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Auburn University

# MICROMETEOROLOGICAL DATA

Compiled by:

U.S. Dept. of Commerce/NOAA  
National Weather Service  
Southeast Agricultural Weather Service Center  
Auburn University

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Agricultural Weather Series No. 22

Alabama Agricultural Experiment Station  
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Auburn University, Alabama



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To: All Users of Auburn Weather Data

This publication of the 1982 Auburn Micrometeorological Data marks a major change in the collection and processing of Auburn's weather data. Nearly all of the enclosed data were obtained by our automated weather station and processed in real-time on our office's new minicomputer. This replaces manual methods and computer processing on the Auburn University computer. We are now able to produce these summaries monthly.

The automated weather station that is in operation provides us with hourly weather observations direct into our computer. Each hour's observation is being sent on the National Weather Service's Alabama Weather Wire. Radio and television stations that subscribe to this special Weather Wire can now report the latest weather observation for Auburn.

Users that may compare normals of temperature and precipitation listed in the 1982 publication with those shown in tables for 1983 will find a different set of numbers. This is due to an update of the normals which occurs each decade. The new set of normals to be used for the rest of the 1980's are based on the 1951-80 period.

## HISTORY OF THE AUBURN WEATHER STATION

The first official weather records for Auburn began in May 1894. There is no record of the exact location of the station. Weather data taken from May 1894 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 Post Office. Mrs. Moore moved on January 2, 1952 to a location three 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. Mr. Paul Mott established a micrometeorological weather station on the south end of the Astronomy Farm on September 1, 1963. The Environmental Studies Service Center replaced the AAM position in July 1973. During 1981 the office was renamed the Southeast Agricultural Weather Service Center.

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

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CLIMATOLOGICAL PUBLICATIONS FOR AUBURN AND THE STATE OF ALABAMA

Agricultural Weather  
Series Number

Publication Title

1	1964 Auburn Weather Data
2	1965 Auburn Weather Data
3	1966 Auburn Weather Data
4	1967 Auburn Weather Data
5	Growing Degree Days for Alabama
6	1968 Auburn Weather Data
7	1969 Auburn Weather Data
8	1970 Auburn Weather Data
9	1971 Auburn Weather Data
10	1972 Auburn Weather Data
11	1973 Auburn Weather Data
12	1974 Auburn Weather Data
13	1975 Auburn Weather Data
14	1976 Auburn Weather Data
15	1977 Auburn Weather Data
16	1978 Auburn Weather Data
17	Climate of Freeze in Alabama
18	Precipitation Probabilities and Statistics for Alabama
19	1979 Auburn Weather Data
20	1980 Auburn Weather Data
21	1981 Auburn Weather Data
22	1982 Auburn 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

THESE PUBLICATIONS ARE AVAILABLE FROM RESEARCH INFORMATION, COMER  
HALL, THE UNIVERSITY LIBRARY AND FROM THIS OFFICE.

AGROCLIMATOLOGICAL DATA - JANUARY 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA											(IN DEGREES FARENHEIT)												SOIL TEMPERATURE DATA								
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES									
	MAX	MIN	NEAN	DFN*	BELOW		55		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN							
					45	45																										
1	44	36	40	-6	25	0	0	24	48	37	49	37	43	OM	OM	OM	46	40	43	45	40	43	47	43	45							
2	50	40	45	-1	20	0	0	10	52	38	53	38	46	OM	OM	OM	49	42	46	48	42	45	50	46	48							
3	56	45	51	5	14	6	0	0	59	45	59	45	52	OM	OM	OM	52	43	48	51	43	47	53	46	50							
4	70	53	62	16	3	17	7	0	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM							
5	58	30	44	-2	21	0	0	13	68	26	67	27	47	OM	OM	OM	57	35	46	54	37	46	56	43	50							
6	59	32	46	0	19	1	0	14	71	30	69	31	50	OM	OM	OM	56	35	46	53	37	45	53	44	49							
7	63	40	52	6	13	7	0	1	70	39	70	39	55	OM	OM	OM	56	38	47	52	39	46	54	45	50							
8	62	32	47	1	18	2	0	9	63	31	64	32	48	OM	OM	OM	58	40	49	56	42	49	58	49	54							
9	51	24	38	-8	27	0	0	18	65	22	64	23	44	OM	OM	OM	56	34	45	53	36	45	54	43	49							
10	50	22	36	-10	29	0	0	18	59	22	57	23	40	OM	OM	OM	50	33	42	47	35	41	48	41	45							
11	28	1	15	-31	50	0	0	24	39	0	39	1	20	OM	OM	OM	43	26	35	40	30	35	43	36	40							
12	29	1	15	-31	50	0	0	24	41	2	36	3	20	OM	OM	OM	31	26	29	31	30	31	37	34	36							
13	32	20	26	-20	39	0	0	24	32	22	32	22	27	OM	OM	OM	31	29	30	31	30	31	36	34	35							
14	33	29	31	-15	34	0	0	24	33	30	34	30	32	OM	OM	OM	32	31	32	32	31	32	36	34	35							
15	29	14	22	-24	43	0	0	24	40	10	34	11	23	OM	OM	OM	33	32	33	33	32	33	37	33	35							
16	46	14	30	-16	35	0	0	22	53	12	52	13	33	OM	OM	OM	33	32	33	33	33	33	37	36	37							
17	55	10	33	-13	32	0	0	17	67	10	63	11	37	OM	OM	OM	47	32	40	44	33	39	43	35	39							
18	40	10	25	-21	40	0	0	24	52	10	51	13	32	OM	OM	OM	41	31	36	38	32	35	39	36	38							
19	56	33	45	-1	20	0	0	7	56	34	56	34	45	OM	OM	OM	45	32	39	43	33	38	44	36	40							
20	69	56	63	17	2	18	8	0	69	56	69	56	63	OM	OM	OM	57	45	51	54	43	49	53	44	49							
21	69	61	65	19	0	20	10	0	76	59	76	60	68	OM	OM	OM	61	54	59	58	52	55	58	53	56							
22	65	55	60	14	5	15	5	0	69	52	68	53	61	OM	OM	OM	60	53	57	58	53	56	59	56	58							
23	60	50	55	9	10	10	0	0	61	50	61	50	56	OM	OM	OM	57	50	54	55	50	53	57	54	56							
24	60	32	46	0	19	1	0	10	60	29	60	30	45	OM	OM	OM	55	36	46	53	38	46	56	45	51							
25	51	27	39	-7	26	0	0	19	62	24	60	25	43	OM	OM	OM	54	34	44	50	36	43	51	43	47							
26	60	28	44	-3	21	0	0	10	69	26	68	27	48	OM	OM	OM	55	34	45	51	36	44	51	42	47							
27	43	24	34	-13	31	0	0	24	56	22	55	22	39	OM	OM	OM	50	33	42	47	34	41	48	40	44							
28	49	25	37	-10	28	0	0	20	63	24	63	25	44	OM	OM	OM	50	33	42	47	34	41	46	38	42							
29	54	35	45	-2	20	0	0	5	61	36	59	36	48	OM	OM	OM	47	34	41	45	35	40	46	38	42							
30	63	44	54	7	11	9	0	3	74	43	73	43	58	OM	OM	OM	58	43	51	54	43	49	53	44	49							
31	69	44	57	10	8	12	2	0	80	44	78	44	61	OM	OM	OM	62	43	53	58	43	51	56	47	52							

TOTAL 713 118 32 368 1768 885

MEAN 52.4 31.2 41.8 -4.2 23.0 3.8 1.0 12.5 58.9 29.5 58.0 30.1 44.0 .0 .0 .0 49.4 36.8 43.1 47.1 37.7 42.4 48.6 41.9 45.3

TEMPERATURE EXTREMES: HIGHEST 70 ON DAYS 4,  
LOWEST 1 ON DAYS 11, 12.

TEMPERATURE: 4 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
18 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - JANUARY 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA						VEGETATIVE WETTING	
	WATER EQUI-VALENT (IN.)	DRY# DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MILES MEAN	AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	NEAN HRS	SOURCE	
1	.59	0	.00H	.00H	43	37	40	41	.000H	82	82	79	77	60	24	RAIN
2	.00	1	.00H	.00H	48	42	45	21	.015	79	73	80	83	79	24	RAIN
3	.16	2	.00H	.00H	53	43	48	118	.000	83	86	86	87	86	24	RAIN
4	1.07	0	.00H	.00H	OM	OM	OM	111	.000H	84	54	24	38	50	24	RAIN
5	.00	1	.00H	.00H	57	37	47	84	.000H	51	51	27	39	42	1	DEW
6	.00	2	.00H	.00H	56	37	47	28	.125	50	50	60	74	59	0	
7	.00	3	.00H	.00H	58	40	49	61	.065	83	90	87	83	86	19	FOG RAIN DEW
8	.83	0	.00H	.00H	62	39	51	72	.046	67	56	41	55	55	14	RAIN DEW
9	.00	1	.00H	.00H	54	36	45	34	.000H	54	63	29	41	47	13	RAIN DEW
10	.00	2	.00H	.00H	49	33	41	116	.000H	53	40	31	28	38	0	
11	.00	3	.00H	.00H	41	32	37	134	.000H	37	49	29	39	39	0	
12	.00	4	.00H	.00H	OM	OM	OM	95	.000H	45	41	68	72	57	1	RAIN
13	.32	0	.00H	.00H	OM	OM	OM	OM	.000H	72	78	78	78	77	24	RAIN
14	.85	0	.00H	.00H	OM	OM	OM	OM	.000H	78	75	58	63	69	24	RAIN
15	.03	1	.00H	.00H	OM	OM	OM	114	.000H	68	67	45	69	62	3	RAIN
16	.00	2	.00H	.00H	OM	OM	OM	51	.000H	70	76	56	61	66	8	RAIN
17	.00	3	.00H	.00H	OM	OM	OM	96	.000H	38	36	23	37	34	0	
18	.00	4	.00H	.00H	OM	OM	OM	28	.000H	42	40	43	63	47	0	
19	.00	5	.00H	.00H	41	32	37	65	.000H	77	86	84	87	84	9	FOG RAIN
20	.05	6	.00H	.00H	57	41	49	46	.000H	90	90	84	90	89	22	FOG RAIN
21	.01	7	.00H	.00H	65	57	61	51	.018	80	83	84	90	84	21	RAIN FOG
22	.25	0	.00H	.00H	62	55	59	30	.000H	86	86	83	80	84	23	RAIN FOG
23	.04	1	.00H	.00H	57	48	53	144	.000H	80	86	77	55	75	24	RAIN
24	.33	0	.00H	.00H	53	34	44	81	.000H	46	49	30	41	42	13	RAIN
25	.00	1	.00H	.00H	50	34	42	56	.120	61	66	35	52	54	1	DEW
26	.00	2	.00H	.00H	54	33	44	106	.161	42	44	29	33	37	0	
27	.00	3	.00H	.00H	44	OM	OM	75	.000H	37	38	29	34	35	0	
28	.00	4	.00H	.00H	46	33	40	82	.000H	41	59	65	68	58	1	RAIN
29	.01	5	.00H	.00H	45	36	41	28	.079	65	63	49	64	60	1	RAIN
30	.00	6	.00H	.00H	61	44	53	90	.099	71	76	43	57	62	7	DEW
31	.00	7	.00H	.00H	66	46	56	168	.206	69	67	74	61	68	9	RAIN
TOTAL	4.54						2226	.934								
MEAN			.000		53.1	39.5	46.3	77	.085	64	65	55	61	61	11	

NORMAL PRECIPITATION FOR MONTH IS 4.83 INCHES; 24 HOUR MAXIMUM = 1.07 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 13; OF 0.50 OR MORE 4; OF 1.00 OR MORE 1

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.



AGROCLIMATOLOGICAL DATA - JANUARY 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS			FRONTS	
	6PM TO 6AM		6AM TO 6PM		MAX	GUST	MINS. OF SUNSHINE	PERCENT OF POSSIBLE SUNSHINE	LANG-LEYS*	LANG-LEYS*	STATION	PRESSURE IN INCHES		MIXING RATIO**	D LIGHTNING	OBSERVED OR REPORTED	TIME OF PASS	TYPE OF FRONT		
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR. SPEED	HR. SPEED	SHINE	OF SUNSHINE	RAD.	RAD.	HAX	MIN	MEAN	MAX	NIN	S	ES	HAIL	HI-WIND	-AGE
1	V	1	V	1	6:00	8	510	84.6	62	OM	30.10	29.95	30.02							
2	NE	2	E	6	16:00	18	469	77.6	84	OM	30.18	30.08	30.13							
3	E	7	E	6	22:00	19	318	52.6	44	OM	30.04	29.78	29.91							
4	S	7	NW	11	3:00	32	558	92.2	365	OM	30.23	29.79	30.01							
5	W	3	SE	3	8:00	12	581	96.0	312	OM	30.32	30.15	30.23							
6	SE	2	SE	4	13:00	16	363	59.9	184	OM	30.18	30.03	30.11							
7	SE	2	SW	4	10:00	21	0	.0	42	OM	30.21	30.05	30.13							
8	N	7	N	4	1:00	18	466	76.6	292	OM	30.31	30.12	30.22							
9	N	4	NW	8	12:00	23	61	10.0	319	OM	30.12	29.97	30.04							
10	NW	5	NW	9	8:00	21	608	99.7	316	OM	30.36	30.03	30.19							
11	NW	6	N	6	10:00	16	529	86.7	328	OM	30.38	30.23	30.30							
12	NE	3	NE	4	18:00	16	0	.0	54	OM	30.28	29.92	30.10							
13	E	5	N	3	1:00	13	0	.0	44	OM	29.92	29.73	29.83							
14	N	4	NW	9	12:00	23	OM	.0M	117	OM	30.03	29.64	29.83							
15	W	4	SW	3	12:00	13	OM	.0M	249	OM	30.16	29.99	30.07							
16	S	3	NW	5	19:00	19	348	56.5	207	OM	30.21	29.99	30.10							
17	N	7	NE	4	5:00	19	548	88.8	334	OM	30.33	30.19	30.26							
18	E	2	E	4	15:00	11	1	.2	67	OM	30.23	30.09	30.16							
19	SE	3	SW	4	13:00	17	19	3.1	73	OM	30.16	30.09	30.12							
20	SW	3	SW	3	1:00	10	138	22.2	85	OM	30.23	30.15	30.19							
21	SW	4	SW	3	2:00	12	0	.0	59	OM	30.18	30.12	30.15							
22	V	2	E	7	19:00	21	0	.0	34	OM	30.23	30.11	30.17							
23	SE	8	W	6	8:00	27	0	.0	52	OM	30.11	29.96	30.03							
24	W	5	NW	7	12:00	21	581	92.8	349	OM	30.19	30.06	30.12							
25	V	0	SW	6	23:00	23	500	79.7	333	OM	30.18	30.02	30.10							
26	NW	6	NW	7	1:00	23	586	93.2	362	OM	30.33	30.12	30.22							
27	NE	4	SE	6	9:00	15	478	75.9	351	OM	30.40	30.28	30.34							
28	E	3	V	2	5:00	12	OM	.0M	102	OM	30.35	30.29	30.32							
29	NE	3	E	5	23:00	15	OM	.0M	255	OM	30.41	30.25	30.33							
30	E	5	SE	8	12:00	21	510	80.3	339	OM	30.25	29.97	30.11							
31	SE	7	S	9	8:00	28	232	36.5	84	OM	30.17	29.81	29.99							
TOTAL							8404		5898	0										
MEAN		4		5		18	311		190	0	30.22	30.03	30.12	.0	.0					

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTINETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)  
\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
JANUARY

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	57	34	46	74	1975	15	1977
2	57	34	46	79	1952	8	1928
3	57	34	46	77	1952	11	1919
4	56	35	46	76	1917	6	1919
5	56	35	46	76	1950	15	1959
6	56	35	46	76	1950	6	1924
7	57	35	46	77	1913	12	1970
8	57	35	46	75	1946	10	1970
9	57	35	46	76	1930	5	1970
10	57	35	46	77	1957	12	1970
11	57	35	46	79	1949	1	1982
12	57	35	46	81	1949	1	1982
13	57	35	46	75	1937	6	1918
14	57	35	46	78	1932	15	1981
15	57	35	46	75	1952	10	1948
16	57	35	46	79	1943	10	1972
17	57	35	46	79	1952	6	1977
18	57	35	46	77	1929	7	1977
19	57	35	46	78	1952	3	1977
20	57	35	46	79	1927	5	1977
21	57	35	46	81	1923	16	1924
22	57	35	46	78	1927	8	1961
23	57	35	46	78	1937	8	1961
24	57	35	46	78	1920	0	1963
25	57	35	46	78	1943	1	1963
26	58	35	47	79	1950	9	1940
27	58	35	47	78	1950	7	1940
28	58	35	47	78	1916	10	1940
29	58	35	47	79	1947	5	1966
30	58	35	47	80	1975	1	1966
31	58	35	47	82	1975	13	1909

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.

NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

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AGROCLIMATOLOGICAL DATA - FEBRUARY 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA										(IN DEGREES FARENHEIT)												SOIL TEMPERATURE DATA								
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES								
	MAX	MIN	MEAN	DFN*	BELOW 65	ABOVE 45	55		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN						
1	62	30	46	-1	19	1	0	11	61	28	61	23	45	OM	OM	OM	57	36	47	54	38	46	56	46	51						
2	57	30	44	-3	21	0	0	3	68	30	67	31	49	OM	OM	OM	56	36	46	53	38	46	53	44	49						
3	47	40	44	-4	21	0	0	15	47	40	48	40	44	OM	OM	OM	47	42	45	46	43	45	49	46	48						
4	55	41	48	0	17	3	0	5	58	41	58	42	50	OM	OM	OM	53	44	49	51	45	48	52	48	50						
5	50	39	45	-3	20	0	0	15	62	37	60	39	49	OM	OM	OM	55	42	49	53	42	48	53	46	50						
6	62	46	54	6	11	9	0	0	69	46	68	46	57	OM	OM	OM	54	44	49	52	44	48	53	47	50						
7	46	24	35	-13	30	0	0	23	48	23	48	24	36	OM	OM	OM	49	34	42	49	36	43	52	42	47						
8	55	25	40	-8	25	0	0	18	70	26	68	27	48	OM	OM	OM	54	34	44	51	36	44	51	41	46						
9	61	43	52	4	13	7	0	0	65	44	68	44	56	OM	OM	OM	52	41	47	50	41	46	51	43	47						
10	63	28	46	-2	19	1	0	12	64	27	64	27	46	OM	OM	OM	56	37	47	54	39	47	55	46	51						
11	55	28	42	-6	23	0	0	17	68	29	67	30	49	OM	OM	OM	56	37	47	53	39	46	53	45	49						
12	63	40	52	4	13	7	0	10	74	38	74	39	57	OM	OM	OM	58	41	50	55	41	48	55	45	50						
13	49	39	44	-4	21	0	0	12	51	39	51	40	46	OM	OM	OM	48	43	46	47	43	45	50	45	48						
14	51	33	42	-6	23	0	0	19	62	30	61	30	46	OM	OM	OM	55	36	46	52	38	45	53	44	49						
15	61	35	48	-1	17	3	0	1	74	36	75	36	56	OM	OM	OM	58	36	47	55	38	47	54	43	49						
16	61	53	57	8	8	12	2	0	62	53	62	53	58	OM	OM	OM	55	48	52	53	47	50	55	50	53						
17	67	59	63	14	2	18	8	0	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM						
18	66	44	55	6	10	10	0	1	74	41	73	42	58	OM	OM	OM	64	48	56	62	49	56	62	54	58						
19	73	48	61	12	4	16	6	0	83	49	84	49	67	OM	OM	OM	67	48	58	64	49	57	64	49	57						
20	68	40	54	5	11	9	0	6	80	36	80	37	59	OM	OM	OM	66	44	55	63	46	55	63	52	58						
21	68	41	55	6	10	10	0	3	80	38	82	39	61	OM	OM	OM	63	44	54	60	46	53	60	51	56						
22	68	40	54	4	11	9	0	8	78	35	77	35	56	OM	OM	OM	63	41	52	60	43	52	59	49	54						
23	64	37	51	1	14	6	0	9	75	32	73	33	53	OM	OM	OM	61	42	52	59	43	51	58	49	54						
24	73	39	56	6	9	11	1	0	83	43	82	43	63	OM	OM	OM	65	41	53	61	43	52	60	48	54						
25	73	48	61	11	4	16	6	0	82	49	82	49	66	OM	OM	OM	67	47	57	64	48	56	62	52	57						
26	62	44	53	3	12	8	0	1	74	44	73	45	59	OM	OM	OM	65	48	57	62	49	56	61	53	57						
27	44	33	39	-11	26	0	0	24	44	32	45	33	39	OM	OM	OM	48	38	43	49	39	44	53	44	49						
28	39	34	37	-14	28	0	0	24	41	34	42	35	39	OM	OM	OM	43	38	41	43	39	41	46	44	45						

TOTAL 442 156 23 237 1777 1000

MEAN 59.4 38.6 49.0 .5 15.8 5.6 .8 8.5 66.6 37.0 66.4 37.6 52.0 .0 .0 .0 56.9 41.1 49.0 54.6 42.3 48.5 55.3 46.9 51.1

TEMPERATURE EXTREMES: HIGHEST 73 ON DAYS 19, 24, 25.  
 LOWEST 24 ON DAYS 7.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 6 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - FEBRUARY 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA						VEGETATIVE WETTING	
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MILES MEAN	AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%)						SOURCE
									1 AM	7 AM	1 PM	7 PM	MEAN	HRS		
1	1.03	0	.00M	.00M	59	37	48	116	.202	61	66	39	51	54	2	RAIN
2	.34	0	.00M	.00M	56	37	47	72	.205	68	76	76	76	74	12	RAIN
3	3.45	0	.00M	.00M	46	41	44	109	.000M	76	79	83	83	80	24	RAIN
4	.05	1	.00M	.00M	54	44	49	53	.000M	79	73	60	67	70	17	RAIN FOG
5	.00	2	.00M	.00M	55	41	48	51	.067	67	65	72	83	72	0	
6	.33	0	.00M	.00M	55	42	49	33	.029	83	73	73	61	73	22	RAIN FOG
7	.01	1	.00M	.00M	50	33	42	77	.000M	60	57	27	39	46	3	RAIN
8	.00	2	.00M	.00M	53	33	43	35	.000M	42	45	40	57	46	0	
9	.01	3	.00M	.00M	55	40	48	75	.085	66	77	83	76	76	5	RAIN
10	.20	4	.00M	.00M	60	37	49	94	.011	69	63	34	55	55	13	RAIN
11	.00	5	.00M	.00M	59	37	48	44	.132	46	48	29	48	43	0	
12	.00	6	.00M	.00M	63	40	52	33	.113	53	70	76	76	69	1	RAIN
13	.32	0	.00M	.00M	47	42	45	64	.004	76	67	49	62	64	20	RAIN
14	.00	1	.00M	.00M	56	37	47	58	.078	59	59	49	62	57	0	
15	.00	2	.00M	.00M	62	37	50	70	.148	66	71	83	83	76	7	RAIN
16	.26	0	.00M	.00M	56	48	52	54	.002	86	83	OM	OM	OM	24	RAIN FOG
17	1.65	0	.00M	.00M	OM	OM	OM	75	.000M	OM	OM	62	74	OM	21	RAIN FOG
18	.00	1	.00M	.00M	75	62	69	50	.000M	83	83	53	67	72	14	DEW FOG
19	.00	2	.00M	.00M	75	54	65	52	.170	82	77	43	54	64	9	DEW
20	.00	3	.00M	.00M	69	44	57	53	.173	63	70	33	43	52	5	DEW
21	.00	4	.00M	.00M	66	44	55	44	.196	54	71	30	35	49	0	
22	.00	5	.00M	.00M	66	40	53	91	.241	49	59	31	35	44	0	
23	.00	6	.00M	.00M	63	41	52	58	.190	47	62	31	51	48	0	
24	.00	7	.00M	.00M	68	42	55	37	.192	56	68	40	60	56	0	
25	.00	8	.00M	.00M	72	50	61	81	.211	46	68	37	39	48	3	DEW
26	.00	9	.00M	.00M	66	44	55	105	.218	49	53	64	69	59	0	
27	1.18	0	.00M	.00M	44	32	38	140	.017	72	75	76	79	76	21	RAIN
28	.01	1	.00M	.00M	39	33	36	56	.000M	79	76	70	70	74	21	RAIN FOG
TOTAL	8.84							1880	2.684							
MEAN			.000		58.8	41.2	50.0	67	.128	64	68	53	61	62	9	

NORMAL PRECIPITATION FOR MONTH IS 5.32 INCHES; 24 HOUR MAXIMUM = 3.45 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 13; OF 0.50 OR MORE 4; OF 1.00 OR MORE 4

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.

