	77	81	.14	NA	NA	.19
7/15	92	70	81	4	252	402	.00	88	77	83	.24	NA	NA	.23
7/16	97	72	85	8	277	437	.00	91	77	84	.31	NA	NA	.25
7/17	94	67	81	4	298	468	.08	86	75	81	.11	NA	NA	.25
7/18	94	70	82	5	320	500	.00	91	75	83	.20	NA	NA	.24
7/19	90	71	81	4	341	531	.00	92	77	85	.30	NA	NA	.21
7/20	90	71	81	4	362	562	.00	92	78	85	.31	NA	NA	.21
7/21	92	70	81	3	383	593	.00	90	78	84	.23	NA	NA	.22
7/22	85	67	76	-2	399	619	.78	83	75	79	.25	NA	NA	.19
7/23	83	62	73	-5	412	642	.99	82	73	78	.02	NA	NA	.19
7/24	84	62	73	-5	425	665	.00	84	72	78	.21	NA	NA	.20
7/25	87	62	75	-3	440	690	.00	83	72	78	.28	NA	NA	.22
7/26	86	62	74	-4	454	714	.08	82	72	77	.17	NA	NA	.21
7/27	85	64	75	-3	469	739	.00	84	72	78	.21	NA	NA	.20
7/28	86	66	76	-1	485	765	.43	85	74	80	.17	NA	NA	.20
7/29	88	67	78	1	503	793	.00	86	75	81	.19	NA	NA	.21
7/30	90	67	79	2	522	822	.00	88	75	82	.22	NA	NA	.22
7/31	92	67	80	3	542	852	Trace	88	76	82	.25	NA	NA	.23

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 88.0      Mean Minimum= 66.4      Average= 77.2  
DFN= +.2                      DFN= +.2                      DFN= +.2  
Highest= 98      Lowest= 57

PRECIPITATION STATISTICS (inches):  
Total= 2.68      DFN= -1.30      Greatest Daily= .99      Rain Days= 10

SOIL TEMPERATURES (in degrees F):  
Highest= 92      Lowest= 70      Average= 80

AVERAGE DAILY VALUES:  
Pan Evaporation= .22 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
8/ 1	88	65	77	0	17	27	.49	85	75	80	.24	NA	NA	.21
8/ 2	93	67	80	3	37	57	.00	89	75	82	.23	NA	NA	.24
8/ 3	92	68	80	2	57	87	.13	87	75	81	.16	NA	NA	.23
8/ 4	92	67	80	2	77	117	.27	88	76	82	.24	NA	NA	.23
8/ 5	89	68	79	1	96	146	.23	87	76	82	.27	NA	NA	.21
8/ 6	88	68	78	0	114	174	1.62	87	76	82	.20	NA	NA	.20
8/ 7	90	67	79	1	133	203	.00	89	77	83	.22	NA	NA	.22
8/ 8	90	66	78	1	151	231	.33	88	76	82	.26	NA	NA	.22
8/ 9	90	69	80	3	171	261	.02	89	76	83	.24	NA	NA	.21
8/10	90	70	80	3	191	291	.00	88	78	83	.21	NA	NA	.20
8/11	91	71	81	4	212	322	.00	89	78	84	.25	NA	NA	.21
8/12	90	72	81	4	233	353	.07	88	78	83	.20	NA	NA	.20
8/13	88	68	78	1	251	381	.00	89	79	84	.26	NA	NA	.20
8/14	91	66	79	2	270	410	.00	91	77	84	.32	NA	NA	.22
8/15	93	67	80	3	290	440	.00	88	77	83	.21	NA	NA	.23
8/16	92	68	80	3	310	470	.00	92	78	85	.16	NA	NA	.22
8/17	95	68	82	5	332	502	Trace	93	78	86	.24	NA	NA	.24
8/18	95	68	82	5	354	534	.00	93	78	86	.27	NA	NA	.24
8/19	97	67	82	5	376	566	.00	94	78	86	.32	NA	NA	.25
8/20	92	71	82	5	398	598	.15	92	79	86	.25	NA	NA	.21
8/21	87	68	78	1	416	626	.35	84	77	81	.03	NA	NA	.19
8/22	87	67	77	0	433	653	.06	86	76	81	.16	NA	NA	.19
8/23	90	67	79	3	452	682	.37	90	76	83	.21	NA	NA	.21
8/24	84	66	75	-1	467	707	1.89	85	76	81	.20	NA	NA	.17
8/25	85	59	72	-4	479	729	.00	86	73	80	.22	NA	NA	.20
8/26	87	59	73	-3	492	752	.00	84	73	79	.29	NA	NA	.21
8/27	90	62	76	0	508	778	.00	87	73	80	.23	NA	NA	.22
8/28	90	66	78	2	526	806	.00	86	74	80	.26	NA	NA	.21
8/29	87	65	76	0	542	832	.00	87	75	81	.21	NA	NA	.19
8/30	85	65	75	0	557	857	.00	83	74	79	.23	NA	NA	.18
8/31	79	59	69	-6	566	876	.03	80	71	76	.11	NA	NA	.16

AIR TEMPERATURES (in degrees F):

Mean Maximum= 89.6      Mean Minimum= 66.6      Average= 78.1  
DFN= +1.8      DFN= +1.2      DFN= +1.5  
Highest= 97    Lowest= 59

PRECIPITATION STATISTICS (inches):

Total= 6.01    DFN= +2.78    Greatest Daily= 1.89    Rain Days= 14

SOIL TEMPERATURES (in degrees F):

Highest= 94    Lowest= 71    Average= 82

AVERAGE DAILY VALUES:

Pan Evaporation= .22 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
 Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
 1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
9/ 1	81	61	71	-4	11	21	.00	80	72	76	.08	NA	NA	.16
9/ 2	82	65	74	-1	25	45	.00	84	72	78	.28	NA	NA	.16
9/ 3	82	66	74	-1	39	69	.00	85	72	79	.10	NA	NA	.15
9/ 4	75	64	70	-5	49	89	1.95	77	73	75	.06	NA	NA	.11
9/ 5	68	51	60	-14	49	99	.53	77	73	75	.02	NA	NA	.11
9/ 6	76	52	64	-10	53	113	.00	78	65	72	.22	NA	NA	.16
9/ 7	72	49	61	-13	54	124	.00	76	64	70	.27	NA	NA	.14
9/ 8	78	52	65	-9	59	139	.00	78	64	71	.16	NA	NA	.17
9/ 9	79	57	68	-5	67	157	.00	84	65	75	.23	NA	NA	.16
9/10	86	62	74	1	81	181	.00	84	69	77	.18	NA	NA	.18
9/11	72	62	67	-6	88	198	.20	74	72	73	NA	NA	NA	.10
9/12	85	68	77	4	105	225	1.15	81	72	77	.04	NA	NA	.16
9/13	84	64	74	2	119	249	1.74	78	72	75	NA	NA	NA	.16
9/14	85	64	75	3	134	274	.00	83	72	78	.19	NA	NA	.17
9/15	88	63	76	4	150	300	.00	82	75	79	.20	NA	NA	.19
9/16	86	63	75	3	165	325	.17	82	72	77	.16	NA	NA	.18
9/17	72	63	68	-3	173	343	2.87	74	70	72	NA	NA	NA	.09
9/18	77	63	70	-1	183	363	.53	77	70	74	.06	NA	NA	.12
9/19	80	63	72	1	195	385	.00	83	71	77	.13	NA	NA	.14
9/20	78	64	71	0	206	406	.00	78	71	75	.07	NA	NA	.12
9/21	87	62	75	5	221	431	.00	83	72	78	.15	NA	NA	.18
9/22	83	54	69	-1	230	450	.00	81	68	75	.25	NA	NA	.18
9/23	86	54	70	0	240	470	.00	83	68	76	.14	NA	NA	.20
9/24	88	66	77	8	257	497	.00	83	71	77	.19	NA	NA	.17
9/25	85	65	75	6	272	522	.12	83	73	78	.22	NA	NA	.16
9/26	80	56	68	-1	280	540	.00	81	69	75	.15	NA	NA	.15
9/27	77	57	67	-1	287	557	.00	78	69	74	.10	NA	NA	.13
9/28	78	57	68	0	295	575	.00	81	78	80	.19	NA	NA	.14
9/29	78	58	68	1	303	593	.00	76	68	72	.14	NA	NA	.13
9/30	77	62	70	3	313	613	.00	74	68	71	.06	NA	NA	.11

AIR TEMPERATURES (in degrees F):

Mean Maximum= 80.2      Mean Minimum= 60.2      Average= 70.2  
 DFN= -2.4              DFN= +.0              DFN= -1.2  
 Highest= 88      Lowest= 49

PRECIPITATION STATISTICS (inches):

Total= 9.26      DFN= +4.63      Greatest Daily= 2.87      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 85      Lowest= 64      Average= 75

AVERAGE DAILY VALUES:

Pan Evaporation= .15 (in)      Hours of Wet Vegetation= NA  
 Solar Energy= NA (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .15 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	78	62	70	4	10	20	.00	76	69	73	.12	NA	NA	.12
10/ 2	76	61	69	3	19	39	1.14	75	69	72	.08	NA	NA	.11
10/ 3	75	59	67	2	26	56	.00	77	69	73	.10	NA	NA	.11
10/ 4	72	46	59	-6	26	65	.00	74	61	68	.20	NA	NA	.13
10/ 5	68	41	55	-10	26	70	.00	71	58	65	.21	NA	NA	.12
10/ 6	63	39	51	-13	26	71	.00	69	56	63	.17	NA	NA	.09
10/ 7	67	40	54	-10	26	75	.00	71	56	64	.13	NA	NA	.11
10/ 8	65	35	50	-13	26	75	.00	69	55	62	.12	NA	NA	.11
10/ 9	66	37	52	-11	26	77	.00	70	55	63	.08	NA	NA	.11
10/10	65	40	53	-10	26	80	.00	67	55	61	.17	NA	NA	.10
10/11	69	46	58	-4	26	88	.00	69	58	64	.12	NA	NA	.10
10/12	70	40	55	-7	26	93	.00	71	55	63	.15	NA	NA	.13
10/13	62	31	47	-15	26	93	.00	68	52	60	.17	NA	NA	.10
10/14	62	31	47	-14	26	93	.00	68	52	60	.14	NA	NA	.10
10/15	66	31	49	-12	26	93	.00	68	52	60	.12	NA	NA	.13
10/16	69	40	55	-6	26	98	.00	69	53	61	.13	NA	NA	.12
10/17	73	48	61	1	27	109	.00	69	55	62	.12	NA	NA	.12
10/18	76	55	66	6	33	125	.00	73	59	66	.13	NA	NA	.11
10/19	72	48	60	1	33	135	.21	67	60	64	.07	NA	NA	.11
10/20	65	40	53	-6	33	138	.00	67	55	61	.18	NA	NA	.09
10/21	59	40	50	-9	33	138	.24	59	55	57	.12	NA	NA	.05
10/22	59	41	50	-8	33	138	.03	61	52	57	.04	NA	NA	.05
10/23	61	36	49	-9	33	138	.00	62	52	57	.04	NA	NA	.07
10/24	70	39	55	-3	33	143	.02	63	52	58	NA	NA	NA	.12
10/25	62	35	49	-8	33	143	.00	65	51	58	.15	NA	NA	.08
10/26	70	35	53	-4	33	146	.00	63	51	57	.14	NA	NA	.13
10/27	61	39	50	-6	33	146	Trace	60	53	57	.05	NA	NA	.06
10/28	71	46	59	3	33	155	Trace	66	53	60	.08	NA	NA	.10
10/29	65	41	53	-3	33	158	.40	63	53	58	.07	NA	NA	.08
10/30	68	40	54	-1	33	162	.00	66	54	60	.10	NA	NA	.10
10/31	65	41	53	-2	33	165	.09	62	54	58	.07	NA	NA	.08

AIR TEMPERATURES (in degrees F):

Mean Maximum= 67.4      Mean Minimum= 42.0      Average= 54.7  
DFN= -5.1                      DFN= -5.9                      DFN= -5.5

Highest= 78    Lowest= 31

PRECIPITATION STATISTICS (inches):

Total= 2.13    DFN= -.76    Greatest Daily= 1.14    Rain Days= 7

SOIL TEMPERATURES (in degrees F):

Highest= 77    Lowest= 51    Average= 62

AVERAGE DAILY VALUES:

Pan Evaporation= .12 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .10 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama  
Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	48	44	46	-8	0	0	.20	55	54	55	NA	NA	NA	.00
11/ 2	69	32	51	-3	0	1	.00	63	52	58	NA	NA	NA	.13
11/ 3	69	40	55	1	0	6	.00	64	52	58	NA	NA	NA	.10
11/ 4	71	42	57	3	0	13	.00	63	54	59	NA	NA	NA	.11
11/ 5	64	48	56	3	0	19	1.52	59	56	58	NA	NA	NA	.04
11/ 6	63	41	52	-1	0	21	.08	61	52	57	NA	NA	NA	.06
11/ 7	57	34	46	-7	0	21	.00	58	48	53	NA	NA	NA	.04
11/ 8	68	35	52	-1	0	23	.11	60	47	54	NA	NA	NA	.11
11/ 9	62	45	54	2	0	27	.02	59	55	57	NA	NA	NA	.04
11/10	65	51	58	6	0	35	.00	59	55	57	NA	NA	NA	.04
11/11	67	38	53	1	0	38	.02	62	50	56	NA	NA	NA	.09
11/12	59	39	49	-2	0	38	.00	60	50	55	NA	NA	NA	.04
11/13	62	45	54	3	0	42	.54	56	50	53	NA	NA	NA	.04
11/14	65	38	52	1	0	44	.00	62	50	56	NA	NA	NA	.08
11/15	69	41	55	5	0	49	.00	62	50	56	NA	NA	NA	.09
11/16	72	55	64	14	4	63	.00	62	57	60	NA	NA	NA	.06
11/17	69	36	53	3	4	66	.30	63	51	57	NA	NA	NA	.11
11/18	55	31	43	-6	4	66	.00	58	47	53	NA	NA	NA	.03
11/19	64	41	53	4	4	69	.00	56	47	52	NA	NA	NA	.06
11/20	68	51	60	11	4	79	2.08	58	52	55	NA	NA	NA	.05
11/21	65	38	52	4	4	81	.00	62	50	56	NA	NA	NA	.07
11/22	55	35	45	-3	4	81	.00	57	47	52	NA	NA	NA	.02
11/23	60	41	51	3	4	82	.00	57	47	52	NA	NA	NA	.03
11/24	57	31	44	-4	4	82	.00	56	47	52	NA	NA	NA	.04
11/25	66	33	50	2	4	82	.00	58	47	53	NA	NA	NA	.09
11/26	65	41	53	6	4	85	.00	64	50	57	NA	NA	NA	.06
11/27	67	51	59	12	4	94	.77	59	53	56	NA	NA	NA	.04
11/28	60	33	47	0	4	94	.33	58	47	53	NA	NA	NA	.05
11/29	47	27	37	-10	4	94	.00	53	43	48	NA	NA	NA	.00
11/30	55	29	42	-4	4	94	.03	54	43	49	NA	NA	NA	.03

AIR TEMPERATURES (in degrees F):

Mean Maximum= 62.8      Mean Minimum= 39.5      Average= 51.1  
DFN= +1.5      DFN= +.7      DFN= +1.1  
Highest= 72      Lowest= 27

PRECIPITATION STATISTICS (inches):

Total= 6.00      DFN= +1.92      Greatest Daily= 2.08      Rain Days= 12

SOIL TEMPERATURES (in degrees F):

Highest= 64      Lowest= 43      Average= 55

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .06 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Sand Mountain Substation, Crossville  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	55	27	41	-5	0	0	Trace	53	42	48	NA	NA	NA	.04
12/ 2	50	22	36	-10	0	0	.00	51	40	46	NA	NA	NA	.02
12/ 3	48	23	36	-10	0	0	.00	51	40	46	NA	NA	NA	.01
12/ 4	58	28	43	-2	0	0	.00	51	40	46	NA	NA	NA	.05
12/ 5	55	25	40	-5	0	0	.00	51	40	46	NA	NA	NA	.04
12/ 6	57	28	43	-2	0	0	.00	51	40	46	NA	NA	NA	.05
12/ 7	62	30	46	1	0	0	.00	52	40	46	NA	NA	NA	.07
12/ 8	64	38	51	7	0	1	.00	54	44	49	NA	NA	NA	.06
12/ 9	60	34	47	3	0	1	.08	54	45	50	NA	NA	NA	.05
12/10	42	22	32	-12	0	1	.02	48	40	44	NA	NA	NA	.00
12/11	45	24	35	-9	0	1	.00	46	40	43	NA	NA	NA	.00
12/12	41	23	32	-11	0	1	.00	44	39	42	NA	NA	NA	.00
12/13	42	25	34	-9	0	1	.00	45	37	41	NA	NA	NA	.00
12/14	50	27	39	-4	0	1	.00	47	37	42	NA	NA	NA	.00
12/15	62	35	49	6	0	1	.00	48	38	43	NA	NA	NA	.05
12/16	54	23	39	-4	0	1	.00	48	40	44	NA	NA	NA	.04
12/17	37	20	29	-14	0	1	.00	45	37	41	NA	NA	NA	.00
12/18	38	17	28	-14	0	1	.00	42	36	39	NA	NA	NA	.00
12/19	43	18	31	-11	0	1	.00	41	36	39	NA	NA	NA	.00
12/20	56	26	41	-1	0	1	.00	46	36	41	NA	NA	NA	.04
12/21	63	43	53	11	0	4	.00	49	41	45	NA	NA	NA	.03
12/22	60	49	55	13	0	9	.08	51	48	50	NA	NA	NA	.00
12/23	64	47	56	14	0	15	.71	55	50	53	NA	NA	NA	.03
12/24	61	52	57	15	0	22	.07	55	54	55	NA	NA	NA	.00
12/25	64	36	50	8	0	22	.22	57	45	51	NA	NA	NA	.06
12/26	53	28	41	0	0	22	.00	53	43	48	NA	NA	NA	.02
12/27	62	32	47	6	0	22	.00	53	43	48	NA	NA	NA	.06
12/28	66	42	54	13	0	26	.34	54	51	53	NA	NA	NA	.06
12/29	46	21	34	-7	0	26	.00	53	40	47	NA	NA	NA	.00
12/30	50	21	36	-5	0	26	.08	50	40	45	NA	NA	NA	.02
12/31	47	38	43	2	0	26	.97	46	43	45	NA	NA	NA	.00

AIR TEMPERATURES (in degrees F):

Mean Maximum= 53.4      Mean Minimum= 29.8      Average= 41.6  
DFN= +.7      DFN= -3.0      DFN= -1.2  
Highest= 66      Lowest= 17

PRECIPITATION STATISTICS (inches):

Total= 2.57      DFN= -2.87      Greatest Daily= .97      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 57      Lowest= 36      Average= 46

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .03 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
1/ 1	64	52	58	6	0	8	.42	58	51	55	NA	NA	NA	.02
1/ 2	65	40	53	1	0	11	.74	61	51	56	NA	NA	NA	.07
1/ 3	50	40	45	-7	0	11	.26	52	50	51	.05	NA	NA	.00
1/ 4	51	43	47	-5	0	11	.00	53	50	52	.01	NA	NA	.00
1/ 5	53	33	43	-9	0	11	.00	55	43	49	.11	NA	NA	.01
1/ 6	52	29	41	-11	0	11	.00	50	40	45	.08	NA	NA	.02
1/ 7	47	30	39	-13	0	11	.00	45	39	42	.10	NA	NA	.00
1/ 8	48	35	42	-10	0	11	.24	47	43	45	NA	NA	NA	.00
1/ 9	48	32	40	-12	0	11	.00	44	41	43	.02	NA	NA	.00
1/10	46	30	38	-14	0	11	.00	49	41	45	.06	NA	NA	.00
1/11	49	27	38	-13	0	11	.00	49	38	44	NA	NA	NA	.01
1/12	53	27	40	-11	0	11	.00	49	38	44	NA	NA	NA	.04
1/13	65	38	52	1	0	13	.11	52	50	51	.04	NA	NA	.08
1/14	55	27	41	-10	0	13	.00	55	40	48	NA	NA	NA	.05
1/15	51	27	39	-12	0	13	.00	47	39	43	NA	NA	NA	.02
1/16	55	27	41	-10	0	13	.00	49	39	44	NA	NA	NA	.05
1/17	65	40	53	1	0	16	1.50	55	40	48	.16	NA	NA	.07
1/18	72	61	67	15	7	33	.08	63	54	59	.06	NA	NA	.05
1/19	71	66	69	17	16	52	.02	66	61	64	NA	NA	NA	.03
1/20	73	60	67	15	23	69	.16	67	64	66	.09	NA	NA	.06
1/21	69	43	56	4	23	75	.00	66	53	60	.15	NA	NA	.09
1/22	54	32	43	-9	23	75	.00	58	44	51	.09	NA	NA	.03
1/23	52	32	42	-10	23	75	.00	53	41	47	.09	NA	NA	.02
1/24	56	33	45	-7	23	75	.03	53	41	47	.09	NA	NA	.04
1/25	51	37	44	-8	23	75	.82	53	41	47	NA	NA	NA	.00
1/26	53	28	41	-11	23	75	.00	53	39	46	NA	NA	NA	.04
1/27	47	28	38	-14	23	75	.00	50	38	44	NA	NA	NA	.00
1/28	50	28	39	-13	23	75	.00	49	38	44	NA	NA	NA	.02
1/29	56	29	43	-9	23	75	.00	52	38	45	.08	NA	NA	.06
1/30	65	35	50	-2	23	75	.00	55	40	48	.08	NA	NA	.10
1/31	69	50	60	8	23	85	.00	59	47	53	.09	NA	NA	.07

