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**1980**  
**auburn university**  
**micrometeorological**  
**data**

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Agricultural Weather Series No. 20  
Agricultural Experiment Station  
Gale A. Buchanan, Director

February 1981  
Auburn University  
Auburn University, Alabama

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**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL WEATHER SERVICE  
Environmental Studies Service Center  
Nuclear Science Center - Room 314  
Auburn University, AL 36849

TO: All Users of Auburn Climatological Data

The 1980 summary of Auburn weather contains several new features.

First, a table of normal and record temperatures has been added for each month. This table lists the normal maximum, minimum, mean, record maximum, and record minimum for each day. The normals are based on the period 1941-1970, which is considered as the "standard" period for comparison. The record temperatures are those found over the period 1906 through 1980.

Each monthly table has been made nearly self-explanatory with the table headings and footnotes expanded. The units of measurement, period of measurement, and other information is listed.

The table on page 13-1 has been expanded to include listings of temperature and precipitation extremes. Also listed are the mean number of days the temperature is above or below a specified value.



## 1980 AUBURN MICROMETEOROLOGICAL DATA

All data in this publication were recorded at the National Weather Service Micrometeorology Station located at the south end of the Agronomy Farm at Auburn University. The Station was established in September, 1963, in cooperation with the Agronomy and Soils Department. The observations were made by the National Weather Service's Environmental Studies Service Center personnel.

Pages 1-1 through 12-4 list daily weather data. Three tables of data are presented for each month. Summary tables of 1980 weather and normal values of certain parameters are on pages 13-1 and 14-1.

The appendix contains a list of other climatological publications for Alabama prepared by the NWS/ESSC staff.

All times, unless otherwise indicated, are in Central Standard Time. Air and soil temperatures, chill hours, evaporation pan readings and precipitation amounts are for a 24-hour period ending at 7:00 a.m. central standard time for the day indicated. Vegetative Wetting data are the number of hours of wetting during the 24-hour period ending at noon. Hygrothermograph and 14-foot level wind observations are for the period indicated. All other readings are for a 24-hour period from midnight to midnight for the indicated date.

Temperatures at 5 cm are measured over grass and over fallow soil. Soil temperatures are measured under bare soil. All other instruments are exposed over sod.

Evaporation is measured with a Class A National Weather Service evaporation pan.

Degree days are the differences between the mean temperature and the base temperature, either above or below.

Unless otherwise indicated, units in this publication are as follows:

Temperatures in degrees Fahrenheit  
Relative humidity as a percentage  
Average wind speed in knots  
Wind gusts in knots  
Solar radiation in langleys (gram-calorie/cm<sup>2</sup>)  
Precipitation and evaporation in inches

Data prepared by:

NOAA-National Weather Service  
Environmental Studies Service Center  
Nuclear Science Center - Room 314  
Auburn University, AL 36849  
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AGROCLIMATOLOGICAL DATA - JANUARY 1980

ALBURN, 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	MEAN	MAX	MIN	MEAN	PAX	PIN	MEAN	MAX	MIN	MEAN	PAX	MIN	MEAN	PAX	MIN	MEAN
1	43	36	40	-6	25	0	C	24	44	32	45	34	40	OM	OM	OM	45	39	42	46	42	44	46	43	45	
2	43	29	36	-10	29	0	0	24	43	24	45	26	36	CM	OM	OM	44	33	39	44	36	40	44	39	42	
3	58	31	45	-1	20	0	0	14	66	21	70	22	46	CM	OM	OM	51	40	46	54	43	49	47	42	45	
4	60	37	49	3	16	4	0	14	66	36	71	35	53	CM	OM	OM	48	39	44	51	42	47	46	41	45	
5	45	33	39	-7	26	0	0	24	45	32	47	34	41	CM	CM	OM	47	37	42	48	39	44	47	42	45	
6	42	23	33	-13	32	C	0	24	54	17	55	20	38	CM	OM	OM	51	32	42	48	36	42	46	38	42	
7	48	23	36	-10	29	0	C	17	57	21	61	23	42	OM	OM	OM	53	32	43	49	35	42	45	38	42	
8	59	39	49	3	16	4	C	2	56	38	58	40	49	CM	CM	OM	52	39	46	51	40	46	49	41	45	
9	64	56	60	14	5	15	5	0	64	54	67	56	62	OM	OM	OM	59	55	57	58	55	57	55	51	53	
10	62	48	55	9	10	10	C	0	66	44	67	43	55	OM	OM	OM	60	52	56	59	54	57	55	53	54	
11	51	45	48	2	17	3	C	0	50	43	48	42	45	OM	OM	OM	53	51	52	53	52	53	53	51	52	
12	64	38	51	5	14	6	0	6	70	36	71	38	55	OM	OM	OM	61	40	51	58	45	52	54	48	51	
13	50	38	44	-2	21	0	0	7	57	37	57	39	48	OM	OM	OM	50	40	45	49	43	46	49	44	47	
14	47	36	42	-4	23	0	0	20	50	36	52	38	45	CM	OM	OM	48	40	44	47	42	45	46	44	45	
15	62	37	50	4	15	5	C	13	66	37	71	36	54	CM	OM	OM	58	43	51	56	47	52	52	45	49	
16	62	42	52	6	13	7	0	5	70	36	71	37	54	CM	OM	OM	56	46	51	56	49	53	54	48	51	
17	60	48	54	8	11	9	C	0	64	48	63	47	55	OM	OM	OM	55	46	51	55	48	52	53	48	51	
18	61	56	59	13	6	14	4	0	62	54	58	52	55	CM	OM	OM	58	55	57	58	55	57	57	52	55	
19	72	45	59	13	6	14	4	1	80	41	81	44	63	OM	OM	OM	68	46	57	65	49	57	60	51	56	
20	70	41	56	10	5	11	1	4	77	38	80	41	61	OM	OM	OM	68	45	57	64	48	56	59	51	55	
21	67	42	55	9	10	10	0	1	76	40	76	43	60	CM	OM	OM	66	45	56	63	48	56	58	50	54	
22	62	48	55	9	10	10	C	0	72	48	63	47	55	CM	OM	OM	58	50	54	54	53	54	55	52	54	
23	60	38	49	3	16	4	0	6	61	34	56	34	47	OM	OM	OM	57	46	52	57	51	54	55	51	53	
24	45	25	35	-11	30	0	0	24	52	19	47	21	34	CM	CM	OM	53	36	45	52	42	47	52	42	47	
25	56	29	43	-3	22	0	0	13	62	32	56	30	43	OM	OM	OM	55	36	46	45	41	43	50	42	46	
26	57	45	51	4	14	6	0	0	57	46	58	47	53	CM	CM	OM	51	43	47	51	43	47	49	44	47	
27	49	47	48	1	17	3	0	0	54	33	55	35	45	CM	OM	OM	51	48	50	51	49	50	50	49	50	
28	51	36	44	-3	21	0	C	10	54	33	55	35	45	OM	OM	OM	53	39	46	52	43	48	51	46	49	
29	58	35	47	0	18	2	0	13	66	30	61	28	45	OM	OM	OM	62	41	52	58	45	52	54	46	50	
30	58	34	46	-1	19	1	0	13	66	30	61	29	45	CM	OM	OM	61	42	52	57	45	51	53	46	50	
31	60	34	47	0	18	2	0	7	73	32	67	32	50	CM	OM	OM	60	41	51	55	45	50	52	46	49	

TOTAL 538 140 14 286 1510 1102  
 MEAN 56.3 38.5 47.4 1.4 17.4 4.5 0.5 9.2 61.6 35.5 61.2 36.4 48.8 0.0 0.0 0.0 55.2 42.5 48.9 53.7 45.3 49.5 51.5 45.9 48.7

TEMPERATURE EXTREMES: HIGHEST 72 ON DAYS 15,  
 LOWEST 23 ON DAYS 6, 7,

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 6 DAYS WITH MINIMUM 32 DEGREES OR BELOW;  
 0 DAYS WITH MAXIMUM 50 DEGREES OR ABOVE; 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 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUI- VALENT (IN.)	DRY* DAYS (IN.)	INDEX BY VOL.	PERCENT	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	0.0	7	0.0	M C.0 M	41	36	35	75	0.016	89	89	76	89	86	3	FCG
2	0.0	8	0.0	M C.0 M	41	33	37	46	0.0 M	95	96	34	58	71	16	DEW
3	0.0	9	0.0	M C.0 M	55	34	45	22	0.0 M	73	96	35	50	64	1	DEW
4	0.25	0	0.0	M C.0 M	54	36	45	65	0.103	66	100	96	89	88	10	RAIN
5	0.03	1	0.0	M C.0 M	45	33	35	113	0.010	75	75	5	64	55	5	RAIN
6	0.01	2	0.0	M C.0 M	CM	CM	CM	76	0.0 M	81	92	37	52	66	1	DEW
7	0.0 T	3	0.0	M C.0 M	CM	OM	OM	72	0.0 M	59	75	90	93	79	3	RAIN
8	0.15	4	0.0	M C.0 M	53	36	45	61	0.020	59	76	100	100	84	24	RAIN
9	0.15	5	0.0	M C.0 M	59	53	56	17	0.012	100	100	90	97	97	19	RAIN
10	0.0	6	0.0	M C.0 M	60	48	54	39	0.031	97	97	100	100	99	11	FCG
11	0.01	7	0.0	M C.0 M	51	45	48	115	0.011	100	100	90	97	97	20	RAIN
12	0.44	8	0.0	M C.0 M	57	39	48	73	0.036	71	44	27	43	46	12	RAIN
13	0.0	9	0.0	M C.0 M	45	38	42	92	0.187	31	40	60	100	56	0	
14	0.02	10	0.0	M C.0 M	44	37	41	63	0.011	100	100	67	86	88	17	RAIN
15	0.0	11	0.0	M C.0 M	56	37	47	46	0.071	100	100	64	90	89	13	FCG
16	0.0	12	0.0	M C.0 M	60	41	51	3E	0.053	89	93	72	90	86	14	DEW
17	0.08	13	0.0	M C.0 M	54	43	49	74	0.078	97	97	93	100	97	18	RAIN
18	1.30	0	0.0	M C.0 M	57	52	55	48	0.0 M	100	100	65	80	86	24	RAIN
19	0.0	1	0.0	M C.0 M	68	45	57	47	0.0 M	96	93	50	80	80	13	DEW
20	0.0	2	0.0	M C.0 M	66	45	56	21	0.078	93	100	58	62	78	8	DEW
21	0.0	3	0.0	M C.0 M	66	45	56	22	0.107	71	61	39	57	57	0	
22	0.0 T	4	0.0	M C.0 M	55	45	50	30	0.081	64	80	100	100	86	1	RAIN
23	1.21	0	0.0	M C.0 M	55	39	47	55	0.040	96	82	47	54	70	21	RAIN
24	0.0	1	0.0	M C.0 M	CM	CM	CM	92	0.0 M	66	81	39	53	60	0	
25	0.0	2	0.0	M C.0 M	51	33	42	64	0.0 M	70	85	67	93	79	0	
26	0.35	0	0.0	M C.0 M	50	39	45	45	0.035	100	100	100	100	100	19	RAIN
27	0.21	0	0.0	M C.0 M	50	37	44	51	0.0	100	100	93	96	97	24	RAIN
28	0.0 T	1	0.0	M C.0 M	50	37	44	22	0.0	96	89	49	73	77	13	DEW
29	0.0	2	0.0	M C.0 M	56	37	48	36	0.106	83	85	55	71	74	1	DEW
30	0.0	3	0.0	M C.0 M	57	37	47	45	0.105	89	79	51	64	71	0	
31	0.49	0	0.0	M C.0 M	54	37	46	72	0.073	96	89	66	63	79	18	RAIN
TOTAL	4.70							1785	1.264							
MEAN		0.0			54.0	35.9	46.9	58	0.055	84	87	65	79	79	11	

NORMAL PRECIPITATION FOR MONTH IS 4.83 INCHES; 24 HOUR MAXIMUM = 1.30 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 14; 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 - JANUARY 1980

ALBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS	
	6PM TO 6AM		6AM TO 6PM		MAX GUST		MIN.	PERCENT	LANG-LEYS*	LANG-LEYS*	STATION PRESSURE			MIXING RATIO**		D LIGHT-NING STRUCK-S	OBSERVED OR REPORTED HAIL III-WIND	TIME OF PASS	TYPE OF FRONT
	DIR.	AVER SPEED	DIR.	AVER SPEED	HR.	SPEED	SUN-SHINE	PERCENT SUNSHINE	SOLAR RAD.	NET RAD.	MAX	MIN	MEAN	MAX	MIN				
1	W	4	NW	6	5:00	12	7	1.2	50	OP	30.07	29.57	30.02	OH	CM	0			
2	W	1	V	3	12:00	11	473	76.3	238	CP	30.13	30.06	30.10	CM	CM	0			
3	W	1	V	3	22:00	15	335	56.0	189	OP	30.16	29.97	30.07	CM	CM	0			
4	E	6	NW	6	22:00	21	0	C.C	16	OP	30.03	29.88	29.96	OH	CM	0		1100	COLD
5	NW	7	NW	9	14:00	23	295	48.8	199	OP	30.21	30.03	30.12	CM	CM	0			
6	NW	2	V	3	13:00	11	473	76.1	247	CP	30.27	30.16	30.21	CM	CM	0			
7	SE	5	S	5	13:00	13	0	C.C	56	OP	30.16	30.05	30.10	CM	CM	0			
8	S	3	S	3	3:00	12	0	C.C	40	OP	30.15	30.06	30.10	OH	CM	0		0700	COLD
9	W	1	V	4	12:00	14	76	12.5	89	OH	30.30	30.14	30.22	OH	OH	0			
10	E	3	E	7	23:00	21	0	C.C	25	OP	30.37	30.19	30.28	CM	CM	0			
11	E	9	V	5	1:00	21	89	14.6	75	OP	30.19	29.97	30.08	OH	CM	0			
12	V	8	N	9	2:00	25	176	26.6	128	OP	30.30	30.17	30.24	CM	CM	0			
13	E	7	NE	7	9:00	18	16	2.6	63	OP	30.21	30.07	30.14	OH	CM	0			
14	V	4	N	4	15:00	12	371	60.4	150	OP	30.17	30.07	30.12	OH	CM	0			
15	N	6	SE	3	8:00	10	328	53.2	152	OP	30.27	30.17	30.22	CM	CM	0			
16	E	3	E	5	12:00	14	213	34.6	105	OP	30.24	30.13	30.18	CM	CM	0			
17	E	5	SE	3	5:00	18	0	C.C	24	OP	30.12	30.04	30.08	CM	CM	0			
18	V	4	NW	4	2:00	13	316	51.1	175	OP	30.21	30.03	30.12	CM	CM	1		0600	COLD
19	N	5	V	3	10:00	12	564	51.0	259	OP	30.35	30.21	30.28	CM	CM	0			
20	M	C	M	0	11:00	5	460	77.3	226	OP	30.35	30.23	30.29	CM	CM	0			
21	M	C	V	3	5:00	5	113	16.1	93	OP	30.23	30.05	30.14	OH	CM	0			
22	V	2	S	6	17:00	16	0	C.C	34	OP	30.05	29.68	29.86	OP	OH	0		1700	COLD
23	NW	6	NW	10	8:00	23	412	65.5	232	OP	30.08	29.70	29.89	CM	CM	0			
24	W	2	SW	7	14:00	21	575	51.9	275	OP	30.07	29.50	29.99	OH	CM	0			
25	S	2	SW	5	13:00	17	0	C.C	71	OP	29.96	29.89	29.93	OH	OH	0			
26	S	2	NE	6	18:00	16	0	C.C	22	OP	29.95	29.88	29.91	CM	CM	0			
27	N	4	N	3	11:00	11	0	C.C	39	OP	30.10	29.90	30.00	CM	CM	0		1400	COLD
28	N	4	NW	4	4:00	14	483	76.4	256	CP	30.21	30.10	30.15	CM	CM	0			
29	N	4	N	4	10:00	14	431	66.1	221	CP	30.30	30.16	30.23	CM	CM	0			
30	N	5	SE	3	14:00	11	164	25.0	157	OP	30.26	29.99	30.13	CM	CM	0			
31	V	5	NW	11	6:00	23	351	55.2	202	CP	30.32	29.98	30.15	CM	CM	0			
TOTAL							6765		4154	0						1			
MEAN	4		5		15		210		135	0	30.19	30.03	30.11	0.0	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

## ALBURN, 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	75	1949	8 1962
12	57	35	46	81	1949	6 1918
13	57	35	46	75	1937	6 1918
14	57	35	46	76	1932	16 1962
15	57	35	46	75	1952	10 1948
16	57	35	46	75	1943	10 1972
17	57	35	46	75	1952	6 1977
18	57	35	46	77	1929	7 1977
19	57	35	46	76	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	76	1920	0 1963
25	57	35	46	76	1943	1 1962
26	58	35	47	79	1950	9 1940
27	58	35	47	76	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.

AGROCLIMATOLOGICAL DATA - FEBRUARY 1980

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	38	18	28	-19	37	0	0	24	45	15	41	18	30	OM	OM	OM	51	35	43	47	40	44	49	40	45
2	33	15	24	-23	41	0	0	24	46	11	47	14	31	OM	OM	OM	47	28	38	44	33	39	43	37	40
3	42	16	29	-19	36	0	0	24	57	17	57	18	38	OM	OM	OM	49	28	39	45	33	39	42	36	39
4	47	26	37	-11	28	0	0	20	55	23	61	25	43	OM	OM	OM	50	32	41	47	35	41	44	37	41
5	45	27	36	-12	25	0	0	22	57	23	59	25	42	OM	OM	OM	52	33	43	49	36	43	45	38	42
6	44	30	37	-11	28	0	0	24	51	29	52	31	42	OM	OM	OM	47	33	40	45	36	41	42	38	40
7	47	21	34	-14	31	0	0	21	56	17	54	19	37	OM	OM	OM	45	31	38	44	35	40	43	37	40
8	49	30	40	-8	25	0	0	20	55	26	60	29	45	OM	OM	OM	52	34	43	49	38	44	44	38	41
9	52	31	42	-6	23	0	0	9	61	29	66	31	49	OM	OM	OM	54	32	43	49	35	42	46	38	42
10	44	33	39	-9	26	0	0	24	46	32	47	34	41	OM	OM	OM	46	38	42	45	40	43	43	41	42
11	43	24	34	-14	31	0	0	24	52	19	55	22	39	OM	OM	OM	53	33	43	49	36	43	46	38	42
12	49	25	37	-11	28	0	0	19	66	22	63	25	44	OM	OM	OM	56	33	45	51	36	44	46	38	42
13	49	28	39	-9	26	0	0	15	63	27	60	29	45	OM	OM	OM	51	33	42	48	36	42	45	38	42
14	52	27	40	-8	25	0	0	14	55	24	60	27	44	OM	OM	OM	52	33	43	49	36	43	45	39	42
15	63	33	48	-1	17	3	0	12	78	30	77	33	55	OM	OM	OM	60	33	47	55	36	46	50	38	44
16	67	37	52	3	13	7	0	1	75	38	76	39	58	OM	OM	OM	62	38	50	59	40	50	52	42	47
17	59	21	40	-9	25	0	0	20	56	18	59	20	40	OM	OM	OM	55	33	44	54	36	45	52	40	46
18	43	21	32	-17	33	0	0	24	55	18	56	21	39	OM	OM	OM	54	31	43	50	35	43	46	37	42
19	54	25	40	-9	25	0	0	14	63	25	66	26	46	OM	OM	OM	57	31	44	52	35	44	47	38	43
20	63	35	49	0	16	4	0	1	65	36	72	35	54	OM	OM	OM	60	36	48	54	37	46	49	39	44
21	72	51	62	13	3	17	7	0	70	49	72	52	62	OM	OM	OM	61	48	55	58	48	53	53	47	50
22	71	57	64	14	1	19	9	0	71	56	72	59	66	OM	OM	OM	62	54	58	60	53	57	56	51	54
23	69	56	63	13	2	18	8	0	72	50	74	53	64	OM	OM	OM	66	54	60	63	56	60	59	55	57
24	78	48	63	13	2	18	8	0	82	42	84	46	65	OM	OM	OM	73	51	62	68	53	61	63	55	59
25	75	46	61	11	4	16	6	0	85	44	86	46	66	OM	OM	OM	73	49	61	68	52	60	63	54	59
26	61	23	42	-8	23	0	0	12	69	21	70	23	47	OM	OM	OM	65	34	50	62	39	51	59	44	52
27	45	24	35	-15	30	0	0	24	57	23	60	25	43	OM	OM	OM	61	34	48	57	39	48	52	42	47
28	61	29	45	-6	20	0	0	10	66	30	65	27	48	OM	OM	OM	63	38	51	60	42	51	54	42	48
29	72	41	57	6	8	12	2	0	76	38	77	38	58	OM	OM	OM	69	40	55	64	42	53	57	45	51

TOTAL 636 114 40 404 1823 832

MEAN 54.7 31.0 42.8 -5.7 21.9 3.9 1.4 13.9 62.5 28.7 63.9 30.7 47.3 0.0 0.0 0.0 56.8 36.6 46.7 53.3 39.6 46.4 49.5 41.4 45.5