AGROCLIMATOLOGICAL DATA - FEBRUARY 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS	
	6PM TO 6AM	6AM TO 6PM	MAX GUST		MINS. OF SUN-	PERCENT OF POSSIBLE SUNSHINE	LANG-LEYS* SOLAR RAD.	LANG-LEYS* NET RAD.	STATION PRESSURE IN INCHES	MIXING RATIO**	D LIGHTNING STROKES	OBSERVED OR REPORTED HAIL HI-WIND	TIME OF PASS OF FRONT				
	DIR. SPEED	DIR. SPEED	HR. SPEED						MAX	MIN	MEAN	MAX	MIN	S	ES		
1	NW	6	NE	5	9:00	16	609	95.5	336	OM	30.34	30.18	30.26				
2	E	5	NE	6	22:00	25	OM	.OM	40	OM	30.23	29.99	30.11				
3	E	8	SW	4	3:00	23	OM	.OM	67	OM	30.14	29.87	30.00				
4	NW	3	N	5	2:00	15	OM	.OM	217	OM	30.32	30.14	30.23				
5	NE	4	N	3	1:00	11	13	2.0	120	OM	30.30	30.20	30.25				
6	NW	3	NW	5	16:00	16	OM	.OM	82	OM	30.36	30.21	30.28				
7	NW	5	M	4	5:00	15	OM	.OM	378	OM	30.42	30.28	30.35				
8	M	3	SE	3	16:00	11	117	18.0	159	OM	30.31	30.03	30.17				
9	SE	4	SW	5	15:00	19	0	.0	48	OM	30.11	29.91	30.01				
10	NW	7	NE	4	1:00	15	OM	.OM	399	OM	30.20	30.10	30.15				
11	NE	4	NE	3	4:00	13	510	77.9	323	OM	30.28	30.16	30.22				
12	E	4	NE	4	14:00	14	2	.3	59	OM	30.24	30.06	30.15				
13	N	4	NW	5	7:00	18	396	60.2	293	OM	30.30	30.11	30.20				
14	NE	4	SE	5	16:00	13	560	85.0	395	OM	30.32	30.21	30.26				
15	SE	3	SE	4	9:00	15	0	.0	48	OM	30.22	30.07	30.14				
16	SE	3	S	4	0:00M	OM	190	28.7	63	OM	30.07	29.76	29.91				
17	S	2	SW	6	13:00	15	163	24.5	241	OM	29.86	29.72	29.79				
18	V	1	SE	3	15:00	12	610	91.5	395	OM	30.07	29.86	29.96				
19	N	3	NW	5	12:00	12	518	77.4	415	OM	30.20	30.06	30.13				
20	N	3	SW	4	13:00	13	473	70.6	399	OM	30.14	29.88	30.01				
21	W	2	NW	8	13:00	21	625	93.0	440	OM	29.94	29.83	29.88				
22	NW	2	NW	6	10:00	16	641	95.1	449	OM	30.18	29.94	30.06				
23	N	3	SW	4	16:00	13	633	93.5	431	OM	30.26	30.15	30.20				
24	V	1	SW	7	11:00	21	620	91.3	434	OM	30.19	30.08	30.13				
25	NW	4	N	6	21:00	21	358	52.6	384	OM	30.27	30.11	30.19				
26	NE	8	NE	10	4:00	25	0	.0	56	OM	30.38	30.17	30.27				
27	E	8	NE	5	1:00	21	0	.0	62	OM	30.17	30.09	30.13				
28	N	4	NE	4	1:00	10	0	.0	90	OM	30.29	30.16	30.22				
TOTAL							7038		6823	0							
MEAN		4		5		16	320		244	0	30.22	30.05	30.13	.0	.0		

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)

\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
FEBRUARY

DAY	DAILY NORMAL			RECORD TEMPERATURES	
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR
1	58	35	47	78 1957	17 1936
2	58	35	47	80 1957	10 1951
3	59	36	48	76 1950	9 1951
4	59	36	48	80 1927	10 1958
5	59	36	48	81 1957	19 1947
6	59	36	48	80 1957	17 1978
7	59	36	48	78 1957	18 1962
8	59	36	48	80 1957	18 1951
9	59	36	48	80 1957	11 1933
10	60	36	48	79 1939	15 1947
11	60	36	48	79 1932	17 1973
12	60	36	48	79 1922	12 1981
13	60	36	48	79 1922	13 1981
14	60	36	48	82 1962	15 1958
15	60	37	49	80 1959	13 1943
16	60	37	49	80 1921	16 1958
17	61	37	49	81 1927	8 1958
18	61	37	49	78 1956	8 1958
19	61	37	49	77 1956	12 1958
20	61	37	49	79 1956	18 1958
21	61	37	49	77 1922	17 1958
22	61	38	50	78 1976	12 1963
23	62	38	50	79 1927	14 1963
24	62	38	50	78 1980	21 1947
25	62	38	50	81 1918	16 1967
26	62	38	50	80 1944	17 1967
27	62	38	50	81 1945	12 1963
28	63	39	51	82 1962	18 1963

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.

NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

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AGROCLIMATOLOGICAL DATA - MARCH 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA										SOIL TEMPERATURE DATA														
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES		
	MAX	MIN	MEAN	DFN*	BELOW 65	ABOVE 45	55		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	45	37	41	-10	24	0	0	24	47	37	48	38	43	OM	OM	OM	46	40	43	45	41	43	48	45	47
2	57	34	46	-5	19	1	0	15	70	29	68	31	50	OM	OM	OM	58	38	48	54	40	47	54	45	50
3	65	36	51	0	14	6	0	7	76	32	75	34	55	OM	OM	OM	62	38	50	59	40	49	57	45	51
4	62	37	50	-1	15	5	0	3	71	39	72	41	57	OM	OM	OM	61	43	52	57	43	50	57	48	53
5	72	48	60	8	5	15	5	0	83	48	84	49	67	OM	OM	OM	65	45	55	62	46	54	61	50	56
6	74	58	66	14	0	21	11	0	88	57	88	57	73	OM	OM	OM	68	56	62	65	56	61	65	58	62
7	69	37	53	1	12	8	0	6	82	37	82	38	60	OM	OM	OM	66	46	56	64	49	57	64	55	60
8	50	26	38	-14	27	0	0	20	60	24	59	25	42	OM	OM	OM	56	35	46	54	38	46	55	44	50
9	60	29	45	-8	20	0	0	15	73	28	72	29	51	OM	OM	OM	60	35	48	57	38	48	56	44	50
10	64	37	51	-2	14	6	0	3	77	36	77	38	58	OM	OM	OM	62	39	51	59	41	50	58	46	52
11	69	45	57	4	8	12	2	0	79	44	79	45	62	OM	OM	OM	66	44	55	62	45	54	60	50	55
12	71	49	60	7	5	15	5	0	76	46	78	48	63	OM	OM	OM	64	50	57	62	51	57	62	54	58
13	77	54	66	12	0	21	11	0	87	53	87	53	70	OM	OM	OM	70	54	62	67	52	60	66	56	61
14	74	58	66	12	0	21	11	0	82	59	81	59	70	OM	OM	OM	67	56	62	65	56	61	66	59	63
15	81	61	71	17	0	26	16	0	92	59	92	59	76	OM	OM	OM	72	58	65	70	58	64	70	62	66
16	79	64	72	18	0	27	17	OM	84	61	85	61	73	OM	OM	OM	73	61	67	70	61	66	70	64	67
17	80	65	73	18	0	28	18	OM	84	66	85	66	76	OM	OM	OM	74	62	68	71	61	66	71	65	68
18	76	62	69	14	0	24	14	OM	81	60	82	61	72	OM	OM	OM	71	60	66	69	61	65	70	65	68
19	86	62	74	19	0	29	19	OM	98	58	102	59	81	OM	OM	OM	80	61	71	76	61	69	75	65	70
20	86	65	76	20	0	31	21	OM	94	60	96	61	79	OM	OM	OM	80	63	72	77	62	70	75	66	71
21	83	61	72	16	0	27	17	OM	91	59	91	60	76	OM	OM	OM	79	61	70	75	62	69	74	66	70
22	80	52	66	10	0	21	11	OM	94	50	91	51	71	OM	OM	OM	79	56	68	75	57	66	73	63	68
23	63	44	54	-2	11	9	0	OM	67	42	67	43	55	OM	OM	OM	63	47	55	62	49	56	65	56	61
24	73	47	60	3	5	15	5	OM	88	52	85	53	69	OM	OM	OM	74	50	62	70	49	60	68	56	62
25	62	54	58	1	7	13	3	OM	65	55	67	56	62	OM	OM	OM	63	57	60	62	57	60	64	61	63
26	74	37	56	-1	9	11	1	OM	84	36	86	37	62	OM	OM	OM	73	47	60	69	49	59	69	57	63
27	59	36	48	-10	17	3	0	OM	75	36	71	36	54	OM	OM	OM	69	44	57	66	46	56	65	53	59
28	56	36	46	-12	19	1	0	OM	69	36	69	37	53	OM	OM	OM	65	43	54	62	45	54	61	51	56
29	54	40	47	-12	18	2	0	OM	67	45	69	46	58	OM	OM	OM	60	43	52	57	45	51	57	50	54
30	58	48	53	-6	12	8	0	OM	65	49	67	49	58	OM	OM	OM	58	48	53	56	48	52	57	52	55
31	74	57	66	7	0	21	11	OM	78	54	79	55	67	OM	OM	OM	71	53	62	67	52	60	66	55	61

TOTAL 261 427 198 93 2427 1447

MEAN 68.8 47.6 58.2 3.7 8.4 13.8 6.4 6.2 78.3 46.7 78.5 47.6 63.0 .0 .0 .0 66.9 49.5 58.2 64.0 50.3 57.2 63.8 55.0 59.4

TEMPERATURE EXTREMES: HIGHEST 86 ON DAYS 19, 20,  
LOWEST 26 ON DAYS 8,

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
2 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - MARCH 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING	
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MEAN	MILES AIR MOVEMENT	INCHES EVAP.	1 AM	7 AM	1 PM	7 PM	MEAN HRS	SOURCE
1	.00	2	.00H	.00H	44	38	41	53	.029	70	73	52	56	63	2 FOG
2	.00	3	.00H	.00H	58	39	49	41	.088	70	76	36	58	60	12 DEW
3	.00	4	.00H	.00H	66	39	53	36	.143	65	76	47	68	64	8 DEW
4	.00	5	.00H	.00H	63	44	54	36	.112	71	71	49	67	65	6 DEW
5	.00	6	.00H	.00H	70	48	59	66	.170	80	80	55	70	71	8 DEW
6	.00	7	.00H	.00H	74	58	66	63	.124	77	77	54	77	72	1 DEW
7	.88	0	.00H	.00H	69	42	56	98	.060	73	67	51	46	59	16 RAIN
8	.00	1	.00H	.00H	51	34	43	114	.091	60	OM	28	45	OM	0
9	.00	2	.00H	.00H	60	34	47	30	.154	59	64	30	48	50	4 DEW
10	.00	3	.00H	.00H	65	39	52	31	.172	47	55	37	59	50	0
11	.00	4	.00H	.00H	70	45	59	57	.194	68	71	48	62	62	2 DEW
12	.00	5	.00H	.00H	69	53	61	44	.130	71	74	41	65	63	8 DEW
13	.00	6	.00H	.00H	76	55	66	50	.192	69	77	59	73	70	7 DEW
14	.00	7	.00H	.00H	72	58	65	50	.088	78	69	52	57	64	10 DEW
15	.00	8	.00H	.00H	78	61	70	66	.178	72	78	57	59	67	8 DEW
16	.00	9	.00H	.00H	78	63	71	85	.144	75	78	50	59	66	5 DEW
17	.00	10	.00H	.00H	78	64	71	89	.180	75	78	61	78	73	0
18	.04	11	.00H	.00H	75	62	69	40	.049	81	78	61	78	75	18 RAIN FOG
19	.00	12	.00H	.00H	86	62	74	27	.161	75	78	47	55	64	11 DEW
20	.00	13	.00H	.00H	79	63	71	76	.156	70	70	50	56	62	3 DEW
21	.00	14	.00H	.00H	80	62	71	63	.179	67	72	52	59	63	8 DEW
22	.50	0	.00H	.00H	80	59	67	65	.216	68	56	37	52	53	14 RAIN
23	.00	1	.00H	.00H	61	44	53	49	.122	58	47	27	42	44	5 DEW
24	.06	2	.00H	.00H	74	46	60	33	.195	55	69	69	66	66	11 RAIN
25	.36	0	.00H	.00H	61	56	59	43	.026	72	72	51	60	64	3 RAIN DEW
26	.00	1	.00H	.00H	74	42	58	66	.108	54	42	30	35	40	2 DEW
27	.00	2	.00H	.00H	65	39	52	81	.236	39	34	25	30	32	0
28	.00	3	.00H	.00H	60	38	49	94	.000H	30	34	28	30	31	0
29	.00	4	.00H	.00H	54	39	47	89	.000H	30	37	61	58	47	0
30	.00	5	.00H	.00H	55	42	49	98	.087	61	57	45	58	55	0
31	.00	6	.00H	.00H	73	51	62	94	.155	64	64	55	67	63	4 RAIN
TOTAL	1.84							1927	3.939						
MEAN			.000		68.3	48.8	59.6	62	.136	65	66	47	58	59	6

NORMAL PRECIPITATION FOR MONTH IS 6.93 INCHES; 24 HOUR MAXIMUM = .88 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 51 OF 0.50 OR MORE 21 OF 1.00 OR MORE 0

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

H = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.



AGROCLIMATOLOGICAL DATA - MARCH 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS	
	4PM TO 6AM		6AM TO 6PM		MINS. OF SUNSHINE	PERCENT OF POSSIBLE SUNSHINE	LANG-LEYS* SOLAR RAD.	LANG-LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHTNING STROKES	OBSERVED OR REPORTED HAIL	TIME OF PASS-AGE	TYPE OF FRONT
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED					HR.	SPEED	MAX	MIN	MEAN				
1	NE	3	N	6	13:00	14	143	20.8	300	OM	30.36	30.24	30.30				
2	V	1	SW	4	15:00	14	591	85.5	476	OM	30.25	30.04	30.14				
3	V	1	SW	3	12:00	13	86	12.4	328	OM	30.07	29.93	30.00				
4	V	2	SW	6	13:00	19	129	18.6	369	OM	29.98	29.85	29.91				
5	SW	2	S	3	23:00	17	37	5.3	265	OM	30.01	29.89	29.95				
6	S	5	S	4	3:00	17	24	3.4	203	OM	29.94	29.69	29.81				
7	NW	7	NW	9	10:00	23	147	21.0	264	OM	30.25	29.72	29.98				
8	NW	4	NE	4	8:00	16	522	74.4	500	OM	30.41	30.24	30.32				
9	V	1	S	3	16:00	11	269	38.2	443	OM	30.49	30.32	30.40				
10	SE	2	SW	6	12:00	19	425	60.1	462	OM	30.39	30.16	30.24				
11	V	1	SW	4	12:00	15	79	11.1	317	OM	30.19	30.09	30.14				
12	V	1	SW	4	12:00	15	416	58.5	427	OM	30.11	30.00	30.05				
13	V	2	SW	5	13:00	16	25	3.5	213	OM	30.12	30.03	30.08				
14	N	2	E	4	12:00	12	274	38.3	342	OM	30.13	30.00	30.06				
15	S	3	SW	7	9:00	18	148	20.6	270	OM	30.03	29.92	29.97				
16	S	3	SW	7	12:00	18	113	15.7	295	OM	30.06	29.96	30.01				
17	SW	4	SW	5	11:00	15	0	.0	135	OM	30.07	29.97	30.02				
18	V	1	SW	3	11:00	16	482	66.7	430	OM	30.17	30.07	30.12				
19	V	1	SW	6	12:00	19	438	60.4	427	OM	30.09	29.95	30.02				
20	SW	4	SW	7	11:00	18	238	32.7	326	OM	30.01	29.91	29.96				
21	S	2	SW	5	15:00	31	111	15.2	301	OM	30.05	29.89	29.97				
22	N	4	N	5	9:00	16	129	17.6	214	OM	30.07	29.98	30.02				
23	N	3	NE	4	7:00	16	459	62.5	520	OM	30.03	29.89	29.96				
24	V	1	E	3	2:00	15	3	.4	116	OM	29.91	29.86	29.88				
25	NE	3	SW	3	22:00	17	101	13.7	273	OM	29.98	29.87	29.92				
26	NW	6	NW	7	3:00	21	702	94.9	574	OM	30.17	29.97	30.07				
27	N	5	NE	8	11:00	19	376	50.7	471	OM	30.29	30.15	30.22				
28	NE	7	NE	7	10:00	21	262	35.3	343	OM	30.37	30.28	30.33				
29	NE	5	NE	7	11:00	19	4	.5	200	OM	30.36	30.24	30.30				
30	NE	6	SE	8	12:00	19	217	29.0	361	OM	30.28	30.18	30.23				
31	SE	3	SW	4	6:00	17	110	14.7	262	OM	30.21	30.14	30.17				
TOTAL							7060		10427	0							
MEAN		3		5		17	228		336	0	30.15	30.01	30.08	.0	.0		

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.

WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)

\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.

WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## CLIMATOLOGICAL DATA

## AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
MARCH

DAY	DAILY NORMAL			RECORD TEMPERATURES	
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR
1	63	39	51	81 1932	20 1941
2	63	39	51	82 1932	18 1980
3	63	39	51	82 1918	12 1980
4	63	39	51	81 1910	13 1943
5	64	40	52	84 1976	17 1960
6	64	40	52	82 1961	16 1960
7	64	40	52	83 1911	23 1920
8	64	40	52	84 1925	20 1920
9	65	41	53	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	66	41	54	89 1923	23 1932
14	66	42	54	84 1963	18 1926
15	66	42	54	82 1955	25 1934
16	66	42	54	84 1945	25 1916
17	67	42	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 1939	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	28 1956
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	71	46	59	85 1945	26 1955
30	71	46	59	86 1946	27 1964
31	71	47	59	84 1929	26 1950

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
 NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

AGROCLIMATOLOGICAL DATA - APRIL 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA										(IN DEGREES FARENHEIT)										SOIL TEMPERATURE DATA									
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES							
	MAX	MIN	MEAN	DFN#	BELOW	ABOVE	55		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN					
					65	45																								
1	78	54	66	6	0	21	11	OM	87	50	86	52	69	OM	OM	OM	73	56	65	69	57	63	68	60	64					
2	65	59	72	12	0	27	17	OM	98	58	99	59	79	OM	OM	OM	83	61	72	78	59	69	75	61	68					
3	80	54	67	7	0	22	12	OM	87	55	89	55	72	OM	OM	OM	78	61	70	74	61	68	73	66	70					
4	75	43	59	-2	6	14	4	OM	83	39	83	38	61	OM	OM	OM	75	49	62	72	51	62	72	58	65					
5	71	50	61	0	4	16	6	OM	79	50	78	50	64	OM	OM	OM	68	50	59	65	51	58	65	58	62					
6	57	39	48	-13	17	3	0	OM	61	40	61	40	51	OM	OM	OM	58	47	53	57	49	53	60	56	58					
7	57	32	45	-17	20	0	0	OM	70	29	70	31	51	OM	OM	OM	65	39	52	62	43	53	63	50	57					
8	67	37	52	-10	13	7	0	OM	79	45	81	44	63	OM	OM	OM	68	41	55	64	43	54	63	50	57					
9	54	46	50	-12	15	5	0	OM	56	44	56	45	51	OM	OM	OM	55	48	52	55	49	52	58	54	56					
10	66	43	55	-8	10	10	0	OM	80	42	77	43	60	OM	OM	OM	69	48	59	66	50	58	65	53	59					
11	65	44	55	-8	10	10	0	OM	84	42	82	43	63	OM	OM	OM	71	47	59	66	49	58	65	53	59					
12	68	42	55	-8	10	10	0	OM	85	37	82	38	60	OM	OM	OM	72	47	60	69	49	59	67	55	61					
13	74	51	63	0	2	18	8	OM	84	46	86	47	67	OM	OM	OM	74	50	62	71	50	61	69	55	62					
14	73	56	65	1	0	20	10	OM	82	54	80	56	68	OM	OM	OM	69	54	62	66	54	60	66	58	62					
15	77	61	69	5	0	24	14	OM	85	61	81	62	72	OM	OM	OM	71	59	65	68	59	64	68	62	65					
16	78	63	71	7	0	26	16	OM	89	63	87	63	75	OM	OM	OM	77	62	70	74	62	68	73	64	69					
17	83	60	72	7	0	27	17	OM	95	58	95	59	77	OM	OM	OM	81	62	72	77	63	70	76	67	72					
18	80	47	64	-1	1	19	9	OM	87	45	85	46	66	OM	OM	OM	76	52	64	73	55	64	73	62	68					
19	75	52	64	-1	1	19	9	OM	89	51	88	53	71	OM	OM	OM	79	54	67	75	55	65	74	61	68					
20	59	55	57	-8	8	12	2	OM	61	55	62	55	59	OM	OM	OM	60	56	58	60	57	59	64	61	63					
21	77	57	67	1	0	22	12	OM	92	58	89	59	74	OM	OM	OM	74	57	66	70	57	64	70	61	66					
22	68	49	59	-7	6	14	4	OM	78	48	74	48	61	OM	OM	OM	70	53	62	67	54	61	69	60	65					
23	64	45	55	-11	10	10	0	OM	75	43	74	43	59	OM	OM	OM	67	47	57	63	49	56	65	56	61					
24	69	45	57	-9	8	12	2	OM	82	39	83	40	62	OM	OM	OM	73	48	61	69	49	59	68	56	62					
25	71	55	63	-4	2	18	8	OM	83	57	87	58	73	OM	OM	OM	72	51	62	69	51	60	68	57	63					
26	72	58	65	-2	0	20	10	OM	84	59	83	60	72	OM	OM	OM	70	59	65	64	58	61	67	61	64					
27	80	56	68	1	0	23	13	OM	91	53	91	55	73	OM	OM	OM	77	59	68	74	59	67	72	63	68					
28	72	52	62	-5	3	17	7	OM	82	50	85	51	68	OM	OM	OM	71	55	63	69	56	63	69	61	65					
29	78	57	68	1	0	23	13	OM	87	55	93	56	75	OM	OM	OM	77	57	67	73	57	65	72	61	67					
30	70	53	62	-6	3	17	7	OM	75	51	80	53	67	OM	OM	OM	70	55	63	68	56	62	68	61	65					

TOTAL 149 486 211 0 2455 1477  
 MEAN 71.4 50.5 61.0 -2.7 5.0 16.2 7.0 .0 81.8 49.2 81.6 50.1 65.8 .0 .0 .0 71.4 52.8 62.1 68.2 53.7 61.0 68.2 58.7 63.4

TEMPERATURE EXTREMES: HIGHEST 85 ON DAYS 2.  
 LOWEST 32 ON DAYS 7.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 1 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

11 = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - APRIL 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MEAN	MILES MOVEMENT	AIR INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE
1	.00	6	.00H	.00M	76	59	68	26	.083	69	72	38	51	59	13	DEW
2	.00	7	.00H	.00M	88	61	75	31	.230	38	53	38	45	44	0	
3	.52	0	.00H	.00M	77	59	68	139	.318	56	61	22	30	42	5	RAIN
4	.00	1	.00H	.00M	73	44	59	91	.325	40	39	27	40	37	0	
5	.30	1	.00H	.00M	67	44	56	40	.116	43	61	64	66	59	11	RAIN
6	2.87	0	.00H	.00M	55	42	49	82	.000M	66	42	31	47	47	8	RAIN
7	.00	1	.00H	.00M	64	38	51	97	.223	61	54	18	45	45	0	
8	.05	2	.00H	.00M	69	38	54	65	.226	48	86	93	96	81	6	RAIN
9	.14	3	.00H	.00M	53	45	49	71	.007	96	83	35	43	64	0	
10	.00	4	.00H	.00M	71	45	58	85	.254	46	62	30	56	49	0	
11	.00	4	.00H	.00M	70	40	55	53	.217	44	48	25	36	38	0	
12	.00	5	.00H	.00M	73	44	59	45	.194	52	72	24	41	47	1	DEW
13	.00	6	.00H	.00M	76	47	62	75	.298	59	77	65	70	68	0	
14	.00	7	.00H	.00M	70	52	61	42	.089	90	96	81	96	91	8	DEW
15	.20	8	.00H	.00M	71	60	66	21	.058	96	96	76	87	89	16	RAIN
16	.02	9	.00H	.00M	83	63	73	69	.142	93	93	48	78	78	8	RAIN
17	.00	10	.00H	.00M	84	64	74	62	.189	90	93	64	100	87	0	
18	.35	0	.00H	.00M	78	49	64	65	.148	77	68	38	72	64	0	
19	.00	1	.00H	.00M	82	50	66	51	.195	64	83	93	90	83	0	
20	1.56	0	.00H	.00M	57	54	56	81	.145	96	96	75	87	89	0	
21	.19	1	.00H	.00M	76	54	65	43	.095	96	93	90	86	91	14	RAIN
22	.07	2	.00H	.00M	69	51	60	48	.096	74	59	38	43	54	8	RAIN DEW
23	.00	3	.00H	.00M	63	44	54	72	.194	44	44	24	52	41	0	
24	.00	4	.00H	.00M	73	45	59	63	.254	42	43	43	60	47	0	
25	.93	0	.00H	.00M	71	48	60	84	.000H	86	96	90	97	92	11	RAIN
26	1.56	0	.00H	.00M	70	49	60	66	.000M	95	90	64	90	85	17	DEW
27	.28	0	.00H	.00M	81	58	70	49	.266	96	93	65	78	83	16	RAIN
28	.00	1	.00H	.00M	72	53	63	0M	.126	86	83	51	65	71	13	DEW
29	.00	2	.00H	.00M	80	54	67	0M	.182	67	83	52	57	65	0	
30	.00	3	.00H	.00M	70	52	61	80	.190	57	64	42	55	55	0	
TOTAL	9.04							1796	4.860							
MEAN			.000		72.1	50.2	61.1	64	.180	69	73	51	65	65	5	

NORMAL PRECIPITATION FOR MONTH IS 5.21 INCHES; 24 HOUR MAXIMUM = 2.87 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 14; OF 0.50 OR MORE 5; OF 1.00 OR MORE 3

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.

AGROCLIMATOLOGICAL DATA - APRIL 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS		
	6PM TO 6AM		6AM TO 6PM		MAX GUST	MINS. OF SUN-SHINE	PERCENT OF POSSIBLE SUNSHINE	LANG-LEYS* SOLAR RAD.	LANG-LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHTNING STROKES	OBSERVED OR REPORTED HAIL HI-WIND	TIME OF PASS OF FRONT	TYPE OF FRONT
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED						MAX	MIN	MEAN	MAX	MIN				
1	V	0	W	3	16:00	12	521	69.3	537	OM	30.21	30.07	30.14					
2	NE	2	SE	6	15:00	21	169	25.1	335	OM	30.08	29.92	30.00					
3	S	9	W	10	6:00	34	600	79.4	533	OM	30.05	29.79	29.92					
4	NW	2	N	3	9:00	17	290	38.3	326	OM	30.13	29.91	30.02					
5	E	4	E	5	10:00	18	0	.0	77	OM	29.94	29.70	29.82					
6	NW	6	NW	8	3:00	23	717	94.1	607	OM	30.15	29.75	29.95					
7	NE	6	NE	4	3:00	17	566	74.2	565	OM	30.22	30.02	30.12					
8	SE	4	E	5	17:00	16	0	.0	64	OM	30.03	29.79	29.91					
9	NW	4	NW	7	16:00	21	159	20.7	601	OM	30.05	29.81	29.93					
10	N	5	NE	4	5:00	13	266	34.5	473	OM	30.16	30.03	30.09					
11	N	5	NW	6	11:00	25	724	93.9	605	OM	30.14	30.05	30.09					
12	V	1	S	6	12:00	18	713	92.1	607	OM	30.18	30.03	30.11					
13	S	3	SW	4	10:00	15	125	16.1	276	OM	30.06	29.95	30.00					
14	V	2	S	2	17:00	9	22	2.8	167	OM	30.00	29.95	29.97					
15	V	1	S	4	13:00	16	512	65.7	411	OM	30.05	29.96	30.00					
16	E	4	SE	5	2:00	16	572	73.1	461	OM	30.10	30.01	30.05					
17	SE	2	SW	5	15:00	25	266	36.5	242	OM	30.13	30.04	30.08					
18	N	5	NE	4	1:00	17	738	94.0	623	OM	30.22	30.09	30.15					
19	E	3	E	5	14:00	17	22	2.8	67	OM	30.14	30.00	30.07					
20	E	5	SW	3	2:00	27	376	47.7	297	OM	30.17	29.94	30.05					
21	NW	2	NW	3	11:00	17	467	59.1	230	OM	30.26	30.09	30.17					
22	N	4	NW	5	17:00	16	521	65.8	293	OM	30.33	30.22	30.27					
23	N	6	NE	6	9:00	18	719	90.6	652	OM	30.42	30.28	30.35					
24	E	3	SE	6	11:00	17	598	75.2	489	OM	30.29	30.11	30.20					
25	E	3	SE	6	14:00	18	90	11.3	101	OM	30.11	29.83	29.97					
26	V	2	SW	4	1:00	26	192	24.0	392	OM	29.94	29.85	29.89					
27	V	2	NW	5	16:00	16	162	20.2	274	OM	30.05	29.91	29.98					
28	N	5	N	3	2:00	16	251	31.3	514	OM	30.10	30.00	30.05					
29	NE	3	E	7	11:00	19	3	.4	309	OM	30.15	30.03	30.09					
30	E	4	E	5	8:00	18	456	56.5	563	OM	30.22	30.14	30.18					
TOTAL							10857	11696	0									
MEAN	4		5		19	362		390	0	30.14	29.98	30.06	.0	.0				

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)

\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
APRIL

DAY	DAILY NORMAL			RECORD TEMPERATURES	
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR
1	72	47	60	86 1974	29 1923
2	72	47	60	85 1982	30 1961
3	72	47	60	86 1945	32 1962
4	73	48	61	87 1934	30 1951
5	73	48	61	87 1934	31 1944
6	73	48	61	86 1978	29 1952
7	74	49	62	87 1967	29 1950
8	74	49	62	89 1919	33 1950
9	74	49	62	92 1927	35 1916
10	75	50	63	86 1978	32 1938
11	75	50	63	86 1930	28 1960
12	75	50	63	86 1930	33 1918
13	76	50	63	86 1945	27 1940
14	76	51	64	88 1945	30 1962
15	76	51	64	88 1972	31 1943
16	77	51	64	91 1925	29 1962
17	77	52	65	89 1914	31 1949
18	77	52	65	91 1955	34 1962
19	78	52	65	89 1955	35 1921
20	78	52	65	88 1927	32 1953
21	78	53	66	89 1946	32 1953
22	79	53	66	88 1915	38 1953
23	79	53	66	89 1925	38 1927
24	79	53	66	92 1925	38 1959
25	79	54	67	88 1960	34 1910
26	80	54	67	90 1924	36 1910
27	80	54	67	89 1915	38 1978
28	80	54	67	91 1922	40 1928
29	80	54	67	90 1943	40 1928
30	81	55	68	94 1942	43 1925

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
 NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

AGROCLIMATOLOGICAL DATA - MAY 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA											(IN DEGREES FARENHEIT)											SOIL TEMPERATURE DATA								
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES								
	MAX	MIN	NEAN	DFN*	BELOW		ABOVE		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN						
					65	45	55																								
1	74	52	63	-5	2	18	8	OM	86	48	90	50	70	OM	OM	OM	78	55	67	74	56	65	72	61	67						
2	77	53	65	-3	0	20	10	OM	94	48	95	52	74	OM	OM	OM	81	58	70	77	57	67	74	61	68						
3	79	55	67	-1	0	22	12	OM	92	49	97	52	75	OM	OM	OM	78	57	68	73	58	66	72	63	68						
4	84	55	70	1	0	25	15	OM	93	49	96	51	74	OM	OM	OM	82	57	70	77	59	68	76	63	70						
5	85	55	70	1	0	25	15	OM	94	50	96	51	74	OM	OM	OM	85	59	72	81	59	70	78	64	71						
6	85	55	70	1	0	25	15	OM	94	51	98	54	76	OM	OM	OM	86	61	74	82	62	72	79	66	73						
7	82	56	69	0	0	24	14	OM	94	52	97	55	76	OM	OM	OM	87	62	75	82	63	73	80	68	74						
8	72	55	64	-6	1	19	9	OM	78	52	80	54	67	OM	OM	OM	71	59	65	69	60	65	72	65	69						
9	75	52	64	-6	1	19	9	OM	87	48	88	51	70	OM	OM	OM	77	56	67	74	57	66	73	63	68						
10	80	53	67	-3	0	22	12	OM	93	47	93	50	72	OM	OM	OM	82	58	70	79	58	69	76	63	70						
11	84	55	70	0	0	25	15	OM	98	49	97	52	75	OM	OM	OM	86	60	73	82	60	71	79	63	71						
12	86	60	73	3	0	28	18	OM	94	53	99	56	78	OM	OM	OM	89	62	76	84	62	73	81	67	74						
13	83	60	74	3	0	29	19	OM	97	54	103	57	80	OM	OM	OM	90	62	76	85	64	75	82	68	75						
14	86	56	71	0	0	26	16	OM	93	50	98	53	76	OM	OM	OM	91	63	77	86	65	76	84	68	76						
15	84	60	72	1	0	27	17	OM	95	57	100	60	80	OM	OM	OM	90	66	78	86	66	76	84	71	78						
16	85	59	72	1	0	27	17	OM	98	54	101	57	79	OM	OM	OM	92	65	79	87	67	77	85	71	78						
17	89	61	75	3	0	30	20	OM	99	57	106	60	83	OM	OM	OM	95	68	82	90	68	79	88	73	81						
18	86	61	74	2	0	29	19	OM	98	55	100	59	80	OM	OM	OM	88	66	77	85	68	77	84	74	79						
19	87	65	76	4	0	31	21	OM	98	63	102	66	84	OM	OM	OM	91	69	80	87	69	78	86	74	80						
20	87	60	74	2	0	29	19	OM	96	57	103	59	81	OM	OM	OM	93	67	80	88	69	79	86	75	81						
21	86	62	74	1	0	29	19	OM	99	59	105	62	84	OM	OM	OM	94	67	81	89	69	79	87	74	81						
22	89	63	76	3	0	31	21	OM	97	61	102	63	83	OM	OM	OM	94	68	81	87	69	78	85	75	80						
23	87	66	77	4	0	32	22	OM	95	64	99	66	83	OM	OM	OM	89	69	79	86	70	78	85	75	80						
24	87	62	75	2	0	30	20	OM	97	62	102	64	83	OM	OM	OM	86	66	76	81	67	74	81	72	77						
25	85	65	75	1	0	30	20	OM	97	62	105	65	85	OM	OM	OM	88	68	78	85	68	77	83	72	78						
26	82	67	75	1	0	30	20	OM	90	66	95	68	82	OM	OM	OM	82	69	76	79	70	75	80	74	77						
27	87	67	77	3	0	32	22	OM	97	63	101	66	84	OM	OM	OM	90	70	80	86	70	78	84	74	79						
28	88	67	78	3	0	33	23	OM	97	65	103	68	86	OM	OM	OM	93	71	82	88	71	80	86	75	81						
29	91	69	80	5	0	35	25	OM	100	66	104	69	87	OM	OM	OM	94	72	83	90	73	82	88	77	83						
30	92	68	80	5	0	35	25	OM	102	67	107	69	88	OM	OM	OM	93	72	83	90	73	82	88	79	84						
31	92	65	79	4	0	34	24	OM	107	62	108	64	86	OM	OM	OM	96	70	83	92	72	82	90	70	80						

TOTAL

4 851 541 0 2949 1740

MEAN 84.5 60.0 72.3 .9 .1 27.5 17.5 .0 95.1 56.1 99.0 58.8 78.9 .0 .0 .0 87.5 64.3 75.9 83.3 65.1 74.2 81.5 69.6 75.6

TEMPERATURE EXTREMES: HIGHEST 92 ON DAYS 30, 31,  
LOWEST 52 ON DAYS 1, 9.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 3 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
0 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - MAY 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA							VEGETATIVE WETTING
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MILES MEAN	AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE
1	.00	4	.00M	.00M	78	53	66	50	.240	57	75	40	72	61	1	DEW
2	.00	5	.00M	.00M	83	54	69	22	.179	86	67	46	77	69	9	DEW
3	.00	6	.00M	.00M	77	57	67	15	.130	90	65	41	43	60	8	DEW
4	.00	7	.00M	.00M	83	55	69	35	.240	59	52	27	60	50	0	
5	.00	8	.00M	.00M	86	58	72	30	.230	80	73	37	58	62	0	
6	.00	9	.00M	.00M	86	60	73	38	.219	90	81	35	58	66	7	DEW
7	.00	10	.00M	.00M	85	59	72	44	.227	86	81	70	93	83	4	DEW
8	.73	0	.00M	.00M	69	55	62	75	.079	93	93	55	64	76	19	RAIN
9	.00	1	.00M	.00M	77	52	65	51	.164	86	64	40	58	62	9	DEW
10	.00	2	.00M	.00M	83	54	69	42	.243	80	58	30	60	57	7	DEW
11	.00	3	.00M	.00M	89	58	79	23	.222	77	68	27	54	57	6	DEW
12	.00	4	.00M	.00M	88	60	74	31	.261	72	56	28	61	54	0	
13	.00	5	.00M	.00M	88	61	75	39	.288	60	63	39	61	56	0	
14	.00	6	.00M	.00M	87	61	74	52	.297	83	73	35	68	65	6	DEW
15	.00	7	.00M	.00M	86	63	75	39	.245	80	68	44	68	65	0	
16	.00	8	.00M	.00M	87	63	75	34	.260	93	70	37	59	65	9	DEW
17	.00	9	.00M	.00M	92	65	79	30	.271	84	64	45	75	67	5	DEW
18	.00	10	.00M	.00M	84	63	74	30	.175	93	68	41	66	67	6	DEW
19	.02	11	.00M	.00M	88	65	77	33	.199	87	87	40	75	72	7	RAIN
20	.00	12	.00M	.00M	90	63	77	34	.195	96	97	51	71	79	8	DEW FOO
21	.11	13	.00M	.00M	90	63	77	37	.196	97	95	47	82	80	12	RAIN
22	.14	14	.00M	.00M	90	66	78	27	.155	97	87	46	82	78	11	DEW
23	.11	15	.00M	.00M	89	66	77	41	.218	87	94	59	94	84	9	RAIN
24	.33	0	.00M	.00M	84	63	74	42	.116	97	97	59	85	85	17	RAIN
25	.25	0	.00M	.00M	89	64	76	27	.216	94	90	82	94	90	11	RAIN DEW
26	.13	1	.00M	.00M	82	67	75	32	.105	97	97	61	97	88	16	RAIN DEW
27	.67	0	.00M	.00M	90	67	79	31	.302	94	93	63	79	82	15	RAIN
28	.00	1	.00M	.00M	91	69	80	27	.302	93	87	52	80	78	11	DEW
29	.00	2	.00M	.00M	96	73	85	30	.291	94	82	54	80	79	15	DEW
30	.00	3	.00M	.00M	93	73	83	30	.254	94	82	52	85	78	14	DEW
31	.00	4	.00M	.00M	95	68	82	46	.271	90	82	55	85	78	14	DEW
TOTAL	2.49							1115	6.792							
MEAN			.000		86.2	61.9	74.0	36	.219	86	78	46	72	71	8	

NORMAL PRECIPITATION FOR MONTH IS 3.90 INCHES; 24 HOUR MAXIMUM = .73 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 91 OF 0.50 OR MORE 21 OF 1.00 OR MORE 0

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.