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 56.6      Mean Minimum= 36.7      Average= 46.7  
DFN= -5.2      DFN= -4.7      DFN= -5.0  
Highest= 73    Lowest= 27

PRECIPITATION STATISTICS (inches):  
Total= 4.38    DFN= -.26    Greatest Daily= 1.50    Rain Days= 11

SOIL TEMPERATURES (in degrees F):  
Highest= 67    Lowest= 38    Average= 49

AVERAGE DAILY VALUES:  
Pan Evaporation= .08 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .03 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	68	55	62	9	2	12	Trace	60	53	57	.01	NA	NA	.05
2/ 2	73	62	68	15	10	30	.52	63	60	62	.05	NA	NA	.06
2/ 3	72	64	68	15	18	48	.04	68	63	66	.07	NA	NA	.05
2/ 4	68	63	66	13	24	64	.00	67	65	66	.03	NA	NA	.03
2/ 5	65	39	52	-1	24	66	.14	65	50	58	.07	NA	NA	.09
2/ 6	39	29	34	-19	24	66	.36	51	40	46	NA	NA	NA	.00
2/ 7	40	20	30	-23	24	66	.00	48	38	43	NA	NA	NA	.00
2/ 8	42	21	32	-21	24	66	.00	43	37	40	NA	NA	NA	.00
2/ 9	56	32	44	-9	24	66	.00	54	39	47	NA	NA	NA	.06
2/10	59	33	46	-8	24	66	.00	56	40	48	.11	NA	NA	.07
2/11	64	37	51	-3	24	67	.00	57	42	50	.10	NA	NA	.09
2/12	66	22	44	-10	24	67	.06	55	41	48	NA	NA	NA	.15
2/13	45	23	34	-20	24	67	.00	51	40	46	NA	NA	NA	.02
2/14	50	34	42	-12	24	67	.00	56	43	50	.09	NA	NA	.01
2/15	67	43	55	1	24	72	1.47	59	55	57	NA	NA	NA	.09
2/16	59	30	45	-9	24	72	.00	61	42	52	.15	NA	NA	.09
2/17	58	30	44	-11	24	72	.00	56	42	49	.08	NA	NA	.08
2/18	51	41	46	-9	24	72	.95	50	43	47	NA	NA	NA	.00
2/19	54	49	52	-3	24	74	2.32	50	49	50	NA	NA	NA	.00
2/20	63	48	56	1	24	80	.09	58	50	54	.05	NA	NA	.06
2/21	49	37	43	-12	24	80	.37	53	46	50	.03	NA	NA	.00
2/22	61	38	50	-5	24	80	.00	62	45	54	.10	NA	NA	.08
2/23	68	44	56	0	24	86	.00	63	45	54	.14	NA	NA	.10
2/24	72	46	59	3	24	95	.08	64	53	59	.11	NA	NA	.12
2/25	59	34	47	-9	24	95	.00	62	44	53	.19	NA	NA	.08
2/26	63	37	50	-6	24	95	.00	61	45	53	.12	NA	NA	.10
2/27	67	39	53	-4	24	98	.00	63	46	55	.14	NA	NA	.12
2/28	70	51	61	4	25	109	.00	66	52	59	.12	NA	NA	.10
2/29	74	53	64	7	29	123	.00	71	52	62	.14	NA	NA	.12

AIR TEMPERATURES (in degrees F):

Mean Maximum= 60.1      Mean Minimum= 39.8      Average= 49.9  
DFN= -4.6      DFN= -3.7      DFN= -4.2  
Highest= 74      Lowest= 20

PRECIPITATION STATISTICS (inches):

Total= 6.40      DFN= +1.47      Greatest Daily= 2.32      Rain Days= 11

SOIL TEMPERATURES (in degrees F):

Highest= 71      Lowest= 37      Average= 53

AVERAGE DAILY VALUES:

Pan Evaporation= .09 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .06 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD			PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	MAX		MIN	MEAN					
3/ 1	75	49	62	5	2	12	.00	74	56	65	.15	NA	NA	.14	
3/ 2	72	46	59	2	2	21	.00	73	56	65	.17	NA	NA	.13	
3/ 3	71	55	63	6	5	34	.81	68	56	62	.11	NA	NA	.09	
3/ 4	68	61	65	7	10	49	1.73	63	62	63	NA	NA	NA	.06	
3/ 5	68	47	58	0	10	57	.00	65	55	60	.15	NA	NA	.10	
3/ 6	59	48	54	-4	10	61	.00	59	54	57	.06	NA	NA	.04	
3/ 7	69	47	58	0	10	69	.00	71	56	64	.13	NA	NA	.11	
3/ 8	73	53	63	4	13	82	.00	72	56	64	.13	NA	NA	.12	
3/ 9	73	57	65	6	18	97	.30	61	59	60	.08	NA	NA	.11	
3/10	72	48	60	1	18	107	.07	68	53	61	.13	NA	NA	.13	
3/11	64	42	53	-6	18	110	.00	67	50	59	.14	NA	NA	.10	
3/12	66	45	56	-4	18	116	.00	68	49	59	.15	NA	NA	.10	
3/13	73	54	64	4	22	130	.00	65	56	61	.05	NA	NA	.12	
3/14	68	41	55	-5	22	135	.00	70	52	61	.27	NA	NA	.13	
3/15	54	31	43	-17	22	135	.00	68	46	57	.22	NA	NA	.07	
3/16	56	34	45	-16	22	135	.00	67	46	57	.19	NA	NA	.08	
3/17	60	35	48	-13	22	135	.00	67	45	56	.25	NA	NA	.10	
3/18	64	40	52	-9	22	137	.53	69	43	56	.08	NA	NA	.11	
3/19	56	40	48	-13	22	137	.02	57	50	54	.04	NA	NA	.06	
3/20	56	37	47	-15	22	137	.00	63	47	55	.17	NA	NA	.07	
3/21	64	44	54	-8	22	141	.00	64	46	55	.18	NA	NA	.10	
3/22	70	50	60	-2	22	151	.00	70	50	60	.17	NA	NA	.12	
3/23	72	50	61	-1	23	162	.00	74	53	64	.16	NA	NA	.13	
3/24	74	53	64	1	27	176	.00	76	57	67	.19	NA	NA	.14	
3/25	74	60	67	4	34	193	.00	73	60	67	.11	NA	NA	.12	
3/26	72	59	66	3	40	209	2.82	66	62	64	NA	NA	NA	.11	
3/27	79	53	66	3	46	225	.08	76	59	68	.15	NA	NA	.17	
3/28	76	48	62	-2	48	237	.00	76	57	67	.22	NA	NA	.17	
3/29	77	53	65	1	53	252	.00	73	56	65	.23	NA	NA	.16	
3/30	75	58	67	3	60	269	Trace	76	60	68	.14	NA	NA	.13	
3/31	80	63	72	8	72	291	.00	82	66	74	.22	NA	NA	.15	

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 68.7      Mean Minimum= 48.4      Average= 58.6  
DFN= -2.3      DFN= -1.2      DFN= -1.7  
Highest= 80      Lowest= 31

PRECIPITATION STATISTICS (inches):  
Total= 6.36      DFN= +.42      Greatest Daily= 2.82      Rain Days= 8

SOIL TEMPERATURES (in degrees F):  
Highest= 82      Lowest= 43      Average= 62

AVERAGE DAILY VALUES:  
Pan Evaporation= .15 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .11 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	80	63	72	7	12	22	.07	82	65	74	.07	NA	NA	.15
4/ 2	76	66	71	6	23	43	.15	73	65	69	.09	NA	NA	.11
4/ 3	68	63	66	1	29	59	2.53	68	65	67	NA	NA	NA	.07
4/ 4	69	55	62	-3	31	71	.12	65	61	63	.01	NA	NA	.11
4/ 5	82	54	68	2	39	89	.00	80	60	70	.20	NA	NA	.19
4/ 6	82	55	69	3	48	108	.24	NA	NA	70	.21	NA	NA	.19
4/ 7	74	53	64	-2	52	122	.00	77	58	68	.39	NA	NA	.15
4/ 8	77	52	65	-1	57	137	.00	74	57	66	.30	NA	NA	.17
4/ 9	77	52	65	-1	62	152	.00	79	57	68	.22	NA	NA	.17
4/10	78	58	68	1	70	170	.00	78	62	70	.14	NA	NA	.16
4/11	79	55	67	0	77	187	.07	81	64	73	.20	NA	NA	.17
4/12	61	46	54	-13	77	191	Trace	69	57	63	.14	NA	NA	.09
4/13	73	46	60	-7	77	201	.00	75	57	66	.18	NA	NA	.17
4/14	74	47	61	-7	78	212	.00	82	58	70	.21	NA	NA	.17
4/15	79	53	66	-2	84	228	.00	84	62	73	.23	NA	NA	.18
4/16	76	59	68	0	92	246	.00	85	64	75	.22	NA	NA	.14
4/17	77	56	67	-1	99	263	.00	86	67	77	.19	NA	NA	.16
4/18	77	58	68	-1	107	281	.02	86	67	77	.15	NA	NA	.16
4/19	78	62	70	1	117	301	.40	78	68	73	.15	NA	NA	.15
4/20	73	45	59	-10	117	310	.00	79	60	70	.23	NA	NA	.17
4/21	72	47	60	-9	117	320	.00	79	59	69	.20	NA	NA	.16
4/22	82	67	75	5	132	345	.00	86	62	74	.18	NA	NA	.16
4/23	82	69	76	6	148	371	.00	78	69	74	.12	NA	NA	.15
4/24	80	72	76	6	164	397	Trace	80	73	77	.10	NA	NA	.13
4/25	86	69	78	8	182	425	.00	93	73	83	.23	NA	NA	.18
4/26	81	68	75	5	197	450	.00	88	75	82	.21	NA	NA	.15
4/27	84	58	71	0	208	471	.00	95	72	84	.26	NA	NA	.20
4/28	84	55	70	-1	218	491	.00	93	70	82	.30	NA	NA	.21
4/29	78	52	65	-6	223	506	.00	90	68	79	.29	NA	NA	.19
4/30	77	56	67	-4	230	523	.11	85	68	77	.22	NA	NA	.17

AIR TEMPERATURES (in degrees F):

Mean Maximum= 77.2      Mean Minimum= 57.0      Average= 67.1  
DFN= -1.0      DFN= +.0      DFN= -.5  
Highest= 86    Lowest= 45

PRECIPITATION STATISTICS (inches):

Total= 3.71    DFN= -1.20    Greatest Daily= 2.53    Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 95    Lowest= 57    Average= 73

AVERAGE DAILY VALUES:

Pan Evaporation= .19 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
5/ 1	64	52	58	-14	0	8	.00	68	62	65	.09	NA	NA	.10
5/ 2	78	53	66	-6	6	24	.00	87	62	75	.26	NA	NA	.18
5/ 3	81	50	66	-6	12	40	.00	90	65	78	.29	NA	NA	.21
5/ 4	79	53	66	-6	18	56	.00	85	66	76	.21	NA	NA	.19
5/ 5	78	57	68	-4	26	74	.00	90	70	80	.33	NA	NA	.17
5/ 6	80	58	69	-4	35	93	.00	90	69	80	.31	NA	NA	.18
5/ 7	84	54	69	-4	44	112	.00	90	69	80	.32	NA	NA	.22
5/ 8	81	57	69	-4	53	131	.00	90	69	80	.28	NA	NA	.19
5/ 9	82	62	72	-1	65	153	.00	88	72	80	.27	NA	NA	.18
5/10	80	67	74	1	79	177	.00	85	74	80	.17	NA	NA	.16
5/11	82	57	70	-4	89	197	.00	90	72	81	.22	NA	NA	.20
5/12	87	56	72	-2	101	219	.00	93	71	82	.34	NA	NA	.24
5/13	79	56	68	-6	109	237	.00	81	69	75	.14	NA	NA	.18
5/14	82	57	70	-4	119	257	.00	92	70	81	.26	NA	NA	.20
5/15	84	57	71	-3	130	278	.00	92	72	82	.27	NA	NA	.21
5/16	88	66	77	2	147	305	.00	95	74	85	.28	NA	NA	.21
5/17	91	66	79	4	166	334	.00	97	76	87	.27	NA	NA	.23
5/18	91	59	75	0	181	359	.00	96	75	86	.30	NA	NA	.25
5/19	88	59	74	-1	195	383	.00	96	75	86	.35	NA	NA	.23
5/20	87	62	75	0	210	408	.00	96	74	85	.30	NA	NA	.22
5/21	85	64	75	-1	225	433	.00	95	76	86	.27	NA	NA	.20
5/22	86	66	76	0	241	459	.26	92	75	84	.21	NA	NA	.20
5/23	80	66	73	-3	254	482	Trace	80	71	76	.15	NA	NA	.16
5/24	83	68	76	0	270	508	.00	93	71	82	.31	NA	NA	.17
5/25	84	65	75	-1	285	533	.05	92	75	84	.25	NA	NA	.19
5/26	83	56	70	-7	295	553	.00	94	72	83	.36	NA	NA	.21
5/27	87	58	73	-4	308	576	.00	95	72	84	.30	NA	NA	.23
5/28	83	55	69	-8	317	595	.00	94	72	83	.28	NA	NA	.22
5/29	85	55	70	-7	327	615	.00	95	73	84	.30	NA	NA	.23
5/30	88	58	73	-4	340	638	.00	92	73	83	.31	NA	NA	.24
5/31	92	65	79	1	359	667	.00	97	77	87	.34	NA	NA	.24

AIR TEMPERATURES (in degrees F):

Mean Maximum= 83.3      Mean Minimum= 59.2      Average= 71.2  
DFN= -1.3      DFN= -4.6      DFN= -3.0  
Highest= 92      Lowest= 50

PRECIPITATION STATISTICS (inches):

Total= .31      DFN= -4.68      Greatest Daily= .26      Rain Days= 2

SOIL TEMPERATURES (in degrees F):

Highest= 97      Lowest= 62      Average= 81

AVERAGE DAILY VALUES:

Pan Evaporation= .27 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .20 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
6/ 1	91	64	78	0	18	28	.00	98	77	88	.32	NA	NA	.24
6/ 2	87	66	77	-1	35	55	.00	98	77	88	.30	NA	NA	.21
6/ 3	91	69	80	2	55	85	.04	97	78	88	.21	NA	NA	.22
6/ 4	89	70	80	2	75	115	.00	98	78	88	.32	NA	NA	.21
6/ 5	87	67	77	-2	92	142	Trace	90	77	84	.18	NA	NA	.21
6/ 6	81	67	74	-5	106	166	.50	89	76	83	.23	NA	NA	.17
6/ 7	82	66	74	-5	120	190	.04	84	74	79	.09	NA	NA	.18
6/ 8	86	65	76	-3	136	216	.05	89	73	81	.20	NA	NA	.21
6/ 9	89	69	79	0	155	245	.00	93	73	83	.24	NA	NA	.21
6/10	87	66	77	-2	172	272	1.99	95	75	85	NA	NA	NA	.21
6/11	83	60	72	-7	184	294	.00	86	69	78	.35	NA	NA	.20
6/12	86	60	73	-7	197	317	.00	86	68	77	.27	NA	NA	.22
6/13	85	62	74	-6	211	341	.00	85	71	78	.24	NA	NA	.21
6/14	87	64	76	-4	227	367	.00	92	71	82	.21	NA	NA	.22
6/15	90	67	79	-1	246	396	.00	97	74	86	.31	NA	NA	.22
6/16	87	69	78	-2	264	424	.00	95	76	86	.25	NA	NA	.20
6/17	89	73	81	1	285	455	.00	99	78	89	.29	NA	NA	.20
6/18	89	69	79	-1	304	484	.00	92	80	86	.25	NA	NA	.21
6/19	85	63	74	-6	318	508	.00	95	78	87	.23	NA	NA	.21
6/20	86	66	76	-5	334	534	.27	95	75	85	.27	NA	NA	.20
6/21	89	69	79	-2	353	563	Trace	87	75	81	.25	NA	NA	.21
6/22	89	72	81	0	374	594	.00	93	76	85	.21	NA	NA	.20
6/23	87	73	80	-1	394	624	.11	87	79	83	.15	NA	NA	.19
6/24	85	71	78	-3	412	652	2.85	85	78	82	NA	NA	NA	.18
6/25	89	74	82	1	434	684	.00	NA	NA	82	NA	NA	NA	.20
6/26	90	74	82	1	456	716	.00	93	88	91	NA	NA	NA	.20
6/27	92	75	84	3	480	750	.06	95	88	92	.25	NA	NA	.21
6/28	94	78	86	5	506	786	.00	100	80	90	.31	NA	NA	.22
6/29	95	79	87	5	533	823	.00	103	82	93	.28	NA	NA	.22
6/30	89	81	85	3	558	858	.00	95	85	90	.18	NA	NA	.17

AIR TEMPERATURES (in degrees F):

Mean Maximum= 87.9      Mean Minimum= 68.9      Average= 78.4  
DFN= -1.7      DFN= -.9      DFN= -1.3  
Highest= 95      Lowest= 60

PRECIPITATION STATISTICS (inches):

Total= 5.91      DFN= -.02      Greatest Daily= 2.85      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 103      Lowest= 68      Average= 85

AVERAGE DAILY VALUES:

Pan Evaporation= .25 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
7/ 1	91	79	85	3	25	35	.00	100	85	93	.28	NA	NA	.19
7/ 2	92	76	84	2	49	69	.48	98	85	92	.24	NA	NA	.21
7/ 3	91	76	84	3	73	103	.00	94	84	89	.29	NA	NA	.20
7/ 4	90	72	81	0	94	134	.00	93	81	87	.27	NA	NA	.21
7/ 5	87	73	80	-1	114	164	Trace	88	80	84	.16	NA	NA	.19
7/ 6	86	70	78	-3	132	192	1.98	84	76	80	NA	NA	NA	.19
7/ 7	86	71	79	-2	151	221	.00	85	76	81	.24	NA	NA	.19
7/ 8	88	69	79	-2	170	250	.00	86	76	81	.20	NA	NA	.20
7/ 9	89	66	78	-3	188	278	.00	87	75	81	.28	NA	NA	.22
7/10	90	74	82	1	210	310	.10	90	75	83	.20	NA	NA	.20
7/11	86	76	81	0	231	341	.18	87	81	84	.12	NA	NA	.17
7/12	86	77	82	1	253	373	.15	87	80	84	.15	NA	NA	.17
7/13	88	73	81	0	274	404	.00	90	80	85	.25	NA	NA	.19
7/14	89	75	82	1	296	436	.00	94	79	87	.27	NA	NA	.19
7/15	92	80	86	5	322	472	.00	98	81	90	.29	NA	NA	.19
7/16	93	74	84	3	346	506	.00	102	84	93	.29	NA	NA	.22
7/17	89	73	81	0	367	537	.03	95	82	89	.14	NA	NA	.20
7/18	85	73	79	-3	386	566	.47	87	80	84	.11	NA	NA	.17
7/19	85	73	79	-3	405	595	.08	88	79	84	.18	NA	NA	.17
7/20	88	72	80	-2	425	625	.27	91	79	85	.26	NA	NA	.19
7/21	88	73	81	-1	446	656	.00	92	80	86	.26	NA	NA	.19
7/22	87	71	79	-3	465	685	.36	92	80	86	.24	NA	NA	.19
7/23	84	69	77	-5	482	712	.22	84	77	81	.09	NA	NA	.18
7/24	88	70	79	-3	501	741	.00	89	77	83	.19	NA	NA	.20
7/25	90	70	80	-2	521	771	.00	93	78	86	.28	NA	NA	.21
7/26	91	69	80	-2	541	801	.44	95	79	87	.29	NA	NA	.22
7/27	93	73	83	1	564	834	.04	93	79	86	.20	NA	NA	.22
7/28	87	73	80	-2	584	864	.00	89	79	84	.17	NA	NA	.18
7/29	89	73	81	-1	605	895	.00	90	79	85	.22	NA	NA	.19
7/30	89	71	80	-2	625	925	.00	94	79	87	.25	NA	NA	.20
7/31	92	73	83	1	648	958	.00	99	81	90	.26	NA	NA	.21

AIR TEMPERATURES (in degrees F):

Mean Maximum= 88.7      Mean Minimum= 72.8      Average= 80.7  
DFN= -1.8                      DFN= +.5                      DFN= -.7  
Highest= 93    Lowest= 66

PRECIPITATION STATISTICS (inches):

Total= 4.80    DFN= -3.01    Greatest Daily= 1.98    Rain Days= 13

SOIL TEMPERATURES (in degrees F):

Highest= 102    Lowest= 75    Average= 85

AVERAGE DAILY VALUES:

Pan Evaporation= .22 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .20 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
8/ 1	92	72	82	0	22	32	.00	97	83	90	.18	NA	NA	.21
8/ 2	92	70	81	-1	43	63	.00	96	81	89	.26	NA	NA	.22
8/ 3	92	72	82	0	65	95	.00	96	81	89	.20	NA	NA	.21
8/ 4	92	74	83	1	88	128	.03	96	83	90	.21	NA	NA	.21
8/ 5	84	74	79	-3	107	157	.22	85	80	83	.07	NA	NA	.16
8/ 6	79	74	77	-5	124	184	.63	82	78	80	.02	NA	NA	.12
8/ 7	81	74	78	-4	142	212	.84	82	78	80	.07	NA	NA	.14
8/ 8	82	72	77	-5	159	239	1.06	82	77	80	NA	NA	NA	.15
8/ 9	75	70	73	-9	172	262	3.97	78	75	77	NA	NA	NA	.11
8/10	86	70	78	-4	190	290	.33	84	75	80	.16	NA	NA	.18
8/11	90	72	81	-1	211	321	.00	91	76	84	.23	NA	NA	.20
8/12	91	72	82	0	233	353	.94	91	78	85	.26	NA	NA	.20
8/13	87	73	80	-2	253	383	.04	86	78	82	.12	NA	NA	.18
8/14	89	73	81	0	274	414	.01	88	78	83	.12	NA	NA	.19
8/15	90	73	82	1	296	446	.90	90	78	84	.22	NA	NA	.19
8/16	90	73	82	1	318	478	.12	91	79	85	.26	NA	NA	.19
8/17	82	72	77	-4	335	505	1.10	81	77	79	NA	NA	NA	.15
8/18	88	73	81	0	356	536	.38	89	77	83	.16	NA	NA	.18
8/19	87	73	80	-1	376	566	1.03	90	78	84	.27	NA	NA	.17
8/20	87	73	80	-1	396	596	.04	93	79	86	.27	NA	NA	.17
8/21	88	73	81	0	417	627	.41	93	80	87	.19	NA	NA	.18
8/22	84	72	78	-3	435	655	.91	85	78	82	.12	NA	NA	.16
8/23	87	73	80	-1	455	685	.08	90	78	84	.18	NA	NA	.17
8/24	88	74	81	0	476	716	.13	90	78	84	.18	NA	NA	.17
8/25	89	74	82	1	498	748	.00	92	79	86	.16	NA	NA	.18
8/26	92	69	81	0	519	779	.00	92	78	85	.29	NA	NA	.21
8/27	92	70	81	0	540	810	.00	94	79	87	.24	NA	NA	.21
8/28	92	71	82	1	562	842	.00	96	79	88	.21	NA	NA	.21
8/29	91	72	82	1	584	874	.00	98	80	89	.22	NA	NA	.20
8/30	89	72	81	0	605	905	.02	96	81	89	.18	NA	NA	.18
8/31	91	72	82	2	627	937	.00	99	81	90	.24	NA	NA	.19

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 87.7      Mean Minimum= 72.3      Average= 80.0  
DFN= -2.7                      DFN= +.5                      DFN= -1.1  
Highest= 92      Lowest= 69

PRECIPITATION STATISTICS (inches):  
Total= 13.19      DFN= +7.18      Greatest Daily= 3.97      Rain Days= 21

SOIL TEMPERATURES (in degrees F):  
Highest= 99      Lowest= 75      Average= 84

AVERAGE DAILY VALUES:  
Pan Evaporation= .19 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .18 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
9/ 1	89	72	81	1	21	31	Trace	95	81	88	.16	NA	NA	.18
9/ 2	85	72	79	-1	40	60	.04	88	80	84	.13	NA	NA	.16
9/ 3	83	72	78	-2	58	88	.45	87	78	83	.06	NA	NA	.14
9/ 4	86	72	79	-1	77	117	1.89	86	77	82	NA	NA	NA	.16
9/ 5	79	66	73	-7	90	140	1.71	78	74	76	NA	NA	NA	.13
9/ 6	82	63	73	-7	103	163	.00	86	72	79	.27	NA	NA	.16
9/ 7	80	56	68	-12	111	181	.00	84	69	77	.26	NA	NA	.17
9/ 8	84	56	70	-10	121	201	.00	84	68	76	.20	NA	NA	.20
9/ 9	77	63	70	-9	131	221	Trace	76	71	74	.13	NA	NA	.13
9/10	75	65	70	-9	141	241	4.00	73	71	72	NA	NA	NA	.11
9/11	87	73	80	1	161	271	.00	86	72	79	.17	NA	NA	.16
9/12	88	73	81	2	182	302	.09	87	78	83	.16	NA	NA	.17
9/13	88	70	79	0	201	331	.00	86	76	81	.15	NA	NA	.17
9/14	92	72	82	3	223	363	.00	91	77	84	.19	NA	NA	.19
9/15	92	72	82	3	245	395	.00	90	78	84	.23	NA	NA	.19
9/16	85	72	79	1	264	424	1.96	83	78	81	NA	NA	NA	.15
9/17	78	73	76	-2	280	450	.78	78	70	74	.04	NA	NA	.10
9/18	88	72	80	2	300	480	.00	88	77	83	.15	NA	NA	.16
9/19	88	73	81	3	321	511	.91	91	77	84	NA	NA	NA	.16
9/20	87	73	80	2	341	541	1.38	90	78	84	NA	NA	NA	.15
9/21	88	74	81	4	362	572	.34	90	78	84	.19	NA	NA	.16
9/22	91	74	83	6	385	605	.00	93	79	86	.22	NA	NA	.17
9/23	91	74	83	7	408	638	.21	93	79	86	.22	NA	NA	.17
9/24	84	75	80	4	428	668	.02	84	80	82	.07	NA	NA	.12
9/25	87	77	82	6	450	700	.00	90	79	85	.19	NA	NA	.14
9/26	87	71	79	4	469	729	.00	90	79	85	.17	NA	NA	.16
9/27	88	71	80	5	489	759	.00	91	79	85	.19	NA	NA	.16
9/28	85	71	78	3	507	787	.13	87	78	83	.14	NA	NA	.14
9/29	83	71	77	2	524	814	.08	84	78	81	.11	NA	NA	.13
9/30	76	68	72	-2	536	836	2.13	78	73	76	NA	NA	NA	.09

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 85.1      Mean Minimum= 70.2      Average= 77.6  
DFN= -2.1      DFN= +1.9      DFN= -.1  
Highest= 92      Lowest= 56

PRECIPITATION STATISTICS (inches):  
Total= 16.12      DFN= +8.94      Greatest Daily= 4.00      Rain Days= 16

SOIL TEMPERATURES (in degrees F):  
Highest= 95      Lowest= 68      Average= 81

AVERAGE DAILY VALUES:  
Pan Evaporation= .17 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .15 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	84	69	77	3	17	27	.15	93	73	83	NA	NA	NA	.14
10/ 2	78	65	72	-2	29	49	.43	78	75	77	NA	NA	NA	.11
10/ 3	76	63	70	-3	39	69	.84	78	73	76	.05	NA	NA	.11
10/ 4	76	55	66	-7	45	85	.00	78	68	73	.17	NA	NA	.13
10/ 5	73	53	63	-9	48	98	.00	77	66	72	.24	NA	NA	.12
10/ 6	72	50	61	-11	49	109	.00	75	62	69	.22	NA	NA	.12
10/ 7	73	50	62	-9	51	121	.00	75	61	68	.19	NA	NA	.12
10/ 8	74	51	63	-8	54	134	.00	78	61	70	.21	NA	NA	.13
10/ 9	72	51	62	-9	56	146	.00	79	63	71	.17	NA	NA	.11
10/10	72	54	63	-8	59	159	.00	75	63	69	.09	NA	NA	.10
10/11	73	49	61	-9	60	170	.00	80	61	71	.17	NA	NA	.12
10/12	73	49	61	-9	61	181	.00	80	64	72	.15	NA	NA	.12
10/13	73	48	61	-9	62	192	.00	80	63	72	.24	NA	NA	.13
10/14	69	45	57	-12	62	199	.00	77	60	69	.20	NA	NA	.11
10/15	71	45	58	-11	62	207	.00	76	60	68	.15	NA	NA	.12
10/16	76	47	62	-7	64	219	.00	79	60	70	.11	NA	NA	.15
10/17	77	57	67	-1	71	236	.00	79	64	72	.12	NA	NA	.12
10/18	79	56	68	0	79	254	.00	81	64	73	.16	NA	NA	.14
10/19	80	56	68	0	87	272	.00	82	64	73	.12	NA	NA	.14
10/20	80	60	70	3	97	292	.00	83	69	76	.21	NA	NA	.13
10/21	78	60	69	2	106	311	Trace	80	70	75	.14	NA	NA	.11
10/22	76	50	63	-4	109	324	.00	76	64	70	.07	NA	NA	.13
10/23	75	49	62	-5	111	336	.00	79	64	72	.14	NA	NA	.13
10/24	76	50	63	-3	114	349	.55	78	64	71	.16	NA	NA	.13
10/25	71	47	59	-7	114	358	.00	75	60	68	.20	NA	NA	.11
10/26	74	47	61	-5	115	369	.00	73	59	66	.13	NA	NA	.13
10/27	77	49	63	-2	118	382	.00	74	59	67	.10	NA	NA	.14
10/28	80	57	69	4	127	401	.00	76	63	70	.10	NA	NA	.13
10/29	81	59	70	6	137	421	.00	78	63	71	.10	NA	NA	.13
10/30	79	62	71	7	148	442	.00	78	69	74	.11	NA	NA	.11
10/31	76	61	69	5	157	461	.00	75	68	72	.11	NA	NA	.09

AIR TEMPERATURES (in degrees F):

Mean Maximum= 75.6      Mean Minimum= 53.7      Average= 64.6  
DFN= -4.0      DFN= -3.5      DFN= -3.8  
Highest= 84      Lowest= 45

PRECIPITATION STATISTICS (inches):

Total= 1.97      DFN= -1.16      Greatest Daily= .84      Rain Days= 4

SOIL TEMPERATURES (in degrees F):

Highest= 93      Lowest= 59      Average= 71

AVERAGE DAILY VALUES:

Pan Evaporation= .15 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .12 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
11/ 1	68	54	61	-2	1	11	.11	70	65	68	.05	NA	NA	.06
11/ 2	70	46	58	-5	1	19	.00	71	64	68	.08	NA	NA	.10
11/ 3	74	51	63	0	4	32	.00	72	59	66	.12	NA	NA	.11
11/ 4	79	61	70	8	14	52	.00	72	60	66	.07	NA	NA	.11
11/ 5	79	62	71	9	25	73	.61	75	65	70	.17	NA	NA	.10
11/ 6	74	54	64	2	29	87	.00	72	59	66	.22	NA	NA	.10
11/ 7	68	43	56	-5	29	93	.00	67	56	62	.13	NA	NA	.09
11/ 8	73	45	59	-2	29	102	.00	67	56	62	.10	NA	NA	.12
11/ 9	79	61	70	9	39	122	.00	72	61	67	.09	NA	NA	.10
11/10	79	60	70	9	49	142	.00	74	65	70	.12	NA	NA	.11
11/11	79	58	69	9	58	161	.00	74	65	70	.14	NA	NA	.11
11/12	75	53	64	4	62	175	.00	72	61	67	.16	NA	NA	.10
11/13	76	58	67	7	69	192	.60	70	61	66	.08	NA	NA	.09
11/14	75	60	68	8	77	210	.00	73	64	69	.07	NA	NA	.08
11/15	79	63	71	12	88	231	.00	75	65	70	.06	NA	NA	.09
11/16	79	65	72	13	100	253	.00	74	67	71	.08	NA	NA	.09
11/17	80	52	66	7	106	269	.90	75	63	69	NA	NA	NA	.13
11/18	68	51	60	1	106	279	.00	68	58	63	.17	NA	NA	.06
11/19	76	53	65	6	111	294	.00	68	58	63	.07	NA	NA	.10
11/20	79	63	71	13	122	315	2.16	72	66	69	NA	NA	NA	.09
11/21	67	43	55	-3	122	320	.00	70	56	63	.17	NA	NA	.08
11/22	60	44	52	-6	122	322	.00	62	56	59	.09	NA	NA	.03
11/23	67	46	57	-1	122	329	.00	64	56	60	.08	NA	NA	.07
11/24	63	44	54	-4	122	333	.00	65	54	60	.06	NA	NA	.05
11/25	70	44	57	0	122	340	.00	64	55	60	.07	NA	NA	.09
11/26	76	55	66	9	128	356	.00	68	57	63	.06	NA	NA	.09
11/27	77	70	74	17	142	380	.02	68	68	68	.08	NA	NA	.05
11/28	78	44	61	4	143	391	.04	71	55	63	.13	NA	NA	.14
11/29	58	34	46	-11	143	391	.00	59	49	54	.10	NA	NA	.04
11/30	64	37	51	-5	143	392	.00	59	49	54	.05	NA	NA	.07

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 73.0      Mean Minimum= 52.5      Average= 62.7  
DFN= +3.0                      DFN= +4.0                      DFN= +3.5  
Highest= 80      Lowest= 34

PRECIPITATION STATISTICS (inches):  
Total= 4.44      DFN= +.69      Greatest Daily= 2.16      Rain Days= 7

SOIL TEMPERATURES (in degrees F):  
Highest= 75      Lowest= 49      Average= 65

AVERAGE DAILY VALUES:  
Pan Evaporation= .10 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .09 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Gulf Coast Substation, Fairhope  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	67	34	51	-5	0	1	Trace	60	49	55	.07	NA	NA	.10
12/ 2	63	32	48	-8	0	1	.00	57	47	52	.14	NA	NA	.08
12/ 3	55	30	43	-13	0	1	.00	55	45	50	.08	NA	NA	.04
12/ 4	60	34	47	-9	0	1	.00	56	45	51	.09	NA	NA	.06
12/ 5	68	37	53	-2	0	4	.00	58	44	51	.11	NA	NA	.10
12/ 6	62	37	50	-5	0	4	.00	57	46	52	.08	NA	NA	.06
12/ 7	68	44	56	1	0	10	.00	59	48	54	.03	NA	NA	.07
12/ 8	71	50	61	6	1	21	.00	64	54	59	.09	NA	NA	.07
12/ 9	69	53	61	6	2	32	.31	61	55	58	.03	NA	NA	.05
12/10	61	42	52	-3	2	34	.00	62	53	58	.10	NA	NA	.04
12/11	54	42	48	-6	2	34	1.45	56	50	53	NA	NA	NA	.00
12/12	44	38	41	-13	2	34	.30	50	49	50	.02	NA	NA	.00
12/13	49	31	40	-14	2	34	.00	51	43	47	.08	NA	NA	.00
12/14	60	34	47	-7	2	34	.00	51	42	47	.02	NA	NA	.05
12/15	62	35	49	-5	2	34	.00	53	44	49	NA	NA	NA	.06
12/16	73	40	57	3	2	41	.00	63	53	58	.10	NA	NA	.12
12/17	52	32	42	-12	2	41	.00	54	42	48	.11	NA	NA	.01
12/18	52	27	40	-13	2	41	.00	50	40	45	NA	NA	NA	.02
12/19	51	29	40	-13	2	41	.00	48	40	44	NA	NA	NA	.01
12/20	64	30	47	-6	2	41	.00	51	40	46	.05	NA	NA	.09
12/21	71	58	65	12	7	56	.00	58	50	54	.05	NA	NA	.05
12/22	76	61	69	16	16	75	.00	64	54	59	.04	NA	NA	.07
12/23	75	63	69	16	25	94	.00	66	61	64	.06	NA	NA	.06
12/24	76	62	69	16	34	113	.00	68	62	65	.10	NA	NA	.07
12/25	76	48	62	9	36	125	.00	68	57	63	.05	NA	NA	.11
12/26	69	43	56	4	36	131	.00	62	51	57	.15	NA	NA	.08
12/27	70	44	57	5	36	138	.00	60	50	55	.08	NA	NA	.08
12/28	73	57	65	13	41	153	.36	63	55	59	.16	NA	NA	.06
12/29	68	35	52	0	41	155	.00	63	50	57	.09	NA	NA	.10
12/30	55	35	45	-7	41	155	.05	55	49	52	.06	NA	NA	.02
12/31	73	55	64	12	45	169	.00	63	53	58	NA	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 64.1      Mean Minimum= 41.7      Average= 52.9  
DFN= +.3      DFN= -1.6      DFN= -.7  
Highest= 76      Lowest= 27

PRECIPITATION STATISTICS (inches):

Total= 2.47      DFN= -2.61      Greatest Daily= 1.45      Rain Days= 5

SOIL TEMPERATURES (in degrees F):

Highest= 68      Lowest= 40      Average= 54

AVERAGE DAILY VALUES:

Pan Evaporation= .08 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .06 (in)



National Weather Service  
 Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
 1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	74	48	61	12	1	11	.00	54	48	51	.11	NA	NA	.11
2/ 2	75	55	65	16	6	26	.00	57	52	55	.05	NA	NA	.10
2/ 3	79	60	70	21	16	46	.00	60	55	58	.11	NA	NA	.11
2/ 4	78	62	70	21	26	66	.00	61	59	60	.07	NA	NA	.09
2/ 5	68	36	52	3	26	68	.22	60	48	54	.06	NA	NA	.11
2/ 6	37	30	34	-16	26	68	.46	50	42	46	NA	NA	NA	.00
2/ 7	39	17	28	-22	26	68	.00	42	39	41	NA	NA	NA	.00
2/ 8	45	20	33	-17	26	68	.00	41	38	40	NA	NA	NA	.02
2/ 9	57	28	43	-7	26	68	.00	44	42	43	NA	NA	NA	.07
2/10	60	30	45	-5	26	68	.00	45	41	43	NA	NA	NA	.09
2/11	64	33	49	-2	26	68	.00	48	42	45	.09	NA	NA	.10
2/12	67	24	46	-5	26	68	.02	48	43	46	NA	NA	NA	.15
2/13	42	24	33	-18	26	68	.00	44	40	42	NA	NA	NA	.00
2/14	59	27	43	-8	26	68	.00	43	39	41	NA	NA	NA	.09
2/15	69	36	53	2	26	71	.80	49	42	46	.19	NA	NA	.13
2/16	59	28	44	-7	26	71	.00	54	42	48	NA	NA	NA	.09
2/17	58	30	44	-7	26	71	.00	42	41	42	.17	NA	NA	.08
2/18	57	33	45	-7	26	71	.06	47	42	45	.12	NA	NA	.06
2/19	53	42	48	-4	26	71	2.10	49	46	48	NA	NA	NA	.01
2/20	64	31	48	-4	26	71	1.21	53	49	51	NA	NA	NA	.12
2/21	54	25	40	-12	26	71	.36	53	47	50	NA	NA	NA	.07
2/22	54	36	45	-7	26	71	.00	49	45	47	NA	NA	NA	.04
2/23	68	38	53	0	26	74	.00	51	47	49	.06	NA	NA	.12
2/24	73	45	59	6	26	83	.00	55	47	51	.11	NA	NA	.13
2/25	57	30	44	-9	26	83	.00	51	45	48	NA	NA	NA	.08
2/26	60	31	46	-7	26	83	.00	47	45	46	NA	NA	NA	.09
2/27	70	35	53	-1	26	86	.00	54	44	49	.13	NA	NA	.15
2/28	73	43	58	4	26	94	.00	55	47	51	.16	NA	NA	.14
2/29	71	43	57	3	26	101	.00	56	50	53	.12	NA	NA	.13

AIR TEMPERATURES (in degrees F):  
 Mean Maximum= 61.5      Mean Minimum= 35.2      Average= 48.3  
                   DFN= -.9                    DFN= -4.2                    DFN= -2.5  
 Highest= 79    Lowest= 17

PRECIPITATION STATISTICS (inches):  
 Total= 5.23    DFN= +.09    Greatest Daily= 2.10    Rain Days= 8

SOIL TEMPERATURES (in degrees F):  
 Highest= 61    Lowest= 38    Average= 48

AVERAGE DAILY VALUES:  
 Pan Evaporation= .11 (in)    Hours of Wet Vegetation= NA  
 Solar Energy= NA (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .09 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
3/ 1	76	42	59	5	0	9	.00	56	49	53	.20	NA	NA	.16
3/ 2	71	40	56	2	0	15	.00	56	49	53	.14	NA	NA	.14
3/ 3	77	44	61	6	1	26	.00	57	50	54	.18	NA	NA	.17
3/ 4	63	55	59	4	1	35	3.58	57	54	56	NA	NA	NA	.04
3/ 5	72	47	60	5	1	45	.00	61	55	58	.11	NA	NA	.13
3/ 6	59	44	52	-3	1	47	.00	57	52	55	.07	NA	NA	.05
3/ 7	72	44	58	2	1	55	.00	62	56	59	.09	NA	NA	.14
3/ 8	76	47	62	6	3	67	.00	62	52	57	.13	NA	NA	.15
3/ 9	69	50	60	4	3	77	1.34	59	55	57	.07	NA	NA	.10
3/10	72	43	58	2	3	85	.19	61	55	58	NA	NA	NA	.14
3/11	55	35	45	-12	3	85	.00	56	40	48	NA	NA	NA	.06
3/12	69	40	55	-2	3	90	.00	60	48	54	.08	NA	NA	.14
3/13	74	52	63	6	6	103	.07	61	53	57	.18	NA	NA	.13
3/14	68	39	54	-3	6	107	.00	62	50	56	.22	NA	NA	.13
3/15	54	28	41	-17	6	107	.00	56	45	51	NA	NA	NA	.08
3/16	55	29	42	-16	6	107	.00	54	45	50	NA	NA	NA	.09
3/17	58	32	45	-13	6	107	.00	54	43	49	NA	NA	NA	.10
3/18	66	38	52	-6	6	109	.15	67	46	57	.01	NA	NA	.13
3/19	56	42	49	-10	6	109	.18	52	49	51	.03	NA	NA	.05
3/20	56	36	46	-13	6	109	.00	55	47	51	.18	NA	NA	.07
3/21	71	41	56	-3	6	115	.00	60	46	53	.11	NA	NA	.15
3/22	78	47	63	3	9	128	.00	62	50	56	.20	NA	NA	.18
3/23	82	49	66	6	15	144	.00	65	52	59	.17	NA	NA	.20
3/24	79	52	66	6	21	160	.00	65	50	58	.19	NA	NA	.17
3/25	82	56	69	9	30	179	.00	63	59	61	.17	NA	NA	.18
3/26	79	55	67	6	37	196	.97	63	58	61	NA	NA	NA	.16
3/27	75	48	62	1	39	208	.69	64	56	60	NA	NA	NA	.16
3/28	75	46	61	0	40	219	.00	55	55	55	NA	NA	NA	.17
3/29	80	50	65	3	45	234	.00	67	54	61	.13	NA	NA	.19
3/30	83	53	68	6	53	252	.00	68	58	63	.10	NA	NA	.20
3/31	84	59	72	10	65	274	.00	70	60	65	.30	NA	NA	.19