TEMPERATURE EXTREMES: HIGHEST 78 ON DAYS 24,  
 LOWEST 15 ON DAYS 2,

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 90 DEGREES OR ABOVE.  
 19 DAYS WITH MINIMUM 22 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 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		TEMPERATURE			EVAPORATION		HYGROTEHERMOGRAPH DATA					VEGETATIVE WETTING			
	WATER EQUI- VALENT (IN.)	DRY* DAYS (IA.)	INDEX (IA.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MEAN	MILES PCVEMENT	AIR INCHES EVAP.	RELATIVE HUMIDITY (%)	1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE	
1	0.0	1	0.0	M 0.0	M	CM	CM	CM	109	0.0	M	71	64	39	52	57	0	
2	0.0	2	0.0	M 0.0	M	40	30	35	76	0.0	M	74	80	43	39	59	0	
3	0.0	3	0.0	M 0.0	M	42	20	36	42	0.0	M	50	65	25	31	43	0	
4	0.0	4	0.0	M 0.0	M	41	31	36	32	0.0	M	45	65	27	32	43	0	
5	0.0	5	0.0	M 0.0	M	45	32	39	68	0.0	M	43	45	29	67	46	0	
6	0.17	6	0.0	M 0.0	M	40	32	36	66	0.0	M	100	96	73	61	83	18	RAIN
7	0.0	7	0.0	M 0.0	M	41	30	36	75	0.0	M	65	81	41	61	62	0	
8	0.0	8	0.0	M 0.0	M	45	31	38	46	0.0	M	64	75	33	51	56	0	
9	0.19	9	0.0	M 0.0	M	53	34	44	93	0.120		70	92	93	97	88	12	RAIN
10	1.14	0	0.0	M 0.0	M	42	35	39	77	0.0	M	96	89	60	69	79	24	RAIN
11	0.0	1	0.0	M 0.0	M	46	33	40	52	0.0	M	78	92	44	57	68	1	DEW
12	0.0	2	0.0	M 0.0	M	51	35	43	37	0.0	M	78	78	42	51	62	0	
13	0.0	3	0.0	M 0.0	M	47	35	41	50	0.0	M	67	67	34	64	58	0	
14	0.0	4	0.0	M 0.0	M	48	36	42	15	0.0	M	75	75	21	42	53	1	DEW
15	0.0	5	0.0	M 0.0	M	59	36	48	17	0.0	M	64	79	42	90	69	0	
16	0.79	0	0.0	M 0.0	M	63	40	52	55	0.0	M	100	98	82	72	88	11	RAIN
17	0.0	1	0.0	M 0.0	M	56	30	43	126	0.0	M	66	68	34	43	53	0	
18	0.0	2	0.0	M 0.0	M	44	30	37	65	0.0	M	58	55	24	43	45	0	
19	0.0	3	0.0	M 0.0	M	50	31	41	57	0.0	M	48	52	44	61	51	0	
20	0.0	4	0.0	M 0.0	M	58	37	48	85	0.0	M	71	80	87	84	81	6	RAIN
21	0.01	5	0.0	M 0.0	M	61	48	55	46	0.060		100	100	71	78	87	15	RAIN
22	0.40	0	0.0	M 0.0	M	64	55	60	49	0.090		97	97	100	100	99	18	RAIN
23	1.03	0	0.0	M 0.0	M	65	57	61	20	0.110		100	100	52	55	77	21	RAIN
24	0.0	1	0.0	M 0.0	M	73	54	64	44	0.160		87	75	33	45	60	8	DEW
25	0.0	2	0.0	M 0.0	M	73	49	61	41	0.190		67	76	33	44	55	0	
26	0.0	3	0.0	M 0.0	M	62	30	46	189	0.0	M	51	55	28	44	45	0	
27	0.0	4	0.0	M 0.0	M	47	31	39	42	0.0	M	54	72	27	41	49	0	
28	0.0	5	0.0	M 0.0	M	57	34	46	64	0.0	M	53	73	39	38	51	0	
29	0.0	6	0.0	M 0.0	M	65	38	52	92	0.210		74	100	40	47	65	5	DEW
TOTAL	3.73								1834	0.940								
MEAN		0.0			52.8	36.6	44.7	63	0.134		71	78	46	57	63	5		

NORMAL PRECIPITATION FOR MONTH IS 5.32 INCHES; 24 HOUR MAXIMUM = 1.14 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 7; OF 0.50 OR MORE 3; 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 - FEBRUARY 1980

ALBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS			FRONTS	
	6PM TO 6AM		6AM TO 6PM		MAX GUST		MINS. CF	PERCENT CF	LANG-LEYS*	LANG-LEYS*	STATION	PRESSURE		MIXING RATIO**		D LIGHTNING	OBSERVED OR REPORTED	TIME OF PASS	TYPE OF FRONT	
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR.	SPEED	SUNSHINE	POSSIBLE SUNSHINE	SGLAR RAD.	NET RAD.	MAX	MIN	MEAN	MAX	MIN	S	ES	HAIL HI-WIND	-ACE	FRONT
1	NW	9	N	10	15:00	12	574	50.0	303	CM	30.43	30.31	30.37	CM	OM	0				
2	N	6	NW	4	8:00	13	526	42.2	257	CM	30.40	30.30	30.35	CM	CM	0				
3	N	4	NW	3	12:00	16	414	64.6	238	CM	30.33	30.24	30.29	CM	CM	0				
4	N	3	N	7	4:00	10	566	51.1	304	OP	30.36	30.27	30.32	OP	OM	0				
5	NE	4	SE	5	10:00	12	268	41.6	152	OP	30.38	30.08	30.23	CM	CM	0				
6	V	3	N	6	15:00	16	117	16.1	66	OP	30.22	30.08	30.15	CM	CM	0			0200	COLD
7	N	5	NE	4	9:00	12	563	47.0	307	OP	30.37	30.22	30.29	OP	OM	0				
8	NE	4	E	6	9:00	16	502	77.3	266	OM	30.39	30.22	30.30	CM	OM	0				
9	E	6	E	6	10:00	16	7	1.1	36	OP	30.22	29.84	30.03	CM	CM	0				
10	N	6	NW	6	8:00	18	372	57.0	190	OP	30.09	29.85	29.97	OM	CM	0			0500	COLD
11	N	3	V	3	12:00	12	520	75.4	300	OP	30.14	30.06	30.10	CM	CM	0				
12	NW	2	NW	4	12:00	13	456	65.7	213	OP	30.26	30.11	30.18	CM	CM	0				
13	N	4	NE	2	8:00	10	378	57.4	182	OP	30.35	30.24	30.29	CM	CM	0				
14	S	1	NE	2	14:00	10	612	52.5	320	OP	30.35	30.21	30.28	CM	OM	0				
15	N	1	V	5	13:00	15	512	77.5	275	CM	30.21	29.79	30.00	CM	OM	0				
16	S	3	NW	10	8:00	23	2	0.3	47	OP	29.92	29.69	29.80	OM	OM	0			0900	COLD
17	NW	9	NW	7	0:00	21	606	51.1	362	OP	30.09	29.92	30.00	OM	OM	0				
18	V	5	V	5	1:00	10	615	52.2	357	OP	30.24	30.13	30.18	CM	CM	0				
19	V	5	SE	6	9:00	17	368	55.0	293	OP	30.14	29.93	30.03	CM	CM	0				
20	SE	4	S	5	15:00	18	189	26.2	106	OP	29.93	29.80	29.86	OM	OM	0			1000	WARM
21	SW	2	S	5	19:00	28	12	1.6	93	OP	30.01	29.89	29.95	CM	CM	0				
22	S	7	V	3	7:00	21	121	16.0	70	OP	30.01	29.91	29.96	OM	OM	1				
23	SE	2	SW	5	14:00	17	418	61.7	254	CM	30.03	29.95	29.99	OM	OM	0				
24	N	1	V	4	15:00	12	583	65.5	325	OP	30.09	29.95	30.02	OM	OM	0				
25	NW	3	NW	11	15:00	32	587	86.2	356	OP	30.25	29.95	30.10	OM	CM	0	YES		0600	COLD
26	NW	12	NW	7	3:00	23	628	52.1	367	CM	30.43	30.26	30.34	OM	CM	0				
27	N	1	N	6	12:00	17	547	60.0	350	OP	30.30	30.09	30.19	OM	CM	0				
28	N	2	SW	9	14:00	23	607	66.5	346	OP	30.09	29.86	29.97	OM	OM	0				
29	SW	3	V	6	11:00	12	518	75.5	298	OP	30.04	29.52	29.98	CM	CM	0			0900	COLD
TOTAL							12210		7153	0						1				
MEAN		4		6		16	421		247	C	30.21	30.04	30.12	0.0	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 OR 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	50	35	47	76	1957	17 1936
2	58	35	47	60	1957	10 1951
3	59	36	48	76	1950	9 1951
4	59	36	46	60	1927	10 1958
5	59	36	48	61	1957	19 1947
6	59	36	48	80	1957	17 1978
7	59	36	46	76	1957	16 1962
8	59	36	46	60	1957	16 1951
9	59	36	46	60	1957	11 1933
10	60	36	48	79	1935	15 1947
11	60	36	48	79	1932	17 1973
12	60	36	48	79	1922	17 1955
13	60	36	48	79	1922	17 1955
14	60	36	48	82	1962	15 1956
15	60	37	49	60	1959	13 1943
16	60	37	49	60	1921	16 1956
17	61	37	49	81	1927	8 1958
18	61	37	49	76	1956	8 1956
19	61	37	49	77	1956	12 1956
20	61	37	49	79	1956	18 1956
21	61	37	49	77	1922	17 1956
22	61	38	50	76	1976	12 1963
23	62	38	50	79	1927	14 1962
24	62	38	50	76	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
29	63	39	51	79	1946	20 1920

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

AEROCCLIMATOLOGICAL DATA - MARCH 1980

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		ABOVE		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
					65	45	55																		
1	66	48	58	7	7	13	3	0	77	47	62	49	66	OM	OM	OM	72	47	60	66	49	58	60	49	55
2	50	16	34	-17	31	0	0	22	45	17	51	20	36	CM	OM	OM	51	34	43	53	38	46	52	42	47
3	27	12	20	-31	45	0	0	24	125	9	30	11	21	OM	OM	OM	40	27	34	40	32	36	42	36	39
4	50	15	33	-18	32	0	0	20	63	19	63	19	41	CM	CM	OM	56	28	42	52	32	42	45	36	41
5	58	30	44	-8	21	0	0	3	67	33	67	35	51	OM	OM	OM	58	33	46	52	36	44	46	38	43
6	68	36	52	0	13	7	0	10	77	32	78	34	56	OM	OM	OM	64	38	51	60	42	51	54	45	50
7	73	38	56	4	9	11	1	1	75	40	80	41	61	OM	CM	OM	69	39	54	63	42	53	57	45	51
8	66	52	59	7	6	14	4	0	63	51	65	53	59	OM	OM	OM	60	51	56	58	51	55	56	51	54
9	76	58	67	14	0	22	12	0	80	57	81	59	70	OM	CM	OM	70	58	64	67	58	63	63	56	60
10	71	49	60	7	5	15	5	0	82	44	82	47	65	OM	OM	OM	72	53	63	68	55	62	64	55	60
11	74	46	60	7	5	15	5	0	83	40	83	43	63	OM	OM	OM	70	46	58	66	50	58	62	52	57
12	66	42	54	1	11	9	0	6	77	40	78	43	61	CM	CM	OM	66	47	57	63	49	56	59	51	55
13	42	40	42	-12	23	0	0	24	42	38	45	41	43	OM	OM	OM	47	44	46	49	46	48	51	47	49
14	51	36	44	-10	21	0	0	13	51	32	54	34	44	OM	OM	OM	53	37	45	52	41	47	50	44	47
15	59	38	49	-5	16	4	0	11	70	33	72	36	54	OM	CM	OM	66	38	52	61	42	52	55	44	50
16	68	43	56	2	5	11	1	CM	75	46	75	47	63	OM	OM	OM	66	44	55	61	44	53	56	45	51
17	67	51	59	4	6	14	4	CM	75	51	75	53	66	OM	OM	OM	65	48	57	61	49	55	57	49	52
18	67	40	54	-1	11	9	0	OM	65	35	68	37	53	OM	OM	OM	60	46	53	59	50	55	57	52	55
19	60	41	51	-4	14	6	0	OM	70	35	73	34	54	OM	OM	OM	68	42	55	64	46	55	60	48	54
20	67	45	58	2	7	13	3	CM	76	51	80	53	67	OM	CM	OM	68	48	58	62	48	55	57	48	53
21	78	50	64	8	1	19	9	CM	83	49	85	51	68	OM	OM	OM	71	53	62	67	56	62	62	55	59
22	60	35	48	-8	17	3	0	CM	72	30	72	33	53	OM	OM	OM	68	41	55	65	45	55	61	49	55
23	70	41	56	0	9	11	1	CM	78	39	79	42	61	OM	CM	OM	71	42	57	66	45	56	61	49	55
24	70	49	60	3	5	15	5	CM	77	47	81	50	66	OM	OM	OM	66	46	56	62	48	55	58	50	54
25	73	43	58	1	7	13	3	CM	78	40	78	42	60	OM	CM	OM	66	46	56	63	49	56	59	51	55
26	69	49	59	2	6	14	4	CM	78	44	76	44	60	OM	OM	OM	73	51	62	68	51	60	62	51	57
27	55	49	52	-6	13	7	0	CM	55	48	57	51	54	OM	OM	OM	58	52	55	57	53	55	55	53	54
28	62	54	58	0	7	13	3	CM	63	52	66	55	61	CM	OM	OM	62	54	58	60	54	57	57	53	55
29	59	53	56	-3	9	11	1	CM	58	51	61	53	57	OM	OM	OM	59	54	57	58	55	57	56	54	55
30	65	54	60	1	5	15	5	CM	72	53	76	56	66	CM	OM	OM	66	55	61	62	55	59	59	54	57
31	71	45	58	-1	7	13	3	OM	78	39	78	42	60	OM	OM	OM	71	47	59	67	50	59	62	53	58

TOTAL

378 257 72 134 2243 1242

MEAN 63.3 42.1 52.7 -1.8 12.2 9.6 2.3\*\*\*\*\* 72.4 40.1 70.5 42.2 56.6 0.0 0.0 0.0 63.6 44.8 54.2 60.4 47.1 53.8 56.7 48.5 52.6

TEMPERATURE EXTREMES: HIGHEST 78 ON DAYS 21,  
LOWEST 12 ON DAYS 3,

TEMPERATURE: 1 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 0 DAYS WITH MAXIMUM 50 DEGREES OR ABOVE.  
4 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 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGRO-THERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUIVALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER TEMP (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	0.08	7	0.0	M 0.0	P	68	46	57	62	0.170	44	100	96	56	84	7 RAIN
2	0.36	0	0.0	M 0.0	N	46	30	39	109	0.0	M	96	52	74	62	81 24 RAIN
3	0.0 T	1	0.0	M 0.0	P	34	26	30	131	0.0	M	73	67	28	46	54 4 RAIN
4	0.0	2	0.0	M 0.0	M	42	31	37	27	0.0	M	60	75	57	59	63 0
5	0.53	0	0.0	M 0.0	M	50	33	42	109	0.0	M	86	100	70	80	84 14 RAIN
6	0.02	1	0.0	M 0.0	P	66	38	52	75	0.090	93	82	28	72	65	21 RAIN DEW
7	0.0	2	0.0	M 0.0	M	66	38	53	41	0.117	90	100	81	100	93	12 FGG
8	3.32	0	0.0	M 0.0	M	61	52	57	100	0.0	M	100	97	74	66	84 24 RAIN
9	0.02	1	0.0	M 0.0	M	73	61	67	80	0.0	M	93	78	41	58	68 0
10	0.0 T	2	0.0	M 0.0	M	71	54	63	25	0.0	M	93	93	50	44	70 2 RAIN
11	0.0	3	0.0	M 0.0	M	70	46	58	60	0.225	61	54	27	29	43	0
12	0.15	4	0.0	M 0.0	M	65	44	55	65	0.150	65	93	98	98	89	16 RAIN
13	1.26	0	0.0	M 0.0	M	43	41	42	110	0.0	M	100	100	93	80	93 22 RAIN
14	0.0 T	1	0.0	M 0.0	M	49	36	43	84	0.010	76	70	39	42	57	12 RAIN
15	0.0	2	0.0	M 0.0	M	63	37	50	62	0.200	57	49	24	33	41	0
16	0.0	3	0.0	M 0.0	M	66	40	53	104	0.270	54	77	52	65	62	0
17	0.0	4	0.0	M 0.0	P	65	47	56	155	0.0	M	78	87	98	100	91 0
18	1.47	0	0.0	M 0.0	M	61	44	52	106	0.0	M	93	73	35	46	62 17 RAIN
19	0.0	1	0.0	M 0.0	P	66	40	53	61	0.190	47	63	47	90	62	0
20	0.05	2	0.0	M 0.0	M	66	43	55	81	0.120	81	100	64	76	80	14 RAIN
21	0.68	0	0.0	M 0.0	M	74	52	63	167	0.240	94	69	37	46	62	7 RAIN
22	0.0	1	0.0	M 0.0	M	65	38	52	101	0.237	70	60	26	29	46	0
23	0.0	2	0.0	M 0.0	M	70	38	54	42	0.211	48	33	23	36	35	0
24	0.71	0	0.0	M 0.0	M	65	43	54	105	0.211	36	56	66	51	62	8 RAIN
25	0.16	1	0.0	M 0.0	M	66	45	56	85	0.176	74	80	42	69	66	0
26	0.02	2	0.0	M 0.0	P	72	44	58	36	0.164	77	93	97	100	92	6 RAIN
27	0.50	0	0.0	M 0.0	M	54	50	52	23	0.0	M	100	93	67	100	90 20 RAIN
28	1.08	0	0.0	M 0.0	M	60	51	56	115	0.0	M	100	54	67	100	80 22 RAIN
29	1.25	0	0.0	M 0.0	M	56	53	55	42	0.0	M	100	100	81	97	95 20 RAIN
30	1.31	0	0.0	M 0.0	M	62	53	58	65	0.0	M	100	100	70	56	82 17 RAIN
31	0.01	1	0.0	M 0.0	M	65	48	55	73	0.0	M	74	74	46	62	64 0

TOTAL 13.01

2514 2.781

MEAN 0.0 61.5 43.3 52.4 81 0.174 78 81 58 67 71 9

NORMAL PRECIPITATION FOR MONTH IS 6.93 INCHES; 24 HOUR MAXIMUM = 3.32 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 19; OF 0.50 OR MORE 10; OF 1.00 OR MORE 6

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

T = TRACE OF PRECIPITATION.