AGROCLIMATOLOGICAL DATA - MAY 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS	
	4PM TO 6AM		6AM TO 4PM		MAX GUST HR. SPEED	MINS. OF SUN- SHINE	PERCENT OF POSSIBLE SUNSHINE	LANG- LEYS* SOLAR RAD.	LANG- LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHT- A NING Y STROK- S ES	OBSERVED OR REPORTED HAIL HI-WIND	TIME OF PASS OF -AGE FRONT		
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED						MAX	MIN	MEAN	MAX	MIN					
1	E	3	E	3	11:00	13	566	70.0	569	OM	30.25	30.13	30.19						
2	V	1	V	2	13:00	10	69	8.5	344	OM	30.19	30.11	30.15						
3	V	1	NW	3	11:00	12	540	66.6	558	OM	30.17	30.08	30.12						
4	N	3	N	3	11:00	10	713	87.8	615	OM	30.17	30.03	30.10						
5	E	2	SE	4	14:00	12	460	56.5	559	OM	30.21	30.11	30.16						
6	V	1	S	4	11:00	13	410	50.2	544	OM	30.21	30.11	30.16						
7	V	1	SE	4	21:00	16	0	.0	174	OM	30.11	29.90	30.00						
8	NW	4	NW	5	15:00	13	243	29.7	425	OM	30.05	29.92	29.98						
9	N	3	NE	5	9:00	18	730	88.9	648	OM	30.13	30.02	30.07						
10	V	1	V	3	11:00	11	754	91.7	637	OM	30.16	30.07	30.11						
11	V	1	NE	3	11:00	11	762	92.6	656	OM	30.15	30.07	30.11						
12	V	2	SE	3	13:00	13	738	89.5	621	OM	30.17	30.08	30.12						
13	E	2	SE	5	10:00	16	712	86.1	647	OM	30.14	30.06	30.10						
14	V	1	SE	4	13:00	17	507	61.2	592	OM	30.14	30.08	30.11						
15	V	1	S	4	11:00	13	275	33.2	553	OM	30.13	30.07	30.10						
16	V	1	SW	3	14:00	13	632	76.1	628	OM	30.18	30.08	30.13						
17	V	1	NW	3	14:00	18	345	41.4	394	OM	30.14	30.07	30.11						
18	V	1	N	3	13:00	13	269	32.3	474	OM	30.12	30.04	30.08						
19	N	2	SE	2	17:00	12	134	16.0	467	OM	30.15	30.07	30.11						
20	SE	1	SW	3	20:00	19	253	30.3	511	OM	.00M	.00M	.00M						
21	V	2	V	3	13:00	12	445	53.2	517	OM	.00M	29.98	.00M						
22	V	0	SE	3	18:00	15	308	36.7	469	OM	30.09	30.01	30.05						
23	V	3	NE	3	15:00	18	73	8.7	274	OM	30.07	29.98	30.02						
24	E	3	SE	3	16:00	10	274	32.6	488	OM	30.05	29.95	30.00						
25	V	1	SW	2	14:00	11	264	31.4	327	OM	29.98	29.88	29.93						
26	SE	2	V	2	19:00	23	322	38.2	456	OM	29.93	29.88	29.90						
27	V	2	SW	3	15:00	12	532	63.0	594	OM	29.95	29.89	29.92						
28	V	1	SW	3	12:00	13	538	63.7	591	OM	29.99	29.91	29.95						
29	V	1	S	3	15:00	12	574	67.8	543	OM	30.00	29.88	29.94						
30	V	1	SW	4	15:00	17	491	58.0	528	OM	29.96	29.88	29.92						
31	SE	1	S	4	13:00	12	438	51.7	508	OM	29.93	29.82	29.87						
TOTAL							13371		15911	0									
MEAN		2		3		14	431		513	0	30.10	30.01	30.05	.0		.0			

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)

\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
MAY

DAY	DAILY NORMAL			RECORD TEMPERATURES		
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR	
1	81	55	68	91 1942	38 1908	
2	81	55	68	93 1927	38 1909	
3	81	55	68	92 1948	42 1925	
4	82	56	69	92 1930	40 1971	
5	82	56	69	95 1930	43 1945	
6	82	56	69	92 1952	43 1944	
7	82	56	69	93 1952	37 1944	
8	82	57	70	94 1952	38 1958	
9	83	57	70	94 1922	37 1960	
10	83	57	70	95 1922	39 1923	
11	83	57	70	96 1916	46 1909	
12	83	57	70	96 1916	42 1952	
13	84	58	71	95 1962	35 1960	
14	84	58	71	92 1962	40 1960	
15	84	58	71	92 1944	44 1959	
16	84	58	71	92 1963	44 1927	
17	85	59	72	96 1962	41 1956	
18	85	59	72	92 1963	47 1945	
19	85	59	72	98 1962	48 1976	
20	85	59	72	98 1962	48 1976	
21	85	60	73	97 1962	43 1954	
22	86	60	73	97 1962	45 1954	
23	86	60	73	97 1908	52 1931	
24	86	60	73	96 1941	47 1931	
25	86	61	74	95 1956	47 1931	
26	87	61	74	97 1941	43 1979	
27	87	61	74	97 1916	43 1961	
28	87	62	75	97 1941	44 1961	
29	87	62	75	97 1941	46 1961	
30	87	62	75	98 1937	52 1971	
31	88	62	75	98 1911	52 1930	

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

AGROCLIMATOLOGICAL DATA - JUNE 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA										(IN DEGREES FARENHEIT)												SOIL TEMPERATURE DATA								
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES								
	MAX	MIN	MEAN	DFN#	BELOW		ABOVE		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN						
					65	45	55																								
1	88	66	77	1	0	32	22	OM	99	66	101	67	84	OM	OM	OM	95	71	83	90	72	81	83	78	83						
2	87	63	75	-1	0	30	20	OM	100	60	96	62	79	OM	OM	OM	90	66	78	87	68	78	67	75	81						
3	89	69	79	3	0	34	24	OM	99	64	99	67	83	OM	OM	OM	94	70	82	90	69	80	88	75	82						
4	90	68	79	3	0	34	24	OM	103	67	105	69	87	OM	OM	OM	95	72	84	91	73	82	88	77	83						
5	87	67	77	0	0	32	22	OM	98	64	97	67	82	OM	OM	OM	91	70	81	87	71	79	87	77	82						
6	87	60	74	-3	0	29	19	OM	100	56	101	59	80	OM	OM	OM	94	67	81	90	68	79	89	76	83						
7	88	59	74	-3	0	29	19	OM	99	54	101	58	80	OM	OM	OM	97	67	82	92	69	81	91	76	84						
8	91	60	76	-1	0	31	21	OM	103	55	104	59	82	OM	OM	OM	99	69	84	94	71	83	93	77	85						
9	97	63	80	3	0	35	25	OM	108	57	109	62	86	OM	OM	OM	101	72	87	96	73	85	95	79	87						
10	96	66	81	4	0	36	26	OM	108	62	109	67	88	OM	OM	OM	101	75	88	97	76	87	96	81	89						
11	94	68	81	4	0	36	26	OM	107	66	106	69	88	OM	OM	OM	99	75	87	96	76	86	96	83	90						
12	92	70	81	3	0	36	26	OM	105	60	107	67	87	OM	OM	OM	102	75	89	98	77	88	97	83	90						
13	84	67	76	-2	0	31	21	OM	108	65	95	67	81	OM	OM	OM	88	71	80	86	72	79	87	78	83						
14	85	66	76	-2	0	31	21	OM	98	61	96	65	81	OM	OM	OM	90	69	80	87	70	79	87	77	82						
15	88	65	77	-1	0	32	22	OM	107	59	101	63	82	OM	OM	OM	96	70	83	91	71	81	90	77	84						
16	92	68	80	2	0	35	25	OM	110	63	106	67	87	OM	OM	OM	99	74	87	95	73	84	94	78	86						
17	90	66	78	0	0	33	23	OM	107	62	104	67	86	OM	OM	OM	98	73	86	94	75	85	93	81	87						
18	81	63	72	-6	0	27	17	OM	100	59	91	63	77	OM	OM	OM	85	68	77	83	69	76	85	76	81						
19	89	67	78	0	0	33	23	OM	107	60	101	64	84	OM	OM	OM	94	71	83	91	71	81	90	76	83						
20	91	67	79	0	0	34	24	OM	111	62	100	66	83	OM	OM	OM	97	74	86	94	74	84	93	79	86						
21	89	67	78	-1	0	33	23	OM	106	62	102	68	85	OM	OM	OM	98	75	87	94	76	85	94	81	88						
22	88	69	79	0	0	34	24	OM	104	70	97	71	84	OM	OM	OM	93	74	84	90	75	83	89	79	84						
23	89	69	79	0	0	34	24	OM	109	65	99	69	84	OM	OM	OM	95	73	84	91	74	83	90	79	85						
24	93	68	81	2	0	36	26	OM	117	63	105	68	87	OM	OM	OM	100	74	87	96	75	86	96	76	86						
25	94	66	80	1	0	35	25	OM	118	61	108	65	87	OM	OM	OM	102	75	89	98	76	87	97	82	90						
26	92	65	79	0	0	34	24	OM	101	68	102	70	86	OM	OM	OM	94	72	83	92	73	83	92	78	85						
27	87	69	78	-1	0	33	23	OM	99	69	101	71	86	OM	OM	OM	87	73	80	84	74	79	85	78	82						
28	81	70	76	-3	0	31	21	OM	90	69	89	70	80	OM	OM	OM	84	72	78	81	73	77	83	74	79						
29	88	67	78	-2	0	33	23	OM	100	66	99	68	84	OM	OM	OM	89	71	80	86	72	79	85	77	81						
30	84	69	77	-3	0	32	22	OM	97	68	93	70	82	OM	OM	OM	85	71	78	80	71	76	82	76	79						

TOTAL 0 985 685 0 3118 1883  
 MEAN 89.0 66.2 77.6 -1 .0 32.8 22.8 .0103.9 62.8100.8 66.2 83.5 .0 .0 .0 94.4 71.6 83.0 90.7 72.6 81.6 90.2 78.0 84.1

TEMPERATURE EXTREMES: HIGHEST 97 ON DAYS 9,  
 LOWEST 59 ON DAYS 7.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 12 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 0 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

N = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - JUNE 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	TEMP (DEG F) MEAN	MILES MOVEMENT	AIR INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	RELATIVE HUMIDITY (%) 7 AM	RELATIVE HUMIDITY (%) 1 PM	RELATIVE HUMIDITY (%) 7 PM	MEAN HRS	SOURCE	
1	.46	0	.00M	.00M	91	66	79	48	.269	90	83	61	76	13	DEW RAIN	
2	.00	1	.00M	.00M	89	64	77	66	.299	84	68	48	71	68	8	DEW
3	.00	2	.00M	.00M	92	69	81	29	.261	79	88	58	82	77	1	DEW
4	.00	3	.00M	.00M	94	69	82	47	.216	94	87	62	85	82	4	DEW
5	.00	4	.00M	.00M	88	67	78	40	.163	97	97	55	72	80	10	DEW
6	.00	5	.00M	.00M	89	61	75	67	.286	87	70	30	52	60	8	DEW
7	.00	6	.00M	.00M	89	61	75	39	.316	84	62	30	52	57	4	DEW
8	.00	7	.00M	.00M	89	65	77	37	.271	87	65	31	71	64	4	DEW
9	.00	8	.00M	.00M	93	68	81	26	.350	84	60	38	65	62	2	DEW
10	.00	9	.00M	.00M	92	70	81	38	.325	85	82	42	60	67	5	DEW
11	.00	10	.00M	.00M	90	68	79	64	.384	82	74	40	45	60	3	DEW
12	.00	11	.00M	.00M	92	66	79	57	.344	59	82	70	77	72	4	RAIN
13	.48	0	.00M	.00M	86	65	76	50	.186	97	90	59	71	79	14	RAIN
14	.00	1	.00M	.00M	88	66	77	0M	.253	81	71	45	60	64	5	DEW
15	.00	2	.00M	.00M	91	67	79	0M	.262	82	67	44	59	63	0	
16	.00	3	.00M	.00M	94	69	82	0M	.273	90	91	48	79	77	4	DEW
17	.16	3	.00M	.00M	91	65	78	56	.267	87	90	72	79	82	5	RAIN
18	.04	4	.00M	.00M	83	64	74	38	.118	97	94	52	62	76	8	DEW
19	.00	5	.00M	.00M	91	66	79	34	.260	73	61	44	62	60	0	
20	.00	6	.00M	.00M	89	70	80	47	.326	87	74	50	67	70	0	
21	.00	7	.00M	.00M	89	69	79	42	.324	81	62	52	88	71	0	
22	.11	8	.00M	.00M	85	69	77	29	.159	97	97	52	88	84	15	RAIN
23	.00	9	.00M	.00M	89	69	79	49	.272	82	69	41	59	63	1	RAIN
24	.00	10	.00M	.00M	92	68	80	38	.343	71	60	32	51	54	0	
25	.00	11	.00M	.00M	93	66	80	42	.335	57	77	46	94	69	2	DEW
26	1.39	0	.00M	.00M	87	64	76	49	.281	100	90	47	94	83	16	RAIN
27	.01	1	.00M	.00M	86	67	77	52	.149	97	91	72	90	88	14	RAIN
28	.16	2	.00M	.00M	82	69	76	60	.162	94	97	62	90	86	12	DEW
29	.65	0	.00M	.00M	89	66	78	51	.238	100	94	87	90	93	20	RAIN
30	.22	0	.00M	.00M	80	67	74	61	.118	97	91	64	80	83	17	RAIN DEW
TOTAL	3.68						1256	7.809								
MEAN			.000		89.1	66.7	77.9	47	.260	86	80	51	72	72	7	

NORMAL PRECIPITATION FOR MONTH IS 4.25 INCHES; 24 HOUR MAXIMUM = 1.39 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 10; OF 0.50 OR MORE 2; OF 1.00 OR MORE 1

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR.

OTHER DATA FOR 24 HOURS ENDING 7AM CST.

AGROCLIMATOLOGICAL DATA - JUNE 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL			SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS		
	6PM TO 6AM		6AM TO 6PM	MAX GUST	MINS. OF SUNSHINE	PERCENT OF POSSIBLE SUNSHINE	LANG-LEYS* SOLAR RAD.	LANG-LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHTNING STROKES	OBSERVED OR REPORTED HAIL HI-WIND	TIME OF PASS-AGE	TYPE OF FRONT
	DIR.	AVER. SPEED	PREV DIR.	AVER. SPEED	HR. SPEED				MAX	MIN	MEAN	MAX	MIN	S	ES		
1	S	2	NW	5	0100	13	579	68.2	586	OM	29.91	29.83	29.87				
2	N	4	SW	3	12100	12	716	84.2	661	OM	.00M	.00M	.00M				
3	E	1	V	3	8100	9	240	28.2	464	OM	29.98	29.96	29.97				
4	SE	3	SW	4	10100	14	144	16.9	349	OM	29.94	29.84	29.89				
5	V	1	NW	5	15100	15	439	51.5	565	OM	29.98	29.86	29.92				
6	N	4	NW	6	12100	14	477	55.9	685	OM	30.06	29.98	30.02				
7	N	2	N	4	11100	12	682	79.9	672	OM	30.10	.00M	.00M				
8	V	1	N	3	14100	12	790	92.5	656	OM	30.08	29.98	30.03				
9	V	1	SW	4	12100	14	777	90.9	632	OM	30.05	29.97	30.01				
10	V	1	NW	7	12100	19	735	86.0	610	OM	30.01	29.96	29.98				
11	N	3	N	4	13100	15	388	45.3	626	OM	30.06	29.96	30.01				
12	N	3	SE	4	9100	19	364	42.5	378	OM	30.08	29.95	30.01				
13	V	3	SW	4	15100	14	OM	.0M	527	OM	.00M	29.97	.00M				
14	N	3	NW	3	14100	12	OM	.0M	591	OM	.00M	.00M	.00M				
15	NE	2	S	4	11100	11	OM	.0M	596	OM	30.05	29.95	30.00				
16	S	2	SW	7	14100	23	OM	.0M	554	OM	30.00	29.91	29.95				
17	V	1	SE	3	14100	14	472	55.0	327	OM	29.99	28.99	29.49				
18	NE	2	NE	5	9100	14	573	66.8	567	OM	29.89	29.82	29.86				
19	N	2	NW	5	11100	16	693	80.8	603	OM	29.95	29.87	29.91				
20	V	1	NW	5	12100	14	418	48.7	566	OM	29.98	29.92	29.95				
21	NW	2	V	2	15100	12	219	25.6	346	OM	30.02	29.94	29.98				
22	V	2	W	5	14100	15	305	35.5	474	OM	30.02	29.94	29.98				
23	N	2	V	4	11100	12	651	75.9	602	OM	30.05	.00M	.00M				
24	V	3	N	5	9100	12	749	87.3	624	OM	30.05	29.98	30.01				
25	NE	3	SE	4	11100	12	343	40.0	354	OM	30.07	30.01	30.04				
26	SE	OM	SE	5	16100	19	289	33.7	407	OM	30.10	30.02	30.06				
27	S	2	SW	6	12100	17	150	17.5	342	OM	30.05	30.02	30.03				
28	SW	3	SW	5	14100	16	258	30.1	418	OM	.00M	29.96	.00M				
29	SW	2	SW	5	6100	13	229	26.7	301	OM	30.00	29.91	29.95				
30	W	3	NW	5	20100	17	489	57.1	524	OM	30.04	29.97	30.00				
TOTAL							12169		15607	0							
MEAN		2		4		14	468		520	0	30.02	29.90	29.96	.0	.0		

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)  
\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
JUNE

DAY	DAILY NORMAL			RECORD TEMPERATURES		
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR	
1	88	63	76	97	1953	46 1972
2	88	63	76	98	1953	51 1931
3	88	63	76	99	1911	39 1956
4	88	63	76	99	1936	54 1954
5	89	64	77	101	1936	47 1954
6	89	64	77	99	1943	53 1954
7	89	64	77	102	1933	54 1926
8	89	64	77	99	1933	51 1955
9	89	65	77	99	1963	54 1977
10	89	65	77	99	1954	52 1913
11	89	65	77	100	1920	52 1913
12	90	65	78	101	1963	54 1960
13	90	65	78	98	1958	55 1955
14	90	66	78	101	1963	56 1960
15	90	66	78	102	1963	56 1933
16	90	66	78	103	1963	57 1960
17	90	66	78	100	1944	57 1961
18	90	66	78	104	1944	57 1961
19	90	66	78	107	1933	58 1961
20	90	67	79	106	1933	57 1965
21	90	67	79	106	1933	59 1944
22	91	67	79	102	1930	58 1976
23	91	67	79	102	1944	54 1972
24	91	67	79	104	1930	55 1972
25	91	67	79	102	1914	55 1972
26	91	67	79	103	1914	57 1940
27	91	67	79	102	1954	59 1974
28	91	67	79	104	1954	56 1959
29	91	68	80	105	1954	58 1961
30	91	68	80	101	1978	55 1923

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

AGROCLIMATOLOGICAL DATA - JULY 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA (IN DEGREES FARENHEIT)											SOIL TEMPERATURE DATA													
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES		
	MAX	MIN	MEAN	DFN*	BELOW 65	ABOVE 45	55	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
1	89	68	79	-1	0	34	24	OM	101	67	100	69	85	0	0	0	89	71	80	85	72	79	86	77	82
2	90	70	80	0	0	35	25	OM	102	67	102	69	86	0	0	0	91	72	82	88	73	81	88	78	83
3	92	68	80	0	0	35	25	OM	104	OM	106	OM	OM	0	0	0	93	74	84	90	74	82	89	78	84
4	92	72	82	2	0	37	27	OM	103	69	103	71	87	0	0	0	94	74	84	91	75	83	91	79	85
5	92	71	82	3	0	37	27	OM	101	67	102	70	86	0	0	0	93	74	84	90	74	82	90	80	85
6	94	71	83	4	0	38	28	OM	104	69	107	71	89	0	0	0	98	75	87	94	76	85	93	80	87
7	86	67	77	-2	0	32	22	OM	94	65	100	68	84	0	0	0	90	71	81	87	73	80	88	79	84
8	89	69	79	-1	0	34	24	OM	100	67	105	69	87	0	0	0	98	75	87	94	74	84	92	80	86
9	87	68	78	-2	0	33	23	OM	100	65	105	69	87	0	0	0	98	75	87	93	76	85	93	82	88
10	87	69	78	-2	0	33	23	OM	97	66	101	70	86	0	0	0	96	74	85	92	75	84	92	81	87
11	89	70	80	0	0	35	25	OM	100	69	101	71	86	0	0	0	92	74	83	89	75	82	89	80	85
12	82	68	75	-5	0	30	20	OM	95	67	95	69	82	0	0	0	82	71	77	80	72	76	83	77	80
13	88	70	79	-1	0	34	24	OM	95	68	98	71	85	0	0	0	88	73	81	85	73	79	86	77	82
14	90	69	80	0	0	35	25	OM	99	67	101	70	86	0	0	0	93	73	83	90	74	82	90	80	85
15	87	69	78	-2	0	33	23	OM	102	68	101	70	86	0	0	0	88	72	80	85	73	79	86	78	82
16	90	67	79	-1	0	34	24	OM	105	66	105	68	87	0	0	0	93	71	82	89	73	81	88	78	83
17	89	67	78	-2	0	33	23	OM	102	66	108	68	88	0	0	0	92	72	82	88	73	81	88	78	83
18	89	69	79	-1	0	34	24	OM	102	67	104	70	87	0	0	0	94	73	84	91	73	82	90	79	85
19	91	67	79	-1	0	34	24	OM	104	65	105	68	87	0	0	0	98	73	86	94	74	84	92	80	86
20	90	69	80	0	0	35	25	OM	105	67	104	69	87	0	0	0	92	72	82	88	73	81	88	79	84
21	91	72	82	2	0	37	27	OM	102	70	101	73	87	0	0	0	95	74	85	92	74	83	91	79	85
22	95	69	82	2	0	37	27	OM	103	67	109	70	90	0	0	0	101	76	89	97	77	87	96	82	89
23	92	69	81	1	0	36	26	OM	105	68	106	70	88	0	0	0	100	74	87	97	75	86	96	82	89
24	88	70	79	-1	0	34	24	OM	99	68	102	70	86	0	0	0	92	74	83	88	74	81	89	80	85
25	87	68	78	-2	0	33	23	OM	94	66	99	69	84	0	0	0	87	73	80	84	74	79	85	79	82
26	89	69	79	-1	0	34	24	OM	103	68	107	70	89	0	0	0	91	73	82	88	74	81	88	79	84
27	91	71	81	1	0	36	26	OM	106	69	108	72	90	0	0	0	90	75	83	89	75	82	90	80	85
28	94	73	84	4	0	39	29	OM	104	71	107	73	90	0	0	0	95	76	86	93	76	85	92	80	86
29	93	68	81	1	0	36	26	OM	105	67	109	70	90	0	0	0	95	74	85	91	75	83	92	80	86
30	90	71	81	1	0	36	26	OM	101	71	106	73	90	0	0	0	96	76	86	92	76	84	91	81	86
31	85	72	79	-1	0	34	24	OM	93	72	96	73	85	0	0	0	85	74	80	83	75	79	86	80	83