AIR TEMPERATURES (in degrees F):

Mean Maximum= 70.5      Mean Minimum= 44.6      Average= 57.6  
DFN= +.9      DFN= -1.4      DFN= -.2  
Highest= 84      Lowest= 28

PRECIPITATION STATISTICS (inches):

Total= 7.17      DFN= +1.73      Greatest Daily= 3.58      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 70      Lowest= 40      Average= 56

AVERAGE DAILY VALUES:

Pan Evaporation= .14 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .13 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	82	62	72	9	12	22	.00	70	62	66	.19	NA	NA	.16
4/ 2	79	59	69	6	21	41	.00	69	62	66	.20	NA	NA	.15
4/ 3	75	61	68	5	29	59	.02	66	64	65	.02	NA	NA	.12
4/ 4	77	62	70	6	39	79	.00	68	64	66	.08	NA	NA	.13
4/ 5	87	57	72	8	51	101	.00	75	65	70	.23	NA	NA	.21
4/ 6	91	58	75	11	66	126	.15	75	62	69	.15	NA	NA	.24
4/ 7	78	50	64	-1	70	140	.00	70	57	64	.19	NA	NA	.18
4/ 8	74	49	62	-3	72	152	.00	65	57	61	.37	NA	NA	.16
4/ 9	77	46	62	-3	74	164	.00	70	57	64	.27	NA	NA	.19
4/10	81	53	67	1	81	181	.00	70	59	65	.19	NA	NA	.19
4/11	84	54	69	3	90	200	.00	72	62	67	.11	NA	NA	.21
4/12	68	38	53	-13	90	203	.36	67	55	61	.02	NA	NA	.16
4/13	55	41	48	-18	90	203	.05	57	55	56	.03	NA	NA	.07
4/14	74	46	60	-7	90	213	.00	65	53	59	.33	NA	NA	.17
4/15	82	53	68	1	98	231	.00	69	58	64	.25	NA	NA	.20
4/16	64	51	58	-9	98	239	.00	70	60	65	.25	NA	NA	.09
4/17	77	49	63	-4	101	252	.00	70	60	65	.22	NA	NA	.18
4/18	85	55	70	2	111	272	.00	74	60	67	.27	NA	NA	.22
4/19	83	60	72	4	123	294	1.41	72	65	69	NA	NA	NA	.19
4/20	72	43	58	-10	123	302	.00	79	60	70	.26	NA	NA	.17
4/21	77	50	64	-4	127	316	.00	72	59	66	.23	NA	NA	.18
4/22	85	51	68	-1	135	334	.00	75	61	68	.11	NA	NA	.23
4/23	86	62	74	5	149	358	.01	76	66	71	.27	NA	NA	.20
4/24	87	58	73	4	162	381	.02	75	70	73	.10	NA	NA	.22
4/25	88	65	77	8	179	408	.00	76	70	73	.23	NA	NA	.21
4/26	86	62	74	5	193	432	.00	75	70	73	.18	NA	NA	.20
4/27	81	54	68	-1	201	450	.00	78	68	73	.29	NA	NA	.20
4/28	84	50	67	-3	208	467	.00	77	65	71	.24	NA	NA	.23
4/29	75	48	62	-8	210	479	.00	74	69	72	.30	NA	NA	.18
4/30	75	52	64	-6	214	493	.00	73	63	68	.29	NA	NA	.17

AIR TEMPERATURES (in degrees F):

Mean Maximum= 79.0      Mean Minimum= 53.3      Average= 66.1  
DFN= +.2                      DFN= -1.2                      DFN= -.5  
Highest= 91      Lowest= 38

PRECIPITATION STATISTICS (inches):

Total= 2.02      DFN= -2.56      Greatest Daily= 1.41      Rain Days= 7

SOIL TEMPERATURES (in degrees F):

Highest= 79      Lowest= 53      Average= 67

AVERAGE DAILY VALUES:

Pan Evaporation= .20 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .18 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
5/ 1	69	48	59	-11	0	9	.00	68	63	66	.10	NA	NA	.14
5/ 2	78	48	63	-8	3	22	.00	78	63	71	.28	NA	NA	.20
5/ 3	84	51	68	-3	11	40	.00	80	65	73	.15	NA	NA	.23
5/ 4	84	51	68	-3	19	58	.00	82	62	72	.29	NA	NA	.23
5/ 5	84	52	68	-3	27	76	.00	84	52	68	NA	NA	NA	.23
5/ 6	77	51	64	-8	31	90	.00	76	66	71	.41	NA	NA	.19
5/ 7	80	53	67	-5	38	107	.00	75	65	70	NA	NA	NA	.20
5/ 8	85	55	70	-2	48	127	.00	81	65	73	NA	NA	NA	.22
5/ 9	82	57	70	-2	58	147	.00	82	61	72	NA	NA	NA	.20
5/10	85	62	74	1	72	171	.00	76	70	73	.19	NA	NA	.20
5/11	88	58	73	0	85	194	.05	80	69	75	.16	NA	NA	.23
5/12	86	55	71	-2	96	215	.00	80	68	74	.24	NA	NA	.23
5/13	88	60	74	1	110	239	.00	80	69	75	.20	NA	NA	.23
5/14	80	56	68	-5	118	257	.00	74	69	72	.13	NA	NA	.19
5/15	87	60	74	0	132	281	.00	80	69	75	.12	NA	NA	.22
5/16	90	66	78	4	150	309	.00	82	71	77	.36	NA	NA	.22
5/17	90	63	77	3	167	336	.00	80	72	76	.23	NA	NA	.23
5/18	91	56	74	0	181	360	.00	83	71	77	.42	NA	NA	.26
5/19	87	56	72	-2	193	382	.00	85	71	78	.35	NA	NA	.24
5/20	88	60	74	0	207	406	.00	85	72	79	.34	NA	NA	.23
5/21	90	61	76	1	223	432	.00	86	72	79	NA	NA	NA	.24
5/22	94	61	78	3	241	460	.00	87	73	80	.23	NA	NA	.27
5/23	89	66	78	3	259	488	.00	82	75	79	.41	NA	NA	.22
5/24	92	66	79	4	278	517	.00	89	74	82	.35	NA	NA	.24
5/25	93	62	78	3	296	545	1.23	87	72	80	.39	NA	NA	.26
5/26	80	55	68	-8	304	563	.00	80	68	74	.32	NA	NA	.20
5/27	81	51	66	-10	310	579	.00	81	68	75	.27	NA	NA	.22
5/28	83	53	68	-8	318	597	.00	83	69	76	.32	NA	NA	.22
5/29	88	58	73	-3	331	620	.00	85	69	77	.29	NA	NA	.24
5/30	91	48	70	-6	341	640	.00	86	71	79	.35	NA	NA	.29
5/31	93	61	77	0	358	667	.00	85	75	80	.26	NA	NA	.26

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 85.7      Mean Minimum= 56.8      Average= 71.2  
DFN= +.9      DFN= -5.0      DFN= -2.1  
Highest= 94      Lowest= 48

PRECIPITATION STATISTICS (inches):  
Total= 1.28      DFN= -3.07      Greatest Daily= 1.23      Rain Days= 2

SOIL TEMPERATURES (in degrees F):  
Highest= 89      Lowest= 52      Average= 75

AVERAGE DAILY VALUES:  
Pan Evaporation= .28 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .23 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
6/ 1	91	60	76	-1	16	26	.00	88	72	80	.35	NA	NA	.25
6/ 2	92	64	78	1	34	54	.00	90	74	82	.30	NA	NA	.25
6/ 3	94	67	81	4	55	85	.00	88	76	82	.32	NA	NA	.25
6/ 4	94	65	80	3	75	115	.00	91	76	84	.33	NA	NA	.26
6/ 5	79	64	72	-6	87	137	.00	82	75	79	.23	NA	NA	.16
6/ 6	75	67	71	-7	98	158	.00	75	74	75	.18	NA	NA	.13
6/ 7	88	66	77	-1	115	185	.36	80	75	78	.15	NA	NA	.22
6/ 8	84	65	75	-3	130	210	.46	78	74	76	.09	NA	NA	.19
6/ 9	92	70	81	3	151	241	.03	85	72	79	.26	NA	NA	.23
6/10	92	63	78	0	169	269	1.44	85	72	79	.26	NA	NA	.25
6/11	82	56	69	-10	178	288	.00	82	70	76	.36	NA	NA	.21
6/12	84	57	71	-8	189	309	.00	83	70	77	.20	NA	NA	.22
6/13	84	57	71	-8	200	330	.00	84	70	77	.21	NA	NA	.22
6/14	87	60	74	-5	214	354	.00	87	71	79	.38	NA	NA	.23
6/15	88	62	75	-4	229	379	.00	88	72	80	.32	NA	NA	.23
6/16	90	62	76	-3	245	405	.00	89	74	82	.28	NA	NA	.24
6/17	93	66	80	1	265	435	.00	88	75	82	.29	NA	NA	.25
6/18	95	68	82	3	287	467	.00	90	78	84	.32	NA	NA	.25
6/19	94	64	79	0	306	496	.00	89	76	83	.15	NA	NA	.26
6/20	95	66	81	1	327	527	.03	91	75	83	.43	NA	NA	.26
6/21	94	66	80	0	347	557	.00	91	77	84	.28	NA	NA	.25
6/22	96	68	82	2	369	589	.00	90	74	82	.27	NA	NA	.26
6/23	94	70	82	2	391	621	.00	86	78	82	.11	NA	NA	.24
6/24	95	70	83	3	414	654	.00	88	79	84	.22	NA	NA	.25
6/25	98	61	80	0	434	684	.00	90	77	84	.28	NA	NA	.29
6/26	94	71	83	3	457	717	.04	90	80	85	.26	NA	NA	.24
6/27	99	69	84	4	481	751	.21	88	76	82	.16	NA	NA	.28
6/28	98	74	86	6	507	787	.03	88	75	82	.28	NA	NA	.25
6/29	89	73	81	1	528	818	.00	84	78	81	.15	NA	NA	.20
6/30	98	73	86	6	554	854	.00	89	78	84	.22	NA	NA	.26

AIR TEMPERATURES (in degrees F):

Mean Maximum= 90.9      Mean Minimum= 65.5      Average= 78.2  
DFN= +1.0                      DFN= -2.1                      DFN= -.6  
Highest= 99    Lowest= 56

PRECIPITATION STATISTICS (inches):

Total= 2.60    DFN= -2.02    Greatest Daily= 1.44    Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 91    Lowest= 70    Average= 81

AVERAGE DAILY VALUES:

Pan Evaporation= .25 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .24 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
7/ 1	93	70	82	1	22	32	1.63	84	78	81	NA	NA	NA	.23
7/ 2	87	73	80	-1	42	62	.18	84	80	82	NA	NA	NA	.19
7/ 3	91	69	80	-1	62	92	.82	87	76	82	.19	NA	NA	.22
7/ 4	85	67	76	-5	78	118	1.37	82	78	80	.09	NA	NA	.19
7/ 5	87	70	79	-2	97	147	1.78	85	75	80	NA	NA	NA	.20
7/ 6	84	68	76	-5	113	173	.02	84	75	80	NA	NA	NA	.18
7/ 7	87	64	76	-5	129	199	.00	87	75	81	.25	NA	NA	.21
7/ 8	88	61	75	-6	144	224	.00	89	75	82	.31	NA	NA	.23
7/ 9	91	64	78	-3	162	252	.00	90	74	82	.28	NA	NA	.24
7/10	95	66	81	0	183	283	.00	92	75	84	.19	NA	NA	.26
7/11	92	68	80	-1	203	313	1.06	87	78	83	.20	NA	NA	.23
7/12	88	69	79	-2	222	342	.44	84	77	81	.08	NA	NA	.20
7/13	92	70	81	0	243	373	.00	88	76	82	.19	NA	NA	.23
7/14	93	73	83	3	266	406	.00	89	77	83	.14	NA	NA	.22
7/15	95	74	85	5	291	441	.00	89	80	85	.22	NA	NA	.23
7/16	93	69	81	1	312	472	.25	96	78	87	.20	NA	NA	.24
7/17	92	69	81	0	333	503	.21	89	77	83	.23	NA	NA	.23
7/18	91	70	81	0	354	534	.14	88	78	83	.23	NA	NA	.22
7/19	94	70	82	1	376	566	.00	90	80	85	.26	NA	NA	.24
7/20	91	70	81	0	397	597	.67	88	80	84	.20	NA	NA	.22
7/21	93	71	82	1	419	629	.00	90	78	84	.28	NA	NA	.23
7/22	93	69	81	0	440	660	.15	90	80	85	.30	NA	NA	.23
7/23	86	69	78	-3	458	688	.08	85	78	82	.19	NA	NA	.19
7/24	90	67	79	-2	477	717	.00	85	77	81	.10	NA	NA	.22
7/25	89	67	78	-3	495	745	.00	95	76	86	.19	NA	NA	.21
7/26	91	67	79	-2	514	774	.00	88	77	83	.34	NA	NA	.23
7/27	93	67	80	-1	534	804	.00	90	78	84	.28	NA	NA	.24
7/28	92	67	80	-1	554	834	.66	87	78	83	.18	NA	NA	.23
7/29	93	68	81	0	575	865	.00	88	78	83	.21	NA	NA	.23
7/30	92	70	81	0	596	896	.00	90	76	83	.25	NA	NA	.22
7/31	94	68	81	0	617	927	.00	90	80	85	.16	NA	NA	.24

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 90.8      Mean Minimum= 68.5      Average= 79.7  
DFN= -.1      DFN= -1.5      DFN= -.8  
Highest= 95    Lowest= 61

PRECIPITATION STATISTICS (inches):  
Total= 9.46    DFN= +3.51    Greatest Daily= 1.78    Rain Days= 15

SOIL TEMPERATURES (in degrees F):  
Highest= 96    Lowest= 74    Average= 83

AVERAGE DAILY VALUES:  
Pan Evaporation= .21 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .22 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
8/ 1	96	72	84	3	24	34	.00	89	79	84	.30	NA	NA	.24
8/ 2	95	68	82	1	46	66	.02	90	80	85	.20	NA	NA	.25
8/ 3	95	69	82	1	68	98	.00	90	79	85	.24	NA	NA	.24
8/ 4	93	68	81	0	89	129	.00	90	80	85	.25	NA	NA	.23
8/ 5	94	68	81	0	110	160	.00	90	80	85	.29	NA	NA	.24
8/ 6	94	69	82	1	132	192	.00	88	80	84	.15	NA	NA	.24
8/ 7	94	70	82	1	154	224	.50	88	80	84	.29	NA	NA	.23
8/ 8	92	68	80	-1	174	254	.02	85	78	82	.10	NA	NA	.22
8/ 9	88	70	79	-2	193	283	.00	83	78	81	.13	NA	NA	.19
8/10	95	68	82	1	215	315	.06	85	78	82	.17	NA	NA	.24
8/11	96	69	83	2	238	348	.00	88	77	83	.25	NA	NA	.25
8/12	95	71	83	2	261	381	.00	89	80	85	.23	NA	NA	.23
8/13	94	69	82	1	283	413	.00	89	80	85	.27	NA	NA	.23
8/14	94	70	82	1	305	445	.00	90	81	86	.27	NA	NA	.23
8/15	92	70	81	0	326	476	.00	86	80	83	.20	NA	NA	.22
8/16	85	67	76	-5	342	502	.15	83	78	81	.19	NA	NA	.18
8/17	91	71	81	1	363	533	.00	85	77	81	.21	NA	NA	.20
8/18	95	70	83	3	386	566	.00	87	77	82	.21	NA	NA	.23
8/19	94	71	83	3	409	599	.00	86	80	83	.17	NA	NA	.22
8/20	98	73	86	6	435	635	.00	90	79	85	.28	NA	NA	.24
8/21	95	75	85	5	460	670	.00	89	88	89	.21	NA	NA	.22
8/22	92	70	81	1	481	701	.00	88	87	88	.15	NA	NA	.21
8/23	97	71	84	4	505	735	.00	88	79	84	.25	NA	NA	.24
8/24	96	74	85	5	530	770	.00	88	80	84	.24	NA	NA	.22
8/25	91	72	82	2	552	802	.27	85	79	82	.14	NA	NA	.20
8/26	93	69	81	1	573	833	.00	85	78	82	.22	NA	NA	.22
8/27	97	67	82	2	595	865	.00	85	76	81	.30	NA	NA	.25
8/28	90	68	79	-1	614	894	.00	82	77	80	.17	NA	NA	.20
8/29	93	69	81	1	635	925	.00	85	75	80	.20	NA	NA	.22
8/30	96	71	84	4	659	959	.11	85	77	81	.17	NA	NA	.23
8/31	96	69	83	3	682	992	.00	84	76	80	.19	NA	NA	.24

AIR TEMPERATURES (in degrees F):

Mean Maximum= 93.7      Mean Minimum= 69.9      Average= 81.8  
DFN= +3.2      DFN= +.3      DFN= +1.7  
Highest= 98    Lowest= 67

PRECIPITATION STATISTICS (inches):

Total= 1.13    DFN= -3.83    Greatest Daily= .50    Rain Days= 7

SOIL TEMPERATURES (in degrees F):

Highest= 90    Lowest= 75    Average= 83

AVERAGE DAILY VALUES:

Fan Evaporation= .21 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .23 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
9/ 1	90	71	81	1	21	31	.00	83	77	80	.17	NA	NA	.19
9/ 2	81	71	76	-3	37	57	.03	79	77	78	.11	NA	NA	.13
9/ 3	87	70	79	0	56	86	.70	80	76	78	.12	NA	NA	.17
9/ 4	88	70	79	0	75	115	.97	80	75	78	NA	NA	NA	.18
9/ 5	80	66	73	-6	88	138	1.97	75	71	73	NA	NA	NA	.14
9/ 6	85	68	77	-2	105	165	.00	78	70	74	NA	NA	NA	.17
9/ 7	82	57	70	-9	115	185	.00	78	70	74	.25	NA	NA	.18
9/ 8	80	65	73	-6	128	208	.00	76	69	73	.14	NA	NA	.14
9/ 9	68	64	66	-13	134	224	.33	71	69	70	NA	NA	NA	.07
9/10	70	63	67	-11	141	241	2.00	NA	NA	70	NA	NA	NA	.08
9/11	82	68	75	-3	156	266	.05	NA	NA	70	NA	NA	NA	.14
9/12	89	71	80	2	176	296	.00	82	75	79	.12	NA	NA	.18
9/13	92	69	81	3	197	327	.00	83	74	79	.16	NA	NA	.20
9/14	89	68	79	1	216	356	.00	82	74	78	.16	NA	NA	.18
9/15	92	69	81	4	237	387	.00	80	75	78	.18	NA	NA	.20
9/16	89	70	80	3	257	417	.10	77	74	76	.11	NA	NA	.18
9/17	81	71	76	-1	273	443	.07	78	76	77	.13	NA	NA	.12
9/18	78	72	75	-2	288	468	.54	78	75	77	.04	NA	NA	.10
9/19	88	66	77	0	305	495	.00	80	75	78	.14	NA	NA	.18
9/20	89	67	78	2	323	523	.00	80	74	77	.10	NA	NA	.18
9/21	91	72	82	6	345	555	.00	81	76	79	.14	NA	NA	.18
9/22	93	71	82	7	367	587	.08	82	75	79	.21	NA	NA	.20
9/23	89	71	80	5	387	617	.00	81	75	78	.17	NA	NA	.17
9/24	94	74	84	9	411	651	.86	83	75	79	.20	NA	NA	.19
9/25	92	71	82	8	433	683	.02	82	75	79	.10	NA	NA	.19
9/26	89	72	81	7	454	714	.00	82	76	79	.12	NA	NA	.16
9/27	88	70	79	5	473	743	.00	80	75	78	.14	NA	NA	.16
9/28	81	64	73	0	486	766	.00	78	74	76	.08	NA	NA	.14
9/29	84	64	74	1	500	790	.00	78	73	76	.12	NA	NA	.15
9/30	89	64	77	4	517	817	.00	80	73	77	.20	NA	NA	.19

AIR TEMPERATURES (in degrees F):

Mean Maximum= 85.7      Mean Minimum= 68.3      Average= 77.0  
DFN= -1.4                      DFN= +2.3                      DFN= +.4  
Highest= 94      Lowest= 57

PRECIPITATION STATISTICS (inches):

Total= 7.72      DFN= +3.64      Greatest Daily= 2.00      Rain Days= 13

SOIL TEMPERATURES (in degrees F):

Highest= 83      Lowest= 69      Average= 77

AVERAGE DAILY VALUES:

Pan Evaporation= .14 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	86	66	76	4	16	26	.19	80	70	75	.06	NA	NA	.16
10/ 2	86	68	77	5	33	53	.00	79	69	74	.20	NA	NA	.15
10/ 3	84	64	74	3	47	77	1.59	76	70	73	NA	NA	NA	.15
10/ 4	82	54	68	-3	55	95	.31	76	68	72	NA	NA	NA	.17
10/ 5	74	51	63	-8	58	108	.00	70	63	67	.15	NA	NA	.13
10/ 6	75	47	61	-9	59	119	.00	68	62	65	.19	NA	NA	.15
10/ 7	76	46	61	-9	60	130	.00	69	62	66	.08	NA	NA	.16
10/ 8	74	43	59	-10	60	139	.00	66	53	60	.16	NA	NA	.15
10/ 9	70	41	56	-13	60	145	.00	65	54	60	.12	NA	NA	.13
10/10	74	51	63	-6	63	158	.08	65	60	63	.10	NA	NA	.12
10/11	73	49	61	-7	64	169	.03	65	60	63	.12	NA	NA	.12
10/12	75	48	62	-6	66	181	.00	65	60	63	.10	NA	NA	.14
10/13	74	40	57	-11	66	188	.00	64	58	61	.13	NA	NA	.16
10/14	68	35	52	-15	66	190	.00	62	56	59	.12	NA	NA	.13
10/15	76	36	56	-11	66	196	.00	62	56	59	.15	NA	NA	.18
10/16	76	40	58	-9	66	204	.00	62	55	59	.13	NA	NA	.17
10/17	80	49	65	-1	71	219	.00	62	59	61	.06	NA	NA	.16
10/18	81	54	68	2	79	237	.00	64	59	62	.08	NA	NA	.15
10/19	81	54	68	2	87	255	.00	64	60	62	.09	NA	NA	.15
10/20	78	48	63	-2	90	268	.00	64	61	63	.12	NA	NA	.15
10/21	75	48	62	-3	92	280	.23	66	62	64	.08	NA	NA	.13
10/22	74	49	62	-2	94	292	.36	65	60	63	.08	NA	NA	.12
10/23	72	44	58	-6	94	300	.00	61	58	60	.02	NA	NA	.12
10/24	76	45	61	-3	95	311	.00	60	58	59	.15	NA	NA	.14
10/25	72	43	58	-5	95	319	.03	62	57	60	.16	NA	NA	.13
10/26	74	42	58	-5	95	327	.00	60	52	56	.07	NA	NA	.14
10/27	78	46	62	-1	97	339	.00	60	55	58	.07	NA	NA	.15
10/28	78	46	62	0	99	351	.00	60	55	58	.07	NA	NA	.15
10/29	82	51	67	5	106	368	.00	64	59	62	NA	NA	NA	.16
10/30	80	57	69	7	115	387	.00	66	62	64	.10	NA	NA	.13
10/31	74	58	66	4	121	403	.00	60	59	60	.02	NA	NA	.09

AIR TEMPERATURES (in degrees F):

Mean Maximum= 76.7      Mean Minimum= 48.8      Average= 62.8  
DFN= -1.9      DFN= -5.2      DFN= -3.5  
Highest= 86    Lowest= 35

PRECIPITATION STATISTICS (inches):

Total= 2.82    DFN= +.49    Greatest Daily= 1.59    Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 80    Lowest= 52    Average= 63

AVERAGE DAILY VALUES:

Pan Evaporation= .11 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .14 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	62	46	54	-7	0	4	.24	64	59	62	.05	NA	NA	.05
11/ 2	62	45	54	-7	0	8	.00	60	55	58	.03	NA	NA	.05
11/ 3	76	45	61	0	1	19	.00	60	55	58	.07	NA	NA	.14
11/ 4	78	51	65	5	6	34	.00	60	50	55	.08	NA	NA	.13
11/ 5	79	46	63	3	9	47	.79	62	59	61	.09	NA	NA	.15
11/ 6	74	44	59	-1	9	56	.00	62	56	59	.11	NA	NA	.13
11/ 7	68	36	52	-7	9	58	.00	52	49	51	.03	NA	NA	.11
11/ 8	70	46	58	-1	9	66	.00	55	52	54	.06	NA	NA	.09
11/ 9	81	54	68	9	17	84	.00	62	53	58	.02	NA	NA	.14
11/10	80	49	65	7	22	99	.00	65	60	63	.07	NA	NA	.15
11/11	79	50	65	7	27	114	.00	62	60	61	.04	NA	NA	.13
11/12	73	47	60	2	27	124	.00	61	55	58	.14	NA	NA	.11
11/13	74	52	63	6	30	137	.12	60	57	59	.09	NA	NA	.10
11/14	74	54	64	7	34	151	.00	62	60	61	.05	NA	NA	.09
11/15	75	57	66	9	40	167	.00	64	60	62	NA	NA	NA	.08
11/16	76	57	67	11	47	184	.00	68	60	64	.06	NA	NA	.09
11/17	81	52	67	11	54	201	.01	66	62	64	.07	NA	NA	.14
11/18	70	44	57	1	54	208	.00	61	59	60	.13	NA	NA	.09
11/19	71	57	64	8	58	222	.00	69	56	63	.05	NA	NA	.06
11/20	75	61	68	13	66	240	.00	76	61	69	.02	NA	NA	.07
11/21	76	40	58	3	66	248	.52	61	57	59	.03	NA	NA	.14
11/22	58	44	51	-4	66	249	.00	59	58	59	.06	NA	NA	.01
11/23	56	46	51	-4	66	250	.05	58	56	57	.03	NA	NA	.00
11/24	67	42	55	1	66	255	.01	58	55	57	.05	NA	NA	.08
11/25	69	43	56	2	66	261	.00	58	55	57	.01	NA	NA	.09
11/26	72	46	59	5	66	270	.00	59	56	58	.05	NA	NA	.09
11/27	78	58	68	14	74	288	.03	63	58	61	.07	NA	NA	.09
11/28	81	41	61	8	75	299	.32	64	57	61	.07	NA	NA	.17
11/29	57	30	44	-9	75	299	.00	58	51	55	NA	NA	NA	.05
11/30	60	33	47	-6	75	299	.00	52	50	51	NA	NA	NA	.06

AIR TEMPERATURES (in degrees F):

Mean Maximum= 71.7      Mean Minimum= 47.2      Average= 59.5  
DFN= +2.9                      DFN= +2.8                      DFN= +2.9  
Highest= 81    Lowest= 30

PRECIPITATION STATISTICS (inches):

Total= 2.09    DFN= -1.14    Greatest Daily= .79    Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 76    Lowest= 49    Average= 59

AVERAGE DAILY VALUES:

Pan Evaporation= .06 (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .10 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Wiregrass Substation, Headland  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
12/ 1	68	33	51	-2	0	1	.00	52	50	51	.04	NA	NA	.11
12/ 2	60	28	44	-9	0	1	.00	52	48	50	NA	NA	NA	.07
12/ 3	54	28	41	-11	0	1	.00	49	47	48	NA	NA	NA	.04
12/ 4	63	29	46	-6	0	1	.00	48	46	47	.03	NA	NA	.09
12/ 5	68	35	52	0	0	3	.00	48	47	48	.05	NA	NA	.10
12/ 6	67	34	51	-1	0	4	.00	50	48	49	.03	NA	NA	.10
12/ 7	68	34	51	-1	0	5	.00	51	49	50	.05	NA	NA	.10
12/ 8	72	43	58	6	0	13	.00	52	48	50	.03	NA	NA	.10
12/ 9	72	46	59	8	0	22	.00	56	52	54	.03	NA	NA	.09
12/10	60	34	47	-4	0	22	.00	57	51	54	.10	NA	NA	.05
12/11	57	37	47	-4	0	22	.41	51	48	50	.03	NA	NA	.02
12/12	44	37	41	-10	0	22	.23	50	49	50	.01	NA	NA	.00
12/13	41	24	33	-18	0	22	.00	49	44	47	NA	NA	NA	.00
12/14	57	25	41	-10	0	22	.00	45	42	44	NA	NA	NA	.06
12/15	66	30	48	-3	0	22	.00	50	45	48	NA	NA	NA	.10
12/16	72	39	56	6	0	28	.15	52	49	51	.08	NA	NA	.11
12/17	52	26	39	-11	0	28	.00	51	44	48	NA	NA	NA	.03
12/18	50	24	37	-13	0	28	.00	43	42	43	NA	NA	NA	.02
12/19	50	26	38	-12	0	28	.00	43	42	43	NA	NA	NA	.01
12/20	62	27	45	-5	0	28	.00	45	42	44	NA	NA	NA	.09
12/21	70	38	54	4	0	32	.00	50	45	48	.06	NA	NA	.10
12/22	76	40	58	9	0	40	.02	54	48	51	.04	NA	NA	.13
12/23	77	49	63	14	3	53	.00	57	52	55	.05	NA	NA	.11
12/24	75	52	64	15	7	67	.20	59	55	57	.25	NA	NA	.09
12/25	77	48	63	14	10	80	.10	60	57	59	.15	NA	NA	.11
12/26	68	35	52	3	10	82	.00	56	51	54	.12	NA	NA	.10
12/27	68	38	53	4	10	85	.00	53	50	52	.06	NA	NA	.09
12/28	75	45	60	11	10	95	.00	56	55	56	.05	NA	NA	.11
12/29	68	32	50	1	10	95	.24	56	49	53	.12	NA	NA	.11
12/30	58	34	46	-2	10	95	.00	52	42	47	.03	NA	NA	.04
12/31	68	52	60	12	10	105	.02	57	57	57	.06	NA	NA	.05

AIR TEMPERATURES (in degrees F):

Mean Maximum= 64.0      Mean Minimum= 35.5      Average= 49.8  
DFN= +2.4                      DFN= -3.1                      DFN= -.4  
Highest= 77      Lowest= 24

PRECIPITATION STATISTICS (inches):

Total= 1.37      DFN= -3.51      Greatest Daily= .41      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 60      Lowest= 42      Average= 50

AVERAGE DAILY VALUES:

Pan Evaporation= .07 (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .08 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
1/ 1	56	46	51	5	0	1	.54	52	45	49	NA	NA	NA	.00
1/ 2	58	36	47	1	0	1	.17	54	45	50	NA	NA	NA	.03
1/ 3	49	35	42	-4	0	1	.04	49	45	47	NA	NA	NA	.00
1/ 4	46	37	42	-3	0	1	.11	49	45	47	NA	NA	NA	.00
1/ 5	47	27	37	-8	0	1	.00	50	39	45	NA	NA	NA	.00
1/ 6	43	26	35	-10	0	1	.00	46	37	42	NA	NA	NA	.00
1/ 7	39	26	33	-12	0	1	.10	43	37	40	NA	NA	NA	.00
1/ 8	34	31	33	-12	0	1	.72	38	38	38	NA	NA	NA	.00
1/ 9	33	28	31	-14	0	1	.00	39	36	38	NA	NA	NA	.00
1/10	33	25	29	-16	0	1	.00	40	36	38	NA	NA	NA	.00
1/11	42	21	32	-13	0	1	.00	45	35	40	NA	NA	NA	.00
1/12	50	21	36	-9	0	1	.00	44	35	40	NA	NA	NA	.03
1/13	54	21	38	-7	0	1	.25	44	35	40	NA	NA	NA	.06
1/14	46	22	34	-11	0	1	.00	48	36	42	NA	NA	NA	.00
1/15	45	22	34	-11	0	1	.00	42	35	39	NA	NA	NA	.00
1/16	50	24	37	-8	0	1	.00	46	35	41	NA	NA	NA	.02
1/17	55	30	43	-2	0	1	.56	45	35	40	NA	NA	NA	.04
1/18	60	49	55	10	0	6	.15	52	44	48	NA	NA	NA	.01
1/19	68	57	63	18	3	19	.22	59	52	56	NA	NA	NA	.03
1/20	73	47	60	15	3	29	1.45	63	54	59	NA	NA	NA	.10
1/21	63	36	50	5	3	29	.00	60	45	53	NA	NA	NA	.07
1/22	49	35	42	-3	3	29	.00	49	41	45	NA	NA	NA	.00
1/23	47	27	37	-9	3	29	.00	49	37	43	NA	NA	NA	.00
1/24	54	27	41	-5	3	29	.00	46	39	43	NA	NA	NA	.04
1/25	49	33	41	-5	3	29	.41	44	39	42	NA	NA	NA	.00
1/26	49	22	36	-10	3	29	.00	47	36	42	NA	NA	NA	.03
1/27	49	19	34	-12	3	29	.00	41	35	38	NA	NA	NA	.04
1/28	43	20	32	-14	3	29	.00	41	34	38	NA	NA	NA	.00
1/29	57	22	40	-6	3	29	.00	45	34	40	NA	NA	NA	.08
1/30	64	28	46	0	3	29	.00	48	36	42	NA	NA	NA	.11
1/31	70	38	54	8	3	33	.00	50	40	45	NA	NA	NA	.11

AIR TEMPERATURES (in degrees F):

Mean Maximum= 50.8      Mean Minimum= 30.3      Average= 40.5  
DFN= -5.2                      DFN= -4.1                      DFN= -4.7  
Highest= 73      Lowest= 19

PRECIPITATION STATISTICS (inches):

Total= 4.72      DFN= -.29      Greatest Daily= 1.45      Rain Days= 12

SOIL TEMPERATURES (in degrees F):

Highest= 63      Lowest= 34      Average= 43

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .03 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	71	51	61	15	1	11	.02	55	46	51	NA	NA	NA	.08
2/ 2	75	57	66	19	7	27	.01	60	52	56	NA	NA	NA	.09
2/ 3	82	63	73	26	20	50	.85	61	58	60	NA	NA	NA	.11
2/ 4	67	57	62	15	22	62	1.95	63	59	61	NA	NA	NA	.04
2/ 5	57	36	47	0	22	62	Trace	61	45	53	NA	NA	NA	.04
2/ 6	39	22	31	-16	22	62	.00	47	38	43	NA	NA	NA	.00
2/ 7	32	16	24	-23	22	62	.00	42	35	39	NA	NA	NA	.00
2/ 8	36	22	29	-19	22	62	.00	38	35	37	NA	NA	NA	.00
2/ 9	52	27	40	-8	22	62	.00	47	37	42	NA	NA	NA	.04
2/10	57	27	42	-6	22	62	.00	49	37	43	NA	NA	NA	.07
2/11	62	29	46	-2	22	62	.00	51	39	45	NA	NA	NA	.10
2/12	53	19	36	-12	22	62	.10	48	37	43	NA	NA	NA	.08
2/13	35	19	27	-21	22	62	.00	42	36	39	NA	NA	NA	.00
2/14	53	20	37	-11	22	62	.00	45	36	41	NA	NA	NA	.07
2/15	68	33	51	3	22	63	.66	50	38	44	NA	NA	NA	.13
2/16	51	24	38	-11	22	63	Trace	49	37	43	NA	NA	NA	.05
2/17	54	24	39	-10	22	63	.00	50	37	44	NA	NA	NA	.07
2/18	59	31	45	-4	22	63	.00	49	39	44	NA	NA	NA	.08
2/19	50	40	45	-4	22	63	.60	46	42	44	NA	NA	NA	.00
2/20	58	46	52	2	22	65	.02	53	46	50	NA	NA	NA	.03
2/21	55	36	46	-4	22	65	.00	51	41	46	NA	NA	NA	.04
2/22	55	35	45	-5	22	65	.00	52	41	47	NA	NA	NA	.05
2/23	69	36	53	3	22	68	.00	53	41	47	NA	NA	NA	.13
2/24	71	37	54	3	22	72	.00	57	46	52	NA	NA	NA	.14
2/25	54	28	41	-10	22	72	.00	54	40	47	NA	NA	NA	.06
2/26	57	29	43	-8	22	72	.00	51	40	46	NA	NA	NA	.08
2/27	67	30	49	-2	22	72	.00	54	40	47	NA	NA	NA	.14
2/28	71	42	57	6	22	79	.00	57	45	51	NA	NA	NA	.13
2/29	60	38	49	-3	22	79	.00	60	46	53	NA	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 57.6      Mean Minimum= 33.6      Average= 45.6  
DFN= -2.9                      DFN= -3.1                      DFN= -3.0  
Highest= 82      Lowest= 16

PRECIPITATION STATISTICS (inches):

Total= 4.21      DFN= -.59      Greatest Daily= 1.95      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 63      Lowest= 35      Average= 47

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .07 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
3/ 1	73	35	54	2	0	4	.00	60	46	53	NA	NA	NA	.17
3/ 2	68	34	51	-1	0	5	.00	60	46	53	NA	NA	NA	.14
3/ 3	74	40	57	5	0	12	.10	59	46	53	NA	NA	NA	.16
3/ 4	69	57	63	10	3	25	.10	60	55	58	NA	NA	NA	.07
3/ 5	57	41	49	-4	3	25	.00	58	49	54	NA	NA	NA	.05
3/ 6	55	34	45	-8	3	25	.00	56	46	51	NA	NA	NA	.06
3/ 7	67	40	54	1	3	29	.00	61	46	54	NA	NA	NA	.12
3/ 8	75	41	58	4	3	37	.00	63	48	56	NA	NA	NA	.17
3/ 9	64	50	57	3	3	44	.06	57	53	55	NA	NA	NA	.07
3/10	68	41	55	1	3	49	.32	62	50	56	NA	NA	NA	.12
3/11	54	31	43	-11	3	49	.00	54	43	49	NA	NA	NA	.07
3/12	70	34	52	-3	3	51	.00	60	43	52	NA	NA	NA	.16
3/13	69	46	58	3	3	59	.29	60	52	56	NA	NA	NA	.12
3/14	59	35	47	-8	3	59	.00	61	46	54	NA	NA	NA	.09
3/15	47	24	36	-19	3	59	.00	54	40	47	NA	NA	NA	.05
3/16	49	26	38	-18	3	59	.00	51	39	45	NA	NA	NA	.06
3/17	55	29	42	-14	3	59	.00	55	39	47	NA	NA	NA	.08
3/18	62	31	47	-9	3	59	.11	59	41	50	NA	NA	NA	.12
3/19	49	36	43	-14	3	59	.17	52	45	49	NA	NA	NA	.03
3/20	53	35	44	-13	3	59	.00	55	44	50	NA	NA	NA	.06
3/21	71	43	57	0	3	66	.00	59	44	52	NA	NA	NA	.14
3/22	78	45	62	4	5	78	.00	65	47	56	NA	NA	NA	.18
3/23	80	45	63	5	8	91	.00	69	51	60	NA	NA	NA	.20
3/24	80	50	65	7	13	106	.00	68	53	61	NA	NA	NA	.18
3/25	79	58	69	10	22	125	.00	69	57	63	NA	NA	NA	.15
3/26	66	59	63	4	25	138	1.05	61	60	61	NA	NA	NA	.07
3/27	78	43	61	2	26	149	.00	70	54	62	NA	NA	NA	.19
3/28	73	40	57	-2	26	156	.00	68	52	60	NA	NA	NA	.17
3/29	78	40	59	-1	26	165	.00	69	52	61	NA	NA	NA	.20
3/30	81	53	67	7	33	182	.32	69	55	62	NA	NA	NA	.18
3/31	73	59	66	6	39	198	.00	69	61	65	NA	NA	NA	.11

AIR TEMPERATURES (in degrees F):

Mean Maximum= 66.9      Mean Minimum= 41.1      Average= 54.0  
DFN= -1.0      DFN= -2.4      DFN= -1.7  
Highest= 81      Lowest= 24

PRECIPITATION STATISTICS (inches):

Total= 2.52      DFN= -4.30      Greatest Daily= 1.05      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 70      Lowest= 39      Average= 55

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .12 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	78	62	70	9	10	20	.04	70	61	66	NA	NA	NA	.14
4/ 2	79	62	71	10	21	41	.10	71	64	68	NA	NA	NA	.14
4/ 3	67	57	62	1	23	53	.54	64	61	63	NA	NA	NA	.08
4/ 4	70	54	62	0	25	65	.15	66	60	63	NA	NA	NA	.11
4/ 5	82	53	68	6	33	83	.00	76	60	68	NA	NA	NA	.19
4/ 6	87	53	70	8	43	103	.02	77	62	70	NA	NA	NA	.23
4/ 7	69	46	58	-5	43	111	.00	71	55	63	NA	NA	NA	.13
4/ 8	73	47	60	-3	43	121	.00	70	55	63	NA	NA	NA	.16
4/ 9	76	48	62	-1	45	133	.00	74	55	65	NA	NA	NA	.17
4/10	77	48	63	0	48	146	.00	75	58	67	NA	NA	NA	.18
4/11	80	51	66	2	54	162	.00	76	60	68	NA	NA	NA	.19
4/12	54	42	48	-16	54	162	.36	63	53	58	NA	NA	NA	.06
4/13	58	41	50	-14	54	162	.02	61	52	57	NA	NA	NA	.09
4/14	75	41	58	-6	54	170	.00	72	52	62	NA	NA	NA	.19
4/15	80	45	63	-2	57	183	.00	74	56	65	NA	NA	NA	.21
4/16	81	51	66	1	63	199	.00	74	60	67	NA	NA	NA	.20
4/17	68	46	57	-8	63	206	.00	72	60	66	NA	NA	NA	.13
4/18	81	46	64	-1	67	220	.88	77	60	69	NA	NA	NA	.22
4/19	81	57	69	3	76	239	.86	75	64	70	NA	NA	NA	.18
4/20	65	40	53	-13	76	242	.00	69	55	62	NA	NA	NA	.14
4/21	73	41	57	-9	76	249	.00	74	55	65	NA	NA	NA	.18
4/22	80	51	66	0	82	265	.00	77	60	69	NA	NA	NA	.20
4/23	74	63	69	2	91	284	.10	71	66	69	NA	NA	NA	.12
4/24	74	63	69	2	100	303	.50	71	69	70	NA	NA	NA	.12
4/25	79	58	69	2	109	322	.00	81	66	74	NA	NA	NA	.17
4/26	73	56	65	-2	114	337	.01	74	64	69	NA	NA	NA	.14
4/27	77	53	65	-3	119	352	.00	79	64	72	NA	NA	NA	.18
4/28	75	47	61	-7	120	363	.00	77	59	68	NA	NA	NA	.18
4/29	75	43	59	-9	120	372	.00	76	58	67	NA	NA	NA	.20
4/30	75	45	60	-8	120	382	.00	79	58	69	NA	NA	NA	.19

AIR TEMPERATURES (in degrees F):

Mean Maximum= 74.5      Mean Minimum= 50.3      Average= 62.4  
DFN= -2.4      DFN= -1.4      DFN= -1.9  
Highest= 87      Lowest= 40

PRECIPITATION STATISTICS (inches):

Total= 3.58      DFN= -1.84      Greatest Daily= .88      Rain Days= 12

SOIL TEMPERATURES (in degrees F):