P = 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 1980

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.	PERCENT	LANG-	LANG-	STATION		PRESSURE		MIXING		0	LIGHT-	0BSERVED	TIME	
	PREV	AVER	PREV	AVER	HR.	SPR.	CF	CF	LEYS*	LEYS*	IN	IN	MEAN	MAX	MIN	RATIO**	5	NING	OR	CF	
	DIR.	SPEED	DIR.	SPEED	SPEED	SUN-	SUNSHINE	POSSIBLE	SOLAR	NET	MAX	MIN	MEAN	MAX	MIN		ES	STROK-	REPORTED	PASS	OF
					SPINE		SUNSHINE	RAD.	RAD.									HAIL	HI-WIND	-AGE	FRONT
1	NE	6	E	7	7:00	19	0	C.C	26	OM	29.96	29.84	29.90	CM	CM	0				1500	COLD
2	NW	8	NW	12	12:00	25	368	53.3	209	OM	30.28	29.56	30.12	CM	OM	0					
3	NW	6	NW	3	7:00	11	647	53.4	409	OM	30.35	30.23	30.29	CM	OM	0					
4	SE	2	SW	6	14:00	17	419	60.4	286	CM	30.28	29.58	30.13	OM	OM	0					
5	SE	6	SW	6	15:00	19	199	28.6	174	OM	30.13	29.90	30.01	CM	OM	1				1600	COLD
6	N	5	V	4	7:00	11	642	51.8	362	CM	30.20	30.13	30.16	OM	OM	0					
7	SE	2	SE	5	20:00	21	60	8.6	79	OM	30.17	29.97	30.07	CM	OM	1					
8	V	6	V	7	12:00	27	395	56.6	198	CM	29.58	29.89	29.93	OM	OM	1					
9	V	3	NW	3	5:00	13	516	73.6	256	OM	29.97	29.50	29.93	CM	CM	0					
10	V	2	V	6	14:00	27	534	75.5	294	OM	29.90	29.78	29.84	CM	OM	0				1400	COLD
11	NW	2	N	6	9:00	16	611	66.2	279	CM	30.06	29.89	29.97	OM	OM	0					
12	NE	6	NE	10	10:00	23	0	C.C	19	OM	30.00	29.72	29.86	CM	OM	1					
13	NE	7	V	4	19:00	18	80	11.2	65	OM	30.01	29.74	29.88	CM	OM	0					
14	NW	6	NW	7	9:00	17	638	65.2	419	OM	30.31	30.01	30.16	OM	CM	0				1500	COLD
15	N	4	SE	7	9:00	17	581	61.0	527	OM	30.40	30.30	30.35	OM	OM	0					
16	SE	6	SE	9	11:00	23	136	18.5	344	OM	30.31	30.11	30.21	CM	OM	0					
17	SE	7	V	7	9:00	21	0	C.C	61	OM	30.11	29.90	30.00	CM	OM	1					
18	V	8	NW	8	5:00	27	667	92.3	580	OM	30.28	29.97	30.13	OM	CM	0				0100	COLD
19	N	4	SE	6	9:00	15	211	25.1	370	CM	30.29	30.16	30.23	CM	OM	0				1500	WARM
20	E	4	S	8	13:00	25	155	21.3	312	OM	30.18	29.71	29.94	CM	OM	1					
21	V	11	NW	12	5:00	27	627	66.0	582	OM	30.06	29.71	29.88	CM	OM	1					COLD
22	NW	3	N	5	8:00	18	674	52.2	551	OM	30.13	30.03	30.08	CM	OM	0					
23	N	4	E	6	17:00	16	192	26.2	419	OM	30.08	29.90	29.99	OM	OM	0					
24	SE	7	SW	9	4:00	23	223	30.3	258	OM	29.90	29.75	29.82	OM	OM	0					
25	N	4	NW	4	12:00	14	444	60.2	508	CM	30.01	29.50	29.95	CM	CM	0					
26	N	3	V	3	22:00	15	0	C.C	90	CM	30.11	29.59	30.05	CM	OM	0					
27	M	CM	E	5	23:00	23	0	C.C	144	OM	30.14	30.01	30.07	CM	CM	0					
28	SE	10	V	6	23:00	23	0	C.C	68	OM	30.02	29.77	29.90	CM	CM	0					
29	E	2	E	4	23:00	11	9	1.2	149	OM	30.00	29.68	29.84	OM	OM	0					
30	E	6	SW	7	15:00	25	261	34.5	331	OM	29.78	29.62	29.70	OM	OM	0				1400	COLD
31	h	3	h	8	13:00	21	535	71.5	539	OM	29.97	29.78	29.88	CM	OM	0					
TOTAL							5830		5008	0						7					
MEAN		5		6		20	317		251	C	30.11	29.91	30.01	0.0	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 PEAK	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	85	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	85	1945	27 1924
18	67	43	55	87	1945	25 1941
19	67	43	55	85	1927	26 1960
20	68	43	56	89	1938	22 1923
21	68	44	56	87	1927	24 1960
22	68	44	56	85	1921	21 1960
23	68	44	56	84	1935	26 1955
24	69	44	57	85	1925	25 1968
25	69	45	57	86	1954	28 1956
26	69	45	57	87	1910	29 1979
27	70	45	58	85	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	1925	26 1950

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

AGROCLIMATOLOGICAL DATA - APRIL 1980

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 FALLCH SOIL			SGIL 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	67	41	54	-6	11	9	0	CM	70	32	66	34	50	OM	OM	OM	71	49	60	68	54	61	62	53	58
2	75	48	62	2	3	17	7	CM	82	44	77	46	62	OM	OM	OM	77	54	66	64	53	59	65	53	59
3	64	57	61	1	4	16	6	CM	64	55	62	54	58	OM	OM	OM	59	56	58	63	59	61	60	57	59
4	77	61	69	8	0	24	14	CM	86	58	84	58	71	OM	OM	OM	74	64	69	72	63	68	67	61	64
5	70	42	56	-5	9	11	1	CM	61	38	61	40	61	OM	CM	OM	74	46	60	71	50	61	67	54	61
6	65	42	54	-7	11	9	0	CM	75	37	78	40	59	OM	OM	OM	72	46	59	68	50	59	64	52	58
7	70	52	62	0	3	17	7	CM	83	48	86	51	69	CM	OM	OM	74	49	62	70	51	61	64	52	58
8	74	55	65	3	0	20	10	CM	80	60	77	59	68	CM	CM	OM	76	59	68	71	59	65	66	58	62
9	72	45	59	-3	6	14	4	CM	74	37	71	38	55	OM	OM	OM	71	58	65	68	58	63	65	59	62
10	70	41	56	-7	9	11	1	CM	76	34	73	35	54	OM	OM	OM	74	52	63	69	51	60	66	56	61
11	74	44	59	-4	6	14	4	CM	80	36	75	37	56	OM	OM	OM	77	52	65	72	56	64	66	55	61
12	74	56	65	2	0	20	10	CM	82	53	85	56	71	OM	OM	OM	74	56	65	69	55	62	64	55	60
13	63	56	60	-3	5	15	5	CM	65	53	65	56	61	OM	OM	OM	64	56	60	63	58	61	61	59	60
14	68	46	57	-7	8	12	2	CM	65	45	67	46	57	OM	OM	OM	64	52	58	63	55	59	61	57	59
15	51	37	44	-20	21	0	0	CM	56	32	55	36	46	CM	CM	OM	57	43	50	57	46	52	57	50	54
16	64	38	51	-13	14	6	0	CM	75	33	73	36	55	OM	OM	OM	68	44	56	64	47	56	60	50	55
17	73	48	61	-4	4	16	6	CM	75	41	83	44	64	OM	OM	OM	76	46	61	70	50	60	64	51	58
18	75	45	62	-3	3	17	7	OM	85	44	88	47	68	OM	OM	OM	82	51	67	74	53	64	67	53	60
19	72	52	63	-2	2	18	8	CM	82	51	86	54	71	OM	OM	OM	76	55	66	72	57	65	66	56	61
20	66	45	58	-7	7	13	3	CM	73	44	74	47	61	OM	OM	OM	71	49	60	66	53	60	63	53	58
21	75	54	65	-1	0	20	10	CM	85	45	85	50	70	CM	CM	OM	78	53	66	74	54	64	68	55	62
22	81	55	68	2	0	23	13	CM	90	49	93	54	74	OM	OM	OM	82	55	69	77	58	68	71	58	65
23	85	52	69	3	0	24	14	CM	92	46	97	50	74	OM	OM	OM	91	58	75	85	62	74	76	60	68
24	88	59	74	8	0	29	19	CM	97	51	101	56	79	OM	OM	OM	95	62	79	88	65	77	79	63	71
25	82	55	69	2	0	24	14	CM	92	48	93	53	73	OM	OM	OM	93	61	77	87	68	78	79	66	72
26	80	60	70	3	0	25	15	CM	90	57	92	60	76	OM	OM	OM	88	63	76	83	65	74	76	66	71
27	75	56	66	-1	0	21	11	CM	82	52	82	56	69	OM	OM	OM	74	59	67	72	62	67	70	63	67
28	62	46	54	-13	11	9	0	CM	73	39	72	44	58	OM	OM	OM	69	51	60	68	55	62	66	57	62
29	67	50	59	-8	6	14	4	CM	85	44	81	48	65	OM	OM	OM	73	54	64	69	56	63	66	58	62
30	70	48	59	-9	6	14	4	CM	84	42	82	40	65	OM	OM	OM	75	55	65	71	57	64	67	58	63

TOTAL 149 482 199 C 2251 1348

MEAN 71.6 49.9 60.8 -2.9 5.0 16.1 6.6 0.0 75.7 44.9 75.7 47.8 63.7 0.0 0.0 0.0 75.0 53.6 64.2 70.9 56.0 63.5 66.4 56.6 61.5

TEMPERATURE EXTREMES: HIGHEST 88 ON DAYS 24,  
LOWEST 37 ON DAYS 15.

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 - APRIL 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		CFAE PAN EVAPORATION			HYGROTHERMOGRAPH DATA							VEGETATIVE WETTING	
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER PAX	TEMP (DEG F) MIN	(DEG F) MEAN	MILES AIR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE
1	0.0	2	0.0	M 0.0 M	67	46	57	74	0.093	76	76	39	58	62	3	DEW
2	0.0	3	0.0	M 0.0 M	78	47	63	34	0.149	67	80	86	100	83	1	RAIN
3	0.03	4	0.0	M 0.0 M	60	53	57	40	0.0	96	100	67	97	90	20	RAIN
4	0.85	0	0.0	M 0.0 P	77	60	65	35	0.192	100	93	32	45	68	16	RAIN
5	0.0	1	0.0	M 0.0 M	74	43	55	94	0.341	60	60	34	46	50	0	
6	0.0	2	0.0	M 0.0 M	71	43	57	46	0.216	56	45	28	44	43	0	
7	0.0 T	3	0.0	M 0.0 M	71	45	58	65	0.209	60	66	62	81	67	2	RAIN
8	0.0	4	0.0	M 0.0 M	74	52	63	58	0.149	94	54	97	90	94	2	RAIN
9	1.28	0	0.0	M 0.0 M	65	50	60	66	0.131	61	72	37	42	53	9	RAIN
10	0.0	1	0.0	M 0.0 M	74	46	60	57	0.255	56	56	25	38	44	0	
11	0.0	2	0.0	M 0.0 M	74	48	61	48	0.259	71	55	29	63	55	0	
12	0.33	0	0.0	M 0.0 M	71	52	62	65	0.184	87	53	93	100	93	10	RAIN
13	0.13	1	0.0	M 0.0 M	62	55	55	49	0.008	97	100	97	97	98	24	RAIN
14	1.24	0	0.0	M 0.0 M	63	50	57	152	0.0 M	78	80	61	68	72	14	RAIN
15	0.0 T	1	0.0	M 0.0 M	53	40	47	74	0.128	79	83	38	48	62	8	DEW
16	0.0	2	0.0	M 0.0 M	67	43	55	72	0.251	68	69	31	34	51	3	DEW
17	0.0	3	0.0	M 0.0 P	70	46	58	65	0.0 M	45	46	26	55	43	0	
18	0.0	4	0.0	M 0.0 P	75	48	62	33	0.222	50	80	41	78	62	0	
19	0.13	5	0.0	M 0.0 M	72	54	63	61	0.142	96	53	70	75	84	15	RAIN
20	0.01	6	0.0	M 0.0 P	67	49	58	45	0.111	83	80	40	72	69	7	DEW
21	0.0	7	0.0	M 0.0 P	77	50	64	36	0.209	80	58	35	52	56	7	DEW
22	0.0	8	0.0	M 0.0 M	77	55	66	47	0.260	56	58	29	49	48	0	
23	0.0	9	0.0	M 0.0 M	84	59	72	23	0.232	72	68	28	48	54	5	DEW
24	0.0	10	0.0	M 0.0 M	84	61	73	41	0.298	73	81	41	53	62	4	DEW
25	0.0	11	0.0	M 0.0 M	82	58	70	60	0.298	78	97	60	66	75	4	DEW
26	1.28	0	0.0	M 0.0 M	80	60	70	57	0.189	90	97	84	78	87	7	RAIN
27	0.02	1	0.0	M 0.0 M	72	59	66	80	0.110	50	90	63	83	82	11	DEW
28	0.0	2	0.0	M 0.0 M	66	49	58	72	0.150	97	50	49	65	75	9	DEW
29	0.0 T	3	0.0	M 0.0 P	70	52	61	65	0.215	90	75	38	60	66	4	RAIN
30	0.0	4	0.0	M 0.0 P	72	53	63	57	0.207	85	77	45	53	66	2	DEW
TOTAL	5.30							1823	5.208							
MEAN		0.0			71.8	50.5	61.3	61	0.186	77	77	50	65	67	6	

NORMAL PRECIPITATION FOR MONTH IS 5.21 INCHES; 24 HOUR MAXIMUM = 1.28 INCHES.

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

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

T = TRACE OF PRECIPITATION.

P = 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 1980

ALBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS		
	6PM TO 6AM		6AM TO 6PM		MIN.	PERCENT	LANG-LEYS*	LANG-LEYS*	STATION PRESSURE			MIXING RATIO**		D LIGHTNING	OBSERVED OR REPORTED	TYPE OF PASS	TYPE OF FRONT	
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR.	CF	SUN-POSSIBLE	NET	MAX	MIN	MEAN	MAX	MIN	S	HAIL	HI-WIND	-ACE	FRONT
1	N	3	V	4	8:00	12	630	83.8	600	OM	30.10	29.97	30.04	OM	CM	0		
2	E	3	E	3	9:00	11	C	C.C	111	OM	30.12	29.97	30.04	OM	OM	0		
3	E	4	V	3	13:00	12	70	5.3	285	CM	30.06	29.92	29.99	OM	OM	1		
4	V	3	NW	9	15:00	25	531	70.1	544	OM	30.05	29.88	29.96	CM	OM	0	YES	0200 COLD
5	N	5	N	8	9:00	23	689	50.7	624	OM	30.15	30.05	30.10	OM	CM	0		
6	N	3	SE	6	15:00	16	494	64.8	524	OM	0.0	M 0.0	M 0.0	M	OM	OM	0	
7	SE	3	SE	5	11:00	17	245	32.1	386	CM	0.0	M 0.0	M 0.0	M	CM	CM	0	
8	SE	6	SE	6	9:00	19	211	21.5	187	OM	0.0	M 0.0	M 0.0	M	OM	OM	1	2100 COLD
9	V	2	SW	7	13:00	23	729	94.5	627	CM	0.0	M 0.0	M 0.0	M	CM	CM	0	
10	V	1	W	6	12:00	21	741	96.2	637	OM	30.04	29.96	30.00	CM	OM	0		
11	W	1	SE	7	12:00	19	603	76.2	440	OM	30.10	29.98	30.04	OM	OM	0		
12	V	3	S	4	11:00	19	42	5.4	99	OM	29.98	29.88	29.93	CM	OM	0		
13	E	3	SE	7	24:00	30	0	C.C	58	OM	29.90	29.60	29.75	OM	OM	1		2400 COLC
14	SW	11	W	9	1:00	27	87	11.2	230	CM	29.90	29.60	29.75	CM	CM	0		
15	V	2	W	10	11:00	27	710	92.2	632	OM	30.10	29.89	29.99	CM	OM	0		
16	W	1	NW	6	11:00	19	717	91.7	641	OM	30.19	30.10	30.15	OM	CM	0		1400 COLD
17	N	5	V	3	7:00	12	708	90.4	602	OM	30.25	30.14	30.19	OM	CM	0		
18	E	3	NE	6	1:00	16	518	66.0	427	OM	30.14	30.06	30.10	CM	CM	0		0500 WARM
19	E	4	NE	6	9:00	15	598	76.0	283	CM	30.12	30.07	30.10	OM	CM	0		
20	N	4	N	5	12:00	16	750	95.1	560	OM	30.14	30.02	30.08	CM	CM	0		
21	NW	2	NW	6	14:00	18	711	90.0	568	OM	30.03	29.94	29.99	OM	CM	0		
22	N	3	N	4	13:00	14	715	90.3	635	OM	30.03	29.95	29.99	OM	OM	0		
23	V	0	SW	5	14:00	18	737	92.8	620	OM	29.96	29.82	29.89	OM	CM	0		
24	W	1	SW	7	13:00	21	650	81.8	628	OM	0.0	M 0.0	M 0.0	M	OM	OM	0	
25	SW	2	SW	4	14:00	15	385	46.2	431	OM	0.0	M 0.0	M 0.0	M	OM	OM	0	
26	S	3	SW	7	8:00	28	116	14.5	250	OM	0.0	M 0.0	M 0.0	M	OM	CM	0	
27	V	2	NW	6	17:00	18	20	2.5	254	OM	0.0	M 0.0	M 0.0	M	OM	OM	0	
28	NW	3	N	8	17:00	21	634	75.0	534	OM	29.91	29.82	29.87	CM	CM	0		
29	SW	2	W	8	13:00	23	649	80.6	543	OM	29.82	29.76	29.79	OM	OM	0		
30	W	1	V	3	17:00	14	464	57.5	556	OM	29.84	29.78	29.81	OM	OM	0		
TOTAL							14162		13564	0						3		
MEAN		3		6		19	472		452	0	30.04	29.92	29.98	0.0	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	1935	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	85	1919	33	1950
9	74	49	62	52	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	32	1918
13	76	50	63	86	1945	27	1940
14	76	51	64	86	1945	30	1962
15	76	51	64	86	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	86	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 1980

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	PAX	MIN	PAX	MIN	MEAN	PAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
1	76	53	65	-3	0	20	10	CM	85	47	92	52	72	OM	OM	OM	86	58	72	80	58	69	72	59	66
2	70	55	63	-5	2	18	8	CM	75	51	81	54	68	OM	OM	OM	76	58	67	73	60	67	68	61	65
3	78	58	68	0	0	23	13	OM	91	51	95	56	76	OM	OM	OM	89	61	75	82	63	73	73	62	68
4	71	54	63	-6	2	18	8	CM	84	51	85	54	72	OM	OM	OM	81	58	70	77	61	69	71	62	67
5	78	56	67	-2	0	22	12	CM	92	51	93	54	74	OM	OM	OM	86	57	72	81	61	71	75	62	69
6	79	53	66	-3	0	21	11	CM	91	47	95	51	73	OM	OM	OM	90	59	75	84	62	73	76	63	70
7	81	54	68	-1	0	23	13	CM	91	49	92	53	73	OM	OM	OM	94	61	78	87	64	76	78	64	71
8	81	61	71	1	0	26	16	CM	96	60	97	62	80	OM	OM	OM	92	64	78	85	66	76	77	66	72
9	75	55	65	-5	0	20	10	CM	83	51	86	53	70	OM	OM	OM	81	56	69	78	60	69	73	63	68
10	74	50	62	-8	3	17	7	CM	84	46	92	48	70	OM	OM	OM	89	56	73	83	60	72	75	62	69
11	76	51	64	-6	1	19	9	OM	86	47	91	50	71	OM	OM	OM	93	59	76	86	61	74	78	62	70
12	83	61	72	2	0	27	17	CM	92	56	96	59	78	OM	OM	OM	97	64	81	90	64	77	81	65	73
13	85	63	74	3	0	29	19	CM	95	59	97	62	80	OM	OM	OM	97	68	83	91	71	81	82	69	76
14	74	64	69	-2	0	24	14	CM	83	60	83	63	73	OM	OM	OM	81	67	74	79	69	74	75	69	72
15	74	58	66	-5	0	21	11	CM	75	56	81	58	70	OM	OM	OM	77	61	69	75	63	69	72	65	69
16	79	68	74	3	0	29	19	CM	92	65	94	67	81	OM	OM	OM	85	67	76	80	68	74	75	65	70
17	74	68	71	-1	0	26	16	CM	78	66	81	68	75	OM	OM	OM	76	68	72	74	69	72	71	69	70
18	74	65	70	-2	0	25	15	CM	75	64	77	66	72	OM	OM	OM	74	67	71	73	68	71	71	68	70
19	82	68	75	3	0	30	20	CM	95	66	98	68	83	OM	OM	OM	90	70	80	83	69	76	77	68	73
20	79	66	73	1	0	28	18	OM	88	64	87	66	77	OM	OM	OM	82	68	75	79	69	74	76	70	73
21	80	62	71	-2	0	26	16	CM	85	60	85	62	76	OM	OM	OM	85	64	75	80	67	74	76	68	72
22	83	66	75	2	0	30	20	CM	93	64	98	66	82	OM	OM	OM	90	70	80	85	68	77	80	68	74
23	76	67	72	-1	0	27	17	OM	86	64	85	67	76	OM	OM	OM	80	68	74	78	70	74	75	70	73
24	80	64	72	-1	0	27	17	CM	89	60	90	63	77	OM	OM	OM	86	67	77	82	69	76	76	70	73
25	82	65	74	0	0	29	19	CM	91	62	91	64	78	OM	OM	OM	86	67	77	83	70	77	78	70	74
26	85	64	75	1	0	30	20	OM	93	61	93	63	78	OM	OM	OM	87	65	76	83	68	76	79	70	75
27	86	65	76	2	0	31	21	CM	94	61	96	63	80	OM	OM	OM	95	65	80	89	69	79	82	70	76
28	86	66	76	1	0	31	21	OM	95	63	96	66	81	OM	OM	OM	98	70	84	92	70	81	84	70	77
29	86	63	75	0	0	30	20	CM	98	60	97	63	80	OM	OM	OM	100	67	84	94	70	82	85	72	79
30	84	61	73	-2	0	28	18	OM	92	58	97	60	79	OM	OM	OM	90	66	78	86	65	78	81	71	76
31	84	64	74	-1	0	29	19	OM	92	60	97	62	80	OM	OM	OM	95	67	81	90	70	80	83	72	78

TOTAL E 784 474 C 2760 1760

MEAN 79.2 60.9 70.0 -1.4 0.3 25.3 15.3 0.0 85.0 57.4 91.2 60.1 75.6 0.0 0.0 0.0 87.4 64.0 75.7 82.6 66.0 74.3 76.6 66.6 71.6