TOTAL 0 1077 767 0 3130 2029  
 MEAN 89.6 69.4 79.5 -1 .0 34.7 24.7 .0101.0 67.6103.3 70.1 86.7 .0 .0 .0 92.9 73.5 83.2 89.6 74.2 81.9 89.6 79.4 84.5

TEMPERATURE EXTREMES: HIGHEST 95 ON DAYS 22.  
 LOWEST 67 ON DAYS 7, 16, 17, 19.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 16 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 0 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - JULY 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MEAN	MILES MOVEMENT	AIR INCHES	EVAP.	1 AM	7 AM	1 PM	7 PM	MEAN HRS	SOURCE
1	.03	1	.00	.00	90	69	80	56	.261	94	82	54	70	75	12	RAIN
2	.00	2	.00	.00	92	71	82	34	.305	88	65	54	91	75	9	DEW
3	.00	3	.00	.00	95	73	84	20	.225	98	85	54	72	77	14	DEW
4	.00	4	.00	.00	94	73	84	43	.275	88	85	54	65	73	11	DEW
5	.00	5	.00	.00	91	71	81	50	.262	87	76	51	61	69	2	DEW
6	.00	6	.00	.00	96	70	83	47	.290	79	79	70	72	75	1	DEW
7	.00	7	.00	.00	86	67	77	58	.165	90	85	58	74	77	9	DEW
8	.00	8	.00	.00	94	69	82	51	.221	93	88	69	79	82	6	DEW
9	.00	9	.00	.00	89	70	80	47	.280	93	85	70	79	82	7	DEW
10	1.27	0	.00	.00	90	68	79	41	.286	100	97	66	91	89	14	RAIN
11	.30	0	.00	.00	90	69	80	37	.275	94	94	97	94	95	23	RAIN
12	.29	0	.00	.00	77	66	72	40	.129	97	87	70	88	86	14	RAIN
13	.00	1	.00	.00	87	68	78	19	.131	97	97	66	82	86	10	DEW FOG
14	.00	2	.00	.00	93	72	83	26	.273	94	91	77	91	88	10	RAIN DEW
15	.23	0	.00	.00	86	69	78	28	.127	97	94	66	88	86	20	RAIN
16	.02	1	.00	.00	91	69	80	33	.250	97	85	61	91	84	15	RAIN
17	.00	2	.00	.00	91	70	81	35	.169	97	97	66	72	83	10	DEW
18	.00	3	.00	.00	92	70	81	24	.268	94	82	56	87	80	9	DEW
19	.00	4	.00	.00	95	70	83	26	.223	100	94	66	93	88	10	DEW
20	.07	5	.00	.00	90	70	80	24	.148	97	94	60	79	83	16	RAIN
21	.00	6	.00	.00	94	73	84	22	.226	97	91	49	79	79	8	DEW
22	.00	7	.00	.00	96	71	84	32	.287	93	88	62	97	85	9	DEW
23	.34	0	.00	.00	94	67	81	44	.280	100	90	68	94	88	17	RAIN
24	1.94	0	.00	.00	88	68	78	38	.282	92	93	74	82	85	17	RAIN
25	.00	1	.00	.00	84	68	76	16	.160	97	88	64	82	83	8	DEW
26	.08	2	.00	.00	91	71	81	24	.229	97	88	64	82	83	12	DEW RAIN
27	.00	3	.00	.00	92	75	84	20	.236	96	85	56	78	79	10	DEW
28	.00	4	.00	.00	96	76	86	24	.275	94	82	58	90	81	9	DEW
29	.04	5	.00	.00	94	71	83	33	.265	94	90	66	90	85	14	RAIN DEW
30	.02	6	.00	.00	91	70	81	47	.180	94	94	77	94	90	5	RAIN
31	.25	0	.00	.00	84	70	77	57	.132	97	97	87	97	95	19	RAIN
TOTAL	4.88							1096	7.115							
MEAN			.000		90.7	70.1	80.4	35	.230	94	88	65	83	83	11	

NORMAL PRECIPITATION FOR MONTH IS 5.38 INCHES; 24 HOUR MAXIMUM = 1.94 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 13; OF 0.50 OR MORE 2; OF 1.00 OR MORE 2

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR.

OTHER DATA FOR 24 HOURS ENDING 7AM CST.



AGROCLIMATOLOGICAL DATA - JULY 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS			FRONTS	
	6PM TO 6AM		6AM TO 6PM		MAX GUST		MINS. OF SHINE	PERCENT OF SUNSHINE	LANG-LEYS* RAD.	LANG-LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHTNING STROKES	OBSERVED OR REPORTED HAIL	TIME OF PASSAGE	TYPE OF FRONT	
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR.	SPEED					MAX	MIN	MEAN	MAX	MIN					
1	N	3	N	5	8:00	14	717	83.8	601	0	30.12	30.02	30.07							
2	N	2	V	2	17:00	12	551	64.4	534	0	30.18	30.10	30.14							
3	V	0	W	4	7:00	15	749	87.7	619	0	30.14	30.11	30.12							
4	V	1	V	5	13:00	15	566	66.3	494	0	30.02	29.01	29.51							
5	V	1	V	3	4:00	18	644	75.5	594	0	30.06	29.98	30.02							
6	V	3	E	5	8:00	18	317	37.2	358	0	30.16	29.99	30.07							
7	E	2	V	4	16:00	15	593	69.5	548	0	30.16	30.07	30.11							
8	E	3	SE	4	14:00	21	464	54.5	524	0	30.14	30.04	30.09							
9	V	1	SE	3	20:00	16	484	56.9	503	0	30.10	29.99	30.04							
10	V	1	SW	3	17:00	16	266	31.3	482	0	30.08	29.99	30.03							
11	V	2	SW	4	20:00	17	68	8.0	207	0	30.07	30.01	30.04							
12	V	2	V	2	15:00	11	399	47.0	428	0	30.11	30.01	30.06							
13	V	1	V	3	17:00	16	464	54.8	539	0	30.11	30.04	30.07							
14	V	1	V	3	14:00	13	147	17.4	327	0	30.12	30.02	30.07							
15	V	1	V	2	14:00	14	318	37.6	473	0	30.18	30.10	30.14							
16	V	2	SE	3	16:00	11	344	40.8	442	0	30.21	30.11	30.16							
17	V	2	S	3	15:00	15	388	46.0	496	0	30.19	30.09	30.14							
18	V	1	V	3	16:00	15	514	61.0	510	0	30.13	30.05	30.09							
19	V	1	V	2	12:00	11	125	14.8	337	0	30.02	29.97	29.99							
20	V	1	NW	2	10:00	11	395	47.0	505	0	30.05	29.94	29.99							
21	V	1	NW	3	13:00	12	625	74.5	558	0	30.06	29.97	30.01							
22	V	1	SW	4	17:00	27	512	61.1	515	0	30.08	29.96	30.02							
23	V	2	V	3	17:00	14	167	20.0	369	0	30.10	29.98	30.04							
24	V	2	V	3	15:00	10	132	15.8	291	0	30.06	30.00	30.03							
25	V	1	V	3	15:00	13	486	58.3	509	0	30.17	30.06	30.11							
26	V	0	V	3	13:00	10	583	70.0	520	0	30.17	29.98	30.08							
27	V	0	NW	3	13:00	10	650	78.2	577	0	30.12	29.94	30.03							
28	V	1	NW	4	17:00	19	482	58.1	525	0	30.06	29.94	30.00							
29	V	1	SW	4	17:00	17	401	48.4	489	0	30.06	29.96	30.01							
30	S	3	SW	5	14:00	13	89	10.8	267	0	30.10	30.04	30.07							
31	SW	4	SW	5	15:00	18	12	1.5	121	0	30.12	29.94	30.03							
TOTAL							12652		14262	0										
MEAN		2		3		15	408		460	0	30.11	29.93	30.05	.0	.0					

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)  
\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

N = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## CLIMATOLOGICAL DATA

AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
JULY

DAY	DAILY NORMAL			RECORD TEMPERATURES		
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR	
1	91	68	80	102 1954	56	1958
2	91	68	80	102 1954	59	1924
3	91	68	80	101 1925	61	1924
4	91	68	80	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	91	68	80	105 1930	63	1947
9	91	68	80	105 1930	59	1947
10	91	68	80	107 1930	57	1947
11	91	68	80	108 1930	56	1963
12	91	68	80	107 1930	60	1953
13	91	68	80	103 1930	61	1947
14	91	68	80	102 1939	59	1967
15	91	68	80	103 1980	54	1967
16	91	68	80	102 1932	57	1926
17	91	68	80	100 1980	61	1926
18	91	68	80	103 1939	61	1926
19	91	68	80	104 1939	59	1923
20	91	68	80	99 1942	64	1923
21	91	69	80	101 1934	62	1923
22	91	69	80	101 1934	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	68	80	99 1921	61	1936

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
 NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

PAGE 7-4

AGROCLIMATOLOGICAL DATA - AUGUST 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA (IN DEGREES FARENHEIT)										SOIL TEMPERATURE DATA														
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES		
	MAX	MIN	MEAN	DFN*	BELOW 65	ABOVE 45	55		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	80	71	76	-4	0	31	21	OM	87	71	90	72	81	OM	OM	OM	80	73	77	78	73	76	81	78	80
2	79	71	75	-5	0	30	20	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM	OM
3	88	65	77	-3	0	32	22	OM	98	63	99	65	82	OM	OM	OM	88	69	79	84	70	77	86	76	81
4	90	70	80	0	0	35	25	OM	98	67	103	70	87	OM	OM	OM	91	72	82	88	72	80	88	77	83
5	92	70	81	1	0	36	26	OM	100	67	104	70	87	OM	OM	OM	92	74	83	90	74	82	90	79	85
6	89	66	78	-2	0	33	23	OM	94	65	99	67	83	OM	OM	OM	86	71	79	84	72	78	85	78	82
7	88	68	78	-2	0	33	23	OM	102	67	103	72	88	OM	OM	OM	91	73	82	88	73	81	88	78	83
8	86	70	78	-2	0	33	23	OM	102	69	102	70	86	OM	OM	OM	90	73	82	87	74	81	87	79	83
9	89	70	80	0	0	35	25	OM	100	69	102	72	87	OM	OM	OM	96	75	86	90	74	82	90	79	85
10	87	70	79	-1	0	34	24	OM	96	69	91	71	81	OM	OM	OM	91	74	83	88	75	82	88	80	84
11	90	69	80	0	0	35	25	OM	100	68	101	70	86	OM	OM	OM	95	74	85	90	75	83	89	80	85
12	88	70	79	-1	0	34	24	OM	100	70	101	72	87	OM	OM	OM	93	74	84	89	75	82	89	79	84
13	88	68	78	-2	0	33	23	OM	102	66	101	70	86	OM	OM	OM	92	73	83	88	74	81	89	79	84
14	86	69	78	-2	0	33	23	OM	100	66	100	69	85	OM	OM	OM	91	72	82	87	73	80	88	79	84
15	88	71	80	0	0	35	25	OM	98	68	98	70	84	OM	OM	OM	88	73	81	85	73	79	87	79	83
16	88	70	79	-1	0	34	24	OM	96	69	104	70	87	OM	OM	OM	90	73	82	86	73	80	87	79	83
17	89	72	81	1	0	36	26	OM	98	71	106	73	90	OM	OM	OM	91	74	83	88	74	81	88	79	84
18	88	67	78	-2	0	33	23	OM	97	66	106	68	87	OM	OM	OM	89	72	81	87	73	80	87	77	82
19	88	64	76	-4	0	31	21	OM	94	63	102	65	84	OM	OM	OM	90	69	80	86	71	79	87	77	82
20	85	66	76	-4	0	31	21	OM	93	64	102	66	84	OM	OM	OM	86	70	78	83	71	77	83	77	80
21	90	68	79	-1	0	34	24	OM	97	66	104	69	87	OM	OM	OM	93	73	83	89	72	81	89	77	83
22	89	69	79	0	0	34	24	OM	97	67	100	69	85	OM	OM	OM	94	73	84	90	74	82	90	79	85
23	89	68	79	0	0	34	24	OM	96	66	103	69	86	OM	OM	OM	94	74	84	91	74	83	91	80	86
24	91	70	81	2	0	36	26	OM	99	68	104	70	87	OM	OM	OM	96	75	86	92	76	84	92	81	87
25	92	72	82	3	0	37	27	OM	99	70	101	72	87	OM	OM	OM	95	76	86	92	76	84	93	82	88
26	93	70	82	3	0	37	27	OM	100	69	103	71	87	OM	OM	OM	98	76	87	94	77	86	95	83	89
27	91	68	80	1	0	35	25	OM	101	66	106	69	88	OM	OM	OM	100	76	88	96	77	87	96	81	89
28	94	71	83	4	0	38	28	OM	102	69	108	71	90	OM	OM	OM	99	78	89	96	78	87	96	84	90
29	95	71	83	4	0	38	28	OM	105	69	110	72	91	OM	OM	OM	101	77	89	97	79	88	97	85	91
30	91	70	81	2	0	36	26	OM	99	68	112	70	91	OM	OM	OM	101	77	89	97	78	88	98	84	91
31	86	68	77	-2	0	32	22	OM	96	65	107	68	88	OM	OM	OM	96	65	81	93	76	85	93	83	88

TOTAL

0 1058 748 0 2946 2021

MEAN 88.6 69.1 78.9 -4 .0 34.1 24.1 .0 98.2 67.4 102.4 69.7 86.1 .0 .0 .0 92.6 73.3 82.9 89.1 74.2 81.6 89.6 79.6 84.6

TEMPERATURE EXTREMES: HIGHEST 95 ON DAYS 29.  
 LOWEST 64 ON DAYS 19.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 11 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 0 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - AUGUST 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA							VEGETATIVE WETTING	
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MILES MEAN	AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE	
1	1.25	0	.00M	.00M	74	67	71	47	.023	97	97	85	94	93	22	RAIN	
2	.40	0	.00M	.00M	M	M	M	25	.155	97	93	66	82	85	19	RAIN	
3	.00	1	.00M	.00M	86	67	77	23	.173	97	82	54	82	79	0		
4	.00	2	.00M	.00M	90	70	80	34	.284	85	71	54	78	72	10	DEW FOO	
5	.00	3	.00M	.00M	92	72	82	15	.236	90	88	63	90	83	12	DEW FOO	
6	.00T	4	.00M	.00M	85	67	76	35	.131	90	84	58	93	81	13	RAIN FOO	
7	.03	5	.00M	.00M	89	68	79	32	.221	93	90	72	94	87	15	RAIN	
8	.02	6	.00M	.00M	88	70	79	45	.150	97	100	58	85	85	15	DEW RAIN	
9	.00T	7	.00M	.00M	90	70	80	50	.249	97	94	70	90	88	14	RAIN	
10	.00	8	.00M	.00M	87	70	79	44	.170	97	94	66	97	89	15	RAIN	
11	.05	9	.00M	.00M	91	70	81	33	.150	94	97	61	85	84	14	RAIN	
12	.03	10	.00M	.00M	89	70	80	37	.173	97	94	68	84	86	16	RAIN DEW	
13	.68	0	.00M	.00M	89	67	78	30	.210	97	97	72	93	90	15	RAIN	
14	.94	0	.00M	.00M	89	66	78	22	.219	97	94	60	87	85	16	RAIN	
15	.02	1	.00M	.00M	87	67	77	21	.204	97	88	62	87	84	12	RAIN DEW	
16	.00	2	.00M	.00M	88	70	79	43	.205	82	85	58	88	78	1	DEW	
17	.05	3	.00M	.00M	90	71	81	49	.223	71	91	66	94	86	15	RAIN	
18	.03	4	.00M	.00M	88	68	78	38	.180	97	97	66	77	84	14	RAIN	
19	.03	5	.00M	.00M	83	65	77	44	.182	97	94	65	87	86	11	RAIN	
20	.00	6	.00M	.00M	83	66	75	27	.145	93	82	58	79	78	8	DEW	
21	.00T	7	.00M	.00M	92	69	81	16	.187	90	85	57	76	77	9	DEW	
22	.00	8	.00M	.00M	91	69	80	39	.250	85	79	61	85	78	0		
23	.00	9	.00M	.00M	91	69	80	21	.201	94	91	56	82	81	8	DEW	
24	.00	10	.00M	.00M	93	71	82	23	.215	94	97	60	77	82	8	DEW FOO	
25	.00	11	.00M	.00M	92	72	82	33	.211	92	88	52	72	76	9	DEW	
26	.00	12	.00M	.00M	92	70	81	54	.273	85	74	56	69	71	1	DEW	
27	.00	13	.00M	.00M	93	70	82	24	.232	85	67	51	77	70	0		
28	.00	14	.00M	.00M	92	73	83	24	.202	94	80	42	79	74	8	DEW	
29	.00T	15	.00M	.00M	93	69	81	47	.286	82	77	49	71	70	1	RAIN	
30	.00	16	.00M	.00M	91	68	80	84	.302	82	85	61	83	78	0		
31	.00	17	.00M	.00M	88	67	78	54	.185	85	85	49	79	75	6	DEW	
TOTAL	3.53							1113	6.232								
MEAN			.000		89.0	69.9	79.0	36	.201	92	88	61	84	81	10		

NORMAL PRECIPITATION FOR MONTH IS 4.07 INCHES! 24 HOUR MAXIMUM = 1.25 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 12! OF 0.50 OR MORE 3! OF 1.00 OR MORE 1

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.