Highest= 81      Lowest= 52      Average= 66

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
 Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
 1988

DATE	AIR TEMPERATURE				GDD			PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	MAX		MIN	MEAN					
5/ 1	72	44	58	-10	0	8	.00	72	58	65	NA	NA	NA	.17	
5/ 2	78	44	61	-8	1	19	.00	80	58	69	NA	NA	NA	.21	
5/ 3	81	44	63	-6	4	32	.00	83	61	72	NA	NA	NA	.23	
5/ 4	80	53	67	-2	11	49	.12	80	63	72	NA	NA	NA	.20	
5/ 5	77	51	64	-5	15	63	.00	76	62	69	NA	NA	NA	.19	
5/ 6	75	51	63	-6	18	76	.00	78	62	70	NA	NA	NA	.17	
5/ 7	79	50	65	-4	23	91	.00	81	62	72	NA	NA	NA	.20	
5/ 8	83	52	68	-2	31	109	.00	82	62	72	NA	NA	NA	.22	
5/ 9	84	52	68	-2	39	127	.00	83	62	73	NA	NA	NA	.23	
5/10	83	63	73	3	52	150	.04	81	68	75	NA	NA	NA	.19	
5/11	83	51	67	-3	59	167	.02	83	66	75	NA	NA	NA	.23	
5/12	83	54	69	-1	68	186	.00	85	66	76	NA	NA	NA	.22	
5/13	78	55	67	-4	75	203	.00	81	66	74	NA	NA	NA	.18	
5/14	78	54	66	-5	81	219	.00	79	66	73	NA	NA	NA	.19	
5/15	86	57	72	1	93	241	.00	85	65	75	NA	NA	NA	.23	
5/16	89	63	76	5	109	267	.00	88	70	79	NA	NA	NA	.23	
5/17	89	63	76	4	125	293	Trace	86	71	79	NA	NA	NA	.23	
5/18	85	56	71	-1	136	314	.00	87	68	78	NA	NA	NA	.22	
5/19	81	56	69	-3	145	333	.00	87	68	78	NA	NA	NA	.20	
5/20	84	55	70	-2	155	353	.00	89	70	80	NA	NA	NA	.22	
5/21	86	56	71	-1	166	374	.00	89	70	80	NA	NA	NA	.23	
5/22	88	61	75	2	181	399	.00	89	73	81	NA	NA	NA	.23	
5/23	77	62	70	-3	191	419	.12	79	70	75	NA	NA	NA	.16	
5/24	83	64	74	1	205	443	.01	82	70	76	NA	NA	NA	.19	
5/25	78	60	69	-4	214	462	.11	80	69	75	NA	NA	NA	.17	
5/26	78	52	65	-9	219	477	.00	82	65	74	NA	NA	NA	.19	
5/27	79	50	65	-9	224	492	.00	85	65	75	NA	NA	NA	.21	
5/28	82	50	66	-8	230	508	.00	87	66	77	NA	NA	NA	.23	
5/29	86	55	71	-3	241	529	.00	90	68	79	NA	NA	NA	.24	
5/30	88	57	73	-2	254	552	.00	90	70	80	NA	NA	NA	.24	
5/31	90	57	74	-1	268	576	.00	91	72	82	NA	NA	NA	.26	

AIR TEMPERATURES (in degrees F):

Mean Maximum= 82.0      Mean Minimum= 54.6      Average= 68.3  
 DFN= -1.4              DFN= -4.6              DFN= -3.0  
 Highest= 90    Lowest= 44

PRECIPITATION STATISTICS (inches):

Total= .42    DFN= -3.51    Greatest Daily= .12    Rain Days= 6

SOIL TEMPERATURES (in degrees F):

Highest= 91    Lowest= 58    Average= 75

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
 Solar Energy= NA (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
6/ 1	90	58	74	-1	14	24	.00	91	73	82	NA	NA	NA	.25
6/ 2	91	59	75	-1	29	49	.00	92	72	82	NA	NA	NA	.26
6/ 3	92	63	78	2	47	77	.00	89	74	82	NA	NA	NA	.25
6/ 4	91	66	79	3	66	106	.00	90	75	83	NA	NA	NA	.23
6/ 5	81	62	72	-4	78	128	.00	88	73	81	NA	NA	NA	.18
6/ 6	77	64	71	-5	89	149	.00	82	72	77	NA	NA	NA	.15
6/ 7	85	65	75	-2	104	174	.05	86	72	79	NA	NA	NA	.20
6/ 8	86	65	76	-1	120	200	.85	85	74	80	NA	NA	NA	.21
6/ 9	93	66	80	3	140	230	.00	90	74	82	NA	NA	NA	.25
6/10	93	57	75	-2	155	255	.00	85	71	78	NA	NA	NA	.28
6/11	79	53	66	-12	161	271	.00	87	69	78	NA	NA	NA	.20
6/12	83	56	70	-8	171	291	.00	89	69	79	NA	NA	NA	.22
6/13	85	56	71	-7	182	312	.00	91	71	81	NA	NA	NA	.23
6/14	87	57	72	-6	194	334	.00	91	72	82	NA	NA	NA	.24
6/15	85	58	72	-6	206	356	.00	92	73	83	NA	NA	NA	.22
6/16	91	58	75	-4	221	381	.00	94	75	85	NA	NA	NA	.26
6/17	94	66	80	1	241	411	.00	90	76	83	NA	NA	NA	.25
6/18	94	68	81	2	262	442	.00	88	77	83	NA	NA	NA	.25
6/19	93	65	79	0	281	471	.25	90	75	83	NA	NA	NA	.25
6/20	92	65	79	0	300	500	.12	94	75	85	NA	NA	NA	.24
6/21	93	66	80	1	320	530	.00	95	76	86	NA	NA	NA	.25
6/22	94	68	81	2	341	561	.00	91	77	84	NA	NA	NA	.25
6/23	95	68	82	2	363	593	.00	93	78	86	NA	NA	NA	.25
6/24	92	68	80	0	383	623	.00	91	79	85	NA	NA	NA	.24
6/25	99	71	85	5	408	658	.00	96	80	88	NA	NA	NA	.27
6/26	97	74	86	6	434	694	.00	96	81	89	NA	NA	NA	.25
6/27	98	72	85	5	459	729	1.02	92	79	86	NA	NA	NA	.26
6/28	96	68	82	2	481	761	.00	93	78	86	NA	NA	NA	.26
6/29	90	69	80	0	501	791	.00	92	79	86	NA	NA	NA	.22
6/30	99	71	85	5	526	826	.00	96	80	88	NA	NA	NA	.27

AIR TEMPERATURES (in degrees F):

Mean Maximum= 90.5      Mean Minimum= 64.1      Average= 77.3  
DFN= +.9                      DFN= -2.1                      DFN= -.6  
Highest= 99    Lowest= 53

PRECIPITATION STATISTICS (inches):

Total= 2.29    DFN= -1.82    Greatest Daily= 1.02    Rain Days= 5

SOIL TEMPERATURES (in degrees F):

Highest= 96    Lowest= 69    Average= 83

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .24 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE			GDD			PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
7/ 1	99	72	86	6	26	36	.40	84	80	82	NA	NA	NA	.27
7/ 2	82	72	77	-3	43	63	.94	85	79	82	NA	NA	NA	.16
7/ 3	90	71	81	1	64	94	2.20	87	78	83	NA	NA	NA	.21
7/ 4	88	70	79	-1	83	123	.42	90	79	85	NA	NA	NA	.20
7/ 5	82	72	77	-3	100	150	.24	85	79	82	NA	NA	NA	.16
7/ 6	73	70	72	-8	112	172	1.44	77	76	77	NA	NA	NA	.11
7/ 7	84	66	75	-6	127	197	.00	88	76	82	NA	NA	NA	.19
7/ 8	86	62	74	-7	141	221	.00	91	76	84	NA	NA	NA	.21
7/ 9	89	64	77	-4	158	248	.00	93	76	85	NA	NA	NA	.23
7/10	91	64	78	-3	176	276	.00	91	80	86	NA	NA	NA	.24
7/11	85	64	75	-6	191	301	1.15	90	80	85	NA	NA	NA	.20
7/12	86	64	75	-6	206	326	3.06	84	78	81	NA	NA	NA	.21
7/13	91	74	83	2	229	359	.00	92	78	85	NA	NA	NA	.21
7/14	89	75	82	1	251	391	.00	91	81	86	NA	NA	NA	.19
7/15	92	74	83	2	274	424	.00	93	82	88	NA	NA	NA	.21
7/16	93	74	84	3	298	458	.00	93	83	88	NA	NA	NA	.22
7/17	81	73	77	-4	315	485	.55	84	81	83	NA	NA	NA	.15
7/18	92	72	82	1	337	517	.00	94	81	88	NA	NA	NA	.22
7/19	88	72	80	-1	357	547	.33	91	81	86	NA	NA	NA	.19
7/20	90	72	81	0	378	578	.02	93	81	87	NA	NA	NA	.21
7/21	90	73	82	1	400	610	.00	93	82	88	NA	NA	NA	.20
7/22	86	71	79	-2	419	639	1.82	89	80	85	NA	NA	NA	.18
7/23	85	72	79	-2	438	668	.20	84	79	82	NA	NA	NA	.17
7/24	86	73	80	-1	458	698	.00	90	79	85	NA	NA	NA	.18
7/25	88	68	78	-3	476	726	.00	92	79	86	NA	NA	NA	.20
7/26	88	67	78	-3	494	754	.00	90	79	85	NA	NA	NA	.21
7/27	88	67	78	-3	512	782	.00	89	79	84	NA	NA	NA	.21
7/28	89	70	80	-1	532	812	.00	92	80	86	NA	NA	NA	.20
7/29	91	71	81	0	553	843	.00	92	82	87	NA	NA	NA	.21
7/30	92	71	82	1	575	875	.00	93	82	88	NA	NA	NA	.22
7/31	92	71	82	1	597	907	.00	93	83	88	NA	NA	NA	.22

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 87.9      Mean Minimum= 70.0      Average= 79.0  
DFN= -3.9      DFN= +.7      DFN= -1.6  
Highest= 99      Lowest= 62

PRECIPITATION STATISTICS (inches):  
Total= 12.77      DFN= +8.08      Greatest Daily= 3.06      Rain Days= 13

SOIL TEMPERATURES (in degrees F):  
Highest= 94      Lowest= 76      Average= 85

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .20 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
8/ 1	93	70	82	1	22	32	.00	94	83	89	NA	NA	NA	.23
8/ 2	93	70	82	1	44	64	.00	95	83	89	NA	NA	NA	.23
8/ 3	92	71	82	1	66	96	.12	94	83	89	NA	NA	NA	.22
8/ 4	92	70	81	0	87	127	.15	95	83	89	NA	NA	NA	.22
8/ 5	88	70	79	-2	106	156	.01	92	82	87	NA	NA	NA	.19
8/ 6	90	71	81	0	127	187	.00	92	82	87	NA	NA	NA	.20
8/ 7	87	72	80	-1	147	217	.04	90	83	87	NA	NA	NA	.18
8/ 8	86	71	79	-2	166	246	Trace	89	81	85	NA	NA	NA	.18
8/ 9	87	71	79	-2	185	275	.01	90	81	86	NA	NA	NA	.18
8/10	91	71	81	0	206	306	Trace	91	82	87	NA	NA	NA	.21
8/11	91	72	82	1	228	338	.00	92	82	87	NA	NA	NA	.20
8/12	92	73	83	2	251	371	.00	94	83	89	NA	NA	NA	.21
8/13	89	72	81	0	272	402	.00	90	82	86	NA	NA	NA	.19
8/14	91	72	82	1	294	434	.00	92	82	87	NA	NA	NA	.20
8/15	92	72	82	1	316	466	.00	90	83	87	NA	NA	NA	.21
8/16	88	70	79	-2	335	495	.01	87	80	84	NA	NA	NA	.19
8/17	90	71	81	0	356	526	.00	91	80	86	NA	NA	NA	.20
8/18	90	71	81	1	377	557	Trace	89	82	86	NA	NA	NA	.20
8/19	94	71	83	3	400	590	.00	92	82	87	NA	NA	NA	.22
8/20	93	73	83	3	423	623	.00	92	83	88	NA	NA	NA	.21
8/21	91	72	82	2	445	655	.60	89	82	86	NA	NA	NA	.20
8/22	87	70	79	-1	464	684	.08	87	81	84	NA	NA	NA	.18
8/23	89	71	80	0	484	714	.00	90	81	86	NA	NA	NA	.19
8/24	87	73	80	0	504	744	.00	88	82	85	NA	NA	NA	.17
8/25	85	68	77	-3	521	771	.08	85	79	82	NA	NA	NA	.17
8/26	92	68	80	0	541	801	.00	89	79	84	NA	NA	NA	.22
8/27	92	69	81	2	562	832	.00	88	79	84	NA	NA	NA	.21
8/28	92	69	81	2	583	863	.00	87	80	84	NA	NA	NA	.21
8/29	90	71	81	2	604	894	.00	89	80	85	NA	NA	NA	.19
8/30	90	69	80	1	624	924	Trace	88	81	85	NA	NA	NA	.20
8/31	90	69	80	1	644	954	.00	86	80	83	NA	NA	NA	.20

AIR TEMPERATURES (in degrees F):

Mean Maximum= 90.1      Mean Minimum= 70.7      Average= 80.4  
DFN= -1.3                      DFN= +1.9                      DFN= +.3  
Highest= 94    Lowest= 68

PRECIPITATION STATISTICS (inches):

Total= 1.10    DFN= -2.43    Greatest Daily= .60    Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 95    Lowest= 79    Average= 86

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .20 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
9/ 1	88	69	79	0	19	29	.00	87	80	84	NA	NA	NA	.18
9/ 2	84	72	78	-1	37	57	.00	83	79	81	NA	NA	NA	.15
9/ 3	82	71	77	-1	54	84	.12	83	80	82	NA	NA	NA	.14
9/ 4	87	71	79	1	73	113	1.92	82	77	80	NA	NA	NA	.17
9/ 5	73	58	66	-12	79	129	2.86	79	71	75	NA	NA	NA	.12
9/ 6	79	58	69	-9	88	148	.00	81	71	76	NA	NA	NA	.16
9/ 7	78	51	65	-13	93	163	.00	81	71	76	NA	NA	NA	.17
9/ 8	82	51	67	-11	100	180	.00	80	71	76	NA	NA	NA	.20
9/ 9	81	51	66	-11	106	196	.00	79	73	76	NA	NA	NA	.19
9/10	82	65	74	-3	120	220	.75	79	74	77	NA	NA	NA	.15
9/11	79	65	72	-5	132	242	.60	76	74	75	NA	NA	NA	.13
9/12	87	70	79	2	151	271	.60	83	75	79	NA	NA	NA	.17
9/13	89	68	79	2	170	300	.60	84	77	81	NA	NA	NA	.18
9/14	89	68	79	3	189	329	.00	87	78	83	NA	NA	NA	.18
9/15	89	70	80	4	209	359	.00	88	79	84	NA	NA	NA	.18
9/16	87	71	79	3	228	388	.42	82	79	81	NA	NA	NA	.16
9/17	87	70	79	3	247	417	.20	85	78	82	NA	NA	NA	.16
9/18	87	69	78	3	265	445	.31	85	77	81	NA	NA	NA	.16
9/19	87	69	78	3	283	473	.00	87	77	82	NA	NA	NA	.16
9/20	87	69	78	3	301	501	Trace	86	78	82	NA	NA	NA	.16
9/21	90	71	81	7	322	532	.00	88	79	84	NA	NA	NA	.18
9/22	89	68	79	5	341	561	.00	88	79	84	NA	NA	NA	.18
9/23	89	68	79	5	360	590	.00	88	79	84	NA	NA	NA	.18
9/24	90	68	79	6	379	619	.00	88	79	84	NA	NA	NA	.18
9/25	88	70	79	6	398	648	.00	85	78	82	NA	NA	NA	.16
9/26	86	64	75	3	413	673	.00	86	76	81	NA	NA	NA	.17
9/27	84	64	74	2	427	697	.00	86	76	81	NA	NA	NA	.15
9/28	71	64	68	-3	435	715	.22	77	74	76	NA	NA	NA	.07
9/29	80	67	74	3	449	739	.10	79	74	77	NA	NA	NA	.12
9/30	81	66	74	3	463	763	.16	79	73	76	NA	NA	NA	.13

AIR TEMPERATURES (in degrees F):

Mean Maximum= 84.4      Mean Minimum= 65.9      Average= 75.1  
DFN= -2.3                      DFN= +2.0                      DFN= -.2  
Highest= 90    Lowest= 51

PRECIPITATION STATISTICS (inches):

Total= 8.86    DFN= +5.31    Greatest Daily= 2.86    Rain Days= 13

SOIL TEMPERATURES (in degrees F):

Highest= 88    Lowest= 71    Average= 80

AVERAGE DAILY VALUES:

Fan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .16 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	82	66	74	4	14	24	.02	79	73	76	NA	NA	NA	.13
10/ 2	77	66	72	2	26	46	1.24	77	73	75	NA	NA	NA	.10
10/ 3	72	66	69	-1	35	65	.33	75	72	74	NA	NA	NA	.07
10/ 4	75	52	64	-5	39	79	.01	75	66	71	NA	NA	NA	.13
10/ 5	71	50	61	-7	40	90	.00	72	63	68	NA	NA	NA	.11
10/ 6	67	43	55	-13	40	95	.00	71	60	66	NA	NA	NA	.11
10/ 7	69	44	57	-10	40	102	.00	71	60	66	NA	NA	NA	.12
10/ 8	71	44	58	-9	40	110	.00	71	61	66	NA	NA	NA	.13
10/ 9	67	42	55	-12	40	115	.00	71	60	66	NA	NA	NA	.11
10/10	67	42	55	-11	40	120	.00	68	60	64	NA	NA	NA	.11
10/11	71	44	58	-8	40	128	.00	71	61	66	NA	NA	NA	.12
10/12	75	44	60	-6	40	138	.00	71	60	66	NA	NA	NA	.15
10/13	68	39	54	-11	40	142	.00	69	57	63	NA	NA	NA	.12
10/14	65	35	50	-15	40	142	.00	66	55	61	NA	NA	NA	.11
10/15	66	35	51	-13	40	143	.00	66	55	61	NA	NA	NA	.12
10/16	72	36	54	-10	40	147	.00	67	55	61	NA	NA	NA	.15
10/17	77	47	62	-2	42	159	.00	70	58	64	NA	NA	NA	.15
10/18	80	53	67	4	49	176	.00	72	61	67	NA	NA	NA	.15
10/19	82	55	69	6	58	195	.05	73	64	69	NA	NA	NA	.15
10/20	65	44	55	-8	58	200	Trace	68	59	64	NA	NA	NA	.08
10/21	67	44	56	-6	58	206	1.42	67	59	63	NA	NA	NA	.09
10/22	63	46	55	-7	58	211	.10	67	58	63	NA	NA	NA	.06
10/23	70	43	57	-5	58	218	.00	66	56	61	NA	NA	NA	.11
10/24	75	43	59	-2	58	227	.09	67	56	62	NA	NA	NA	.14
10/25	68	40	54	-7	58	231	.00	67	57	62	NA	NA	NA	.11
10/26	73	40	57	-4	58	238	.00	67	57	62	NA	NA	NA	.14
10/27	63	48	56	-4	58	244	Trace	63	59	61	NA	NA	NA	.05
10/28	78	48	63	3	61	257	.00	69	59	64	NA	NA	NA	.14
10/29	78	55	67	8	68	274	.10	69	61	65	NA	NA	NA	.12
10/30	72	57	65	6	73	289	.30	70	64	67	NA	NA	NA	.07
10/31	70	54	62	3	75	301	.00	68	63	66	NA	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 71.5      Mean Minimum= 47.3      Average= 59.4  
DFN= -5.6      DFN= -3.5      DFN= -4.5  
Highest= 82    Lowest= 35

PRECIPITATION STATISTICS (inches):

Total= 3.66    DFN= +.91    Greatest Daily= 1.42    Rain Days= 10

SOIL TEMPERATURES (in degrees F):

Highest= 79    Lowest= 55    Average= 65

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .11 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	70	51	61	3	1	11	.07	63	60	62	NA	NA	NA	.08
11/ 2	67	42	55	-3	1	16	.00	66	56	61	NA	NA	NA	.09
11/ 3	75	43	59	1	1	25	.00	67	56	62	NA	NA	NA	.13
11/ 4	76	52	64	7	5	39	.00	67	60	64	NA	NA	NA	.11
11/ 5	76	55	66	9	11	55	1.25	69	60	65	NA	NA	NA	.10
11/ 6	71	44	58	1	11	63	.01	64	54	59	NA	NA	NA	.10
11/ 7	64	35	50	-6	11	63	.00	59	51	55	NA	NA	NA	.09
11/ 8	71	36	54	-2	11	67	Trace	61	51	56	NA	NA	NA	.13
11/ 9	71	57	64	8	15	81	.12	63	57	60	NA	NA	NA	.06
11/10	78	57	68	13	23	99	.00	68	62	65	NA	NA	NA	.10
11/11	76	45	61	6	24	110	.04	77	58	68	NA	NA	NA	.13
11/12	67	44	56	1	24	116	.00	64	55	60	NA	NA	NA	.07
11/13	71	49	60	6	24	126	1.02	62	54	58	NA	NA	NA	.08
11/14	64	49	57	3	24	133	.00	62	58	60	NA	NA	NA	.04
11/15	64	55	60	6	24	143	.05	61	58	60	NA	NA	NA	.02
11/16	77	61	69	15	33	162	.00	66	58	62	NA	NA	NA	.08
11/17	77	44	61	7	34	173	.40	65	56	61	NA	NA	NA	.13
11/18	61	38	50	-3	34	173	.00	61	51	56	NA	NA	NA	.05
11/19	69	40	55	2	34	178	.00	60	51	56	NA	NA	NA	.10
11/20	77	40	59	6	34	187	1.10	65	59	62	NA	NA	NA	.15
11/21	63	44	54	1	34	191	.00	63	55	59	NA	NA	NA	.04
11/22	58	40	49	-3	34	191	.00	58	50	54	NA	NA	NA	.02
11/23	65	39	52	0	34	193	.00	56	50	53	NA	NA	NA	.07
11/24	65	37	51	-1	34	194	.00	57	50	54	NA	NA	NA	.08
11/25	67	35	51	-1	34	195	.00	57	50	54	NA	NA	NA	.10
11/26	72	35	54	3	34	199	.00	55	52	54	NA	NA	NA	.13
11/27	77	59	68	17	42	217	.22	62	55	59	NA	NA	NA	.08
11/28	77	37	57	6	42	224	.03	58	50	54	NA	NA	NA	.15
11/29	53	28	41	-10	42	224	.00	52	46	49	NA	NA	NA	.03
11/30	59	28	44	-6	42	224	.00	51	46	49	NA	NA	NA	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 69.3      Mean Minimum= 44.0      Average= 56.6  
DFN= +2.7      DFN= +3.0      DFN= +2.8  
Highest= 78      Lowest= 28