TEMPERATURE EXTREMES: HIGHEST 86 ON DAYS 27, 28, 29,  
LOWEST 50 ON DAYS 10,

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 - MAY 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN		EVAPORATION		HYGROTHERMOGRAPH DATA					VEGETATIVE WETTING	
	WATER EQUI- VALENT (IN.)	CRY* DAYS (IN.)	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP MIN	(DEG F) MEAN	MILES PCVEMENT	AIR INCHES EVAP.	RELATIVE 1 AM	HUMIDITY (%) 7 AM	1 PM	7 PM	MEAN HRS	SOURCE
1	0.0	5	0.0	M C.0 M	60	54	67	30	0.213	75	78	51	78	71	0
2	0.0	6	0.0	M 0.0 P	71	57	64	25	0.142	86	75	39	73	68	4 DEW
3	0.04	7	0.0	M 0.0 M	81	60	71	15	0.149	81	90	81	97	87	10 RAIN
4	0.21	0	0.0	M C.0 M	76	58	68	32	0.093	97	93	45	57	73	15 RAIN
5	0.0	1	0.0	M C.0 M	65	57	71	31	0.242	70	67	38	58	58	0
6	0.0	2	0.0	M C.0 P	82	57	70	35	0.253	81	75	35	56	62	3 DEW
7	0.0	3	0.0	M C.0 P	83	59	71	45	0.267	78	76	46	100	75	2 DEW
8	0.32	0	0.0	M 0.0 M	63	61	72	61	0.142	100	100	69	73	86	17 RAIN
9	0.05	1	0.0	M C.0 P	79	54	67	68	0.200	51	55	37	51	49	5 RAIN
10	0.0	2	0.0	M C.0 M	60	54	67	41	0.258	71	78	41	60	63	5 RAIN
11	0.0	3	0.0	M 0.0 P	80	55	68	60	0.298	72	75	48	73	67	1 DEW
12	0.0	4	0.0	M 0.0 M	85	58	72	46	0.242	93	93	53	76	79	6 DEW
13	0.0	5	0.0	M C.0 M	87	66	77	50	0.236	85	81	64	94	81	2 DEW
14	0.0 T	6	0.0	M 0.0 P	75	65	70	23	0.092	96	97	90	100	96	12 RAIN
15	0.30	0	0.0	M 0.0 P	73	59	66	30	0.054	100	93	63	87	86	21 RAIN
16	0.0	1	0.0	M 0.0 M	83	64	74	45	0.171	84	57	85	88	89	0
17	0.06	2	0.0	M 0.0 M	74	67	71	123	0.077	94	100	94	94	96	12 RAIN
18	1.08	0	0.0	M C.0 M	72	67	70	62	0.087	100	94	67	97	90	11 DEW
19	0.01	1	0.0	M 0.0 M	87	68	78	24	0.180	100	97	80	94	93	12 RAIN
20	2.36	0	0.0	M C.0 M	81	66	74	57	0.0 M	100	100	69	87	89	13 RAIN
21	0.0	1	0.0	M 0.0 P	81	66	74	44	0.105	100	82	53	87	81	10 DEW
22	0.18	2	0.0	M C.0 M	89	68	79	33	0.196	84	94	100	100	95	10 RAIN
23	0.97	0	0.0	M 0.0 P	77	67	72	50	0.0 M	100	100	77	97	94	15 DEW RAIN
24	0.30	0	0.0	M C.0 M	81	67	74	37	0.0 P	100	100	61	76	84	12 RAIN
25	0.0	1	0.0	M 0.0 P	85	68	77	32	0.088	100	91	65	69	81	0
26	0.0	2	0.0	M C.0 M	66	65	76	61	0.182	87	84	53	74	75	0
27	0.0	3	0.0	M 0.0 P	89	64	77	49	0.344	59	82	63	82	72	0
28	0.0	4	0.0	M 0.0 M	85	66	78	46	0.255	97	87	59	97	85	0
29	0.78	0	0.0	M 0.0 M	51	65	78	33	0.256	100	90	55	85	83	19 RAIN
30	0.0	1	0.0	M C.0 M	88	67	78	28	0.257	97	94	50	82	81	13 DEW
31	0.0	2	0.0	M 0.0 P	88	68	78	25	0.264	97	90	52	79	80	12 DEW
TOTAL	6.66							1353	5.343						
MEAN		0.0			82.0	62.5	72.3	44	0.191	88	87	61	81	79	8

NORMAL PRECIPITATION FOR MONTH IS 3.90 INCHES; 24 HOUR MAXIMUM = 2.36 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 13; OF 0.50 OR MORE 4; 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 ROCK CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.



AGROCLIMATOLOGICAL DATA - MAY 1980

ALBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SUNSHINE AND RADIATION			BAROMETRIC DATA			CLONE		THUNDERSTORMS			FRONTS		
	DIR.	PREV AVER SPEED	DIR.	PREV AVER SPEED	HR.	GUST SPEED	MINS. CF	PERCENT POSSIBLE SUNSHINE	LANG-LEYS* SOLAR RAD.	LANG-LEYS* NET RAD.	STATION INCHES	PRESSURE	MIXING RATIO**	MAX	MIN	D A Y	LIGHT-NING STROKES	OBSERVED OR REPORTED HAIL HI-WIND	TIME CF PASS-AGE	TYPE OF FRONT
1	N	2	V	3	12:00	10	75	5.6	CM	OM	29.98	29.82	29.90	OM	CM	0				
2	V	2	V	2	12:00	13	365	45.1	516	OM	29.95	29.85	29.90	CM	OM	0				
3	N	1	SE	4	7:00	12	237	25.2	358	OM	29.98	29.92	29.95	CM	OM	0				
4	N	2	V	3	14:00	11	603	74.2	617	OM	29.96	29.92	29.94	OM	OM	0				
5	V	2	NW	5	12:00	16	615	75.6	603	OM	29.94	29.86	29.90	CM	OM	0				
6	N	0	N	6	12:00	21	666	81.5	646	OM	29.91	29.85	29.88	OM	OM	0				
7	N	0	SW	5	16:00	34	370	45.2	415	OM	29.95	29.87	29.91	OM	OM	1		YES		
8	SW	4	NW	6	12:00	19	334	40.6	442	OM	29.89	29.82	29.85	CM	OM	1		YES	1200	CCLD
9	N	5	NW	6	8:00	17	701	85.4	677	OM	29.94	29.85	29.90	OM	OM	0				
10	V	3	SE	6	14:00	16	727	86.4	671	CM	30.06	29.93	29.95	OM	OM	0				
11	S	1	SW	5	9:00	15	730	86.7	666	OM	30.04	29.97	30.00	OM	CM	0				
12	S	1	SW	5	11:00	16	441	53.5	576	OM	30.09	30.01	30.05	CM	OM	0				
13	S	1	V	6	13:00	13	7	0.6	229	CM	30.05	29.98	30.01	CM	CM	0				
14	V	1	V	6	13:00	27	62	7.5	167	CM	29.99	29.94	29.96	OM	OM	0				
15	N	1	SE	3	11:00	10	730	86.1	511	OM	30.01	29.95	29.98	CM	CM	0				
16	E	3	E	8	17:00	23	303	36.5	173	OM	30.06	29.90	29.98	CM	OM	0				
17	SE	8	SE	7	10:00	27	43	5.2	146	OM	30.07	29.95	30.01	OM	OM	1		YES		
18	S	1	V	1	19:00	14	258	31.0	450	OM	30.12	30.06	30.09	CM	OM	1				
19	E	1	SW	5	9:00	15	41	4.5	325	OM	30.06	29.90	29.98	OM	OM	1				
20	V	3	NW	5	10:00	21	244	25.2	444	OM	29.95	29.81	29.88	OM	OM	1				
21	NW	1	V	3	12:00	11	589	76.4	OM	OM	30.03	29.94	29.99	OM	CM	0				
22	V	3	SW	5	11:00	21	217	25.5	281	CM	30.00	29.86	29.93	CM	OM	0				
23	S	2	V	4	16:00	21	249	25.6	378	OM	29.93	29.85	29.89	CM	OM	1				
24	E	1	N	4	13:00	16	533	63.4	580	OM	29.91	29.82	29.87	OM	OM	0				
25	N	1	NW	5	13:00	16	389	46.2	548	OM	29.82	29.72	29.77	OM	OM	0				
26	N	4	N	4	7:00	13	512	60.6	604	OM	29.90	29.77	29.83	OM	CM	0				
27	N	4	SE	5	17:00	12	466	55.2	605	OM	30.06	29.90	29.98	OM	CM	0				
28	SE	2	V	4	16:00	29	333	35.4	528	OM	30.14	30.05	30.10	CM	OM	1		YES	YES	
29	E	1	SE	4	15:00	11	518	61.2	601	OM	30.13	30.05	30.09	CM	CM	0				
30	S	1	SE	3	13:00	13	595	70.2	620	OM	30.13	30.08	30.10	OM	OM	0				
31	S	1	V	3	10:00	10	691	81.6	578	OM	30.17	30.09	30.13	CM	CM	0				
TOTAL							12650		13955	0						8				
MEAN		2		5		17	406		461	0	30.01	29.91	29.96	0.0	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 YEAR	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	1946	42	1925
4	82	56	69	92	1930	40	1971
5	82	56	69	95	1930	43	1949
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	1962	44	1927
17	85	59	72	96	1962	41	1956
18	85	59	72	92	1963	47	1945
19	85	59	72	96	1962	48	1976
20	85	59	72	96	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	96	1937	52	1971
31	88	62	75	96	1911	52	1930

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

AGROCLIMATOLOGICAL DATA - JUNE 1980

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	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
					65	45	55	65																45	55
1	87	64	76	0	0	31	21	CM	9E	60	101	62	82	OM	OM	OM	96	68	82	91	71	81	84	72	78
2	85	64	75	-1	0	30	20	OP	54	61	55	64	82	CM	OM	OP	100	69	85	94	72	83	86	73	80
3	86	65	76	0	0	31	21	OM	97	61	100	64	82	OM	OM	OM	104	70	87	97	74	86	88	75	82
4	88	69	79	3	0	34	24	CM	5E	64	101	68	85	OP	OM	OM	105	72	89	99	76	88	91	76	84
5	92	73	83	6	0	38	28	CM	102	68	106	71	89	OM	OM	OM	103	74	89	98	77	88	91	78	85
6	92	71	82	5	0	37	27	CM	102	66	105	70	88	OM	OM	OM	107	76	92	101	75	90	93	79	86
7	91	65	80	3	0	35	25	CM	105	65	102	65	86	OM	OM	OM	106	76	91	101	79	90	93	80	87
8	89	72	81	4	0	36	26	CM	105	68	101	72	87	CM	CM	CM	106	77	92	100	80	90	93	80	87
9	92	62	77	0	0	32	22	CM	105	58	104	62	83	OM	OM	OM	104	70	87	98	75	87	91	78	85
10	83	58	71	-6	0	26	16	CM	101	51	57	57	77	OM	OM	OM	104	68	86	98	73	86	90	76	83
11	87	55	73	-4	0	28	18	OP	100	51	100	57	79	OM	OM	OM	106	70	88	99	74	87	91	76	84
12	91	61	76	-2	0	31	21	CM	106	58	105	62	84	OM	OM	OM	107	70	89	100	75	88	92	77	85
13	90	66	78	0	0	33	23	CM	108	62	104	66	85	CM	CM	CM	106	73	90	99	77	88	92	78	85
14	88	63	76	-2	0	31	21	OP	102	58	104	63	84	OM	OM	OM	106	73	90	99	77	88	92	79	86
15	91	64	78	0	0	33	23	CM	105	58	105	64	85	OM	OM	OM	103	74	85	98	77	88	91	79	85
16	90	66	79	1	0	34	24	OP	110	62	106	66	86	CM	OM	CM	104	76	90	99	78	89	92	80	86
17	91	67	79	1	0	34	24	CM	108	61	105	66	86	OM	OM	OM	107	76	92	100	79	90	93	81	87
18	91	70	81	3	0	36	26	CM	105	68	105	71	88	OM	OM	OM	105	75	90	99	78	89	92	80	86
19	88	65	79	1	0	34	24	CM	106	65	99	69	84	OM	OM	OM	100	75	88	95	78	87	89	79	84
20	86	68	77	-2	0	32	22	CM	105	66	95	70	85	OM	OM	OM	95	74	85	91	77	84	87	78	83
21	89	71	80	1	0	35	25	CM	105	67	99	72	86	OM	OM	OM	102	76	89	97	79	88	90	78	84
22	83	68	76	-3	0	31	21	CM	93	65	94	69	82	OM	OM	OM	92	74	83	85	77	83	86	75	83
23	87	70	79	0	0	34	24	OM	100	67	102	70	86	OM	OM	OM	100	73	87	93	76	85	87	77	82
24	82	71	77	-2	0	32	22	OP	96	69	97	72	85	CM	OM	OM	88	73	81	85	74	80	81	75	78
25	84	70	77	-2	0	32	22	OP	90	67	90	70	80	OM	OM	OM	87	72	80	85	74	80	81	75	78
26	87	67	77	-2	0	32	22	CM	97	63	96	67	82	CM	OM	OM	87	70	79	85	73	79	82	75	79
27	91	70	81	2	0	36	26	CM	105	66	104	69	87	OM	OM	OM	106	75	91	99	75	87	91	75	83
28	90	72	81	2	0	36	26	OM	102	66	103	70	87	OM	OM	OM	108	77	93	102	80	91	94	80	87
29	90	70	80	0	0	35	25	CM	105	65	103	70	87	CM	OM	OM	111	78	95	104	81	93	96	82	89
30	88	67	78	-2	0	33	23	CM	95	65	98	68	83	OM	OM	OM	96	71	84	91	75	83	86	77	82

TOTAL 0 492 652 0 305E 1851

MEAN 88.3 67.3 77.8 0.1 0.0 33.1 23.1 0.0101.5 63.0101.1 67.0 84.1 0.0 0.0 0.0101.7 73.2 87.4 96.2 76.3 86.3 89.5 77.6 83.5

TEMPERATURE EXTREMES: HIGHEST 92 ON DAYS 5, 6, 9,  
LOWEST 58 ON DAYS 10.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 13 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 - JUNE 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION				HYGROTHERMOGRAPH DATA							VEGETATIVE WETTING
	WATER EQUIVALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	TEMP (DEG F) PEAK	MILES PER HOUR MOVEMENT	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	RELATIVE HUMIDITY (%) 7 AM	RELATIVE HUMIDITY (%) 1 PM	RELATIVE HUMIDITY (%) 7 PM	MEAN	HRS	SOURCE
1	0.0	3	0.0	M 0.0	M 50	68	75	22	0.229	100	91	53	76	80	12	DEW
2	0.0	4	0.0	M 0.0	M 90	68	75	34	0.272	91	90	57	85	81	12	DEW
3	0.0	5	0.0	M 0.0	M 92	70	81	32	0.273	100	85	52	74	78	10	DEW
4	0.0	5	0.0	M 0.0	M 94	71	83	26	0.301	90	74	58	82	76	11	DEW
5	0.0	6	0.0	M 0.0	M 93	72	83	24	0.283	91	65	46	79	70	10	DEW
6	0.0	7	0.0	M 0.0	M 96	71	84	42	0.288	76	97	52	82	77	2	DEW
7	0.0	8	0.0	M 0.0	M 95	71	83	30	0.268	100	91	58	72	80	9	DEW
8	0.0	9	0.0	M 0.0	M 94	72	83	45	0.265	97	100	64	69	83	6	DEW
9	0.0	10	0.0	M 0.0	M 91	78	85	85	0.315	73	65	33	51	56	0	
10	0.0	11	0.0	M 0.0	M 86	58	72	56	0.336	63	59	31	57	53	0	
11	0.0	12	0.0	M 0.0	M 89	63	76	33	0.328	81	56	31	58	57	5	DEW
12	0.0	13	0.0	M 0.0	M 91	60	76	62	0.371	59	61	32	56	52	0	
13	0.0	14	0.0	M 0.0	M 91	65	78	53	0.297	71	91	45	76	71	0	
14	0.0	15	0.0	M 0.0	M 92	67	80	41	0.252	97	88	38	65	72	10	DEW
15	0.0	16	0.0	M 0.0	M 91	67	79	40	0.265	87	88	44	63	71	7	DEW
16	0.0	17	0.0	M 0.0	M 93	68	81	54	0.305	82	85	44	59	68	4	DEW
17	0.0	18	0.0	M 0.0	M 95	67	81	60	0.340	76	79	49	94	75	1	DEW
18	0.25	0	0.0	M 0.0	M 91	70	81	49	0.288	100	100	62	88	88	16	RAIN
19	0.0	1	0.0	M 0.0	M 90	72	81	41	0.268	100	100	68	100	92	12	DEW RAIN
20	0.02	1	0.0	M 0.0	M 86	69	78	42	0.182	100	91	55	80	82	12	DEW
21	0.0	2	0.0	M 0.0	M 91	68	80	33	0.298	60	66	72	91	72	4	DEW
22	0.0	3	0.0	M 0.0	M 82	68	75	45	0.182	87	90	75	100	88	7	DEW RAIN
23	0.06	4	0.0	M 0.0	M 89	69	75	55	0.160	100	100	82	100	96	18	RAIN FOG
24	0.77	0	0.0	M 0.0	M 81	70	76	51	0.053	100	100	88	78	92	21	RAIN
25	0.32	0	0.0	M 0.0	M 85	70	78	45	0.167	97	100	80	82	90	19	RAIN
26	0.0	1	0.0	M 0.0	M 87	71	79	37	0.238	100	85	52	72	77	13	DEW
27	0.0	2	0.0	M 0.0	M 96	74	85	27	0.311	98	100	62	82	86	11	DEW FOG
28	0.0	3	0.0	M 0.0	M 95	75	85	28	0.304	100	98	60	74	83	14	DEW RAIN
29	0.0	4	0.0	M 0.0	M 97	73	85	40	0.326	100	98	75	98	93	11	DEW
30	0.11	5	0.0	M 0.0	M 85	65	77	36	0.153	100	94	51	57	76	14	RAIN

TOTAL 1.53

1278 7.918

MEAN 0.0 90.6 65.1 75.9 43 0.264 89 86 56 77 77 5

NORMAL PRECIPITATION FOR MONTH IS 4.25 INCHES; 24 HOUR MAXIMUM = 0.77 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 6; OF 0.50 OR MORE 1; OF 1.00 OR MORE 0

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

1 = 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 1980

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL					SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS			FRONTS	
	EPH TO 6AM		6AM TO 6PM		MAX GUST	MINS. CF	PERCENT CF	LANG-LEYS*	LANG-LEYS*	STATION IN INCHES	PRESSURE	MIXING RATIO**		D LIGHTNING	OBSERVED OR REPORTED	TIME OF PASS	TYPE OF FRONT		
	DIR.	AVER. SPEED	DIR.	AVER. SPEED	HR. SPEED	SUN-SHINE	Possible	SOLAR RAD.	NET RAC.	MAX	MIN	MEAN	MAX	MIN	S	ES	HAIL HI-WIND	-AGE	
1	E	1	SE	4	12:00	11	691	81.4	619	OM	30.13	30.05	30.09	CM	CM	0			
2	S	1	S	4	14:00	14	651	76.6	636	OM	30.12	30.07	30.10	CM	CM	0			
3	S	1	SW	3	11:00	14	720	84.6	652	OM	30.14	30.06	30.10	CM	CM	0			
4	W	1	NW	3	11:00	12	666	76.3	589	OM	30.11	30.05	30.08	CM	CM	0			
5	NW	2	M	3	7:00	13	736	88.3	623	OM	30.15	30.03	30.09	OM	CM	0			
6	E	2	SW	4	12:00	12	614	72.0	601	OM	30.14	30.05	30.10	OM	CM	0			
7	SW	1	SW	5	14:00	15	690	81.7	609	OM	30.15	30.02	30.08	OM	CM	0			
8	SW	2	W	6	17:00	21	566	66.3	452	OM	30.07	29.95	30.01	OM	CM	0			
9	N	7	NW	5	1:00	18	594	65.5	664	OM	30.09	29.94	30.01	OM	CM	0			1800 COLC
10	N	4	NW	5	9:00	14	780	92.0	730	OM	30.02	29.94	29.98	CM	OM	0			
11	NW	2	NW	4	14:00	14	720	85.0	653	OM	30.14	30.02	30.08	CM	OM	0			
12	N	5	V	3	6:00	12	676	75.3	655	OM	30.15	30.08	30.11	CM	CM	0			
13	E	4	SE	5	8:00	15	536	62.5	627	OM	30.19	30.08	30.13	OM	CM	0			
14	S	1	SW	5	14:00	16	491	57.3	573	OM	30.14	30.02	30.08	OM	CM	0			
15	W	1	SW	6	15:00	16	647	75.5	632	CM	30.13	30.05	30.09	CM	CM	0			
16	W	2	SW	6	15:00	16	640	74.7	656	OM	30.14	30.02	30.08	OM	OM	1			
17	SW	2	SW	5	21:00	16	460	53.6	541	OM	30.12	30.02	30.07	CM	OM	1			
18	V	3	V	5	10:00	14	400	46.6	561	OM	30.04	29.91	29.97	OM	CM	0			
19	V	1	M	4	18:00	17	345	40.2	350	OM	30.00	29.91	29.96	OM	CM	0			
20	V	2	M	3	13:00	12	595	65.3	393	OM	30.03	29.96	29.99	OM	OM	0			
21	NE	3	NE	5	14:00	17	608	70.5	344	OM	0.0 M	0.0 M	0.0 M	OM	CM	0			0100 GOLD
22	E	3	V	4	16:00	18	175	20.5	525	OM	0.0 M	0.0 M	0.0 M	CM	CM	0			
23	E	3	SE	4	15:00	12	204	23.6	364	OM	30.05	30.01	30.03	CM	OM	1			
24	S	3	SW	5	14:00	15	600	65.5	376	OM	30.03	29.93	29.98	CM	OM	1			
25	W	2	V	5	16:00	15	622	72.6	421	OM	29.97	29.90	29.93	CM	CM	0			
26	V	1	V	4	10:00	12	785	91.5	707	OM	29.99	29.93	29.96	OM	OM	0			
27	V	1	SE	3	13:00	13	721	84.0	621	OM	30.06	29.98	30.02	OM	CM	0			
28	S	1	SW	4	12:00	12	731	85.3	674	OM	30.10	30.03	30.07	CM	CM	0			
29	S	2	V	3	20:00	17	457	53.3	625	OM	30.08	29.95	30.01	OM	OM	1			YES
30	W	2	NW	7	13:00	23	770	85.8	701	OM	30.04	29.96	30.00	CM	CM	0			
TOTAL							17524		17274	0						5			
MEAN		2		4		15	557		576	0	30.09	30.00	30.04	0.0	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 MILLICA.