AGROCLIMATOLOGICAL DATA - AUGUST 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS	
	6PM TO 6AM		6AM TO 6PM		MAX GUST HR. SPEED	MINS. OF SUN- SHINE	PERCENT OF POSSIBLE SUNSHINE	LANG- LEYS* SOLAR RAD.	LANG- LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHT- A NING Y STROK- S ES	OBSERVED OR REPORTED HAIL HI-WIND	TIME OF PASS OF -AGE FRONT
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED						MAX	MIN	MEAN	MAX	MIN			
1	SW	3	SW	3	3100	11	35	4.2	213	OM	30.10	30.00	30.05				
2	W	1	NW	4	12100	10	210	25.5	419	OM	30.06	30.00	30.03				
3	N	2	NW	4	10100	14	669	81.4	588	OM	30.07	30.00	30.03				
4	NE	2	NE	3	15100	9	513	62.6	515	OM	30.08	30.02	30.05				
5	V	1	V	2	0100	21	5	.6	236	OM	30.14	30.06	30.10				
6	V	3	SE	3	18100	17	501	61.3	501	OM	30.14	30.06	30.10				
7	SE	2	SE	3	9100	11	192	23.6	410	OM	30.14	30.07	30.11				
8	V	2	SW	5	13100	15	360	44.3	516	OM	30.11	30.02	30.06				
9	V	1	SW	3	17100	16	122	15.0	355	OM	30.12	30.06	30.09				
10	S	2	SW	3	18100	18	215	26.5	373	OM	30.20	30.11	30.15				
11	V	1	SW	4	17100	14	291	36.0	389	OM	30.18	30.08	30.13				
12	SW	2	V	3	17100	12	234	29.0	380	OM	30.13	30.02	30.07				
13	V	1	SW	3	17100	12	229	28.4	420	OM	30.06	30.00	30.03				
14	V	1	V	2	16100	13	133	16.6	395	OM	30.06	29.98	30.02				
15	V	1	SE	3	17100	11	345	43.0	435	OM	30.08	30.00	30.04				
16	E	2	SE	4	13100	13	382	47.7	489	OM	30.11	30.02	30.06				
17	SE	2	SE	3	13100	12	235	29.4	392	OM	30.08	29.97	30.02				
18	E	2	NE	3	20100	13	276	34.6	401	OM	30.08	29.96	30.02				
19	NE	3	NE	4	10100	14	154	19.4	309	OM	30.15	30.02	30.08				
20	V	1	NW	2	12100	11	488	61.5	490	OM	30.20	30.10	30.15				
21	V	1	NW	4	13100	13	553	69.8	528	OM	30.12	30.02	30.07				
22	N	2	NW	3	13100	10	320	40.5	473	OM	30.08	30.00	30.04				
23	V	0	SW	3	12100	12	485	61.5	493	OM	30.12	30.03	30.08				
24	V	0	SW	4	14100	13	234	29.8	452	OM	30.13	30.04	30.08				
25	V	1	NW	6	12100	18	OM	.OM	497	OM	30.07	29.99	30.03				
26	N	3	NW	3	12100	13	OM	.OM	521	OM	30.19	30.01	30.10				
27	V	1	NW	3	14100	12	586	75.0	500	OM	30.08	29.99	30.03				
28	V	1	NW	4	17100	15	516	66.3	510	OM	30.10	30.02	30.06				
29	N	4	E	6	16100	16	438	56.4	538	OM	30.21	30.08	30.14				
30	E	5	NE	5	11100	15	215	27.7	424	OM	30.29	30.17	30.23				
31	E	2	SE	3	9100	10	500	64.7	486	OM	30.26	30.14	30.20				
TOTAL							9436		13650	0							
MEAN		2		3		13	325		440	0	30.13	30.03	30.03	.0	.0		

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)

\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

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	99	1954	62	1936
2	91	68	80	97	1959	59	1925
3	91	68	80	99	1957	63	1945
4	91	68	80	100	1935	60	1923
5	92	68	80	103	1935	59	1950
6	92	68	80	101	1947	57	1948
7	92	68	80	100	1980	60	1948
8	92	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	62	1929
17	91	68	80	102	1954	62	1979
18	91	68	80	101	1954	60	1948
19	91	68	80	103	1925	63	1976
20	91	68	80	106	1925	60	1961
21	91	68	80	99	1937	58	1927
22	91	67	79	99	1924	58	1961
23	91	67	79	99	1938	59	1931
24	91	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	90	67	79	99	1951	58	1968
31	90	67	79	100	1954	56	1946

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

AEROCLIMATOLOGICAL DATA - SEPTEMBER 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA										(IN DEGREES FARENHEIT)										SOIL TEMPERATURE DATA					
	150 CM SHELTER TEMPERATURES			DEGREE DFN*	DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CH SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES			
	MAX	MIN	MEAN		BELOW		ABOVE		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
				65	45	55																				
1	91	67	79	1	0	34	24	OM	103	64	108	68	88	OM	OM	OM	98	76	87	95	78	87	96	83	90	
2	90	70	80	2	0	35	25	OM	103	67	106	71	89	OM	OM	OM	99	78	89	95	79	87	95	84	90	
3	89	67	78	0	0	33	23	OM	103	65	103	68	86	OM	OM	OM	90	72	81	87	73	80	87	79	83	
4	87	62	75	-3	0	30	20	OM	100	59	104	61	83	OM	OM	OM	90	68	79	87	70	79	87	77	82	
5	85	66	76	-2	0	31	21	OM	98	65	101	67	84	OM	OM	OM	91	70	81	87	70	79	86	77	82	
6	82	65	74	-4	0	29	19	OM	94	61	103	63	83	OM	OM	OM	90	69	80	87	71	79	86	77	82	
7	83	61	72	-5	0	27	17	OM	98	57	106	59	83	OM	OM	OM	91	67	79	88	69	79	87	77	82	
8	84	63	74	-3	0	29	19	OM	94	59	104	61	83	OM	OM	OM	93	69	81	89	70	80	89	76	83	
9	84	68	76	-1	0	31	21	OM	97	65	106	67	87	OM	OM	OM	94	72	83	89	72	81	90	76	83	
10	78	68	73	-4	0	28	18	OM	85	67	90	69	80	OM	OM	OM	82	70	76	80	71	76	83	77	80	
11	72	67	70	-7	0	25	15	OM	73	68	75	70	73	OM	OM	OM	75	70	73	74	70	72	78	75	77	
12	87	71	79	3	0	34	24	OM	99	71	102	72	87	OM	OM	OM	85	72	79	82	70	76	82	75	79	
13	85	71	78	2	0	33	23	OM	96	70	105	71	88	OM	OM	OM	86	72	79	83	73	78	84	78	81	
14	87	71	79	3	0	34	24	OM	95	69	100	71	86	OM	OM	OM	86	72	79	84	73	79	84	78	81	
15	89	69	79	3	0	34	24	OM	100	66	104	69	87	OM	OM	OM	89	71	80	84	72	78	85	77	81	
16	92	69	81	6	0	36	26	OM	103	67	109	69	89	OM	OM	OM	95	72	84	90	72	81	90	77	84	
17	92	71	82	7	0	37	27	OM	103	70	112	72	92	OM	OM	OM	97	73	85	92	73	83	92	79	86	
18	92	69	81	6	0	36	26	OM	105	68	108	70	89	OM	OM	OM	97	74	86	92	75	84	90	81	86	
19	89	66	78	3	0	33	23	OM	104	63	104	66	85	OM	OM	OM	92	73	83	88	74	81	90	80	85	
20	91	62	77	3	0	32	22	OM	108	59	106	62	84	OM	OM	OM	96	70	83	92	72	82	92	79	86	
21	85	62	74	0	0	29	19	OM	102	58	106	61	84	OM	OM	OM	91	71	81	87	72	80	88	79	84	
22	81	44	63	-11	2	18	8	OM	96	41	96	44	70	OM	OM	OM	90	61	76	86	64	75	87	72	80	
23	75	47	61	-12	4	16	6	OM	87	41	94	45	70	OM	OM	OM	88	59	74	84	62	73	85	71	78	
24	76	46	61	-12	4	16	6	OM	90	41	98	45	72	OM	OM	OM	88	60	74	84	62	73	83	70	77	
25	82	55	69	-4	0	24	14	OM	96	51	102	56	79	OM	OM	OM	88	61	75	83	63	73	83	70	77	
26	79	56	68	-4	0	23	13	OM	96	53	104	55	80	OM	OM	OM	86	62	74	82	64	73	82	71	77	
27	77	54	66	-6	0	21	11	OM	86	52	92	54	73	OM	OM	OM	78	60	69	76	61	69	76	68	72	
28	80	56	68	-4	0	23	13	OM	91	53	93	56	75	OM	OM	OM	80	61	71	77	61	69	78	68	73	
29	86	60	73	2	0	28	18	OM	96	56	104	58	81	OM	OM	OM	86	62	74	82	62	72	81	69	75	
30	82	58	70	-1	0	25	15	OM	94	55	101	57	79	OM	OM	OM	83	62	73	79	63	71	80	70	75	

TOTAL 10 864 564 0 2895 1801  
 MEAN 84.4 62.7 73.5 -1.4 .3 28.8 18.8 .0 96.5 60.0101.5 62.6 82.0 .0 .0 .0 89.1 68.3 78.7 85.5 69.4 77.4 85.9 75.7 80.8

TEMPERATURE EXTREMES: HIGHEST 92 ON DAYS 16, 17, 18,  
 LOWEST 44 ON DAYS 22.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 6 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 0 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - SEPTEMBER 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA							VEGETATIVE WETTING	
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MEAN	MILES AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE	
1	.00	18	.00M	.00M	91	69	80	28	.204	88	82	52	82	76	9	DEW	
2	.00	19	.00M	.00M	92	71	82	21	.199	87	79	82	91	85	0		
3	.62	0	.00M	.00M	84	64	74	36	.134	94	94	64	72	81	12	RAIN	
4	.00	1	.00M	.00M	87	62	75	58	.256	70	73	39	76	65	0		
5	.00	2	.00M	.00M	83	64	74	53	.235	73	76	63	76	72	0		
6	.00	3	.00M	.00M	83	62	73	73	.249	70	68	51	76	66	0		
7	.00	4	.00M	.00M	83	60	72	50	.231	70	71	43	66	63	0		
8	.00	5	.00M	.00M	84	61	73	52	.256	68	71	46	60	61	0		
9	.00	6	.00M	.00M	85	64	75	75	.275	68	76	69	74	72	0		
10	.21	0	.00M	.00M	74	62	68	93	.091	88	90	90	97	91	8	RAIN	
11	.20	1	.00M	.00M	69	62	66	79	.041	100	100	70	90	90	0	RAIN	
12	.04	2	.00M	.00M	83	65	74	42	.106	97	97	72	85	89	0		
13	.00	3	.00M	.00M	84	68	76	70	.141	97	97	68	90	88	0		
14	.00	4	.00M	.00M	84	69	77	35	.113	87	90	85	87	87	6	DEW	
15	.02	5	.00M	.00M	86	69	77	21	.120	94	88	50	67	75	10	DEW RAIN	
16	.00	6	.00M	.00M	90	67	79	41	.263	79	82	47	79	72	4	DEW	
17	.00	7	.00M	.00M	91	67	79	43	.223	79	79	49	84	73	0		
18	.00T	8	.00M	.00M	89	69	79	28	.130	90	87	54	79	78	2	RAIN	
19	.00	9	.00M	.00M	85	68	77	27	.175	93	93	51	87	81	10	DEW	
20	.01	10	.00M	.00M	88	64	76	32	.214	81	75	44	66	67	6	DEW	
21	.00T	11	.00M	.00M	81	62	72	37	.212	68	71	43	54	59	1	RAIN	
22	.00	12	.00M	.00M	78	47	63	70	.247	72	77	34	64	62	3	DEW	
23	.00	13	.00M	.00M	75	47	61	54	.238	69	64	32	69	59	0		
24	.00	14	.00M	.00M	77	47	62	24	.178	90	75	31	70	67	4	DEW	
25	.00	15	.00M	.00M	79	50	65	22	.161	84	84	48	81	74	2	DEW	
26	.07	16	.00M	.00M	78	54	66	45	.141	87	87	81	90	86	10	RAIN	
27	1.64	0	.00M	.00M	68	55	62	24	.070	96	84	50	87	79	17	DEW RAIN	
28	.00	1	.00M	.00M	79	55	67	26	.171	93	84	39	78	74	13	DEW	
29	.00	2	.00M	.00M	85	58	72	33	.208	75	73	49	68	66	1	DEW	
30	.00	3	.00M	.00M	79	57	68	54	.192	73	75	46	63	64	0		
TOTAL	2.81							1346	5.474								
MEAN			.000		82.5	61.3	71.9	45	.182	83	81	55	77	74	4		

NORMAL PRECIPITATION FOR MONTH IS 4.20 INCHES; 24 HOUR MAXIMUM = 1.64 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 81 OF 0.50 OR MORE 21 OF 1.00 OR MORE 1

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.



AGROCLIMATOLOGICAL DATA - SEPTEMBER 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS		
	6PM TO 6AM		6AM TO 6PM		MAX GUST HR. SPEED	MINS. OF SUN- SHINE	PERCENT OF POSSIBLE SUNSHINE	LANG- LEYS* SOLAR RAD.	LANG- LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHT- A NING Y STROK- S ES	OBSERVED OR REPORTED HAIL HI-WIND	TIME OF PASS OF FRONT	TYPE OF FRONT
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED						MAX	MIN	MEAN	MAX	MIN				
1	SE	1	SE	3	10:00	9	441	57.2	454	OM	30.19	30.06	30.12					
2	V	0	V	3	11:00	13	151	19.6	282	OM	30.08	29.98	30.03					
3	V	1	NW	3	0:00	13	392	51.1	426	OM	30.05	29.96	30.00					
4	N	5	N	3	8:00	14	591	77.3	462	OM	30.08	30.02	30.05					
5	NE	5	NE	6	8:00	15	316	41.4	429	OM	30.17	30.07	30.12					
6	NE	4	NE	5	8:00	12	502	66.0	465	OM	30.21	30.14	30.17					
7	NE	3	N	5	10:00	15	679	89.5	515	OM	30.20	30.11	30.15					
8	NE	3	NE	5	11:00	15	593	78.3	497	OM	30.16	30.09	30.12					
9	NE	4	NE	7	7:00	17	1	.1	183	OM	30.15	30.05	30.10					
10	E	5	NE	5	11:00	16	0	.0	OM	OM	30.08	30.02	30.05					
11	E	3	V	2	20:00	10	128	17.0	280	OM	30.11	30.02	30.06					
12	E	3	E	4	23:00	12	159	21.2	303	OM	30.16	30.08	30.12					
13	E	4	SE	3	3:00	10	94	12.6	253	OM	30.22	30.12	30.17					
14	E	3	V	2	12:00	14	272	36.5	300	OM	30.18	30.08	30.13					
15	V	2	N	5	12:00	14	630	84.7	483	OM	30.10	29.99	30.04					
16	N	3	NE	4	8:00	14	641	66.5	468	OM	30.05	29.96	30.00					
17	N	3	N	3	3:00	9	153	20.7	341	OM	30.05	29.96	30.00					
18	V	1	V	3	13:00	12	197	26.7	372	OM	29.99	29.89	29.94					
19	V	1	V	3	15:00	15	391	53.2	439	OM	29.95	29.88	29.91					
20	N	2	NW	4	15:00	12	193	26.3	367	OM	29.99	29.92	29.95					
21	N	2	NW	6	16:00	21	252	34.4	403	OM	.00M	.00M	.00M					
22	NW	4	NW	6	10:00	17	695	95.3	538	OM	30.16	30.08	30.12					
23	N	4	NE	4	10:00	15	477	65.6	513	OM	30.22	30.11	30.16					
24	V	0	V	2	13:00	10	262	36.1	443	OM	30.14	29.98	30.06					
25	V	1	NE	3	23:00	13	OM	.0M	347	OM	29.99	29.89	29.94					
26	N	2	V	5	12:00	27	OM	.0M	307	OM	29.91	29.82	29.86					
27	V	1	SW	2	14:00	14	OM	.0M	444	OM	30.03	29.89	29.96					
28	V	0	V	2	14:00	14	OM	.0M	478	OM	30.14	30.03	30.08					
29	E	2	NE	3	14:00	11	OM	.0M	387	OM	30.18	30.08	30.13					
30	NE	3	NE	5	12:00	16	646	90.6	477	OM	30.21	30.09	30.15					
TOTAL							8656	11656	0									
MEAN		3		4		14	354		402	0	30.11	30.01	30.06	.0	.0			

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
 WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)  
 \*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
 WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

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	66	78	97	1957	57	1954
2	89	66	78	100	1957	56	1967
3	89	66	78	100	1957	56	1952
4	89	66	78	104	1925	54	1952
5	89	66	78	108	1925	55	1934
6	89	66	78	103	1925	57	1952
7	88	65	77	103	1925	55	1952
8	88	65	77	103	1925	57	1934
9	88	65	77	104	1925	58	1958
10	88	65	77	100	1954	50	1924
11	88	65	77	98	1954	50	1924
12	87	64	76	101	1927	44	1940
13	87	64	76	98	1962	50	1917
14	87	64	76	99	1927	52	1953
15	87	64	76	102	1927	54	1940
16	87	63	75	103	1927	49	1961
17	86	63	75	103	1927	49	1961
18	86	63	75	100	1931	48	1981
19	86	63	75	99	1931	45	1981
20	86	62	74	101	1925	48	1981
21	85	62	74	97	1925	45	1918
22	85	62	74	98	1955	44	1982
23	85	61	73	98	1940	47	1982
24	85	61	73	98	1921	46	1982
25	84	61	73	97	1979	46	1928
26	84	60	72	96	1923	49	1940
27	84	60	72	96	1933	44	1940
28	84	60	72	95	1954	40	1967
29	83	59	71	96	1954	39	1967
30	83	59	71	94	1933	38	1967

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

AGROCLIMATOLOGICAL DATA - OCTOBER 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA										SOIL TEMPERATURE DATA														
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES		
	MAX	MIN	MEAN	DFN*	BELOW 65	ABOVE 45	55		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	81	59	70	-1	0	25	15	OM	90	56	96	58	77	OM	OM	OM	86	62	74	81	63	72	81	70	76
2	82	55	69	-2	0	24	14	OM	91	51	99	56	78	OM	OM	OM	87	63	75	82	64	73	82	70	76
3	85	60	73	3	0	29	18	OM	94	55	103	57	80	OM	OM	OM	89	64	77	84	64	74	84	70	77
4	78	63	71	1	0	26	16	OM	85	64	92	67	80	OM	OM	OM	81	65	73	77	65	71	77	72	75
5	84	67	76	6	0	31	21	OM	98	66	107	68	88	OM	OM	OM	87	68	78	81	68	75	82	73	78
6	87	68	78	9	0	33	23	OM	98	66	108	67	88	OM	OM	OM	91	70	81	84	69	78	87	75	81
7	79	68	74	5	0	29	19	OM	86	67	91	69	80	OM	OM	OM	83	70	77	80	70	75	82	76	79
8	83	70	77	9	0	32	22	OM	95	69	97	71	84	OM	OM	OM	84	71	78	80	71	76	82	76	79
9	83	69	76	8	0	31	21	OM	90	68	92	69	81	OM	OM	OM	81	70	76	78	70	74	80	75	78
10	87	57	72	4	0	27	17	OM	99	65	100	67	84	OM	OM	OM	87	70	79	82	70	76	83	75	79
11	89	67	78	11	0	33	23	OM	102	66	107	68	88	OM	OM	OM	92	71	82	87	70	79	87	74	81
12	85	69	77	10	0	32	22	OM	101	68	102	70	86	OM	OM	OM	88	72	80	83	71	77	85	74	80
13	82	66	74	8	0	29	19	OM	89	66	96	67	82	OM	OM	OM	81	69	75	78	69	74	81	75	78
14	78	53	66	0	0	21	11	OM	86	51	85	53	69	OM	OM	OM	76	61	69	73	61	67	77	69	73
15	75	43	59	-7	6	14	4	OM	87	41	90	44	67	OM	OM	OM	76	55	66	73	56	65	75	64	70
16	74	48	61	-4	4	16	6	OM	85	45	86	47	67	OM	OM	OM	74	55	65	70	56	63	72	62	67
17	74	45	60	-5	5	15	5	OM	86	42	89	44	67	OM	OM	OM	74	50	62	70	52	61	72	60	66
18	70	50	60	-4	5	15	5	OM	81	49	87	50	69	OM	OM	OM	70	51	61	66	52	59	66	52	59
19	71	52	62	-2	3	17	7	OM	84	50	90	52	71	OM	OM	OM	71	54	63	67	54	61	69	60	65
20	77	54	66	2	0	21	11	OM	87	56	93	58	76	OM	OM	OM	76	55	66	72	55	64	72	61	67
21	80	60	70	7	0	25	15	OM	89	59	89	61	75	OM	OM	OM	78	60	69	73	59	66	74	65	70
22	77	45	61	-2	4	16	6	OM	87	42	88	45	67	OM	OM	OM	76	53	65	72	54	63	74	61	68
23	69	48	59	-4	6	14	4	OM	75	49	77	51	64	OM	OM	OM	68	53	61	66	54	60	68	60	64
24	64	40	52	-10	13	7	0	OM	73	37	76	38	57	OM	OM	OM	67	46	57	64	48	56	64	55	60
25	66	34	50	-12	15	5	0	OM	77	31	78	34	56	OM	OM	OM	71	46	59	66	48	57	66	55	61
26	70	38	54	-8	11	9	0	OM	79	34	81	38	60	OM	OM	OM	72	47	60	67	48	58	67	53	60
27	75	41	58	-3	7	13	3	OM	84	37	84	39	62	OM	OM	OM	73	47	60	68	48	58	69	54	62
28	73	47	60	-1	5	15	5	OM	83	42	86	43	65	OM	OM	OM	75	48	62	69	50	60	69	57	63
29	74	48	61	1	4	16	6	OM	81	44	85	46	66	OM	OM	OM	75	50	63	70	51	61	70	58	64
30	76	53	65	5	0	20	10	OM	86	49	89	51	70	OM	OM	OM	77	53	65	73	53	63	73	58	66
31	77	57	67	7	0	22	12	OM	85	56	85	58	72	OM	OM	OM	77	57	67	72	57	65	72	62	67

TOTAL 88 661 360 0 2713 1641

MEAN 77.6 54.6 66.1 .9 2.8 21.3 11.6 .0 67.5 52.9 91.2 55.0 73.1 .0 .0 .0 78.8 58.9 68.9 74.5 59.4 66.9 75.5 65.2 70.4

TEMPERATURE EXTREMES: HIGHEST 89 ON DAYS 11,  
 LOWEST 34 ON DAYS 25.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 0 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - OCTOBER 1932

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MEAN	MILES AIR MOVEMENT	INCHES EVAP.	1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE
1	.00	4	.00H	.00H	80	56	68	71	.244	70	73	46	75	66	0	
2	.00	5	.00H	.00H	82	57	70	40	.191	81	84	45	76	72	6	DEW
3	.00	6	.00H	.00H	84	57	71	26	.161	81	84	58	74	74	4	DEW
4	.00	7	.00H	.00H	76	60	68	55	.118	85	71	60	77	73	0	
5	.00	8	.00H	.00H	82	64	73	54	.153	71	76	53	74	69	0	
6	.00T	9	.00H	.00H	87	65	76	0H	.179	91	94	74	79	85	7	DEW RAIN FOG
7	.05	10	.00H	.00H	78	65	72	0H	.089	87	93	70	84	84	11	RAIN
8	.01	11	.00H	.00H	81	65	73	0H	.075	93	94	77	91	89	16	RAIN DEW
9	.08	12	.00H	.00H	82	66	74	39	.066	90	94	61	85	83	16	DEW FOG RAIN
10	.00	13	.00H	.00H	84	66	75	33	.109	87	93	57	74	78	11	DEW FOG
11	.00	14	.00H	.00H	87	67	77	46	.200	90	87	63	85	81	7	DEW
12	.00	15	.00H	.00H	82	67	75	58	.118	88	93	74	90	86	4	DEW
13	1.94	0	.00H	.00H	77	61	69	70	.060	94	94	90	90	92	19	RAIN
14	.21	0	.00H	.00H	69	53	61	66	.020	87	86	46	72	73	18	RAIN
15	.00	1	.00H	.00H	72	49	61	51	.207	80	83	43	64	68	5	DEW
16	.00	2	.00H	.00H	70	49	60	51	.224	77	75	35	46	58	0	
17	.00	3	.00H	.00H	71	44	58	76	.266	56	61	39	64	55	0	
18	.00	4	.00H	.00H	66	44	55	66	.166	64	64	46	65	60	0	
19	.00	5	.00H	.00H	63	49	59	81	.183	72	77	56	68	68	0	
20	.00	6	.00H	.00H	75	51	63	72	.171	81	87	56	87	78	5	DEW
21	.00	7	.00H	.00H	77	56	67	46	.114	93	90	58	56	74	12	DEW
22	.00	8	.00H	.00H	74	56	60	65	.144	71	71	61	78	70	0	
23	.00	9	.00H	.00H	64	46	55	69	.123	83	69	48	55	64	0	
24	.00	10	.00H	.00H	62	38	50	95	.145	65	60	33	48	52	0	
25	.00	11	.00H	.00H	64	38	51	50	.151	67	65	31	73	59	0	
26	.00	12	.00H	.00H	66	39	53	50	.155	62	73	23	54	53	0	
27	.00	13	.00H	.00H	68	40	54	30	.148	54	66	27	53	50	0	
28	.00	14	.00H	.00H	69	43	56	51	.172	56	63	35	48	51	0	
29	.00	15	.00H	.00H	70	44	57	71	.167	63	66	50	65	61	0	
30	.00	16	.00H	.00H	75	47	61	51	.136	67	84	50	65	67	1	DEW
31	.00	17	.00H	.00H	75	51	63	61	.131	70	84	62	81	74	1	DEW
TOTAL	2.29							1593	4.586							
MEAN			.000		74.7	53.0	63.9	57	.148	77	79	52	71	70	5	

NORMAL PRECIPITATION FOR MONTH IS 2.51 INCHES; 24 HOUR MAXIMUM = 1.94 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 5; OF 0.50 OR MORE 1; OF 1.00 OR MORE 1

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR.