PRECIPITATION STATISTICS (inches):

Total= 4.31      DFN= +1.05      Greatest Daily= 1.25      Rain Days= 11

SOIL TEMPERATURES (in degrees F):

Highest= 77      Lowest= 46      Average= 58

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .09 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Black Belt Substation, Marion Junction  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	60	30	45	-5	0	0	.00	52	43	48	NA	NA	NA	.06
12/ 2	56	29	43	-7	0	0	.00	58	42	50	NA	NA	NA	.04
12/ 3	54	26	40	-10	0	0	.00	48	41	45	NA	NA	NA	.04
12/ 4	60	27	44	-5	0	0	.00	50	41	46	NA	NA	NA	.07
12/ 5	63	31	47	-2	0	0	.00	51	42	47	NA	NA	NA	.08
12/ 6	60	28	44	-5	0	0	.00	50	41	46	NA	NA	NA	.07
12/ 7	63	28	46	-3	0	0	.00	51	41	46	NA	NA	NA	.09
12/ 8	67	40	54	5	0	4	.00	52	46	49	NA	NA	NA	.08
12/ 9	69	41	55	7	0	9	.35	52	46	49	NA	NA	NA	.08
12/10	51	31	41	-7	0	9	Trace	48	43	46	NA	NA	NA	.00
12/11	45	33	39	-9	0	9	.22	43	43	43	NA	NA	NA	.00
12/12	42	34	38	-10	0	9	.03	43	43	43	NA	NA	NA	.00
12/13	45	26	36	-12	0	9	.00	46	43	45	NA	NA	NA	.00
12/14	56	29	43	-5	0	9	.00	45	39	42	NA	NA	NA	.04
12/15	62	29	46	-2	0	9	.00	44	39	42	NA	NA	NA	.08
12/16	56	34	45	-3	0	9	.40	43	41	42	NA	NA	NA	.02
12/17	43	24	34	-13	0	9	.00	41	41	41	NA	NA	NA	.00
12/18	46	22	34	-13	0	9	.00	42	40	41	NA	NA	NA	.00
12/19	49	28	39	-8	0	9	.00	41	37	39	NA	NA	NA	.00
12/20	59	28	44	-3	0	9	.00	NA	NA	39	NA	NA	NA	.06
12/21	57	44	51	4	0	10	.00	41	36	39	NA	NA	NA	.00
12/22	66	49	58	11	0	18	.00	49	41	45	NA	NA	NA	.04
12/23	72	57	65	19	5	33	.05	51	41	46	NA	NA	NA	.05
12/24	67	60	64	18	9	47	.35	NA	NA	46	NA	NA	NA	.01
12/25	69	42	56	10	9	53	.03	NA	NA	46	NA	NA	NA	.08
12/26	61	32	47	1	9	53	.00	NA	NA	46	NA	NA	NA	.06
12/27	65	34	50	4	9	53	.00	NA	NA	46	NA	NA	NA	.08
12/28	72	45	59	13	9	62	.20	52	40	46	NA	NA	NA	.09
12/29	51	26	39	-7	9	62	Trace	52	42	47	NA	NA	NA	.02
12/30	51	26	39	-7	9	62	.00	47	42	45	NA	NA	NA	.02
12/31	56	46	51	6	9	63	1.87	45	44	45	NA	NA	NA	.00

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 57.8      Mean Minimum= 34.2      Average= 46.0  
DFN= -1.1                      DFN= -1.6                      DFN= -1.4  
Highest= 72      Lowest= 22

PRECIPITATION STATISTICS (inches):  
Total= 3.50      DFN= -1.93      Greatest Daily= 1.87      Rain Days= 9

SOIL TEMPERATURES (in degrees F):  
Highest= 58      Lowest= 36      Average= 45

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= NA (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .04 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
2/ 1	68	52	60	17	0	10	.22	50	48	49	NA	NA	947	.02
2/ 2	65	52	59	16	0	19	.20	58	54	56	NA	NA	1230	.02
2/ 3	65	48	57	14	0	26	.98	66	61	64	NA	NA	838	.01
2/ 4	62	38	50	7	0	26	.37	59	55	57	NA	NA	1358	.02
2/ 5	42	27	35	-9	0	26	.00	54	44	49	NA	NA	1181	.00
2/ 6	39	9	24	-20	0	26	.00	46	40	43	NA	NA	2068	.01
2/ 7	30	6	18	-26	0	26	.00	41	38	40	NA	NA	4560	.00
2/ 8	41	6	24	-20	0	26	.00	39	38	39	NA	NA	3451	.03
2/ 9	52	20	36	-8	0	26	.00	49	40	45	NA	NA	3676	.05
2/10	59	20	40	-4	0	26	.00	51	40	46	NA	NA	4445	.09
2/11	62	24	43	-2	0	26	.00	54	41	48	NA	NA	4576	.10
2/12	48	11	30	-15	0	26	.26	47	40	44	NA	NA	670	.07
2/13	32	11	22	-23	0	26	.00	44	39	42	NA	NA	3892	.00
2/14	57	11	34	-11	0	26	.00	49	39	44	NA	NA	4743	.10
2/15	62	30	46	0	0	26	.95	48	40	44	NA	NA	2598	.06
2/16	41	15	28	-18	0	26	.00	48	40	44	NA	NA	1198	.01
2/17	55	15	35	-11	0	26	.00	51	40	46	NA	NA	4974	.10
2/18	65	25	45	-1	0	26	.00	54	46	50	NA	NA	3837	.10
2/19	54	31	43	-4	0	26	.38	48	47	48	NA	NA	1169	.00
2/20	53	31	42	-5	0	26	.03	49	45	47	NA	NA	841	.04
2/21	56	25	41	-6	0	26	.00	54	41	48	NA	NA	4387	.08
2/22	53	25	39	-8	0	26	.00	53	42	48	NA	NA	4848	.08
2/23	71	37	54	6	0	30	.00	56	50	53	NA	NA	5197	.13
2/24	59	26	43	-5	0	30	.02	52	44	48	NA	NA	952	.02
2/25	52	21	37	-11	0	30	.00	54	41	48	NA	NA	5405	.09
2/26	57	21	39	-9	0	30	.00	53	41	47	NA	NA	5358	.11
2/27	65	26	46	-3	0	30	.00	55	41	48	NA	NA	4743	.12
2/28	75	27	51	2	0	31	.00	60	45	53	NA	NA	4397	.14
2/29	68	27	48	-1	0	31	.00	60	46	53	NA	NA	5715	.14

AIR TEMPERATURES (in degrees F):

Mean Maximum= 55.4      Mean Minimum= 24.7      Average= 40.1  
DFN= -2.3      DFN= -8.5      DFN= -5.4  
Highest= 75      Lowest= 6

PRECIPITATION STATISTICS (inches):

Total= 3.41      DFN= -1.87      Greatest Daily= .98      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 66      Lowest= 38      Average= 48

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= 3215.7 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .06 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
3/ 1	70	28	49	0	0	0	.00	60	45	53	NA	NA	5260	.14
3/ 2	68	30	49	0	0	0	.00	60	45	53	NA	NA	5778	.14
3/ 3	72	30	51	1	0	1	.33	59	45	52	NA	NA	4342	.13
3/ 4	72	48	60	10	0	11	.18	62	56	59	.11	NA	2431	.07
3/ 5	51	38	45	-5	0	11	.01	57	49	53	.10	NA	1587	.02
3/ 6	54	30	42	-9	0	11	.00	51	45	48	.06	NA	3049	.04
3/ 7	61	31	46	-5	0	11	.00	56	46	51	.06	NA	4006	.08
3/ 8	72	31	52	1	0	13	.00	62	51	57	.13	NA	5708	.15
3/ 9	66	44	55	4	0	18	.26	55	55	55	.02	NA	1560	.04
3/10	60	41	51	-1	0	19	.23	57	50	54	.04	NA	718	.01
3/11	52	29	41	-11	0	19	.00	56	45	51	.10	NA	3299	.04
3/12	69	32	51	-1	0	20	Trace	60	45	53	.18	NA	6119	.15
3/13	58	36	47	-5	0	20	.19	54	49	52	.01	NA	623	.00
3/14	56	35	46	-7	0	20	.00	62	46	54	.15	NA	6140	.11
3/15	45	23	34	-19	0	20	.00	56	42	49	NA	NA	6208	.08
3/16	48	20	34	-19	0	20	.00	55	42	49	NA	NA	6433	.10
3/17	54	24	39	-14	0	20	.00	56	42	49	NA	NA	6402	.12
3/18	61	29	45	-9	0	20	.05	59	44	52	.14	NA	6145	.13
3/19	46	33	40	-14	0	20	.04	51	45	48	NA	NA	954	.01
3/20	55	33	44	-10	0	20	.00	52	45	49	.17	NA	5955	.10
3/21	71	39	55	0	0	25	.00	63	45	54	.24	NA	6406	.16
3/22	79	40	60	5	0	35	.00	66	53	60	.22	NA	6514	.19
3/23	80	40	60	5	0	45	.00	70	53	62	.22	NA	6534	.19
3/24	76	44	60	4	0	55	.00	67	53	60	.23	NA	5539	.15
3/25	80	58	69	13	9	74	.30	70	58	64	.25	NA	NA	.16
3/26	66	58	62	6	11	86	.16	64	61	63	.04	NA	1839	.03
3/27	75	25	50	-7	11	86	.00	69	52	61	NA	NA	6085	.18
3/28	74	25	50	-7	11	86	.00	66	52	59	NA	NA	7283	.20
3/29	80	54	67	10	18	103	.00	70	59	65	.31	NA	6759	.18
3/30	80	52	66	8	24	119	.87	70	62	66	.32	NA	6409	.18
3/31	66	52	59	1	24	128	.04	66	61	64	.09	NA	3028	.06

AIR TEMPERATURES (in degrees F):

Mean Maximum= 65.1      Mean Minimum= 36.5      Average= 50.8  
DFN= -.8      DFN= -3.7      DFN= -2.3  
Highest= 80      Lowest= 20

PRECIPITATION STATISTICS (inches):

Total= 2.66      DFN= -4.07      Greatest Daily= .87      Rain Days= 12

SOIL TEMPERATURES (in degrees F):

Highest= 70      Lowest= 42      Average= 55

AVERAGE DAILY VALUES:

Pan Evaporation= .14 (in)      Hours of Wet Vegetation= NA  
Solar Energy= 4637.1 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .11 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
4/ 1	77	60	69	11	9	19	.55	66	63	65	.16	NA	3223	.10
4/ 2	76	60	68	9	17	37	.36	68	65	67	.24	NA	2760	.08
4/ 3	75	60	68	9	25	55	.04	71	65	68	.06	NA	3951	.11
4/ 4	75	60	68	9	33	73	Trace	71	65	68	.12	NA	3853	.10
4/ 5	84	48	66	7	39	89	.00	78	62	70	.26	NA	7264	.21
4/ 6	88	48	68	8	47	107	.23	76	67	72	.38	NA	7548	.23
4/ 7	68	45	57	-3	47	114	.00	70	56	63	.42	NA	6941	.16
4/ 8	74	45	60	0	47	124	.00	70	56	63	.23	NA	7785	.19
4/ 9	76	43	60	-1	47	134	.00	74	56	65	.19	NA	7708	.20
4/10	80	42	61	0	48	145	.00	74	58	66	.26	NA	7001	.20
4/11	80	42	61	0	49	156	.42	74	60	67	.20	NA	6346	.19
4/12	54	44	49	-12	49	156	.73	60	53	57	.07	NA	997	.05
4/13	69	41	55	-7	49	161	.00	68	53	61	.13	NA	6187	.15
4/14	78	41	60	-2	49	171	.00	72	55	64	.27	NA	7590	.21
4/15	80	42	61	-1	50	182	.00	75	57	66	.19	NA	7616	.21
4/16	80	47	64	1	54	196	.00	72	60	66	.29	NA	6004	.18
4/17	71	42	57	-6	54	203	.00	74	59	67	.19	NA	6746	.17
4/18	80	42	61	-2	55	214	.33	74	59	67	.22	NA	6546	.19
4/19	80	48	64	1	59	228	1.41	74	64	69	NA	NA	5611	.17
4/20	68	34	51	-13	59	229	.00	74	56	65	.24	NA	6984	.17
4/21	74	35	55	-9	59	234	.00	71	56	64	.22	NA	7101	.19
4/22	83	47	65	1	64	249	.00	76	59	68	.22	NA	6967	.21
4/23	73	58	66	2	70	265	Trace	69	69	69	.03	NA	1838	.06
4/24	80	55	68	4	78	283	Trace	73	66	70	.09	NA	2824	.11
4/25	76	47	62	-3	80	295	.00	80	64	72	.26	NA	7639	.20
4/26	71	47	59	-6	80	304	.00	70	61	66	.16	NA	3958	.11
4/27	80	46	63	-2	83	317	.00	80	64	72	.23	NA	7569	.21
4/28	72	36	54	-11	83	321	.00	80	60	70	.28	NA	7753	.20
4/29	71	35	53	-13	83	324	.00	78	60	69	.22	NA	7609	.19
4/30	76	37	57	-9	83	331	.00	79	64	72	.24	NA	7537	.21

AIR TEMPERATURES (in degrees F):

Mean Maximum= 75.6      Mean Minimum= 45.9      Average= 60.8  
DFN= -.5      DFN= -2.3      DFN= -1.4  
Highest= 88      Lowest= 34

PRECIPITATION STATISTICS (inches):

Total= 4.07      DFN= -1.34      Greatest Daily= 1.41      Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 80      Lowest= 53      Average= 67

AVERAGE DAILY VALUES:

Pan Evaporation= .21 (in)      Hours of Wet Vegetation= NA  
Solar Energy= 5981.9 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .17 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
5/ 1	72	38	55	-11	0	5	.00	72	60	66	.18	NA	4945	.14
5/ 2	80	40	60	-6	0	15	.00	80	63	72	.24	NA	7851	.22
5/ 3	83	42	63	-4	3	28	.00	82	66	74	.26	NA	7973	.23
5/ 4	78	50	64	-3	7	42	.48	75	65	70	.23	NA	5817	.17
5/ 5	72	43	58	-9	7	50	.00	71	60	66	.21	NA	5601	.15
5/ 6	76	44	60	-7	7	60	.00	74	61	68	.24	NA	7851	.21
5/ 7	80	44	62	-6	9	72	.00	80	61	71	.30	NA	8187	.23
5/ 8	83	45	64	-4	13	86	.00	80	64	72	.20	NA	7949	.23
5/ 9	83	58	71	3	24	107	.00	80	68	74	.25	NA	5967	.18
5/10	84	57	71	3	35	128	.43	81	68	75	.28	NA	5195	.17
5/11	81	45	63	-5	38	141	.00	80	64	72	.30	NA	8341	.23
5/12	81	46	64	-5	42	155	.00	80	64	72	.29	NA	8565	.24
5/13	79	46	63	-6	45	168	.00	79	67	73	.15	NA	6029	.18
5/14	85	51	68	-1	53	186	.00	85	70	78	.27	NA	7925	.23
5/15	88	52	70	1	63	206	.00	86	71	79	.25	NA	7518	.23
5/16	89	54	72	2	75	228	.10	86	70	78	.22	NA	6597	.21
5/17	88	52	70	0	85	248	.00	84	71	78	.23	NA	6856	.22
5/18	83	44	64	-6	89	262	.00	87	70	79	.31	NA	8691	.25
5/19	81	47	64	-6	93	276	.00	86	70	78	.18	NA	8296	.23
5/20	83	48	66	-5	99	292	.00	88	71	80	.26	NA	8615	.24
5/21	85	54	70	-1	109	312	.00	86	72	79	.26	NA	7886	.23
5/22	87	62	75	4	124	337	.00	86	75	81	.23	NA	6334	.20
5/23	80	57	69	-2	133	356	1.20	80	69	75	.29	NA	5211	.15
5/24	78	57	68	-4	141	374	.85	75	69	72	.31	NA	5195	.15
5/25	75	55	65	-7	146	389	.42	74	66	70	.10	NA	3492	.11
5/26	76	47	62	-10	148	401	.00	79	62	71	.34	NA	8632	.22
5/27	79	44	62	-10	150	413	.00	78	62	70	.28	NA	8849	.24
5/28	82	48	65	-8	155	428	.00	82	62	72	.24	NA	8496	.24
5/29	86	49	68	-5	163	446	.00	86	66	76	.27	NA	8795	.25
5/30	88	53	71	-2	174	467	.00	87	69	78	.28	NA	8541	.25
5/31	90	57	74	1	188	491	.00	92	71	82	.27	NA	8361	.25

AIR TEMPERATURES (in degrees F):

Mean Maximum= 81.8      Mean Minimum= 49.3      Average= 65.5  
DFN= -1.1      DFN= -6.5      DFN= -3.8  
Highest= 90      Lowest= 38

PRECIPITATION STATISTICS (inches):

Total= 3.48      DFN= -1.40      Greatest Daily= 1.20      Rain Days= 6

SOIL TEMPERATURES (in degrees F):

Highest= 92      Lowest= 60      Average= 74

AVERAGE DAILY VALUES:

Pan Evaporation= .25 (in)      Hours of Wet Vegetation= NA  
Solar Energy= 7243.9 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD			4 INCH SOIL			EVAP	WET	VEG SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50	PRECIP	MAX	MIN	MEAN				
6/ 1	90	55	73	-1	13	23	.00	89	73	81	.32	NA	8137	.25
6/ 2	90	55	73	-1	26	46	.00	90	80	85	.27	NA	8583	.26
6/ 3	90	59	75	1	41	71	.00	89	76	83	.24	NA	7045	.22
6/ 4	89	57	73	-1	54	94	.00	89	75	82	.32	NA	6222	.21
6/ 5	80	50	65	-10	59	109	.00	87	71	79	.33	NA	8325	.22
6/ 6	82	53	68	-7	67	127	.00	84	71	78	.32	NA	8253	.23
6/ 7	88	56	72	-3	79	149	.00	89	74	82	.30	NA	8518	.25
6/ 8	91	58	75	0	94	174	.00	90	75	83	.22	NA	6992	.23
6/ 9	93	61	77	1	111	201	Trace	91	78	85	.32	NA	8401	.26
6/10	80	49	65	-11	116	216	.02	81	69	75	.18	NA	3721	.13
6/11	78	45	62	-14	118	228	.00	85	70	78	.31	NA	8921	.23
6/12	83	47	65	-11	123	243	.00	86	70	78	.32	NA	8952	.25
6/13	88	50	69	-7	132	262	.00	88	70	79	.30	NA	8527	.26
6/14	88	54	71	-6	143	283	.00	89	73	81	.35	NA	8181	.24
6/15	91	55	73	-4	156	306	.00	89	74	82	.36	NA	8234	.25
6/16	93	57	75	-2	171	331	.00	92	77	85	.28	NA	7932	.25
6/17	94	60	77	0	188	358	.00	89	76	83	.22	NA	6429	.22
6/18	94	60	77	0	205	385	.00	90	79	85	.26	NA	6645	.23
6/19	93	63	78	1	223	413	Trace	88	76	82	.21	NA	5104	.19
6/20	91	60	76	-2	239	439	.00	91	78	85	.27	NA	8308	.25
6/21	95	63	79	1	258	468	.00	94	79	87	.30	NA	7461	.24
6/22	98	63	81	3	279	499	.00	94	80	87	.30	NA	7508	.26
6/23	98	65	82	4	301	531	.00	95	81	88	.34	NA	7834	.26
6/24	94	67	81	3	322	562	.00	91	81	86	.22	NA	5804	.20
6/25	97	66	82	4	344	594	.00	94	82	88	.33	NA	7419	.25
6/26	99	68	84	6	368	628	.00	95	84	90	.30	NA	7171	.25
6/27	101	68	85	7	393	663	.00	98	85	92	.42	NA	7976	.27
6/28	97	61	79	1	412	692	.00	98	81	90	.45	NA	8342	.27
6/29	95	63	79	0	431	721	.00	96	82	89	.32	NA	7783	.25
6/30	98	65	82	3	453	753	.00	97	82	90	.30	NA	7621	.26

AIR TEMPERATURES (in degrees F):

Mean Maximum= 91.3      Mean Minimum= 58.4      Average= 74.8  
DFN= +1.7                      DFN= -4.6                      DFN= -1.4  
Highest= 101      Lowest= 45

PRECIPITATION STATISTICS (inches):

Total= .02      DFN= -3.40      Greatest Daily= .02      Rain Days= 1

SOIL TEMPERATURES (in degrees F):