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 PEAK	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	35 1956
4	88	63	76	99	1936	54 1954
5	89	64	77	101	1936	47 1954
6	89	64	77	99	1942	53 1954
7	89	64	77	102	1933	54 1926
8	89	64	77	99	1933	51 1955
9	89	65	77	99	1962	54 1977
10	89	65	77	99	1954	52 1913
11	89	65	77	100	1920	52 1913
12	90	65	78	101	1962	54 1960
13	90	65	78	98	1958	55 1955
14	90	66	78	101	1962	56 1960
15	90	66	78	102	1963	56 1923
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 1958
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 1980

AUBURN, ALABAMA

DAY	AIR TEMPERATURE DATA (IN DEGREES FARENHEIT)										SOIL TEMPERATURE DATA															
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			C-FILL P-RS		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	MAX	MIN
1	92	68	80	0	0	35	25	CM	105	64	103	67	85	CM	CM	CM	104	71	88	99	76	88	92	78	85	
2	91	70	81	1	0	36	26	CM	103	66	105	70	88	CM	CM	CM	108	75	92	102	75	91	94	79	87	
3	93	65	81	1	0	36	26	CM	105	64	105	65	87	CM	CM	CM	110	78	94	104	81	93	96	81	89	
4	93	72	83	3	0	38	28	CM	104	67	104	72	88	CM	CM	CM	108	80	94	103	83	93	96	83	90	
5	92	73	83	4	0	38	28	CM	105	67	106	72	89	CM	CM	CM	106	80	93	101	83	92	95	85	90	
6	94	75	85	6	0	40	30	CM	106	70	107	75	91	CM	CM	CM	108	81	95	103	84	94	96	85	91	
7	97	66	83	4	0	38	28	CM	109	65	109	68	89	CM	CM	CM	110	73	92	104	77	91	98	81	90	
8	93	65	81	1	0	36	26	CM	104	63	102	68	85	CM	CM	CM	103	74	89	99	78	89	93	81	87	
9	95	70	83	3	0	38	28	CM	111	65	108	70	89	CM	CM	CM	111	78	95	104	82	93	97	81	89	
10	98	74	86	6	0	41	31	CM	112	68	107	73	90	CM	CM	CM	110	81	96	105	83	94	96	84	91	
11	100	76	88	8	0	43	33	CM	114	72	110	76	93	CM	CM	CM	111	83	97	106	86	96	99	86	93	
12	99	75	89	9	0	44	34	CM	112	76	111	80	96	CM	CM	CM	109	85	97	105	87	96	99	87	93	
13	100	76	88	8	0	43	33	CM	114	71	115	75	95	CM	CM	CM	110	83	97	106	86	96	100	88	94	
14	101	75	88	8	0	43	33	CM	114	70	112	75	94	CM	CM	CM	111	84	98	106	87	97	101	88	95	
15	103	77	90	10	0	45	35	CM	114	74	112	77	95	CM	CM	CM	112	85	99	107	88	98	101	89	95	
16	97	73	85	5	0	40	30	CM	114	69	112	73	93	CM	CM	CM	110	83	97	106	87	97	100	88	94	
17	100	70	85	5	0	40	30	CM	113	67	113	70	92	CM	CM	CM	109	76	93	104	80	92	96	83	91	
18	95	65	82	2	0	37	27	CM	110	65	112	68	88	CM	CM	CM	110	76	93	104	80	92	97	82	90	
19	94	73	84	4	0	39	29	CM	108	71	103	73	88	CM	CM	CM	106	75	86	93	79	86	91	82	87	
20	89	72	81	1	0	36	26	CM	104	71	105	72	89	CM	CM	CM	108	74	86	94	77	86	90	81	86	
21	88	70	79	-1	0	34	24	CM	105	68	103	70	87	CM	CM	CM	103	73	88	97	76	87	92	80	86	
22	88	71	80	0	0	35	25	CM	95	69	101	71	86	CM	CM	CM	94	74	84	90	77	84	88	80	84	
23	89	72	81	1	0	36	26	CM	104	70	102	72	87	CM	CM	CM	107	76	92	100	79	90	95	80	88	
24	85	72	79	-1	0	34	24	CM	96	70	96	72	84	CM	CM	CM	95	76	86	92	75	86	91	81	85	
25	86	68	77	-3	0	32	22	CM	104	66	103	68	86	CM	CM	CM	97	71	84	91	74	83	87	78	83	
26	86	71	79	-1	0	34	24	CM	96	69	95	71	83	CM	CM	CM	94	73	84	90	76	83	87	78	83	
27	89	71	80	0	0	35	25	CM	106	65	106	71	89	CM	CM	CM	104	76	90	99	77	88	93	79	86	
28	88	65	79	-1	0	34	24	CM	103	68	100	70	85	CM	CM	CM	100	75	88	95	77	86	91	79	85	
29	84	65	77	-3	0	32	22	CM	96	67	92	69	81	CM	CM	CM	91	73	82	88	75	82	86	78	82	
30	91	67	79	-1	0	34	24	CM	104	62	100	65	83	CM	CM	CM	105	71	88	99	75	87	93	79	86	
31	94	65	82	2	0	37	27	CM	107	67	103	69	86	CM	CM	CM	109	67	88	103	79	91	96	71	84	

TOTAL 0 1163 653 0 3313 2045

MEAN 53.0 71.5 82.3 2.7 0.0 37.5 27.5 0.0106.5 68.2105.2 71.4 88.3 0.0 0.0 0.0104.9 76.8 90.9100.0 80.2 90.1 94.5 81.8 88.1

TEMPERATURE EXTREMES: HIGHEST 103 ON DAYS 15,  
LOWEST 67 ON DAYS 30,

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 21 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 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		COPEN PAN		EVAPORATION		HYGROTEHERMOGRAPH DATA					VEGETATIVE WETTING		
	WATER EQUI- VALENT (IN.)	DRY* DAYS (IN.)	INDEX	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	(DEG F) MEAN	MILES MOVEMENT	AIR INCHES EVAP.	RELATIVE HUMIDITY (%)	1 AM	7 AM	1 PM	7 PM	MEAN HRS	SOURCE
1	0.0	6	0.0	M C.0 M	52	65	79	77	0.412	71	64	40	55	58	0	
2	0.0	7	0.0	M C.0 M	53	68	81	36	0.339	68	73	47	70	65	0	
3	0.0	8	0.0	M C.0 M	55	74	85	32	0.304	58	80	54	70	76	7	DEW
4	0.0	9	0.0	M C.0 M	94	76	85	29	0.339	91	85	56	75	77	4	DEW
5	0.0	10	0.0	M C.0 M	54	76	85	27	0.276	98	91	58	72	80	8	DEW
6	0.0	11	0.0	M C.0 M	55	77	86	37	0.320	98	80	51	98	82	4	DEW
7	0.35	0	0.0	M C.0 M	57	68	83	68	0.361	100	77	54	51	71	13	RAIN
8	0.0	1	0.0	M C.0 M	54	70	82	37	0.338	91	85	48	75	75	1	DEW
9	0.0	2	0.0	M C.0 M	98	74	86	26	0.288	98	80	50	70	75	7	DEW
10	0.0	3	0.0	M C.0 M	96	76	86	19	0.275	88	82	41	61	68	5	DEW
11	0.0	4	0.0	M C.0 M	57	77	87	37	0.418	88	80	45	60	68	0	
12	0.0	5	0.0	M C.0 M	96	76	86	75	0.476	79	70	42	70	65	0	
13	0.0	6	0.0	M C.0 M	57	76	87	37	0.380	88	70	40	49	62	1	DEW
14	0.0	7	0.0	M C.0 M	57	76	87	55	0.443	82	70	34	58	61	1	DEW
15	0.0	8	0.0	M C.0 M	99	76	88	58	0.390	82	88	47	64	70	2	DEW
16	0.0	9	0.0	M C.0 M	55	75	87	25	0.282	100	80	48	91	80	7	DEW
17	0.05	10	0.0	M C.0 M	96	70	83	48	0.230	88	91	58	77	79	14	RAIN
18	0.80	0	0.0	M C.0 M	95	70	83	59	0.317	87	88	60	82	75	10	RAIN
19	0.0	1	0.0	M C.0 M	54	76	85	25	0.380	100	54	98	88	95	7	DEW
20	0.05	2	0.0	M C.0 M	93	74	84	52	0.233	100	98	68	100	92	9	DEW
21	0.76	0	0.0	M C.0 M	51	72	82	60	0.318	100	100	68	90	90	14	RAIN
22	0.0	1	0.0	M C.0 M	52	74	83	50	0.267	100	94	62	82	85	8	DEW
23	0.0 T	2	0.0	M C.0 M	55	73	84	60	0.325	93	100	80	91	91	4	RAIN
24	0.0 T	3	0.0	M C.0 M	87	73	80	21	0.183	100	98	94	91	96	5	DEW
25	0.21	0	0.0	M C.0 M	88	71	80	35	0.187	100	100	74	88	91	13	DEW RAIN
26	0.0	1	0.0	M C.0 M	89	73	81	28	0.207	100	88	68	88	86	10	DEW
27	0.0	2	0.0	M C.0 M	54	74	84	35	0.244	100	100	75	100	94	9	DEW
28	1.04	0	0.0	M C.0 M	91	71	81	44	0.146	100	100	88	94	96	18	RAIN FOG
29	0.0	1	0.0	M C.0 M	89	74	82	26	0.203	100	85	50	72	77	10	DEW
30	0.0	2	0.0	M C.0 M	54	71	83	36	0.325	90	82	56	77	76	7	DEW
31	0.0	3	0.0	M C.0 M	97	74	86	19	0.285	100	98	53	70	80	8	DEW
TOTAL	3.30							1275	9.495							
MEAN		0.0			94.1	73.2	83.7	41	0.306	93	86	58	77	79	7	

MONTHLY PRECIPITATION FOR MONTH IS 5.36 INCHES; 24 HOUR MAXIMUM = 1.04 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 7; 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 - JULY 1980

ALBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL					SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS	
	6PM TO 6AM		6AM TO 6PM		MAX GUST	MIN. CF	PERCENT CF	LANG-LEYS*	LANG-LEYS*	STATION IN INCHES	PRESSURE	MIXING RATIO**	D LIGHTNING	OBSERVED OP	TIME CF	TYPE		
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR. SPEED	SUN-SHINE	PCSSHINE	SOLAR RAD.	NET RAD.	MAX	MIN	MEAN	MAX	MIN	Y STROKES	REPORTED HAIL HI-WIND	PASS OF -AGE	FRONT
1	NE	4	NE	4	4:00	13	757	53.1	702	OM	30.09	29.96	30.02	OM	OM	0		
2	E	3	SE	4	9:00	11	754	55.1	660	OM	30.15	30.07	30.11	OM	OM	0		
3	V	1	SW	4	13:00	13	731	85.6	610	OM	30.14	30.07	30.10	OM	OM	0		
4	V	1	V	3	17:00	11	755	55.4	507	OM	30.15	30.07	30.11	OM	OM	0		
5	V	1	V	4	10:00	18	766	65.5	553	OM	30.15	30.06	30.10	OM	OM	0		
6	V	1	NW	6	18:00	32	716	63.5	610	OM	0.0 M	0.0 M	0.0 M	OM	OM	1		YES
7	V	3	N	5	15:00	15	OM	C.CM	643	OM	0.0 M	0.0 M	0.0 M	OM	OM	0		
8	NE	2	W	3	14:00	10	OM	C.CM	640	OM	30.14	30.04	30.09	OM	OM	0		
9	V	0	SW	4	12:00	13	OM	C.CM	624	OM	30.13	30.06	30.10	OM	OM	0		
10	V	1	W	5	13:00	17	OM	C.CM	648	OM	30.11	30.00	30.05	OM	OM	0		
11	SW	2	NW	7	9:00	21	676	75.6	645	OM	30.03	29.92	29.97	OM	OM	0		
12	V	3	NW	5	16:00	21	666	75.4	575	OM	30.01	29.93	29.97	OM	OM	0		
13	V	1	NW	6	10:00	19	729	66.1	660	OM	0.0 M	0.0 M	0.0 M	OM	OM	1		
14	V	2	V	5	14:00	15	680	60.3	649	OM	30.05	29.92	29.95	OM	OM	0		
15	E	2	V	3	1:00	11	515	60.5	555	OM	30.10	30.02	30.06	OM	OM	0		
16	V	0	V	4	17:00	21	434	51.4	533	OM	30.06	29.92	29.99	OM	OM	1		
17	V	3	V	3	20:00	38	530	62.5	550	OM	30.06	29.87	29.96	OM	OM	1		YES
18	V	OM	V	2	2:00	12	408	45.5	OM	OM	30.04	29.87	29.95	OM	OM	0		
19	SE	1	SE	3	15:00	13	275	32.7	447	OM	30.12	30.02	30.07	OM	OM	1		
20	V	2	SE	4	16:00	15	303	36.1	474	OM	30.16	30.09	30.13	OM	OM	1		
21	SE	1	SE	4	13:00	12	459	54.7	535	OM	30.20	30.12	30.16	OM	OM	0		
22	V	1	SE	3	16:00	10	534	63.7	612	OM	30.11	29.96	30.04	OM	OM	0		
23	V	2	V	3	2:00	9	117	14.0	306	OM	30.00	29.92	29.96	OM	OM	0		
24	V	C	V	2	12:00	12	259	31.0	373	OM	30.02	29.94	29.98	OM	OM	1		
25	SW	2	NE	4	10:00	15	282	33.6	386	OM	30.08	0.0 M	0.0 M	OM	OM	0		
26	V	1	V	3	20:00	14	425	51.0	505	OM	0.0 M	0.0 M	0.0 M	OM	OM	0		
27	SW	4	SW	4	15:00	30	196	23.0	350	OM	0.0 M	0.0 M	0.0 M	OM	OM	1		YES
28	W	2	V	3	15:00	11	257	31.0	356	OM	29.98	29.53	29.95	OM	OM	0		
29	V	1	NW	4	15:00	15	638	77.1	630	OM	30.02	29.94	29.98	OM	OM	0		
30	NW	1	V	2	15:00	10	672	81.3	622	OM	30.04	29.98	30.01	OM	OM	0		
31	V	1	V	2	13:00	9	566	66.6	564	OM	30.12	30.04	30.08	OM	OM	0		
TOTAL							14142		16568	0						8		
MEAN		2		4		16	524		552	0	30.09	29.99	30.04	0.0	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  
JULY

DAY	DAILY NORMAL			RECORD TEMPERATURES		
	MAXIMUM	MINIMUM	DAY PEAK	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	95	1954	63 1947
5	90	68	75	100	1930	59 1922
6	90	68	75	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	1935	55 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	1935	55 1923
20	91	68	80	95	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	95	1944	62 1911
28	91	69	80	100	1952	63 1911
29	91	69	80	103	1952	62 1924
30	91	68	80	103	1952	62 1924
31	91	68	80	95	1921	61 1936

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

AGROCLIMATOLOGICAL DATA - AUGUST 1980

ALBURN, 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*	BELGW	ABOVE	65		45	55	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
1	95	70	83	3	0	38	28	CM	105	67	107	70	89	OM	OM	OM	110	77	94	103	81	92	96	83	91	
2	93	71	82	2	0	37	27	CM	106	67	103	70	87	OM	OM	OM	110	78	94	103	82	93	96	85	92	
3	93	71	82	2	0	37	27	CM	105	67	107	70	89	OM	CM	OM	109	78	94	104	82	93	95	85	92	
4	91	68	80	0	0	35	25	CM	107	65	103	68	86	OM	OM	OM	109	77	93	103	81	92	96	85	92	
5	89	69	79	-1	0	34	24	CM	95	65	95	68	82	OM	OM	OM	97	75	86	94	78	86	91	82	87	
6	96	71	84	4	0	39	29	CM	110	68	108	71	90	CM	OM	OM	110	79	95	103	82	93	96	82	90	
7	100	71	86	6	0	41	31	CM	110	67	110	71	91	OM	OM	OM	110	79	95	104	82	93	96	85	92	
8	96	70	83	3	0	38	28	OM	106	68	105	70	90	OM	OM	OM	107	77	92	103	81	92	96	85	92	
9	97	72	85	5	0	40	30	OM	112	70	108	73	91	OM	OM	OM	108	81	95	104	83	94	99	85	92	
10	103	71	87	7	0	42	32	CM	112	69	112	71	92	CM	OM	OM	111	77	94	105	80	93	101	84	93	
11	91	71	81	1	0	36	26	OM	106	70	101	72	87	OM	OM	OM	98	76	87	95	79	87	92	83	88	
12	88	70	79	-1	0	34	24	OM	103	68	101	70	86	OM	OM	OM	102	75	89	97	75	88	93	82	88	
13	91	68	80	0	0	35	25	CM	104	67	102	68	85	OM	OM	OM	106	74	90	100	77	89	94	81	88	
14	96	68	82	2	0	37	27	CM	110	66	105	68	89	OM	CM	OM	110	77	94	102	78	90	97	81	89	
15	94	71	83	3	0	38	28	CM	103	69	107	71	89	OM	OM	OM	108	79	94	103	82	93	96	84	91	
16	94	72	83	3	0	38	28	CM	111	70	107	72	90	OM	OM	OM	107	77	92	102	80	91	97	84	91	
17	94	73	84	4	0	39	29	CM	106	70	104	72	88	OM	OM	OM	107	78	93	102	81	92	96	84	90	
18	94	73	84	4	0	39	29	CM	106	71	105	73	89	OM	OM	OM	109	77	93	102	80	91	96	83	90	
19	90	72	81	1	0	36	26	CM	102	69	104	71	88	CM	OM	OM	102	77	90	95	80	88	92	83	88	
20	93	71	82	2	0	37	27	OM	108	69	107	71	89	CM	OM	OM	104	75	90	95	77	88	93	81	87	
21	96	73	85	5	0	40	30	OM	108	71	107	73	90	OM	OM	OM	104	78	91	98	80	89	93	81	87	
22	97	72	85	6	0	40	30	CM	105	70	109	72	91	OM	OM	OM	107	79	93	102	82	92	96	84	91	
23	96	72	84	5	0	39	29	OM	110	70	107	72	90	OM	OM	OM	109	79	94	104	82	93	96	86	93	
24	86	65	78	-1	0	33	23	OM	91	67	91	65	80	CM	OM	OM	94	75	85	92	78	85	90	82	86	
25	91	67	79	0	0	34	24	CM	104	64	104	67	86	CM	OM	OM	103	75	89	95	79	89	94	82	88	
26	90	66	78	-1	0	33	23	CM	103	61	106	65	87	OM	OM	OM	103	75	89	98	79	89	94	82	88	
27	90	68	79	0	0	34	24	CM	108	64	105	67	88	CM	CM	OM	100	75	88	96	78	87	92	82	87	
28	91	65	80	1	0	35	25	CM	102	66	105	70	88	OM	OM	OM	102	77	90	98	80	89	93	82	88	
29	89	66	78	-1	0	33	23	OM	106	64	104	66	85	OM	OM	OM	99	75	87	94	78	86	91	82	87	
30	93	66	81	2	0	36	26	CM	106	65	106	68	87	CM	OM	OM	106	77	92	100	80	90	95	82	89	
31	94	67	81	2	0	36	26	CM	110	64	109	67	88	OM	OM	OM	107	78	93	102	80	91	96	83	90	

TOTAL 0 1143 833 C 3306 2068

MEAN 93.3 70.0 81.6 2.3 0.0 36.9 26.9 0.0106.6 67.4105.4 69.9 87.6 0.0 0.0 0.0105.4 77.0 91.2100.2 80.0 90.1 95.5 83.1 89.3