OTHER DATA FOR 24 HOURS ENDING 7AM CST.

AGROCLIMATOLOGICAL DATA - OCTOBER 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL			SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS		
	6PM TO 6AM		6AM TO 6PM	MAX DUST	MINS. OF	PERCENT OF	LANG-LEYS*	LANG-LEYS*	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHT-A	OBSERVED OR	TIME OF PASS	TYPE OF FRONT
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR. SPEED	SUN-SHINE	POSSIBLE SUNSHINE	SOLAR RAD.	NET RAD.	MAX	MIN	MEAN	MAX	MIN	S	ES	HAIL HI-WIND
1	NE	3	NE	5	10:00	15	635	89.3	459	OM	30.14	30.00	30.07				
2	V	1	E	2	11:00	11	498	70.2	440	OM	30.04	29.93	29.98				
3	V	1	E	3	13:00	11	391	55.3	262	OM	30.04	29.96	30.00				
4	E	3	SE	3	12:00	12	OM	.OM	280	OM	30.04	29.98	30.01				
5	E	2	E	4	11:00	11	OM	.OM	414	OM	30.13	30.03	30.08				
6	E	3	SE	4	12:00	10	OM	.OM	195	OM	30.21	30.12	30.16				
7	E	2	S	4	10:00	14	29	4.1	212	OM	30.13	30.04	30.08				
8	SE	3	S	3	13:00	12	66	9.5	170	OM	30.06	29.97	30.01				
9	E	3	SW	5	10:00	14	218	31.4	297	OM	30.02	29.92	29.97				
10	V	1	W	5	11:00	14	287	41.4	389	OM	30.02	29.94	29.98				
11	V	3	SW	3	21:00	13	46	6.7	247	OM	30.07	29.98	30.02				
12	E	4	SE	5	16:00	27	20	2.9	136	OM	30.06	29.96	30.01				
13	SE	3	SW	6	13:00	18	21	3.1	119	OM	29.99	29.92	29.95				
14	NW	5	NW	7	11:00	21	642	93.7	431	OM	30.09	29.99	30.04				
15	NW	2	NW	7	12:00	19	647	94.7	436	OM	30.06	29.94	30.00				
16	W	2	NW	7	11:00	19	646	94.9	426	OM	30.13	29.93	30.03				
17	N	7	NE	5	11:00	19	511	75.3	327	OM	30.22	30.12	30.17				
18	E	5	E	6	10:00	19	549	81.0	353	OM	30.32	30.22	30.27				
19	NE	6	E	6	8:00	19	609	90.1	391	OM	30.30	30.19	30.24				
20	E	5	S	3	13:00	14	441	65.5	320	OM	30.22	30.13	30.17				
21	N	4	NW	5	0:00	18	232	34.6	267	OM	30.18	30.12	30.15				
22	N	8	N	6	2:00	21	310	46.3	263	OM	30.20	30.12	30.16				
23	NE	5	NE	8	10:00	19	235	35.2	245	OM	30.20	30.14	30.17				
24	NE	7	NE	7	8:00	21	593	89.0	410	OM	30.23	30.15	30.19				
25	NE	2	NW	5	11:00	17	605	91.1	389	OM	30.24	30.15	30.19				
26	N	4	V	3	8:00	13	610	92.1	393	OM	30.31	30.21	30.26				
27	N	3	SE	4	15:00	14	595	90.0	386	OM	30.33	30.14	30.23				
28	E	4	SE	6	11:00	17	614	93.2	389	OM	30.30	30.15	30.22				
29	E	5	SE	4	8:00	14	503	76.6	376	OM	30.23	.00M	.00M				
30	E	4	SE	4	11:00	13	427	65.2	325	OM	.00M	.00M	.00M				
31	E	5	SE	4	13:00	14	331	50.7	262	OM	.00M	.00M	.00M				
TOTAL							11311		10009	0							
MEAN		4		5		16	404		323	0	30.16	30.05	30.10	.0	.0		

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)  
\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## CLIMATOLOGICAL DATA

## AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
OCTOBER

DAY	DAILY NORMAL			RECORD TEMPERATURES	
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR
1	83	59	71	94 1954	42 1920
2	83	59	71	93 1954	39 1920
3	82	59	70	93 1911	40 1974
4	82	57	70	94 1941	42 1952
5	82	57	70	95 1954	42 1968
6	81	56	69	98 1954	42 1932
7	81	56	69	97 1954	38 1932
8	81	55	68	94 1941	41 1935
9	80	55	68	97 1916	40 1951
10	80	55	68	90 1938	40 1915
11	80	54	67	94 1923	36 1906
12	79	54	67	90 1954	38 1906
13	79	53	66	89 1919	38 1977
14	79	53	66	91 1916	36 1977
15	79	53	66	90 1954	34 1978
16	78	52	65	89 1941	34 1954
17	78	52	65	88 1962	33 1954
18	77	51	64	89 1962	33 1948
19	77	51	64	90 1938	34 1948
20	77	51	64	90 1943	33 1961
21	76	50	63	89 1941	34 1913
22	76	50	63	92 1941	34 1961
23	76	50	63	92 1941	36 1924
24	75	49	62	90 1927	29 1917
25	75	49	62	90 1931	30 1962
26	75	48	62	90 1940	29 1962
27	74	48	61	91 1940	30 1957
28	74	48	61	89 1940	27 1957
29	73	47	60	88 1940	29 1952
30	73	47	60	87 1940	25 1952
31	73	46	60	88 1940	28 1954

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
 NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

AGROCLIMATOLOGICAL DATA - NOVEMBER 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA											(IN DEGREES FARENHEIT)												SOIL TEMPERATURE DATA											
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES												
	MAX	MIN	MEAN	DFN*	BELOW	ABOVE			MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN										
					65	45	55																												
1	81	57	69	10	0	24	14	0	90	53	90	55	73	OM	OM	OM	77	59	68	73	59	66	73	64	69										
2	84	58	71	12	0	26	16	0	91	55	92	57	75	OM	OM	OM	83	60	72	78	60	69	77	65	71										
3	83	62	73	15	0	28	18	0	87	63	88	65	77	OM	OM	OM	77	62	70	73	62	68	75	67	71										
4	74	47	61	3	4	16	6	0	81	46	79	49	64	OM	OM	OM	74	56	65	71	57	64	71	64	68										
5	57	25	41	-17	24	0	0	14	66	21	65	25	45	OM	OM	OM	64	41	53	62	43	53	66	52	59										
6	56	29	43	-14	22	0	0	16	67	25	65	28	47	OM	OM	OM	61	39	50	58	41	50	60	48	54										
7	58	34	46	-11	19	1	0	15	69	30	69	33	51	OM	OM	OM	62	39	51	59	41	50	60	48	54										
8	66	37	52	-4	13	7	0	5	80	35	78	38	58	OM	OM	OM	65	41	53	61	42	52	61	50	56										
9	71	39	55	-1	10	10	0	5	83	34	82	36	59	OM	OM	OM	68	43	56	64	45	55	64	52	58										
10	75	42	59	3	6	14	4	5	84	37	85	40	63	OM	OM	OM	70	45	58	65	46	56	65	52	59										
11	76	49	63	8	2	18	8	0	86	45	88	47	68	OM	OM	OM	71	47	59	67	48	58	67	54	61										
12	73	51	62	7	3	17	7	0	78	53	78	55	67	OM	OM	OM	70	51	61	65	52	59	66	56	61										
13	74	35	55	0	10	10	0	6	75	32	76	35	56	OM	OM	OM	67	45	56	64	47	56	67	53	60										
14	57	35	46	-8	19	1	0	16	67	30	67	34	51	OM	OM	OM	60	41	51	57	42	50	60	47	54										
15	62	36	49	-5	16	4	0	9	74	33	73	35	54	OM	OM	OM	60	41	51	56	42	49	57	48	53										
16	60	37	49	-5	16	4	0	12	69	35	69	36	53	OM	OM	OM	59	40	50	55	41	48	57	47	52										
17	64	40	52	-2	13	7	0	0	73	42	75	43	59	OM	OM	OM	59	40	50	55	41	48	57	46	52										
18	58	49	54	1	11	9	0	0	60	49	61	51	56	OM	OM	OM	55	50	53	53	49	51	56	53	55										
19	59	54	57	4	8	12	2	0	60	54	62	56	59	OM	OM	OM	58	54	56	56	53	55	59	56	58										
20	57	54	56	3	9	11	1	0	56	54	58	55	57	OM	OM	OM	57	55	56	55	54	55	59	58	59										
21	63	54	59	6	6	14	4	0	64	54	66	56	61	OM	OM	OM	61	55	58	58	54	56	61	58	60										
22	70	59	65	13	0	20	10	0	74	60	75	61	68	OM	OM	OM	64	58	61	61	56	59	64	60	62										
23	71	55	63	11	2	18	8	0	76	53	75	54	65	OM	OM	OM	67	57	62	64	56	60	66	61	64										
24	72	57	65	13	0	20	10	0	83	56	81	58	70	OM	OM	OM	69	57	63	65	56	61	67	61	64										
25	59	35	47	-5	18	2	0	12	69	33	69	35	52	OM	OM	OM	63	42	53	60	43	52	64	51	58										
26	62	39	51	0	14	6	0	1	69	37	69	39	54	OM	OM	OM	60	42	51	56	43	50	58	49	54										
27	71	52	62	11	3	17	7	0	81	52	81	54	68	OM	OM	OM	66	52	59	62	51	57	63	55	59										
28	71	56	64	13	1	19	9	0	78	55	80	57	69	OM	OM	OM	65	55	60	62	54	58	64	58	61										
29	69	53	61	11	4	16	6	0	66	48	68	52	60	OM	OM	OM	64	56	60	62	56	59	65	62	64										
30	69	50	60	10	5	15	5	0	81	47	78	50	64	OM	OM	OM	67	56	62	64	56	60	66	60	63										

TOTAL 258 366 135 116 2237 1321

MEAN 67.4 46.0 56.7 2.6 8.6 12.2 4.5 3.9 74.6 44.0 74.7 46.3 60.5 .0 .0 .0 65.4 49.3 57.4 62.0 49.7 55.8 63.8 55.2 59.5

TEMPERATURE EXTREMES: HIGHEST 84 ON DAYS 2.  
LOWEST 25 ON DAYS 5.

TEMPERATURES: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
2 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - NOVEMBER 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MILES MEAN	AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN HRS	SOURCE	
1	.00T	18	.00M	.00M	75	56	66	30	.086	87	84	51	81	76	12	DEW
2	.00	19	.00M	.00M	81	57	69	30	.125	87	87	74	84	83	7	DEW
3	.08	20	.00M	.00M	76	59	68	20	.081	90	93	69	90	86	14	RAIN
4	.43	0	.00M	.00M	74	49	62	79	.100	86	80	37	55	65	16	RAIN
5	.00	1	.00M	.00M	59	35	47	85	.140	59	67	24	53	51	0	
6	.00	2	.00M	.00M	56	35	46	68	.120	66	64	30	60	55	0	
7	.00	3	.00M	.00M	57	37	47	47	.134	57	73	30	48	52	0	
8	.00	4	.00M	.00M	60	37	49	49	.168	51	51	29	43	44	0	
9	.00	5	.00M	.00M	64	40	52	40	.186	58	65	23	59	51	0	
10	.00	6	.00M	.00M	65	41	53	32	.145	70	58	33	64	56	0	
11	.00	7	.00M	.00M	68	44	56	48	.180	59	80	63	72	69	0	
12	.00T	8	.00M	.00M	67	48	58	72	.105	84	87	73	90	84	4	RAIN
13	1.24	0	.00M	.00M	67	39	53	117	.082	68	73	35	73	62	18	RAIN
14	.00	1	.00M	.00M	57	37	47	60	.144	59	59	50	77	61	0	
15	.00	2	.00M	.00M	56	37	47	65	.107	73	64	31	44	53	0	
16	.00	3	.00M	.00M	53	37	45	76	.153	53	60	52	66	58	0	
17	.00	4	.00M	.00M	58	37	48	88	.199	69	71	75	90	76	1	RAIN
18	1.75	0	.00M	.00M	53	47	50	69	.000M	93	93	90	90	92	21	RAIN
19	.33	0	.00M	.00M	55	50	53	72	.020	90	93	93	90	92	24	RAIN FOG
20	.05	1	.00M	.00M	54	52	53	79	.000	87	86	84	90	87	22	RAIN FOG
21	.00	2	.00M	.00M	59	52	56	85	.039	90	93	82	90	89	12	FOG
22	.00	3	.00M	.00M	63	56	60	41	.009	93	93	79	93	90	16	FOG RAIN
23	.03	4	.00M	.00M	67	56	62	16	.011	90	93	71	90	86	17	DEW FOG
24	.16	5	.00M	.00M	70	56	63	47	.083	91	89	60	68	77	16	DEW RAIN
25	.00	6	.00M	.00M	60	37	49	81	.092	67	70	52	62	63	0	
26	.00	7	.00M	.00M	56	37	47	76	.140	61	74	63	84	71	0	
27	.00	8	.00M	.00M	66	48	57	55	.079	86	86	73	87	83	3	DEW
28	.03	9	.00M	.00M	66	53	60	95	.046	87	87	93	90	89	9	RAIN
29	1.55	0	.00M	.00M	62	54	58	94	.009	87	90	49	77	76	24	RAIN
30	.00T	1	.00M	.00M	67	54	61	34	.153	77	82	87	90	84	24	RAIN FOG
TOTAL	5.65							1877	2.935							
MEAN			.000		63.0	45.9	54.5	63	.101	76	78	59	75	72	9	

NORMAL PRECIPITATION FOR MONTH IS 3.89 INCHES; 24 HOUR MAXIMUM = 1.75 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 10; OF 0.50 OR MORE 3; OF 1.00 OR MORE 3

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.



AGROCLIMATOLOGICAL DATA - NOVEMBER 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL					SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS		
	6PM TO 6AM		6AM TO 6PM		MAX GUST	MINS. OF SUNSHINE	PERCENT OF POSSIBLE SUNSHINE	LANG-LEYS* SOLAR RAD.	LANG-LEYS* NET RAD.	STATION PRESSURE IN INCHES	MAX	MIN	MEAN	MIXING RATIO**	MAX	MIN	D LIGHTNING STROKES	OBSERVED OR REPORTED HAIL HI-WIND	TIME OF PASS OF FRONT
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR. SPEED														
1	V		2	SE	3	10:00	10	524	80.4	351	OM	.00M	30.02	.00M					
2	SE		2	SE	4	15:00	14	132	20.3	220	OM	30.05	29.90	29.97					
3	SE		3	SW	5	21:00	23	51	7.9	177	OM	29.92	29.84	29.88					
4	NW		8	NW	10	9:00	23	357	55.2	322	OM	30.20	29.87	30.03					
5	NW		2	NW	8	11:00	25	OM	.0M	389	OM	30.33	30.20	30.26					
6	N		2	NE	6	10:00	21	OM	.0M	365	OM	30.36	30.26	30.31					
7	NE		3	NE	5	10:00	15	OM	.0M	342	OM	30.35	30.23	30.29					
8	E		4	NE	4	12:00	12	OM	.0M	337	OM	.00M	.00M	.00M					
9	NE		3	NE	4	13:00	18	OM	.0M	333	OM	30.34	30.25	30.30					
10	E		1	SE	4	11:00	13	OM	.0M	332	OM	30.37	30.26	30.31					
11	E		4	SE	5	15:00	15	OM	.0M	247	OM	30.28	30.08	30.18					
12	SE		4	SW	9	15:00	28	OM	.0M	108	OM	30.08	29.98	30.03					
13	NW		6	N	6	11:00	19	OM	.0M	353	OM	30.33	30.16	30.24					
14	E		4	S	4	14:00	16	OM	.0M	249	OM	30.26	30.14	30.20					
15	N		5	NE	7	9:00	23	OM	.0M	345	OM	30.34	30.22	30.28					
16	NE		6	E	6	21:00	17	OM	.0M	279	OM	30.32	30.24	30.28					
17	E		6	E	5	11:00	21	0	.0	60	OM	30.18	30.10	30.14					
18	NE		5	E	5	7:00	16	0	.0	55	OM	30.16	30.09	30.12					
19	NE		5	E	5	17:00	17	0	.0	36	OM	30.20	30.14	30.17					
20	E		6	E	6	9:00	18	0	.0	94	OM	30.20	30.16	30.18					
21	E		5	SE	4	21:00	14	14	2.3	77	OM	30.20	.00M	.00M					
22	E		3	V	2	12:00	8	11	1.8	108	OM	.00M	.00M	.00M					
23	V		2	SW	4	11:00	16	OM	.0M	240	OM	30.15	30.00	30.08					
24	NW		2	N	8	7:00	23	OM	.0M	180	OM	30.35	30.05	30.20					
25	NE		7	E	6	9:00	19	OM	.0M	256	OM	30.44	30.34	30.39					
26	E		5	SE	4	21:00	15	OM	.0M	240	OM	30.42	30.28	30.35					
27	E		4	SE	4	0:00	16	OM	.0M	159	OM	30.29	30.11	30.20					
28	SE		7	SE	7	15:00	23	0	.0	29	OM	30.11	29.90	30.00					
29	SW		6	SW	4	11:00	13	OM	.0M	294	OM	30.06	29.92	29.99					
30	V		1	NE	5	9:00	15	0	.0	58	OM	30.17	30.06	30.11					
TOTAL								1089		6635	0								
MEAN			4		5		18	91		221	0	30.24	30.10	30.17	.0	.0			

\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)  
\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## CLIMATOLOGICAL DATA

## AUBURN, ALABAMA

DAILY TEMPERATURE NORMAL AND EXTREMES  
NOVEMBER

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY MEAN	HIGH	YEAR	LOW	YEAR
1	72	46	59	90	1935	31	1930
2	72	46	59	90	1935	28	1963
3	71	45	58	88	1935	19	1954
4	71	45	58	84	1961	26	1954
5	71	44	58	84	1946	23	1982
6	70	44	57	89	1920	28	1962
7	70	44	57	90	1920	27	1959
8	69	43	56	85	1934	28	1951
9	69	43	56	84	1934	27	1951
10	69	43	56	83	1934	24	1956
11	68	42	55	82	1945	26	1926
12	68	42	55	83	1938	26	1968
13	68	42	55	82	1938	25	1963
14	67	41	54	84	1924	24	1963
15	67	41	54	82	1935	18	1969
16	67	41	54	81	1951	18	1940
17	66	41	54	83	1921	26	1943
18	66	40	53	83	1958	21	1951
19	66	40	53	83	1942	22	1951
20	65	40	53	82	1942	16	1914
21	65	40	53	80	1943	21	1937
22	65	39	52	80	1913	22	1937
23	64	39	52	78	1963	18	1956
24	64	39	52	79	1931	16	1970
25	64	39	52	80	1921	9	1950
26	63	38	51	80	1973	9	1950
27	63	38	51	78	1973	21	1950
28	63	38	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 FARENHEIT.  
 NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.  
 PAGE 11-4