Highest= 98      Lowest= 69      Average= 84

AVERAGE DAILY VALUES:

Pan Evaporation= .30 (in)      Hours of Wet Vegetation= NA  
Solar Energy= 7545.0 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .24 (in)



National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL				VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN	EVAP			
7/ 1	83	68	76	-3	16	26	.10	85	80	83	.14	NA	3629	.12
7/ 2	84	64	74	-5	30	50	.59	84	76	80	.11	NA	4140	.14
7/ 3	82	66	74	-5	44	74	.48	82	78	80	.12	NA	3718	.12
7/ 4	88	68	78	-1	62	102	1.30	86	79	83	NA	NA	4947	.17
7/ 5	82	70	76	-3	78	128	.00	84	79	82	.15	NA	3864	.12
7/ 6	82	66	74	-5	92	152	.00	81	76	79	.14	NA	3755	.12
7/ 7	88	60	74	-6	106	176	.00	84	74	79	.31	NA	7281	.22
7/ 8	89	59	74	-6	120	200	.00	85	74	80	.33	NA	8230	.24
7/ 9	95	59	77	-3	137	227	.00	91	79	85	.33	NA	8133	.26
7/10	96	64	80	0	157	257	.00	93	80	87	.29	NA	7433	.25
7/11	93	69	81	1	178	288	Trace	90	80	85	.17	NA	5347	.19
7/12	88	66	77	-3	195	315	.64	86	79	83	.16	NA	3717	.14
7/13	91	66	79	-1	214	344	Trace	88	80	84	.21	NA	5963	.20
7/14	85	70	78	-2	232	372	Trace	83	80	82	.12	NA	3085	.12
7/15	89	70	80	0	252	402	.00	88	80	84	.16	NA	5319	.17
7/16	96	69	83	3	275	435	.00	93	80	87	.28	NA	7907	.25
7/17	95	68	82	2	297	467	.00	92	81	87	.26	NA	6480	.22
7/18	90	68	79	-1	316	496	.06	85	80	83	.14	NA	5294	.18
7/19	88	68	78	-2	334	524	.00	90	80	85	.22	NA	6061	.19
7/20	89	69	79	-1	353	553	Trace	88	80	84	.18	NA	5040	.17
7/21	92	69	81	1	374	584	1.15	89	80	85	NA	NA	5859	.20
7/22	86	66	76	-4	390	610	.19	88	79	84	.18	NA	4632	.15
7/23	82	64	73	-7	403	633	.30	86	78	82	.17	NA	4923	.15
7/24	88	57	73	-7	416	656	.00	88	76	82	.22	NA	6592	.21
7/25	90	59	75	-5	431	681	.00	88	78	83	.24	NA	7690	.24
7/26	82	63	73	-7	444	704	.00	84	76	80	.12	NA	4260	.14
7/27	85	63	74	-6	458	728	.00	85	78	82	.22	NA	6341	.19
7/28	90	65	78	-2	476	756	.00	87	79	83	.22	NA	6042	.20
7/29	92	65	79	-1	495	785	.00	90	79	85	.24	NA	6854	.22
7/30	94	63	79	-1	514	814	.00	92	80	86	.24	NA	7189	.23
7/31	92	65	79	-1	533	843	.00	92	80	86	.22	NA	7558	.23

AIR TEMPERATURES (in degrees F):

Mean Maximum= 88.6      Mean Minimum= 65.4      Average= 77.0  
DFN= -3.7      DFN= -1.5      DFN= -2.6  
Highest= 96      Lowest= 57

PRECIPITATION STATISTICS (inches):

Total= 4.81      DFN= -.27      Greatest Daily= 1.30      Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 93      Lowest= 74      Average= 83

AVERAGE DAILY VALUES:

Pan Evaporation= .20 (in)      Hours of Wet Vegetation= NA  
Solar Energy= 5718.8 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .19 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
8/ 1	91	65	78	-2	18	28	.00	89	80	85	.25	NA	5792	.19
8/ 2	95	66	81	1	39	59	.67	88	80	84	.24	NA	5350	.20
8/ 3	93	68	81	1	60	90	.00	90	80	85	.18	NA	5277	.19
8/ 4	95	68	82	2	82	122	.04	90	80	85	.24	NA	7166	.23
8/ 5	92	67	80	0	102	152	.00	89	80	85	.15	NA	5196	.18
8/ 6	93	67	80	0	122	182	.00	90	81	86	.29	NA	7528	.23
8/ 7	93	67	80	0	142	212	.00	89	81	85	.28	NA	7126	.22
8/ 8	93	67	80	1	162	242	.00	90	80	85	.26	NA	6222	.21
8/ 9	95	67	81	2	183	273	.00	92	80	86	.27	NA	7871	.25
8/10	95	68	82	3	205	305	.00	92	82	87	.23	NA	6400	.22
8/11	95	67	81	2	226	336	.00	92	82	87	.34	NA	7595	.24
8/12	95	67	81	2	247	367	.05	92	81	87	.23	NA	NA	.24
8/13	90	67	79	0	266	396	.00	88	81	85	.23	NA	NA	.21
8/14	96	65	81	2	287	427	.00	92	81	87	.24	NA	NA	.26
8/15	97	65	81	2	308	458	.00	94	82	88	.32	NA	NA	.26
8/16	97	67	82	3	330	490	.00	94	83	89	.31	NA	NA	.26
8/17	98	67	83	4	353	523	.19	92	80	86	.36	NA	6618	.23
8/18	97	67	82	3	375	555	.00	91	80	86	.26	NA	6151	.22
8/19	96	68	82	3	397	587	.00	92	81	87	.22	NA	5444	.20
8/20	95	68	82	3	419	619	.40	90	81	86	.35	NA	4911	.18
8/21	90	68	79	1	438	648	1.10	88	80	84	.20	NA	3743	.14
8/22	90	66	78	0	456	676	.12	88	80	84	.24	NA	4434	.16
8/23	93	66	80	2	476	706	.00	90	80	85	.24	NA	5815	.20
8/24	92	68	80	2	496	736	.06	90	82	86	.19	NA	4972	.18
8/25	92	58	75	-3	511	761	.00	90	78	84	.25	NA	5574	.20
8/26	93	58	76	-2	527	787	.00	90	77	84	.29	NA	6465	.22
8/27	95	58	77	-1	544	814	.00	89	78	84	.26	NA	6699	.23
8/28	95	58	77	-1	561	841	.00	90	80	85	.24	NA	6656	.23
8/29	93	64	79	1	580	870	.00	90	80	85	.22	NA	5644	.20
8/30	85	62	74	-3	594	894	.00	88	79	84	.18	NA	4427	.15
8/31	86	58	72	-5	606	916	.00	87	77	82	.27	NA	5332	.17

AIR TEMPERATURES (in degrees F):

Mean Maximum= 93.4      Mean Minimum= 65.2      Average= 79.3  
 DFN= +1.7                      DFN= -.6                      DFN= +.5  
 Highest= 98    Lowest= 58

PRECIPITATION STATISTICS (inches):

Total= 2.63    DFN= -.50    Greatest Daily= 1.10    Rain Days= 8

SOIL TEMPERATURES (in degrees F):

Highest= 94    Lowest= 77    Average= 85

AVERAGE DAILY VALUES:

Pan Evaporation= .25 (in)    Hours of Wet Vegetation= NA  
 Solar Energy= 5938.8 (W/Sq M ystdy)  
 Potential evapotranspiration (PET)= .21 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	VEG WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
9/ 1	89	58	74	-3	14	24	1.50	88	77	83	.30	NA	5932	.19
9/ 2	85	65	75	-2	29	49	.00	82	75	79	.22	NA	3981	.13
9/ 3	84	65	75	-2	44	74	.04	80	78	79	.14	NA	4087	.13
9/ 4	77	66	72	-5	56	96	1.65	78	75	77	.06	NA	1447	.06
9/ 5	81	50	66	-11	62	112	.03	81	72	77	.28	NA	3261	.12
9/ 6	81	50	66	-10	68	128	.00	80	70	75	.17	NA	6264	.18
9/ 7	76	43	60	-16	68	138	.00	80	67	74	.23	NA	6851	.18
9/ 8	80	55	68	-8	76	156	.00	77	70	74	.15	NA	5621	.16
9/ 9	81	53	67	-9	83	173	.00	79	70	75	.29	NA	6588	.18
9/10	85	53	69	-7	92	192	.00	86	70	78	.19	NA	5788	.18
9/11	81	64	73	-2	105	215	.30	76	75	76	.10	NA	2425	.09
9/12	88	68	78	3	123	243	.02	81	75	78	.10	NA	3360	.13
9/13	87	65	76	1	139	269	.26	84	77	81	.07	NA	3610	.13
9/14	91	64	78	4	157	297	.00	87	78	83	.17	NA	5088	.18
9/15	93	64	79	5	176	326	.00	86	78	82	.23	NA	5440	.19
9/16	88	64	76	2	192	352	.11	84	78	81	.11	NA	4002	.14
9/17	75	68	72	-1	204	374	1.84	77	76	77	NA	NA	678	.03
9/18	81	62	72	-1	216	396	.80	80	76	78	NA	NA	1706	.08
9/19	86	62	74	1	230	420	.00	83	76	80	.11	NA	4201	.14
9/20	85	66	76	3	246	446	.00	81	78	80	.08	NA	2705	.11
9/21	90	63	77	5	263	473	.00	86	78	82	.14	NA	4095	.15
9/22	90	60	75	3	278	498	.00	85	77	81	.25	NA	5850	.19
9/23	90	60	75	3	293	523	.00	86	77	82	.15	NA	5319	.18
9/24	90	64	77	6	310	550	.00	85	78	82	.18	NA	4593	.16
9/25	89	67	78	7	328	578	.17	84	78	81	.23	NA	4575	.15
9/26	85	58	72	2	340	600	.00	84	75	80	.12	NA	3918	.14
9/27	83	58	71	1	351	621	.00	82	75	79	.18	NA	5309	.16
9/28	81	63	72	3	363	643	.00	79	74	77	.10	NA	2639	.09
9/29	74	65	70	1	373	663	.39	76	75	76	.03	NA	1525	.05
9/30	70	65	68	-1	381	681	.89	74	73	74	.08	NA	665	.01

AIR TEMPERATURES (in degrees F):

Mean Maximum= 83.9      Mean Minimum= 60.9      Average= 72.4  
DFN= -2.7                      DFN= +.7                      DFN= -1.0  
Highest= 93      Lowest= 43

PRECIPITATION STATISTICS (inches):

Total= 8.00      DFN= +4.15      Greatest Daily= 1.84      Rain Days= 13

SOIL TEMPERATURES (in degrees F):

Highest= 88      Lowest= 67      Average= 78

AVERAGE DAILY VALUES:

Pan Evaporation= .16 (in)      Hours of Wet Vegetation= NA  
Solar Energy= 4050.8 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .13 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
10/ 1	82	65	74	6	14	24	.04	84	79	82	.12	NA	3701	.11
10/ 2	71	62	67	-1	21	41	1.27	74	72	73	NA	NA	563	.02
10/ 3	78	60	69	2	30	60	.70	77	72	75	NA	NA	3270	.10
10/ 4	73	48	61	-6	31	71	.00	76	66	71	.15	NA	4300	.11
10/ 5	73	42	58	-8	31	79	.00	74	65	70	.20	NA	5624	.15
10/ 6	66	42	54	-12	31	83	.00	75	63	69	.18	NA	5619	.12
10/ 7	70	42	56	-10	31	89	.00	72	63	68	.16	NA	5416	.13
10/ 8	68	39	54	-11	31	93	.00	70	62	66	.15	NA	5177	.12
10/ 9	70	39	55	-10	31	98	.00	71	62	67	.15	NA	5422	.13
10/10	68	42	55	-9	31	103	.00	69	62	66	.15	NA	3438	.08
10/11	70	42	56	-8	31	109	.00	70	62	66	.14	NA	4644	.11
10/12	75	40	58	-6	31	117	.00	72	62	67	.14	NA	5032	.14
10/13	68	33	51	-12	31	118	.00	70	60	65	.16	NA	5249	.13
10/14	67	30	49	-14	31	118	.00	68	59	64	.15	NA	5249	.13
10/15	70	30	50	-12	31	118	.00	69	57	63	.11	NA	4929	.13
10/16	71	33	52	-10	31	120	.00	70	57	64	.14	NA	4990	.13
10/17	76	51	64	3	35	134	.00	68	60	64	.08	NA	3249	.10
10/18	81	51	66	5	41	150	.00	73	64	69	.08	NA	4087	.13
10/19	76	50	63	2	44	163	.45	70	65	68	.12	NA	2170	.08
10/20	70	40	55	-5	44	168	.00	72	61	67	.15	NA	4798	.12
10/21	58	46	52	-8	44	170	.46	61	61	61	.03	NA	871	.03
10/22	67	38	53	-7	44	173	.00	66	59	63	.08	NA	2953	.07
10/23	69	36	53	-6	44	176	.00	66	59	63	.16	NA	4695	.12
10/24	70	36	53	-6	44	179	.27	63	60	62	.03	NA	2406	.07
10/25	69	35	52	-7	44	181	.00	66	58	62	.12	NA	4719	.12
10/26	73	35	54	-4	44	185	.00	64	59	62	.11	NA	3859	.11
10/27	58	44	51	-7	44	186	.05	60	59	60	.03	NA	784	.03
10/28	77	46	62	4	46	198	.28	66	63	65	.14	NA	4212	.12
10/29	65	47	56	-1	46	204	.61	64	60	62	.04	NA	503	.01
10/30	66	41	54	-3	46	208	.00	65	59	62	.10	NA	2888	.06
10/31	61	44	53	-3	46	211	.00	62	59	61	.08	NA	2106	.03

AIR TEMPERATURES (in degrees F):

Mean Maximum= 70.2      Mean Minimum= 42.9      Average= 56.5  
DFN= -7.1                      DFN= -3.4                      DFN= -5.3  
Highest= 82    Lowest= 30

PRECIPITATION STATISTICS (inches):

Total= 4.13    DFN= +1.20    Greatest Daily= 1.27    Rain Days= 9

SOIL TEMPERATURES (in degrees F):

Highest= 84    Lowest= 57    Average= 66

AVERAGE DAILY VALUES:

Fan Evaporation= .12 (in)    Hours of Wet Vegetation= NA  
Solar Energy= 3771.7 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .10 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	SOLAR ENERGY	PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
11/ 1	55	47	51	-5	0	1	.14	60	58	59	NA	NA	449	.00
11/ 2	69	37	53	-3	0	4	.00	66	58	62	NA	NA	4060	.10
11/ 3	75	37	56	1	0	10	.00	66	58	62	NA	NA	4037	.12
11/ 4	77	52	65	10	5	25	Trace	66	60	63	NA	NA	3120	.09
11/ 5	75	49	62	7	7	37	.46	65	61	63	NA	NA	1212	.05
11/ 6	68	40	54	-1	7	41	.01	64	57	61	NA	NA	3520	.08
11/ 7	60	30	45	-9	7	41	.00	60	53	57	NA	NA	4029	.08
11/ 8	73	30	52	-2	7	43	.16	61	60	61	NA	NA	3982	.12
11/ 9	74	49	62	9	9	55	Trace	65	62	64	NA	NA	2130	.07
11/10	73	57	65	12	14	70	.00	65	65	65	NA	NA	1076	.03
11/11	72	39	56	3	14	76	.04	67	58	63	NA	NA	2155	.07
11/12	64	39	52	-1	14	78	.00	62	56	59	NA	NA	3697	.07
11/13	67	44	56	4	14	84	.84	59	56	58	NA	NA	1128	.03
11/14	71	40	56	4	14	90	.00	66	59	63	NA	NA	3787	.10
11/15	70	48	59	7	14	99	.00	64	59	62	NA	NA	1990	.05
11/16	76	60	68	16	22	117	.00	65	62	64	NA	NA	1394	.05
11/17	70	33	52	1	22	119	.11	65	56	61	NA	NA	841	.04
11/18	61	30	46	-5	22	119	.00	62	53	58	NA	NA	3730	.07
11/19	69	37	53	2	22	122	.03	60	60	60	NA	NA	3003	.08
11/20	73	53	63	13	25	135	2.99	65	63	64	NA	NA	146	.02
11/21	56	41	49	-1	25	135	.00	63	56	60	NA	NA	1779	.01
11/22	56	30	43	-7	25	135	.00	60	52	56	NA	NA	3183	.05
11/23	66	30	48	-1	25	135	.00	60	54	57	NA	NA	3399	.08
11/24	67	28	48	-1	25	135	.00	60	52	56	NA	NA	3345	.09
11/25	64	28	46	-3	25	135	.00	59	52	56	NA	NA	3568	.08
11/26	72	45	59	10	25	144	Trace	60	55	58	NA	NA	3127	.08
11/27	72	46	59	10	25	153	1.01	62	59	61	NA	NA	382	.03
11/28	60	33	47	-1	25	153	.23	59	52	56	NA	NA	936	.01
11/29	52	24	38	-10	25	153	.00	56	49	53	NA	NA	3545	.04
11/30	59	24	42	-6	25	153	.05	54	51	53	NA	NA	3542	.07

AIR TEMPERATURES (in degrees F):

Mean Maximum= 67.2      Mean Minimum= 39.3      Average= 53.3  
DFN= +2.1      DFN= +1.4      DFN= +1.8  
Highest= 77    Lowest= 24

PRECIPITATION STATISTICS (inches):

Total= 6.07    DFN= +1.50    Greatest Daily= 2.99    Rain Days= 12

SOIL TEMPERATURES (in degrees F):

Highest= 67    Lowest= 49    Average= 60

AVERAGE DAILY VALUES:

Pan Evaporation= NA (in)    Hours of Wet Vegetation= NA  
Solar Energy= 2543.1 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .06 (in)

National Weather Service  
Southeast Agricultural Weather Service Center, Auburn, Alabama

Daily Weather Observations: Upper Coastal Plain Substation, Winfield  
1988

DATE	AIR TEMPERATURE				GDD		PRECIP	4 INCH SOIL			EVAP	WET	VEG ENERGY	SOLAR PET
	MAX	MIN	AVG	DFN	B60	B50		MAX	MIN	MEAN				
12/ 1	58	23	41	-7	0	0	.00	56	48	52	NA	NA	3411	.06
12/ 2	54	20	37	-10	0	0	.00	53	45	49	NA	NA	3344	.05
12/ 3	57	20	39	-8	0	0	.00	52	46	49	NA	NA	3414	.06
12/ 4	66	22	44	-3	0	0	.00	54	48	51	NA	NA	3017	.08
12/ 5	56	25	41	-6	0	0	.00	54	45	50	NA	NA	3248	.05
12/ 6	61	21	41	-5	0	0	.00	53	45	49	NA	NA	3399	.07
12/ 7	64	21	43	-3	0	0	.00	52	48	50	NA	NA	3342	.08
12/ 8	67	33	50	4	0	0	.00	55	50	53	NA	NA	2967	.07
12/ 9	58	33	46	1	0	0	.05	54	50	52	NA	NA	1237	.01
12/10	45	24	35	-10	0	0	.00	50	45	48	NA	NA	1518	.00
12/11	48	26	37	-8	0	0	.00	58	45	52	NA	NA	1610	.00
12/12	44	27	36	-9	0	0	Trace	57	44	51	NA	NA	1110	.00
12/13	48	23	36	-9	0	0	.00	49	42	46	NA	NA	2673	.01
12/14	58	23	41	-4	0	0	.00	52	42	47	NA	NA	3186	.06
12/15	64	25	45	0	0	0	Trace	50	44	47	NA	NA	2695	.07
12/16	50	25	38	-6	0	0	.00	50	45	48	NA	NA	857	.01
12/17	40	17	29	-15	0	0	.00	48	40	44	NA	NA	3182	.00
12/18	44	14	29	-15	0	0	.00	46	40	43	NA	NA	3192	.02
12/19	50	14	32	-12	0	0	.00	45	40	43	NA	NA	3138	.04
12/20	60	27	44	0	0	0	.00	46	40	43	NA	NA	2871	.05
12/21	70	48	59	15	0	9	.00	52	45	49	NA	NA	1466	.04
12/22	65	55	60	16	0	19	.22	56	56	56	NA	NA	602	.01
12/23	66	49	58	14	0	27	1.11	59	58	59	NA	NA	409	.00
12/24	65	49	57	14	0	34	.04	59	56	58	NA	NA	1216	.02
12/25	71	35	53	10	0	37	.35	62	51	57	NA	NA	1974	.06
12/26	58	32	45	2	0	37	.00	55	48	52	NA	NA	3240	.05
12/27	65	32	49	6	0	37	.00	54	51	53	NA	NA	3070	.07
12/28	70	40	55	12	0	42	.50	57	55	56	NA	NA	2271	.06
12/29	47	22	35	-8	0	42	.00	56	46	51	NA	NA	2971	.02
12/30	52	22	37	-6	0	42	.15	51	49	50	NA	NA	3243	.04
12/31	49	38	44	2	0	42	1.25	50	49	50	NA	NA	NA	.00

AIR TEMPERATURES (in degrees F):  
Mean Maximum= 57.1      Mean Minimum= 28.5      Average= 42.8  
DFN= +1.0      DFN= -4.1      DFN= -1.5  
Highest= 71      Lowest= 14

PRECIPITATION STATISTICS (inches):  
Total= 3.67      DFN= -2.01      Greatest Daily= 1.25      Rain Days= 8

SOIL TEMPERATURES (in degrees F):  
Highest= 62      Lowest= 40      Average= 50

AVERAGE DAILY VALUES:  
Pan Evaporation= NA (in)      Hours of Wet Vegetation= NA  
Solar Energy= 2462.4 (W/Sq M ystdy)  
Potential evapotranspiration (PET)= .04 (in)