TEMPERATURE EXTREMES: HIGHEST 103 ON DAYS 10,  
LOWEST 66 ON DAYS 24, 29,

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 27 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 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		TEMP		WIND	WIND DIR	EVAPORATION	PSYCHROMETER DATA					VEGETATIVE WETTING		
	WATER EQUIVALENT (IN.)	DRY DAYS	INDEX (IN.)	PERCENT BY VOL.	MAX	MIN				MEAN	RELATIVE HUMIDITY (%)	1 AM	7 AM	1 PM		7 PM	MEAN
1	0.0	4	0.0	M 0.0	M	99	75	87	14	0.272	94	98	62	80	84	6	DEW
2	0.0	5	0.0	M 0.0	M	97	74	86	30	0.275	97	94	56	63	78	5	DEW
3	0.0	6	0.0	M 0.0	M	97	72	85	41	0.315	91	100	51	72	79	5	DEW
4	0.0	7	0.0	M 0.0	M	95	71	83	48	0.299	100	88	85	94	92	3	DEW
5	0.04	8	0.0	M 0.0	M	90	72	81	16	0.132	100	100	55	72	82	9	DEW
6	0.0	9	0.0	M 0.0	M	100	74	87	16	0.274	79	82	47	72	70	0	
7	0.0 T	10	0.0	M 0.0	M	95	72	86	24	0.243	87	82	55	80	76	2	DEW
8	0.08	11	0.0	M 0.0	M	94	75	85	13	0.252	100	85	45	63	73	13	RAIN DEW
9	0.01	12	0.0	M 0.0	M	96	76	86	10	0.308	85	85	36	77	71	2	DEW
10	0.46	0	0.0	M 0.0	M	97	72	85	43	0.352	91	91	56	80	80	12	RAIN
11	0.0	1	0.0	M 0.0	M	95	73	84	25	0.249	54	51	64	88	84	4	DEW
12	0.0	2	0.0	M 0.0	M	91	73	82	22	0.190	100	51	64	97	88	10	DEW
13	0.05	3	0.0	M 0.0	M	94	71	83	31	0.222	100	85	51	69	76	16	RAIN
14	0.0	4	0.0	M 0.0	M	97	73	85	17	0.237	91	88	51	77	77	5	DEW
15	0.0	5	0.0	M 0.0	M	96	73	85	34	0.259	100	97	52	94	86	8	DEW
16	0.14	6	0.0	M 0.0	M	94	74	84	36	0.213	100	100	58	91	87	14	RAIN
17	0.0	7	0.0	M 0.0	M	97	75	86	30	0.219	100	91	54	94	85	7	DEW
18	0.04	8	0.0	M 0.0	M	97	73	85	52	0.187	97	100	64	82	86	6	DEW
19	0.0	9	0.0	M 0.0	M	90	74	82	24	0.146	100	85	56	97	85	9	DEW
20	0.55	0	0.0	M 0.0	M	93	74	84	21	0.219	100	88	48	72	77	17	DEW RAIN
21	0.0	1	0.0	M 0.0	M	96	77	87	29	0.273	97	80	55	72	76	9	DEW
22	0.0	2	0.0	M 0.0	M	94	75	85	39	0.336	74	74	42	59	62	1	DEW
23	0.0	3	0.0	M 0.0	M	95	71	83	55	0.352	71	85	70	74	75	0	
24	0.0	4	0.0	M 0.0	M	84	70	77	50	0.153	82	82	47	74	71	1	DEW
25	0.0	5	0.0	M 0.0	M	92	67	80	35	0.266	67	79	41	58	61	0	
26	0.0	6	0.0	M 0.0	M	90	67	79	23	0.242	66	69	44	66	61	0	
27	0.0	7	0.0	M 0.0	M	86	68	77	24	0.213	84	74	39	60	64	0	
28	0.0	8	0.0	M 0.0	M	88	71	80	44	0.286	82	88	48	91	77	1	DEW RAIN
29	0.0 T	9	0.0	M 0.0	M	88	70	79	26	0.137	100	82	44	82	77	8	DEW RAIN
30	0.0	10	0.0	M 0.0	M	92	70	81	36	0.316	100	90	45	72	77	9	DEW
31	0.0	11	0.0	M 0.0	M	94	71	83	27	0.282	93	76	52	88	77	5	DEW
TOTAL	1.35								546	7.715							
MEAN		0.0				93.8	72.4	83.1	31	0.249	91	87	53	78	77	6	

NORMAL PRECIPITATION FOR MONTH IS 4.07 INCHES; 24 HOUR MAXIMUM = 0.55 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE IS; OF 0.50 OR MORE IS; OF 1.00 OR MORE IS

\* 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.

ACROCLIMATOLOGICAL DATA - AUGUST 1980

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. CF	PERCENT CF	LANG-LEYS*	LANG-LEYS*	STATION PRESSURE	IN INCHES	MIXING RATIO**		0 LIGHT-NING	OBSERVED OR REPORTED	TIME OF PASS	TYPE OF FRONT			
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED	HR. SPEED	SUN-SHINE	PCS-SHINE	SCLAR RAC.	NET RAC.	MAX	MIN	MEAN	MAX	MIN	Y STROKES	HAIL HI-WIND	-ACE	FRONT		
1	V	1	V	3	13:00	12	527	64.0	557	OM	30.14	30.03	30.08	CM	CM	0				
2	V	1	SW	4	12:00	14	635	77.3	555	OM	30.09	29.97	30.03	CM	CM	0				
3	V	2	SW	8	13:00	15	578	70.3	557	OM	30.02	29.94	29.98	OM	CM	0				
4	S	1	S	2	11:00	15	450	54.5	376	OM	30.10	29.99	30.04	OM	OM	1		YES		
5	S	1	S	2	12:00	14	651	75.6	580	OM	30.17	30.06	30.11	OM	CM	0				
6	S	2	S	3	15:00	25	445	55.0	493	OM	30.21	30.12	30.16	OM	OM	1		YES		
7	S	1	S	2	13:00	17	522	64.0	OM	OM	30.19	30.00	30.10	CM	OM	1				
8	S	1	S	3	14:00	12	485	55.7	553	OM	30.06	29.91	29.99	CM	CM	0				
9	S	1	V	4	18:00	21	427	52.6	551	OM	30.04	29.95	29.96	OM	OM	1		YES		
10	V	4	SW	3	13:00	12	431	53.2	545	OM	30.06	29.95	30.00	CM	CM	0				
11	S	2	V	3	14:00	14	175	21.7	398	OM	30.11	30.00	30.05	CM	OM	0				
12	V	1	V	4	15:00	27	278	24.4	470	OM	30.10	30.00	30.05	CM	OM	1		YES		
13	V	1	V	2	13:00	13	420	52.2	542	OM	30.06	29.96	30.01	CM	OM	0				
14	SW	1	SW	3	14:00	11	445	55.4	543	OM	30.07	29.98	30.02	OM	OM	0				
15	S	2	V	4	15:00	14	305	36.0	473	OM	30.07	29.98	30.02	OM	OM	1				
16	V	1	W	4	16:00	17	418	52.2	504	OM	30.09	30.00	30.04	CM	CM	0				
17	V	1	NW	4	15:00	16	338	42.4	438	OM	30.16	30.06	30.11	CM	OM	1				
18	E	3	SE	3	15:00	10	202	25.2	336	OM	30.19	30.08	30.13	CM	CM	0				
19	V	C	M	3	15:00	15	221	27.8	378	OM	30.14	30.04	30.09	OM	OM	1				
20	V	1	NW	3	15:00	12	592	74.6	553	CM	30.14	29.94	30.04	OM	CM	0				
21	V	1	NW	5	15:00	15	582	73.5	538	OM	29.98	29.87	29.92	CM	CM	0				
22	NW	1	NW	5	12:00	17	635	80.4	572	OM	29.97	29.88	29.93	OM	CM	0				
23	N	4	NE	5	9:00	15	57	7.2	258	OM	30.08	29.96	30.02	CM	CM	0				
24	E	3	NE	3	12:00	12	374	47.6	488	OM	30.16	30.08	30.12	CM	OM	0				
25	E	3	NE	4	1:00	11	347	44.3	472	OM	30.16	30.07	30.12	OM	CM	0				
26	E	2	NE	3	13:00	14	206	26.3	413	CM	30.18	30.08	30.13	CM	CM	0				
27	E	1	E	5	12:00	17	436	55.6	500	OM	30.18	30.10	30.14	OM	CM	0				
28	E	2	SE	4	13:00	13	271	34.6	370	CM	30.21	30.15	30.18	CM	CM	0				
29	S	1	V	5	17:00	18	564	72.6	545	OM	30.22	30.11	30.16	OM	CM	0				
30	SE	1	V	3	13:00	13	528	66.1	537	OM	30.19	30.08	30.13	OM	CM	0				
31	N	1	V	4	13:00	16	391	50.6	415	OM	30.18	30.09	30.13	OM	CM	0				
TOTAL							12940		14554	0						8				
MEAN	2		4		16	417		486	0	30.12	30.01	30.07	0.0	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 1965
4	91	68	80	100	1939	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.  
 PAGE 8-4

AGROCLIMATOLOGICAL DATA - SEPTEMBER 1980

ALBURN, ALABAMA

DAY	AIR TEMPERATURE DATA								(IN DEGREES FAHRENHEIT)									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	94	66	80	2	0	35	25	CM	112	63	106	66	86	CM	CM	CM	105	75	90	99	79	89	95	73	84		
2	94	69	82	4	0	37	27	CM	108	65	109	69	89	CM	CM	CM	102	76	89	96	79	88	91	82	87		
3	92	68	80	2	0	35	25	CM	104	67	101	68	85	CM	CM	CM	96	71	84	91	74	83	88	78	83		
4	92	68	80	2	0	35	25	CM	104	67	104	68	86	CM	CM	CM	96	72	84	91	75	83	89	78	84		
5	91	68	80	2	0	35	25	CM	104	68	106	70	88	CM	CM	CM	104	74	89	98	76	87	93	79	86		
6	93	70	82	4	0	37	27	CM	103	68	104	71	88	CM	CM	CM	106	77	92	101	80	91	96	81	89		
7	92	72	82	5	0	37	27	CM	106	70	104	72	88	CM	CM	CM	102	77	90	97	80	89	93	83	88		
8	96	68	82	5	0	37	27	CM	110	64	105	67	88	CM	CM	CM	106	75	91	101	79	90	96	83	90		
9	93	68	81	4	0	36	26	CM	106	64	104	68	86	CM	CM	CM	103	76	90	99	80	90	95	83	89		
10	94	67	81	4	0	36	26	CM	106	64	106	68	87	CM	CM	CM	104	77	91	100	80	90	95	83	89		
11	96	68	82	5	0	37	27	CM	108	67	108	68	88	CM	CM	CM	104	72	88	98	76	87	94	80	87		
12	87	66	78	2	0	33	23	CM	104	66	102	68	85	CM	CM	CM	100	73	87	95	76	86	91	80	86		
13	91	69	80	4	0	35	25	CM	105	65	104	68	86	CM	CM	CM	104	75	90	99	78	89	94	80	87		
14	94	65	80	4	0	35	25	CM	106	61	110	64	87	CM	CM	CM	103	73	88	98	78	88	94	82	88		
15	93	69	81	5	0	36	26	CM	104	65	106	69	88	CM	CM	CM	103	76	90	98	78	88	94	81	88		
16	98	63	81	6	0	36	26	CM	105	59	106	63	86	CM	CM	CM	105	75	90	100	79	90	96	83	90		
17	97	71	84	9	0	39	29	CM	110	68	109	71	90	CM	CM	CM	106	79	93	101	81	91	96	83	90		
18	78	68	73	-2	0	28	18	CM	82	66	82	68	75	CM	CM	CM	84	72	78	84	74	79	85	78	82		
19	82	71	77	2	0	32	22	CM	85	70	89	71	80	CM	CM	CM	86	73	80	84	75	80	83	78	81		
20	84	71	78	4	0	33	23	CM	92	69	91	71	81	CM	CM	CM	88	73	81	85	75	80	83	77	80		
21	89	70	80	6	0	35	25	CM	95	69	97	70	84	CM	CM	CM	91	73	82	90	75	83	86	77	82		
22	87	71	79	5	0	34	24	CM	97	69	95	72	84	CM	CM	CM	93	74	84	90	76	83	87	78	83		
23	91	69	80	7	0	35	25	CM	103	65	102	68	85	CM	CM	CM	102	74	88	97	77	87	92	79	86		
24	91	69	80	7	0	35	25	CM	105	66	107	69	88	CM	CM	CM	105	75	90	99	78	89	94	81	88		
25	89	68	79	6	0	34	24	CM	106	66	102	68	85	CM	CM	CM	99	74	87	94	78	86	91	81	86		
26	91	67	79	7	0	34	24	CM	106	66	104	68	86	CM	CM	CM	103	74	89	98	77	88	93	81	87		
27	89	61	75	3	0	30	20	CM	102	59	103	61	82	CM	CM	CM	101	69	85	96	74	85	92	79	86		
28	89	65	77	5	0	32	22	CM	106	66	105	68	87	CM	CM	CM	101	71	86	95	74	85	90	79	85		
29	68	60	64	-7	1	19	9	CM	72	60	75	62	69	CM	CM	CM	77	66	72	78	70	74	80	74	77		
30	60	59	60	-11	5	15	5	CM	61	59	62	60	61	CM	CM	CM	67	63	65	69	65	67	74	68	71		

TOTAL 6 1007 707 0 3031 1961

MEAN 89.2 67.5 78.3 3.4 0.2 33.6 23.6 0.0 0.0 0.0 65.4 66.5 67.8 84.1 0.0 0.0 0.0 98.2 73.5 85.8 94.0 76.5 85.3 90.7 79.4 85.0

TEMPERATURE EXTREMES: HIGHEST 98 ON DAYS 16,  
LOWEST 59 ON DAYS 30.

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; 15 DAYS WITH MAXIMUM 50 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 1980

ALBURN, 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 MIN	(DEG F) MEAN	MILES PERCENT	AIR INCHES EVAP.	RELATIVE HUMIDITY (%)			MEAN HRS		SOURCE			
										1 AM	7 AM	1 PM						
1	0.0	12	0.C	M C.O	M	92	65	81	35	0.221	97	79	59	94	82	10	DEW	RAIN
2	0.01	13	0.0	M 0.0	M	89	70	80	22	0.173	94	88	85	87	89	12	DEW	RAIN
3	1.13	0	0.0	M 0.0	M	88	69	79	25	0.153	97	94	46	74	78	10	RAIN	
4	0.0	1	0.0	M C.O	M	92	70	82	26	0.262	97	88	49	74	77	7	DEW	
5	0.0	2	0.0	M G.O	M	92	72	82	45	0.280	91	82	46	76	74	6	RAIN	
6	0.0	3	0.0	M C.O	M	94	72	83	37	0.263	82	82	56	82	76	0		
7	0.0	4	0.0	M 0.0	M	91	72	82	14	0.177	97	74	35	51	64	9	DEW	
8	0.0	5	0.0	M 0.0	M	94	67	81	30	0.309	64	76	46	57	61	0		
9	0.0	6	0.0	M 0.0	M	92	70	81	26	0.260	87	69	34	63	63	4	DEW	
10	0.0	7	0.0	M 0.0	M	92	70	81	31	0.295	69	85	40	97	73	0		
11	0.15	8	0.0	M 0.0	M	91	69	80	39	0.227	97	97	61	82	84	15	RAIN	
12	0.0	9	0.0	M 0.0	M	90	71	81	30	0.197	90	87	52	76	76	8	DEW	
13	0.0	10	0.0	M 0.0	M	93	71	82	29	0.259	87	82	43	60	68	2	DEW	
14	0.0	11	0.0	M C.O	M	91	69	80	21	0.234	81	74	37	71	66	5	DEW	
15	0.0	12	0.0	M C.O	M	91	65	80	16	0.253	84	69	38	58	62	0		
16	0.0	13	0.0	M C.O	M	93	67	80	35	0.326	76	66	30	59	58	0		
17	0.0	14	0.0	M 0.0	M	93	70	82	28	0.267	85	97	82	100	91	5	RAIN	DEW
18	0.48	0	0.0	M C.O	M	75	69	74	25	0.017	100	100	70	83	88	18	RAIN	
19	0.01	1	0.0	M C.O	M	83	70	77	23	0.074	100	100	70	100	93	16	RAIN	
20	0.06	2	0.0	M C.O	M	85	73	79	12	0.081	100	97	61	87	86	17	RAIN	
21	0.0	3	0.0	M 0.0	M	91	72	82	17	0.148	100	97	75	85	89	9	DEW	RAIN
22	0.0	4	0.0	M 0.0	M	88	73	81	15	0.125	100	97	52	79	82	6	DEW	
23	0.0	5	0.0	M C.O	M	93	72	83	20	0.227	90	85	46	59	70	10	DEW	
24	0.0	6	0.0	M 0.0	M	93	71	82	25	0.246	93	100	68	76	84	8	DEW	
25	0.0	7	0.0	M 0.0	M	89	71	80	13	0.143	100	100	47	76	81	9	DEW	
26	0.0	8	0.0	M 0.0	M	92	67	80	45	0.244	84	84	42	48	65	1	DEW	
27	0.0	9	0.0	M 0.0	M	88	59	74	83	0.352	51	54	29	56	48	0		
28	0.0	10	0.0	M 0.0	M	85	59	72	65	0.322	59	73	79	97	77	0		
29	0.03	11	0.0	M C.O	M	67	62	65	54	0.032	97	100	97	97	98	14	RAIN	
30	0.88	0	0.0	M 0.0	M	62	59	61	60	0.001	100	97	93	97	97	24	RAIN	
TOTAL	2.75								562	6.168								
MEAN		0.0			88.5	66.8	78.6	32	0.206	88	86	56	77	77	8			

NORMAL PRECIPITATION FOR MONTH IS 4.20 INCHES; 24 HOUR MAXIMUM = 1.13 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE IN; OF 0.50 OR MORE IN; OF 1.00 OR MORE IN

\* 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 1980

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRONTS	
	6PM TO 6AM		6AM TO 6PM		MINS. PERCENT CF	SUN- SHINE	LANG- LEYS*	LANG- LEYS*	STATION PRESSURE IN INCHES			MIXING RATIO**		C Y	L S	L S	T P
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED					HR.	SPEED	MAX	MIN	MEAN				
1	SE	2	V	3	13:00	13	311	40.3	368	OM	30.18	30.09	30.13	CM	CM	0	
2	V	1	V	2	23:00	0	326	42.4	333	CM	30.20	30.05	30.13	CM	CM	0	
3	V	2	SE	4	15:00	14	699	51.1	557	OM	30.19	30.06	30.13	CM	CM	0	
4	V	1	E	5	11:00	14	583	76.2	521	OM	30.20	30.09	30.14	OM	CM	0	
5	E	2	SE	4	11:00	13	648	84.5	546	OM	30.21	30.10	30.15	CM	CM	0	
6	N	2	NW	2	15:00	10	188	24.7	521	OM	30.18	30.04	30.11	OM	CM	0	
7	V	1	NW	5	13:00	14	505	66.5	544	CM	30.08	29.99	30.04	OM	OM	0	
8	N	3	NE	5	14:00	16	467	61.7	491	OM	30.10	30.01	30.05	CM	CM	0	
9	NE	2	NE	6	13:00	17	546	72.2	527	OM	30.12	30.01	30.06	OM	CM	0	
10	V	1	V	3	17:00	25	213	26.3	426	OM	30.08	29.93	30.00	CM	CM	0	
11	V	2	V	3	10:00	12	283	37.7	458	OM	30.03	29.96	29.99	CM	CM	0	
12	V	2	SE	3	15:00	12	399	53.2	490	OM	30.09	30.00	30.04	OM	OM	0	
13	S	1	V	3	13:00	12	342	45.6	440	OM	30.17	30.08	30.13	CM	CM	0	
14	E	1	V	2	16:00	11	412	55.3	469	OM	30.12	29.98	30.05	CM	OM	0	
15	N	1	NW	3	11:00	12	443	59.5	502	OM	29.99	29.88	29.93	OM	OM	0	
16	N	2	V	2	11:00	12	522	70.4	494	OM	29.96	29.87	29.91	OM	CM	0	
17	V	2	NW	1	9:00	13	2	0.3	125	OM	30.02	29.91	29.96	OM	CM	0	
18	SW	1	V	2	17:00	9	42	5.7	217	CM	30.12	30.02	30.07	CM	CM	0	
19	E	2	V	2	10:00	8	26	3.5	223	CM	30.23	30.12	30.17	CM	OM	0	
20	V	0	S	2	13:00	10	250	34.1	346	OM	30.21	30.12	30.16	CM	CM	0	
21	E	2	V	3	13:00	10	87	11.9	302	OM	30.16	30.08	30.12	CM	OM	0	
22	V	1	SW	3	14:00	11	439	60.2	432	CM	30.13	30.02	30.07	OM	CM	0	
23	V	0	V	4	12:00	12	541	74.4	491	OM	30.07	29.99	30.03	CM	OM	0	
24	V	1	SE	2	12:00	10	149	20.5	305	OM	30.07	29.98	30.02	OM	OM	0	
25	V	1	SW	4	18:00	15	339	46.9	441	OM	30.07	30.01	30.04	OM	OM	0	
26	N	5	NE	7	7:00	16	442	61.3	454	OM	30.19	30.07	30.13	CM	CM	0	
27	N	7	NE	5	17:00	17	325	45.2	429	OM	30.20	30.12	30.16	OM	OM	0	
28	NE	7	NE	4	8:00	16	0	0.0	77	OM	30.19	30.05	30.12	CM	CM	0	
29	E	3	E	4	10:00	11	0	0.0	51	OM	30.04	29.93	29.98	OM	OM	0	
30	NE	3	N	4	10:00	11	0	0.0	74	OM	29.93	29.82	29.88	OM	OM	0	
TOTAL							9529	11658	0							0	
MEAN		2		3		13	318	389	0	30.12	30.01	30.07	0.0	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 YEAR	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	102	1927	49 1961
18	86	63	75	100	1931	51 1961
19	86	63	75	95	1931	51 1956
20	86	62	74	101	1925	49 1956
21	85	62	74	97	1925	45 1918
22	85	62	74	98	1955	44 1918
23	85	61	73	98	1940	48 1918
24	85	61	73	98	1921	49 1918
25	84	61	73	97	1975	46 1928
26	84	60	72	96	1923	45 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	1932	38 1967