AGROCLIMATOLOGICAL DATA - DECEMBER 1982

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA											(IN DEGREES FARENHEIT)											SOIL TEMPERATURE DATA								
	150 CM SHELTER TEMPERATURES				DEGREE			DAYS	CHILL HRS	5CM OVER GRASS		5CM OVER FALLOW SOIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES							
	MAX	MIN	MEAN	DFN*	BELOW		ABOVE			MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN					
					65	45	55																								
1	67	57	62	12	3	17	7	0	65	56	67	57	62	OM	OM	OM	62	57	60	60	56	58	63	60	62						
2	79	64	72	23	0	27	17	0	85	63	83	64	74	OM	OM	OM	69	62	66	66	60	63	68	63	66						
3	78	65	72	23	0	27	17	0	82	62	82	63	73	OM	OM	OM	70	62	66	67	61	64	70	66	68						
4	77	63	70	21	0	25	15	0	85	57	87	59	73	OM	OM	OM	69	61	65	65	60	63	69	64	67						
5	74	57	66	17	0	21	11	0	73	55	74	57	66	OM	OM	OM	66	61	64	64	60	62	68	65	67						
6	64	42	53	5	12	8	0	9	73	39	70	41	56	OM	OM	OM	64	49	57	61	49	55	66	56	61						
7	64	39	52	4	13	7	0	7	77	37	73	39	56	OM	OM	OM	63	44	54	59	45	52	62	53	58						
8	67	40	54	6	11	9	0	1	76	39	67	41	54	OM	OM	OM	62	44	53	58	45	52	60	52	56						
9	59	49	54	6	11	9	0	0	65	49	67	51	59	OM	OM	OM	58	51	55	55	50	53	59	55	57						
10	64	47	56	8	9	11	1	0	76	46	77	48	63	OM	OM	OM	62	50	56	58	50	54	60	55	58						
11	59	48	54	6	11	9	0	0	61	48	62	50	56	OM	OM	OM	56	50	53	54	50	52	57	55	56						
12	56	37	47	-1	18	2	0	7	56	37	57	39	48	OM	OM	OM	54	45	50	53	46	50	53	46	50						
13	40	24	32	-15	33	0	0	24	45	22	46	24	35	OM	OM	OM	47	34	41	46	36	41	52	43	48						
14	48	27	38	-9	27	0	0	20	58	26	59	28	44	OM	OM	OM	50	35	43	47	36	42	49	41	45						
15	57	35	46	-1	19	1	0	3	63	35	65	36	51	OM	OM	OM	52	36	44	48	37	43	50	43	47						
16	68	38	53	6	12	8	0	4	73	35	73	38	56	OM	OM	OM	57	43	50	54	44	49	56	49	53						
17	54	31	43	-4	22	0	0	17	64	29	65	31	48	OM	OM	OM	56	38	47	53	40	47	55	45	50						
18	48	26	37	-10	28	0	0	19	59	21	59	25	42	OM	OM	OM	53	35	44	49	36	43	51	41	46						
19	54	30	42	-5	23	0	0	16	64	27	65	28	47	OM	OM	OM	53	35	44	49	36	43	50	40	45						
20	62	30	46	-1	19	1	0	12	69	26	67	28	48	OM	OM	OM	55	36	46	51	37	44	53	44	49						
21	59	32	46	0	19	1	0	13	67	30	65	30	48	OM	OM	OM	53	36	45	49	37	43	51	42	47						
22	63	34	49	3	16	4	0	14	75	29	72	32	52	OM	OM	OM	56	37	47	51	38	45	52	39	46						
23	65	38	52	6	13	7	0	1	71	34	71	36	54	OM	OM	OM	56	38	47	52	39	46	53	39	46						
24	66	43	55	9	10	10	0	0	73	42	73	43	58	OM	OM	OM	58	42	50	54	42	48	55	47	51						
25	70	56	63	17	2	18	8	0	72	56	72	58	65	OM	OM	OM	59	51	55	55	49	52	58	52	55						
26	71	58	65	19	0	20	10	0	73	56	74	58	66	OM	OM	OM	63	55	59	59	53	56	61	57	59						
27	69	58	64	18	1	19	9	0	70	57	71	53	65	OM	OM	OM	62	55	59	59	54	57	61	58	60						
28	73	58	66	20	0	21	11	0	77	57	78	58	68	OM	OM	OM	65	56	61	61	55	58	63	59	61						
29	65	46	56	10	9	11	1	0	62	46	63	48	56	OM	OM	OM	60	52	56	58	51	55	62	57	60						
30	51	36	44	-2	21	0	0	14	53	36	54	38	46	OM	OM	OM	56	42	49	54	43	49	58	50	54						
31	45	36	41	-5	24	0	0	24	46	36	47	38	43	OM	OM	OM	47	42	45	45	43	44	50	47	49						

TOTAL 386 293 107 205 2108 1288  
 MEAN 62.5 43.4 52.9 5.9 12.5 9.5 3.5 6.6 68.0 41.5 67.9 43.4 55.6 .0 .0 .0 58.5 46.3 52.4 55.3 46.4 50.8 57.9 51.1 54.5

TEMPERATURE EXTREMES: HIGHEST 79 ON DAYS 2.  
 LOWEST 24 ON DAYS 13.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 7 DAYS WITH MINIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MINIMUM 0 DEGREES OR BELOW.

\* DEPARTURE FROM NORMAL.

M = MISSING OR UNOBSERVED DATA.  
 DATA FOR 24 HOUR PERIOD ENDING 7AM CST ON INDICATED DAY

AGROCLIMATOLOGICAL DATA - DECEMBER 1982

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA							VEGETATIVE WETTING
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MILES MEAN	AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN HRS	SOURCE	
1	.22	1	.00H	.00H	59	54	57	75	.025	93	90	69	84	84	24	RAIN FOG
2	.00T	2	.00H	.00H	69	59	64	79	.067	90	90	71	79	83	18	FOG
3	.00T	3	.00H	.00H	71	62	67	110	.092	84	87	66	81	80	5	RAIN
4	.00	4	.00H	.00H	69	60	65	106	.083	84	81	74	87	82	5	DEW
5	2.27	0	.00H	.00H	66	57	62	125	.000H	90	83	60	77	78	20	RAIN
6	.27	0	.00H	.00H	60	42	51	45	.049	82	82	51	67	71	15	DEW
7	.00	1	.00H	.00H	59	38	49	76	.099	77	77	50	62	67	9	DEW
8	.00	2	.00H	.00H	60	38	49	90	.152	66	65	61	81	68	0	
9	.08	3	.00H	.00H	55	47	51	78	.075	76	73	53	57	65	13	RAIN
10	.00T	4	.00H	.00H	58	46	52	56	.091	68	72	62	80	71	0	
11	.50	0	.00H	.00H	52	46	49	55	.043	86	86	86	90	87	22	RAIN
12	2.50	0	.00H	.00H	57	52	55	118	.000H	83	70	62	66	70	17	RAIN
13	.00	1	.00H	.00H	39	32	36	65	.000H	69	72	51	52	61	0	
14	.00	2	.00H	.00H	40	32	36	75	.000H	45	42	52	65	51	0	
15	.00	3	.00H	.00H	50	33	42	104	.136	69	81	67	90	77	0	
16	.81	0	.00H	.00H	58	41	50	129	.111	73	79	47	61	65	14	RAIN DEW
17	.00	1	.00H	.00H	53	34	44	102	.132	71	69	52	66	65	0	
18	.00	2	.00H	.00H	48	34	41	46	.000H	81	67	44	60	63	2	DEW
19	.05	3	.00H	.00H	49	34	42	50	.000H	67	85	36	55	61	7	RAIN
20	.00	4	.00H	.00H	55	36	46	91	.000H	73	79	37	45	59	4	DEW
21	.00	5	.00H	.00H	52	36	44	OM	.000H	58	61	26	57	51	0	
22	.00	6	.00H	.00H	59	37	48	OM	.000H	69	66	51	46	58	0	
23	.00	7	.00H	.00H	56	37	47	85	.000H	53	62	56	67	60	0	
24	.00	8	.00H	.00H	59	41	50	98	.112	72	78	61	70	70	0	
25	.01	9	.00H	.00H	60	50	55	112	.076	81	87	73	73	79	9	DEW RAIN
26	.00	10	.00H	.00H	65	55	60	105	.042	81	84	76	81	81	13	DEW
27	.00	11	.00H	.00H	63	56	60	87	.024	81	87	68	70	77	10	DEW
28	.06	12	.00H	.00H	66	57	62	165	.113	73	84	80	83	80	7	RAIN
29	1.44	0	.00H	.00H	60	47	54	56	.000H	80	83	68	67	75	21	RAIN
30	.00	1	.00H	.00H	50	36	43	75	.000H	62	64	62	73	65	0	
31	.00	2	.00H	.00H	39	36	38	59	.000H	82	82	57	80	75	4	RAIN DEW
TOTAL	8.21							2517	1.522							
MEAN			.000		56.6	44.0	50.3	87	.085	75	76	59	70	70	8	

NORMAL PRECIPITATION FOR MONTH IS 5.51 INCHES; 24 HOUR MAXIMUM = 2.50 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 11; OF 0.50 OR MORE 5; OF 1.00 OR MORE 3

\* NUMBER OF DAYS SINCE LAST OCCURRENCE OF 0.20 INCHES OR MORE OF PRECIPITATION.

T = TRACE OF PRECIPITATION.

M = MISSING OR UNOBSERVED DATA.

VEGETATIVE WETTING DATA FOR 24 HOUR PERIOD ENDING AT NOON CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.

AGROCLIMATOLOGICAL DATA - DECEMBER 1982

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS			FRONTS	
	6PM TO 6AM		6AM TO 6PM		MAX GUST	MINS. OF SUN-SHINE	PERCENT OF POSSIBLE SUNSHINE	LANG-LEYS* SOLAR RAD.	LANG-LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D LIGHTNING STROKES	OBSERVED OR REPORTED HAIL	WIND	TIME OF PASS-AGE	TYPE OF FRONT	
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR. SPEED					MAX	MIN	MEAN	MAX	MIN	S	ES	HI			
1	SE	5	SE	6	13:00	21	28	4.6	150	OM	30.17	30.08	30.12							
2	SE	5	SE	7	15:00	23	130	21.3	140	OM	30.23	30.15	30.19							
3	SE	6	SE	8	11:00	23	50	8.2	109	OM	30.20	30.08	30.14							
4	SE	5	SE	8	10:00	25	16	2.6	66	OM	30.10	29.92	30.01							
5	SE	6	SW	6	11:00	23	331	54.5	178	OM	30.03	29.85	29.94							
6	V	1	NW	5	13:00	21	390	64.4	262	OM	30.17	30.03	30.10							
7	N	6	NE	7	6:00	17	572	94.4	292	OM	30.36	30.23	30.29							
8	NE	7	NE	6	3:00	23	29	4.8	105	OM	30.47	30.37	30.42							
9	N	6	N	4	21:00	15	221	36.6	147	OM	30.40	30.28	30.34							
10	N	6	NE	4	4:00	12	0	.0	72	OM	30.28	30.10	30.19							
11	E	4	E	7	9:00	19	0	.0	28	OM	30.10	29.68	29.89							
12	NW	8	NW	10	6:00	30	27	4.5	111	OM	30.22	29.74	29.98							
13	N	6	SE	6	9:00	18	490	81.4	277	OM	30.34	30.21	30.27							
14	E	6	SE	6	14:00	21	375	62.2	230	OM	30.42	30.28	30.35							
15	E	8	SE	9	18:00	30	130	21.6	136	OM	30.28	29.91	30.09							
16	NW	6	NW	7	23:00	21	537	89.4	286	OM	30.22	30.09	30.15							
17	NW	7	NW	7	5:00	23	418	69.4	259	OM	30.26	30.15	30.20							
18	V	2	SE	3	9:00	11	498	82.9	290	OM	30.22	30.03	30.12							
19	SE	4	W	11	12:00	31	386	64.2	241	OM	30.10	29.90	30.00							
20	W	2	SW	7	14:00	27	559	93.0	285	OM	30.15	29.98	30.06							
21	NW	3	NW	2	12:00	12	529	88.0	283	OM	30.24	30.15	30.19							
22	V	0	SE	5	15:00	15	453	75.4	233	OM	30.26	30.16	30.21							
23	E	5	SE	6	12:00	19	362	60.2	239	OM	30.23	30.10	30.16							
24	E	7	SE	8	8:00	21	0	.0	93	OM	30.18	30.07	30.12							
25	SE	6	SE	7	8:00	21	90	15.0	79	OM	30.29	30.18	30.23							
26	SE	5	SE	6	13:00	17	6	1.0	67	OM	30.30	30.22	30.26							
27	S	6	SE	9	15:00	29	OM	.0M	136	OM	30.23	30.07	30.15							
28	SE	9	W	5	5:00	21	0	.0	41	OM	30.11	30.03	30.07							
29	NW	3	NW	5	15:00	15	0	.0	119	OM	30.19	29.99	30.09							
30	N	6	N	5	5:00	16	0	.0	52	OM	30.23	30.14	30.19							
31	NE	4	NE	4	17:00	13	0	.0	181	OM	30.29	30.20	30.25							
TOTAL							6627		5187	0										
MEAN		5		6		20	221		167	0	30.23	30.08	30.16	.0	.0					

\* ONE LANGLEY = ONE GRAH-CALORIE PER SQUARE CENTIMETER.  
WIND SPEEDS ARE IN KNOTS (1 KNOT= 1.15 MPH)  
\*\* MIXING RATIO IS PARTS PER HUNDRED MILLION.

M = MISSING OR UNOBSERVED DATA.  
WIND GUST, SUNSHINE & RADIATION ARE FROM MIDNIGHT-TO-MIDNIGHT ON INDICATED DAY

## 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	37	50	80 1933	19 1957
2	61	37	49	79 1982	23 1944
3	61	37	49	78 1982	17 1960
4	61	37	49	78 1933	20 1929
5	60	37	49	76 1961	24 1960
6	60	36	48	81 1924	20 1937
7	60	36	48	77 1951	13 1937
8	60	36	48	78 1978	20 1959
9	60	36	48	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	35	47	81 1926	-1 1962
14	58	35	47	76 1925	0 1962
15	58	35	47	76 1971	15 1962
16	58	35	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	58	35	47	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 1906
25	57	35	46	75 1926	19 1966
26	57	35	46	77 1911	18 1935
27	57	35	46	73 1971	17 1935
28	57	35	46	74 1937	9 1925
29	57	35	46	76 1974	15 1925
30	57	34	46	75 1923	12 1961
31	57	35	46	77 1923	17 1961

ALL TEMPERATURES ARE IN DEGREES FARENHEIT.  
 NORMALS FOR PERIOD 1941-70. RECORDS BEGIN WITH 1906 DATA.

CLIMATOLOGICAL DATA  
 AUBURN, ALABAMA  
 TEMPERATURE AND PRECIPITATION  
 NORMALS, MEANS AND EXTREMES

MONTH	TEMPERATURE						MEAN NO OF DEGREE DAYS	MEAN NUMBER OF DAYS				RAINFALL							
	NORMALS			EXTREMES				BASE-65 DEGREES	90 OR ABOVE	32 OR BELOW	32 OR BELOW	0 OR BELOW	NORMAL TOTAL	MAXIMUM TOTAL	MINIMUM TOTAL	24 HOUR MAX			
	MAX	MIN	MEAN	HIGH	YEAR	LOW	YEAR										YEAR	YEAR	YEAR
JAN	57.1	34.9	46.0	82	1975	0	1963	598	0	0	11	0	4.83	12.09	1936	.49	1927	5.23	1912
FEB	60.3	36.7	48.5	82	1962	8	1958	469	0	0	8	0	5.32	17.61	1961	1.50	1943	7.83	1961
MAR	66.6	42.4	54.5	89	1923	12	1980	349	0	0	4	0	6.93	17.47	1929	.30	1918	5.06	1944
APR	76.4	51.0	63.7	94	1942	27	1940	112	0	0	0	0	5.21	18.07	1964	.50	1915	5.60	1981
MAY	84.3	58.5	71.4	98	1962	35	1960	9	5	0	0	0	3.90	10.33	1915	.36	1914	4.53	1915
JUN	89.8	65.6	77.7	107	1933	39	1956	0	15	0	0	0	4.25	8.64	1909	.57	1931	3.64	1928
JUL	90.9	68.3	79.6	108	1930	54	1967	0	18	0	0	0	5.38	15.73	1916	1.39	1914	7.00	1948
AUG	90.9	67.7	79.3	106	1925	56	1952	0	18	0	0	0	4.07	11.03	1944	.01	1925	3.73	1939
SEP	86.5	63.2	74.9	108	1925	38	1967	0	11	0	0	0	4.20	13.13	1965	.36	1919	7.27	1965
OCT	78.0	52.3	65.2	98	1954	25	1952	98	1	0	0	0	2.51	8.41	1970	.00	1963	3.55	1906
NOV	66.9	41.3	54.1	90	1935	9	1950	335	0	0	4	0	3.89	17.77	1948	.23	1924	7.05	1948
DEC	58.5	35.5	47.0	84	1924	-1	1962	558	0	0	10	0	5.51	14.27	1953	.82	1955	6.22	1953
YEAR	75.5	51.4	63.5	108	1930	-1	1962	2528	68	0	37	0	56.00	62.95	1975	28.44	1954	7.83	1961

TEMPERATURE IN DEG. F; RAINFALL IN INCHES  
 NORMALS BASED ON 1941-70 DATA. MEANS AND EXTREMES BEGIN WITH 1906 DATA

## 1982 AGROCLIMATOLOGICAL DATA

AUBURN, ALABAMA

## 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	LANGLEYS**	
					DAYS	DFN#	DAYS	DFN#									SOLAR RAD.	NET RAD.
JAN	52.4	31.2	41.8	-4.2	0	0	18	7	713	115	4.54	-2.29	.93	8404	5898	0M		
FEB	59.4	38.6	49.0	.5	0	0	6	-2	442	-27	8.84	3.52	2.68	7038	6823	0M		
MAR	68.8	47.6	58.2	3.7	0	0	2	-2	261	-88	1.84	-5.09	3.94	7060	10427	0M		
APR	71.4	50.5	61.0	-2.7	0	0	1	1	149	37	9.04	3.83	4.86	10857	11696	0M		
MAY	84.5	60.0	72.3	.9	3	-2	0	0	4	-5	2.49	-1.41	6.79	13371	15911	0M		
JUN	89.0	66.2	77.6	-1.1	12	-3	0	0	0	0	3.68	-1.57	7.81	12169	15607	0M		
JUL	89.6	69.4	79.5	-1.1	16	-2	0	0	0	0	4.88	-1.50	7.11	12652	14262	0M		
AUG	88.6	69.1	78.9	-1.4	11	-7	0	0	0	0	3.53	-1.54	6.23	9436	13650	0M		
SEP	84.4	62.7	73.5	-1.4	6	-5	0	0	10	10	2.81	-1.39	5.47	8856	11656	0M		
OCT	77.6	54.6	66.1	.9	0	-1	0	0	88	-10	2.29	-1.22	4.59	11311	10009	0M		
NOV	67.4	46.0	56.7	2.6	0	0	2	-2	258	-77	5.65	1.76	2.93	1089	6635	0M		
DEC	62.5	43.4	52.9	5.9	0	0	7	-3	386	-172	8.21	2.70	1.52	6627	5187	0M		
YEAR	74.6	53.3	64.0	.5	48	-20	36	-1	2311	-217	57.80	1.80	54.88	108870	127761	0		

\* DEPARTURE FROM 1941-70 NORMAL.

\*\* ONE LANGLEY = ONE GRAM-CALORIE PER SQUARE CENTIMETER.

((( NOTE ))) EVAPORATION, SUNSHINE AND RADIATION DATA ARE NOT ADJUSTED FOR MISSING VALUES



Estimated daylength, sunrise and sunset times for Auburn, Alabama  
 All sunrise and sunset calculations are for Central Standard Time.

Latitude 32 36 N., Longitude 85 30 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.
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
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
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
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
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
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
31	10:34	6:38	5:12									30	10:33	6:39	5:11

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.
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
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
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
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
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
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.
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
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
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
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
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
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
31	12:33	5:30	6:03									30	12:31	5:31	6:02

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.
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
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
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
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
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
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

\*\*\* Add one 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 Southeast U.S. have shown that the above values are generally within 5 minutes (and most cases 3) of officially published tables. An additional error of less than one 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.

Estimated daylength, sunrise and sunset times for Auburn, Alabama  
 All sunrise and sunset calculations are for Central Standard Time.

Latitude 32 36 N., Longitude 85 50 W.

MAY

DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		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

DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		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

DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		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

DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET	DATE	DAY LENGTH	RISE	SET
	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		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																

\*\*\*\* Add one 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 Southeast U.S. have shown that the above values are generally within 5 minutes (and most cases 3) of officially published tables. An additional error of less than one minute for each 2 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.

Estimated daylength, sunrise and sunset times for Auburn, Alabama  
 All sunrise and sunset calculations are for Central Standard Time.

Latitude 32 36 N., Longitude 85 30 W.

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.
1	12:52	5:16	6:07	2	12:50	5:16	6:06	3	12:49	5:17	6:05	4	12:46	5:18	6:03
6	12:42	5:19	6:01	7	12:39	5:20	5:59	8	12:37	5:20	5:59	9	12:35	5:21	5:56
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
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
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
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.
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
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
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
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
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
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
31	10:49	6:01	4:50									30	10:51	6:00	4:51

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.
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
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
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
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
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
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.
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
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
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
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
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
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
31	10:04	6:43	4:48									30	10:04	6:43	4:47

\*\*\* Add one 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 Southeast U.S. have shown that the above values are generally within 5 minutes (and most cases 3) of officially published tables. An additional error of less than one 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.





*Information contained herein is available to all persons regardless  
of race, color, sex, or national origin.*