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

AGROCLIMATOLOGICAL DATA - OCTOBER 1980

ALBURN, ALABAMA

DAY	AIR TEMPERATURE DATA (IN DEGREES FARENHEIT)											SOIL TEMPERATURE DATA													
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS		5CM EVER 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	65	59	62	-9	3	17	7	CM	66	59	68	60	64	OM	OM	OM	60	62	65	68	65	67	70	68	69
2	74	55	67	-4	0	22	12	CM	77	58	77	59	68	CM	OM	OM	75	63	69	73	66	70	73	68	71
3	78	51	65	-5	0	20	10	OM	85	49	85	51	68	CM	OM	OM	79	58	69	77	63	70	76	67	72
4	75	43	59	-11	6	14	4	OM	85	40	88	43	66	OM	OM	OM	78	52	65	76	57	67	74	62	68
5	71	48	60	-10	5	15	5	CM	86	45	82	49	66	CM	OM	OM	82	55	69	78	58	68	74	62	68
6	70	43	57	-12	8	12	2	CM	80	42	83	44	64	OM	OM	OM	83	50	67	78	56	67	74	61	68
7	69	46	58	-11	7	13	3	CM	75	42	80	45	63	OM	OM	OM	83	51	67	78	56	67	74	61	68
8	74	47	62	-6	3	17	7	OM	87	45	90	48	69	CM	CM	OM	88	56	72	82	59	71	76	61	69
9	80	52	67	-1	0	22	12	CM	91	50	90	53	72	OM	OM	OM	91	59	75	84	62	73	79	64	72
10	82	56	69	1	0	24	14	CM	93	53	94	56	75	OM	OM	OM	92	61	77	86	65	76	80	67	74
11	86	57	72	5	0	27	17	CM	96	54	99	57	78	OM	OM	OM	92	63	78	87	67	77	82	69	76
12	83	46	65	-2	0	20	10	CM	92	39	93	43	68	OM	OM	OM	92	55	74	86	61	74	82	66	74
13	72	44	58	-8	7	13	3	CM	82	41	85	43	64	OM	OM	OM	87	51	69	82	57	70	78	63	71
14	73	44	59	-7	6	14	4	CM	84	38	85	41	63	CM	OM	OM	87	53	70	81	57	69	76	63	70
15	76	51	64	-2	1	19	9	CM	86	46	89	49	69	OM	OM	OM	88	57	73	82	60	71	77	63	70
16	79	56	69	4	0	24	14	CM	90	55	93	57	75	CM	CM	OM	87	61	74	81	63	72	77	65	71
17	80	62	71	6	0	26	16	CM	85	61	89	62	76	OM	OM	OM	86	65	76	81	66	74	77	67	72
18	81	67	74	10	0	29	19	CM	85	66	90	66	79	OM	OM	OM	87	69	78	83	68	76	79	70	75
19	78	67	73	9	0	28	18	CM	86	67	86	68	77	OM	OM	OM	78	69	74	77	70	74	76	72	74
20	75	49	62	-2	3	17	7	CM	80	47	79	49	64	OM	OM	OM	77	55	66	76	59	68	75	64	70
21	67	50	59	-4	6	14	4	CM	81	48	80	50	65	OM	CM	OM	72	52	62	70	56	63	69	60	65
22	72	55	64	1	1	19	9	CM	82	53	84	56	70	CM	OM	OM	80	56	68	75	57	66	71	60	66
23	75	60	68	5	0	23	13	CM	84	56	87	58	73	OM	OM	OM	84	61	73	79	61	70	74	63	69
24	66	56	61	-1	4	16	6	CM	75	56	79	58	69	CM	CM	OM	73	60	67	71	62	67	69	65	67
25	60	41	51	-11	14	6	0	CM	63	40	65	41	53	OM	OM	OM	66	49	58	66	54	60	66	56	63
26	60	34	47	-15	18	2	0	CM	67	31	68	35	52	CM	OM	OM	67	44	56	65	48	57	64	54	59
27	67	43	55	-6	10	10	0	CM	80	42	80	44	62	OM	OM	OM	75	45	60	70	48	59	66	54	60
28	70	51	61	0	4	16	6	CM	82	53	81	55	68	OM	OM	OM	78	54	66	71	55	63	68	57	63
29	65	57	61	1	4	16	6	CM	66	57	67	59	63	OM	OM	OM	64	59	62	64	60	62	64	62	63
30	62	49	56	-4	9	11	1	CM	64	50	65	51	58	CM	OM	OM	65	55	60	64	57	61	64	60	62
31	57	42	50	-10	15	5	0	OM	60	41	61	43	52	OM	OM	OM	61	48	55	60	51	56	61	55	58

TOTAL 134 531 238 C 2505 1524

MEAN 72.4 51.2 61.8 -3.4 4.3 17.1 7.7 0.0 80.9 49.2 82.0 51.5 66.7 0.0 0.0 0.0 79.5 56.4 68.0 75.8 59.5 67.7 73.1 63.0 68.0

TEMPERATURE EXTREMES: HIGHEST 86 ON DAYS 11,  
LOWEST 34 ON DAYS 26,

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

\* DEPARTURE FROM NORMAL.

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

AGROCLIMATOLOGICAL DATA - OCTOBER 1980

AGBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		TEMPERATURE			EVAPORATION		HYGROTHERMOGRAPH DATA							VEGETATIVE WETTING
	WATER EQUIVALENT (IN.)	DRY* DAYS	INDEX (IN.)	PERCENT BY VOL.	WATER MAX	TEMP (DEG F) MIN	MEAN	MILES PER HOUR	INCHES EVAP.	RELATIVE HUMIDITY (%) 1 AM	7 AM	1 PM	7 PM	MEAN	HRS	SOURCE	
1	1.22	0	0.0	M	63	59	61	37	0.0	97	97	74	100	92	15	RAIN	
2	0.0	1	0.0	M	73	62	68	18	0.059	97	97	60	87	85	7	DEW	
3	0.0	2	0.0	M	79	59	69	41	0.172	87	87	34	67	69	6	DEW	
4	0.0	2	0.0	M	76	49	63	57	0.258	71	77	34	75	64	4	DEW	
5	0.0	4	0.0	M	74	49	62	30	0.184	77	83	39	64	66	6	DEW	
6	0.0	5	0.0	M	74	46	60	69	0.215	80	80	39	62	65	6	DEW	
7	0.0	6	0.0	M	73	48	61	44	0.195	66	69	29	65	57	3	DEW	
8	0.0	7	0.0	M	78	51	65	12	0.171	80	81	38	78	69	7	DEW	
9	0.0	8	0.0	M	82	56	69	12	0.170	97	84	43	78	76	12	DEW	
10	0.0	9	0.0	M	83	55	71	21	0.175	93	84	42	76	74	12	DEW	
11	0.0	10	0.0	M	82	61	72	21	0.250	84	58	50	52	61	10	DEW	
12	0.0	11	0.0	M	82	51	67	50	0.240	54	55	31	55	49	0		
13	0.0	12	0.0	M	73	45	59	56	0.229	68	63	30	68	57	0		
14	0.0	13	0.0	M	73	46	60	28	0.179	72	64	39	77	63	5	DEW	
15	0.0	14	0.0	M	76	51	64	26	0.173	59	81	52	66	65	2	DEW	
16	0.0	15	0.0	M	78	56	67	57	0.172	75	81	51	66	68	1	DEW	
17	0.0	16	0.0	M	78	60	69	60	0.143	84	90	61	71	77	4	DEW	
18	0.08	17	0.0	M	80	64	72	46	0.118	97	100	82	97	94	13	RAIN	
19	0.87	0	0.0	M	77	68	72	44	0.057	100	100	87	90	94	18	RAIN	
20	0.01	1	0.0	M	75	54	65	37	0.063	80	74	40	62	64	15	DEW	
21	0.0	2	0.0	M	68	49	59	40	0.160	69	71	37	69	62	0		
22	0.0	3	0.0	M	72	50	61	30	0.180	69	67	43	56	59	0		
23	0.0 T	4	0.0	M	76	57	67	55	0.194	72	93	65	75	76	2	RAIN	
24	0.0 T	5	0.0	M	67	57	62	101	0.090	93	87	81	93	85	0		
25	0.37	0	0.0	M	61	47	54	87	0.024	97	89	45	71	76	14	RAIN	
26	0.0	1	0.0	M	64	42	53	57	0.147	89	93	39	77	75	13	DEW	
27	0.0	2	0.0	M	69	42	56	30	0.136	89	68	39	63	65	6	DEW	
28	1.65	0	0.0	M	68	50	59	110	0.255	100	100	97	100	99	15	RAIN FOG	
29	0.0 T	1	0.0	M	62	57	60	32	0.013	100	93	93	97	96	16	RAIN	
30	0.28	0	0.0	M	62	52	57	41	0.002	96	96	97	93	96	22	RAIN	
31	0.0	1	0.0	M	56	46	51	77	0.047	96	100	39	48	71	16	DEW	
TOTAL	4.46							1430	4.471								
MEAN		0.0			72.7	53.0	62.9	46	0.149	83	83	53	74	73	8		

NORMAL PRECIPITATION FOR MONTH IS 2.51 INCHES; 24 HOUR MAXIMUM = 1.65 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 7; OF 0.50 OR MORE 3; 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 - OCTOBER 1960

AUCLRN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL				SUNSHINE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS		FRENDS				
	6PM TO 6AM		6AM TO 6PM		MIN.	PERCENT	LANG-	LANG-	STATION PRESSURE			MIXING		D	LIGHT-	OBSERVED	TIME			
	DIR.	AVER SPEED	DIR.	AVER SPEED	SHINE	SUNSHINE	LEYS*	LEYS*	IN	MIN	MEAN	MAX	MIN					NING	CR	PASS
				HR.										S	ES	HAIL	HI-WIND	CF	OF	
1	N	3	N	4	10:00	12	0P	C.CP	170	CM	29.93	29.84	29.88	CM	CM	0				
2	N	1	NW	4	12:00	13	0P	C.CP	354	0P	29.96	29.90	29.93	CM	CM	0			2200	COLD
3	N	2	NW	6	14:00	15	CM	C.CP	475	0P	29.97	29.90	29.93	CM	CM	0				
4	NW	2	SW	3	13:00	13	CM	C.CP	476	0P	30.04	29.92	29.98	CM	0P	0				
5	V	2	NW	6	11:00	16	0P	C.CP	489	0P	30.20	29.97	30.08	CM	CM	0				
6	N	5	NE	7	11:00	17	0M	C.CM	485	0P	30.29	30.20	30.24	0M	0M	0				
7	N	3	V	3	10:00	9	0P	C.CP	475	0P	30.25	30.10	30.18	CM	CM	0				
8	V	1	NW	2	11:00	11	0P	C.CP	448	0P	30.12	30.00	30.06	CM	CM	0				
9	NW	0	NW	3	12:00	12	CM	C.CP	440	CM	30.07	29.98	30.02	CM	CM	0				
10	NW	1	NW	3	15:00	12	CM	C.CM	417	0P	30.09	29.99	30.04	CM	0P	0				
11	W	0	W	5	12:00	16	0P	C.CP	442	0P	30.02	29.93	29.97	0M	0M	0			1500	COLD
12	NW	2	NW	5	10:00	17	CM	C.CM	466	CM	30.14	30.01	30.07	CM	0P	0				
13	N	4	NE	4	7:00	14	0P	C.CP	466	0P	30.22	30.14	30.18	CM	CM	0				
14	N	2	SE	3	10:00	12	0M	C.CM	446	0P	30.25	30.14	30.19	0M	0M	0				
15	E	2	SE	4	11:00	11	0P	C.CP	360	0P	30.23	30.13	30.18	CM	CM	0				
16	E	4	SE	4	10:00	13	0P	C.CP	311	0P	30.22	30.13	30.18	CM	CM	0				
17	E	4	SE	5	12:00	16	353	52.0	297	CM	30.14	30.03	30.08	CM	CM	0				
18	SE	2	SW	4	17:00	15	72	10.6	152	0P	30.08	29.96	30.02	CM	CM	0				
19	SW	3	W	3	22:00	12	127	16.6	145	CM	29.99	29.93	29.96	0M	0M	1				COLD
20	N	3	N	4	9:00	13	434	64.5	333	0P	30.10	30.00	30.05	0M	CM	0				
21	N	4	N	4	11:00	13	433	64.5	377	0P	30.16	30.06	30.11	CM	CM	0				
22	N	2	NE	4	12:00	14	485	73.1	365	0P	30.16	30.08	30.12	0M	0M	0				
23	E	4	E	7	14:00	23	144	21.6	180	CM	30.22	30.15	30.18	CM	CM	0				
24	E	5	E	6	23:00	16	1	0.2	108	0P	30.21	30.00	30.10	0M	CM	0				
25	M	5	NW	7	2:00	23	510	76.6	404	0P	30.17	30.00	30.08	0M	0M	0			0100	COLD
26	V	0	SW	3	10:00	11	535	81.4	412	0P	30.30	30.17	30.24	CM	CM	0				
27	V	1	SE	6	15:00	18	371	56.1	337	0P	30.18	29.95	30.06	0M	0M	1				
28	SE	6	SW	3	0:00	28	0	C.C	45	0P	30.07	29.94	30.01	CM	CM	0			2300	COLD
29	W	2	N	3	20:00	11	0	C.C	73	0P	30.17	30.07	30.12	CM	CM	0				
30	N	5	N	3	16:00	12	0	C.C	74	0P	30.22	30.14	30.18	CM	CM	0				
31	N	3	N	4	13:00	14	547	83.6	393	CM	30.24	30.17	30.21	CM	CM	0				
TOTAL							4020		10427	0						2				
MEAN		3		4		15	268		326	0	30.14	30.03	30.09	0.0	0.0					

\* ONE LANGLEY = ONE GRAY-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			RECRE TEMPERATURES	
	MAXIMUM	MINIMUM	DAY MEAN	HIGH YEAR	LOW YEAR
1	83	58	71	94 1954	42 1920
2	83	58	71	93 1954	35 1920
3	82	58	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 1922	36 1906
12	79	54	67	90 1954	38 1906
13	79	53	66	85 1916	38 1977
14	79	53	66	91 1916	36 1977
15	79	53	66	90 1954	34 1978
16	78	52	65	85 1941	34 1954
17	78	52	65	88 1962	33 1954
18	77	51	64	86 1962	33 1948
19	77	51	64	90 1936	34 1948
20	77	51	64	90 1943	33 1961
21	76	50	63	85 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	88 1940	27 1957
29	73	47	60	88 1940	29 1952
30	73	47	60	87 1940	29 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.

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AGROCLIMATOLOGICAL DATA - NOVEMBER 1980

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		55		MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
					65	45																			
1	68	42	55	-4	10	10	0	3	75	38	77	40	59	OM	OM	OM	70	46	52	67	49	58	64	54	59
2	73	44	59	0	6	14	4	2	81	41	84	44	64	OM	OM	OM	72	47	60	67	49	58	64	53	59
3	78	56	67	9	0	22	12	0	86	53	86	55	71	OM	OM	OM	74	50	62	69	52	61	66	56	61
4	75	57	66	8	0	21	11	0	83	57	87	52	73	OM	OM	OM	73	57	65	70	52	64	67	59	63
5	74	40	57	-1	9	12	2	4	83	36	81	39	60	OM	OM	OM	76	48	62	71	52	62	69	57	63
6	67	39	53	-4	12	8	0	9	77	34	75	38	57	OM	OM	OM	67	43	55	64	48	56	63	53	58
7	68	35	54	-3	11	5	0	9	75	36	77	39	58	OM	OM	OM	70	46	58	66	49	58	62	52	57
8	73	46	60	4	5	15	5	0	82	43	81	46	64	OM	OM	OM	71	47	59	67	49	58	63	53	58
9	74	45	60	4	5	15	5	0	82	42	81	45	63	OM	OM	OM	73	51	62	70	52	62	66	56	61
10	75	51	63	7	2	18	8	0	87	51	84	52	68	OM	OM	OM	75	51	63	72	54	63	67	57	62
11	78	51	65	10	0	20	10	0	84	48	85	50	68	OM	OM	OM	74	49	62	72	53	63	68	57	63
12	65	42	56	1	5	11	1	4	74	39	77	41	59	OM	OM	OM	69	44	57	66	49	58	63	53	58
13	68	42	55	0	10	10	0	2	78	37	79	40	60	OM	OM	OM	73	44	59	68	48	58	64	53	59
14	70	49	60	6	5	15	5	0	75	46	84	49	67	OM	OM	OM	73	45	55	67	48	58	63	53	58
15	70	54	62	8	3	17	7	0	76	56	79	57	68	OM	OM	OM	70	54	62	66	54	60	63	56	60
16	71	56	65	11	0	20	10	0	73	57	73	59	66	OM	OM	OM	70	59	65	68	61	65	65	61	63
17	65	50	58	4	7	13	3	0	67	51	68	52	60	OM	OM	OM	64	55	60	64	58	61	62	60	62
18	51	45	48	-5	17	3	0	0	52	45	53	46	50	OM	OM	OM	56	50	53	57	53	55	60	56	58
19	46	30	38	-15	27	0	0	21	46	28	48	30	39	OM	OM	OM	51	36	44	53	40	47	56	46	51
20	53	31	42	-11	23	0	0	18	64	28	63	31	47	OM	OM	OM	61	36	49	58	41	50	55	46	51
21	56	32	44	-9	21	0	0	15	65	29	66	31	49	OM	OM	OM	63	37	50	59	41	50	56	46	51
22	60	34	47	-5	18	2	0	13	65	34	71	25	53	OM	OM	OM	64	37	51	60	41	51	56	46	51
23	54	41	48	-4	17	3	0	1	57	41	58	42	50	OM	OM	OM	54	43	49	53	45	49	53	48	51
24	62	48	55	3	10	10	0	0	61	47	62	45	56	OM	OM	OM	58	47	53	58	48	53	57	50	54
25	60	42	51	-1	14	6	0	4	62	40	63	42	53	OM	OM	OM	61	45	53	60	48	54	55	52	56
26	61	43	52	1	13	7	0	1	71	43	71	44	58	OM	OM	OM	64	45	55	61	49	55	58	51	55
27	50	43	47	-4	18	2	0	8	53	42	53	44	49	OM	OM	OM	50	46	48	51	48	50	52	50	51
28	48	32	40	-11	25	0	0	24	47	30	45	32	41	OM	OM	OM	48	38	43	49	41	45	50	45	48
29	42	28	35	-15	30	0	0	24	50	24	48	27	38	OM	OM	OM	46	34	40	46	37	42	47	42	45
30	55	32	46	-4	19	1	0	16	65	28	66	31	49	OM	OM	OM	57	34	46	53	37	45	50	41	46

TOTAL 345 284 83 178 2120 1224

MEAN 63.9 42.9 53.4 -0.7 11.5 9.5 2.8 5.9 70.7 40.8 71.0 42.5 56.9 0.0 0.0 0.0 64.9 45.5 55.2 62.4 48.4 55.4 60.2 52.1 56.2

TEMPERATURE EXTREMES: HIGHEST 78 ON DAYS 3, 11,  
 LOWEST 28 ON DAYS 25,

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 - NOVEMBER 1980

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 TEMP (DEG F)	MAX MIN	MEAN	PILES AIR PERCENT	INCHES EVAP.	RELATIVE HUMIDITY (%)	1 AM	7 AM	1 PM	7 PM	MEAN	HRS
1	0.0	2	0.0	M 0.0 M	67	45	56	36	0.174	56	61	34	72	56	0	
2	0.0	3	0.0	M 0.0 M	69	45	57	27	0.169	74	75	30	52	58	2	DEW
3	0.0	4	0.0	M 0.0 P	73	50	62	44	0.192	62	93	66	84	76	0	
4	0.96	0	0.0	M 0.0 M	74	56	65	54	0.142	100	100	51	60	78	12	RAIN
5	0.0	1	0.0	M 0.0 M	74	48	61	45	0.0	M 63	71	29	50	53	3	DEW
6	0.0	2	0.0	M 0.0 M	65	43	54	62	0.202	65	65	26	74	58	0	
7	0.0	3	0.0	M 0.0 M	66	44	55	24	0.133	89	86	50	75	75	9	DEW
8	0.0	4	0.0	M 0.0 P	70	46	58	38	0.088	90	96	59	93	85	11	DEW
9	0.0	5	0.0	M 0.0 M	74	53	64	25	0.162	90	96	60	84	83	16	DEW
10	0.0	6	0.0	M 0.0 P	75	54	65	25	0.140	97	97	31	43	67	15	DEW
11	0.0	7	0.0	M 0.0 M	74	48	61	62	0.219	44	48	27	29	37	0	
12	0.0	8	0.0	M 0.0 P	62	46	51	66	0.183	32	43	21	63	40	0	
13	0.0	9	0.0	M 0.0 M	64	40	52	36	0.161	55	36	23	51	41	0	
14	0.0	10	0.0	M 0.0 M	64	43	54	65	0.163	80	93	66	78	79	5	DEW
15	0.13	11	0.0	M 0.0 M	67	51	59	51	0.048	84	100	90	100	94	8	RAIN
16	0.01	12	0.0	M 0.0 P	68	60	64	36	0.014	97	90	84	87	90	17	RAIN
17	0.01	13	0.0	M 0.0 M	63	54	59	102	0.018	97	100	93	100	98	13	RAIN
18	0.08	14	0.0	M 0.0 M	53	48	51	82	0.0	97	89	79	76	85	18	RAIN
19	0.0	15	0.0	M 0.0 M	48	37	43	91	0.013	79	78	43	82	71	1	DEW
20	0.0	16	0.0	M 0.0 M	55	38	47	34	0.080	73	79	38	76	67	3	DEW
21	0.0	17	0.0	M 0.0 M	58	39	45	22	0.082	73	79	31	60	61	9	DEW
22	0.0	18	0.0	M 0.0 P	58	35	45	56	0.155	57	55	39	41	48	0	
23	0.03	19	0.0	M 0.0 P	48	40	44	85	0.088	39	74	84	57	74	6	RAIN
24	1.09	0	0.0	M 0.0 M	59	44	52	104	0.045	100	100	75	77	86	19	RAIN
25	0.0	1	0.0	M 0.0 M	60	45	53	79	0.039	77	86	48	63	69	5	DEW
26	0.0	2	0.0	M 0.0 P	62	45	54	75	0.151	77	71	58	93	75	0	
27	0.59	0	0.0	M 0.0 M	48	43	46	125	0.010	100	100	89	82	93	20	RAIN
28	0.04	1	0.0	M 0.0 M	45	37	41	75	0.002	89	96	67	70	81	6	DEW
29	0.0	2	0.0	M 0.0 M	42	36	39	60	0.007	92	89	39	65	71	4	DEW
30	0.0	3	0.0	M 0.0 P	55	37	46	53	0.143	73	75	25	65	60	2	DEW
TOTAL	2.94							1755	3.027							
MEAN		0.0			62.0	44.9	53.5	55	0.104	77	81	52	71	70	7	

NORMAL PRECIPITATION FOR MONTH IS 3.89 INCHES; 24 HOUR MAXIMUM = 1.09 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 5; 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.

1 = 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 1980

ACORN, 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. CF SUN- SHINE	PERCENT CF SUNSHINE	LANG- LEYS* SOLAR RAC.	LANG- LEYS* NET RAD.	STATION PRESSURE IN INCHES			MIXING RATIO**		D A Y S	LIGHT- NING OR STROK- ES	OBSERVED OR REPORTED HAIL HI-WIND	TIME CF PASS -AGE	TYPE OF FRONT
	PREV DIR.	AVER SPEED	PREV DIR.	AVER SPEED						MAX	MIN	MEAN	MAX	MIN					
1	N	3	N	3	10:00	10	539	62.7	376	CM	30.23	30.14	30.18	CM	CM	0			
2	N	2	N	3	11:00	12	503	77.3	350	CM	30.26	30.16	30.21	CM	CM	0			
3	E	4	SE	5	12:00	12	375	57.6	382	CM	30.27	30.12	30.15	CM	CM	0			
4	E	2	NW	4	15:00	16	391	60.4	314	OM	30.12	30.01	30.06	CM	CM	0		0900 COLD	
5	N	2	NW	6	14:00	21	506	78.4	377	CM	30.12	30.00	30.06	OM	CM	0			
6	N	2	W	2	10:00	10	574	65.3	380	CM	30.21	30.06	30.15	CM	CM	0			
7	V	C	SW	4	14:00	15	487	75.5	351	CM	30.11	29.97	30.04	OM	CM	0			
8	V	C	SW	3	13:00	13	499	77.6	347	OM	30.05	29.96	30.01	OM	CM	0			
9	V	C	W	2	12:00	10	545	65.3	351	CM	30.09	29.99	30.04	CM	CM	0			
10	V	C	N	4	11:00	15	560	78.4	316	CM	30.14	30.06	30.10	CM	CM	0		1000 COLD	
11	N	6	N	5	6:00	19	378	55.4	254	CM	30.23	30.10	30.16	OM	CM	0			
12	N	5	N	4	3:00	13	462	72.5	320	OM	30.30	30.21	30.26	CM	CM	0			
13	E	2	E	5	11:00	17	387	61.1	327	OM	30.32	30.18	30.25	CM	OM	0			
14	E	4	E	4	6:00	11	178	26.2	153	CM	30.18	30.00	30.09	CM	CM	0			
15	E	3	N	2	15:00	10	5	C.E	92	OM	30.02	29.93	29.97	OM	OM	0		1300 COLD	
16	N	4	NE	5	23:00	16	0	C.C	75	OM	30.08	30.00	30.04	OM	OM	0			
17	E	8	E	6	6:00	21	0	C.C	37	OM	30.06	29.88	29.97	CM	CM	0			
18	W	4	NW	7	15:00	21	0	C.C	56	OM	30.25	29.89	30.07	CM	CM	0		0100 COLD	
19	N	5	N	3	8:00	13	464	74.2	342	OM	30.33	30.24	30.29	CM	OM	0			
20	N	3	NE	2	3:00	8	400	64.2	318	OM	30.33	30.24	30.29	CM	CM	0			
21	N	2	N	5	10:00	14	456	73.3	339	CM	30.34	30.26	30.30	OM	OM	0			
22	N	4	E	4	20:00	15	0	C.C	124	OM	30.38	30.24	30.31	CM	OM	0			
23	E	6	SE	6	6:00	18	0	C.C	76	CM	30.28	29.99	30.13	CM	CM	0			
24	S	5	NW	5	6:00	14	32	5.2	101	OM	30.16	29.98	30.07	CM	OM	0		0400 COLD	
25	N	4	N	6	8:00	16	442	71.6	312	CM	30.27	30.15	30.21	CM	CM	0			
26	N	5	E	8	18:00	25	0	C.C	83	OM	30.24	29.86	30.05	CM	CM	0			
27	E	8	W	5	2:00	17	0	C.C	44	OM	30.02	29.85	29.93	CM	OM	0		0700 COLD	
28	W	3	W	6	12:00	17	10	1.6	123	OM	30.09	30.00	30.04	CM	CM	0			
29	W	2	W	5	14:00	16	355	58.0	321	CM	30.22	30.08	30.15	OM	CM	0			
30	W	1	S	2	13:00	12	454	74.3	317	CM	30.32	30.20	30.26	OM	OM	0			
TOTAL							8942		7408	0						0			
MEAN		3		4		15	298		247	C	30.20	30.06	30.13	0.0	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	55	50	1935	31 1930
2	72	46	55	50	1935	28 1963
3	71	45	56	86	1935	19 1954
4	71	45	56	84	1961	26 1954
5	71	44	56	84	1946	27 1952
6	70	44	57	85	1920	28 1962
7	70	44	57	50	1920	27 1955
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	1936	26 1966
13	68	42	55	82	1936	25 1963
14	67	41	54	84	1924	24 1963
15	67	41	54	82	1955	18 1965
16	67	41	54	81	1951	18 1940
17	66	41	54	83	1921	26 1943
18	66	40	53	83	1956	21 1951
19	66	40	53	83	1942	22 1951
20	65	40	53	82	1942	16 1914
21	65	40	53	80	1942	21 1937
22	65	39	52	80	1913	22 1937
23	64	39	52	78	1962	18 1956
24	64	39	52	75	1931	16 1970
25	64	39	52	80	1921	9 1950
26	63	38	51	80	1972	5 1950
27	63	38	51	76	1973	21 1950
28	63	38	51	74	1906	21 1938
29	62	38	50	78	1960	17 1955
30	62	38	50	75	1976	16 1959

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

AGROCLIMATOLOGICAL DATA - DECEMBER 1980

ALBURN, ALABAMA

DAY	AIR TEMPERATURE DATA											(IN DEGREES FARENHEIT)												SOIL TEMPERATURE DATA								
	150 CM SHELTER TEMPERATURES				DEGREE DAYS			CHILL HRS	5CM OVER GRASS			5CM EVER FALLOW SCIL			SOIL SURFACE TEMPERATURES			5 CM SOIL TEMPERATURES			10 CM SOIL TEMPERATURES			20 CM SOIL TEMPERATURES								
	MAX	MIN	MEAN	DN*	BELOW		ABOVE		MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN						
					65	45		55																								
1	63	33	48	-2	17	3	0	13	74	29	71	24	48	OM	OM	OM	61	35	48	57	38	48	53	42	48							
2	66	37	52	3	13	7	0	5	77	36	74	26	55	OM	OM	OM	63	38	51	58	41	50	54	44	49							
3	71	33	52	3	13	7	0	8	81	30	78	32	55	OM	OM	OM	65	38	52	61	43	52	57	48	53							
4	59	34	47	-2	16	2	0	14	67	34	68	35	52	OM	OM	OM	59	37	48	56	40	48	54	45	50							
5	63	41	52	3	13	7	0	6	70	33	74	37	56	OM	OM	OM	60	37	49	57	40	49	53	44	49							
6	67	42	55	7	10	10	0	3	77	39	76	41	59	OM	OM	OM	65	39	52	60	42	51	55	45	50							
7	70	42	56	8	9	11	1	4	80	40	79	42	61	OM	OM	OM	67	43	55	63	46	55	58	48	53							
8	71	44	58	10	7	13	3	2	82	41	81	43	62	OM	OM	OM	68	45	57	64	47	56	60	50	55							
9	73	45	59	11	6	14	4	0	80	44	79	45	62	OM	OM	OM	67	46	57	64	49	57	60	51	56							
10	72	54	63	15	2	18	8	0	78	54	77	55	66	OM	OM	OM	66	57	62	64	57	61	61	56	59							
11	54	31	43	-5	22	0	0	15	54	29	55	31	43	OM	OM	OM	58	38	48	59	42	51	60	47	54							
12	56	29	43	-5	22	0	0	16	64	27	64	29	47	OM	OM	OM	60	37	49	57	41	49	54	45	50							
13	60	34	47	0	18	2	0	13	72	31	68	33	51	OM	OM	OM	61	37	49	57	41	49	54	45	50							
14	62	34	48	1	17	3	0	5	72	31	71	33	52	OM	OM	OM	60	36	48	56	40	48	53	45	49							
15	56	33	45	-2	20	0	0	14	65	30	66	33	50	OM	OM	OM	57	36	47	55	40	48	52	44	48							
16	58	33	46	-1	19	1	0	10	67	32	65	33	49	OM	OM	OM	58	38	48	54	41	48	52	44	48							
17	59	29	44	-3	21	0	0	10	73	27	69	29	49	OM	OM	OM	60	36	48	57	40	49	53	45	49							
18	53	28	41	-6	24	0	0	17	65	24	63	27	45	OM	OM	OM	58	34	46	55	38	47	52	43	48							
19	59	29	44	-3	21	0	0	10	66	30	67	29	48	OM	OM	OM	58	34	46	54	38	46	51	43	47							
20	59	34	47	0	18	2	0	9	71	34	68	36	52	OM	OM	OM	56	40	48	53	43	48	51	45	48							
21	44	33	39	-7	26	0	0	24	45	34	51	36	44	OM	OM	OM	51	37	44	49	41	45	49	43	46							
22	39	32	36	-10	29	0	0	24	43	33	43	34	39	OM	OM	OM	43	35	39	44	38	41	44	41	43							
23	35	32	36	-10	29	0	0	24	43	33	43	34	39	OM	OM	OM	42	35	39	43	38	41	43	41	42							
24	58	35	47	1	18	2	0	3	68	40	66	40	53	OM	OM	OM	59	40	50	55	41	48	50	42	46							
25	59	25	42	-4	23	0	0	13	56	23	55	25	42	OM	OM	OM	55	33	44	53	37	45	51	42	47							
26	38	25	32	-14	33	0	0	24	47	24	48	25	37	OM	OM	OM	47	33	40	46	36	41	45	39	42							
27	35	26	31	-15	34	0	0	24	35	23	38	26	32	OM	OM	OM	39	32	36	40	35	38	41	38	40							
28	44	26	35	-11	30	0	0	24	55	25	54	27	41	OM	OM	OM	48	32	40	46	35	41	43	38	41							
29	60	36	48	2	17	3	0	6	68	36	67	37	52	OM	OM	OM	53	33	43	50	35	43	47	38	43							
30	61	36	49	3	16	4	0	6	64	34	66	36	51	OM	OM	OM	58	38	48	55	42	49	52	45	49							
31	47	25	36	-10	29	0	0	21	50	21	52	24	38	OM	OM	OM	48	33	41	48	37	43	47	40	44							

TOTAL

594 109 16 373 2021 1001

MEAN 57.3 33.9 45.6 -1.4 19.2 3.5 0.5 12.0 65.2 32.3 64.5 33.8 45.1 0.0 0.0 0.0 57.1 37.5 47.3 54.5 40.7 47.6 51.9 44.1 48.0

TEMPERATURE EXTREMES: HIGHEST 73 ON DAYS 5,  
 LOWEST 25 ON DAYS 25, 26, 31,

TEMPERATURE: 0 DAYS WITH MAXIMUM 32 DEGREES OR BELOW; C DAYS WITH MAXIMUM 50 DEGREES OR ABOVE.  
 12 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 1980

AUBURN, ALABAMA

DAY	PRECIPITATION		SOIL MOISTURE		OPEN PAN EVAPORATION			HYGRO-THERMOGRAPH DATA							VEGETATIVE WETTING	
	WATER EQUI-VALENT (IN.)	DRY* DAYS	INDEX	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	0.0	4	0.0	M C.0 M	55	39	49	22	0.128	70	82	26	54	58	5	DEW
2	0.0	5	0.0	M C.0 M	61	39	50	29	0.173	82	80	64	87	78	0	
3	0.0	6	0.0	M C.0 M	65	40	53	71	0.075	55	69	28	42	49	0	
4	0.0	7	0.0	M C.0 M	57	38	46	55	0.152	49	46	17	51	41	0	
5	0.0	8	0.0	M C.0 M	56	35	49	54	0.170	33	62	49	83	57	0	
6	0.0	9	0.0	M C.0 M	62	35	51	23	0.081	86	92	47	83	77	14	DEW
7	0.0	10	0.0	M C.0 M	67	46	57	16	0.086	89	96	51	80	79	0	
8	0.0	11	0.0	M C.0 M	68	47	58	19	0.085	96	96	48	78	80	0	
9	0.0	12	0.0	M C.0 M	66	45	55	54	0.162	90	100	74	100	91	11	DEW FOG
10	1.60	0	0.0	M C.0 M	68	58	63	67	0.046	100	57	80	73	88	17	RAIN
11	0.0	1	0.0	M C.0 M	55	38	49	86	0.0	M 85	89	46	65	71	6	DEW
12	0.0	2	0.0	M C.0 M	54	38	46	32	0.0	M 82	89	32	62	66	5	DEW
13	0.0	3	0.0	M C.0 M	57	36	48	27	0.132	65	76	46	66	63	0	
14	0.0	4	0.0	M C.0 M	58	38	48	47	0.103	68	69	30	51	55	2	DEW
15	0.0	5	0.0	M C.0 M	55	38	47	35	0.126	54	79	29	55	54	0	
16	0.04	6	0.0	M C.0 M	56	38	47	34	0.158	76	89	47	59	68	12	RAIN
17	0.0	7	0.0	M C.0 M	56	38	47	65	0.0	M 79	85	48	67	70	5	DEW FOG
18	0.0	8	0.0	M C.0 M	62	38	50	27	0.0	M 89	92	40	51	68	3	DEW
19	0.0	9	0.0	M C.0 M	55	38	47	30	0.0	M 82	96	75	71	81	8	DEW FOG
20	0.0	10	0.0	M C.0 M	54	39	47	72	0.068	57	54	41	42	49	1	DEW
21	0.0	11	0.0	M C.0 M	44	37	41	81	0.133	44	52	37	40	43	0	
22	0.0	12	0.0	M C.0 M	39	34	37	88	0.0	M 38	34	42	50	41	0	
23	0.0	13	0.0	M C.0 M	39	34	37	56	0.0	M 79	89	55	74	74	0	
24	0.0 T	14	0.0	M C.0 M	52	37	45	40	0.086	83	86	97	70	84	10	RAIN
25	0.19	15	0.0	M C.0 M	54	32	43	135	0.0	M 66	50	32	43	48	2	RAIN
26	0.0	16	0.0	M C.0 M	40	32	36	76	0.0	M 43	37	36	69	46	0	
27	0.0 T	17	0.0	M C.0 M	35	32	36	40	0.0	M 72	55	30	36	48	0	
28	0.0	18	0.0	M C.0 M	41	32	37	62	0.0	M 43	50	57	53	51	0	
29	0.0 T	19	0.0	M C.0 M	45	24	42	60	0.074	68	89	55	74	72	4	RAIN
30	0.0	20	0.0	M C.0 M	58	29	49	68	0.071	60	76	65	82	71	0	
31	0.0	21	0.0	M C.0 M	45	35	40	55	0.0	M 89	96	52	67	76	8	DEW
TOTAL	1.83							1634	2.109							
MEAN		0.0			54.6	38.5	46.6	53	0.111	70	76	48	64	65	4	

MONTHLY PRECIPITATION FOR MONTH IS 5.51 INCHES; 24 HOUR MAXIMUM = 1.60 INCHES.

NUMBER OF DAYS WITH PRECIPITATION OF 0.01 OR MORE 31; 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 LOCAL CST. RELATIVE HUMIDITY IS AT INDICATED CST HOUR. OTHER DATA FOR 24 HOURS ENDING 7AM CST.

AGROCLIMATOLOGICAL DATA - DECEMBER 1980

AUBURN, ALABAMA

DAY	WIND OBSERVATIONS-14 FOOT LEVEL						SLASH-INE AND RADIATION				BAROMETRIC DATA			OZONE		THUNDERSTORMS			FRONTS				
	6PM TO 6AM		6AM TO 6PM		MAX GUST		MIN.	PERCENT	LANG-	LANG-	STATION	PRESSURE		MIXING		D	LIGHT-	OBSERVED	TIME				
	PREV	AVER	PREV	AVER	HR.	SPEED	SUN-	PGSSIELE	SOLAR	NET	IN	MAX	MIN	MEAN	MAX	MIN	Y	ES	HAIL	HI-WIND	PASS	OF	
DIR.	SPEED	DIR.	SPEED			SH-INE	SUNSHINE	RAD.	RAD.							S	ES	HAIL	HI-WIND	-ACE	FRONT		
1	S	1	S	3	10:00	5	459	75.2	305	CM	30.25	30.12	30.18	CM	CM	0							
2	S	1	W	4	22:00	17	259	42.5	234	CM	30.27	30.12	30.19	CM	CM	0					1500	COLD	
3	N	5	N	5	0:00	14	471	77.3	314	CM	30.43	30.27	30.35	CM	CM	0							
4	NE	3	E	4	9:00	14	476	76.6	317	CM	30.42	30.27	30.35	CM	CM	0							
5	E	3	S	2	0:00	10	411	67.7	280	CM	30.34	30.22	30.28	CM	CM	0							
6	V	1	V	1	12:00	5	458	75.6	282	CM	30.35	30.26	30.30	CM	CM	0							
7	V	1	W	2	11:00	8	460	75.9	281	CM	30.36	30.26	30.31	CM	CM	0							
8	V	1	SW	5	13:00	17	391	64.6	277	CM	30.26	30.11	30.18	CM	CM	0							
9	S	2	S	6	17:00	17	30	5.0	116	CM	30.12	30.00	30.06	CM	CM	0							
10	W	3	NW	6	10:00	16	33	5.5	98	CM	30.23	29.97	30.10	CM	CM	0					0500	COLD	
11	N	3	NW	4	9:00	11	472	78.1	308	CM	30.30	30.21	30.26	CM	CM	0							
12	N	1	SW	3	14:00	11	463	76.6	302	CM	30.32	30.15	30.26	CM	CM	0							
13	W	1	W	4	12:00	14	CM	0.0M	260	CM	30.22	30.14	30.18	CM	CM	0							
14	N	3	N	4	11:00	14	OM	C.CM	255	CM	30.30	30.11	30.21	CM	CM	0					0100	COLD	
15	N	2	W	3	12:00	11	OM	C.CM	257	CM	30.11	29.83	29.97	CM	CM	0							
16	SW	1	W	4	21:00	16	116	15.3	184	CM	29.88	29.70	29.79	CM	CM	0					1300	COLD	
17	N	4	N	4	9:00	12	411	68.3	259	CM	30.14	29.88	30.01	CM	CM	0							
18	W	1	S	3	11:00	11	438	72.5	300	CM	30.23	30.11	30.17	CM	CM	0							
19	S	1	W	3	21:00	16	115	15.1	145	CM	30.31	30.13	30.22	CM	CM	0					1600	COLD	
20	N	6	N	6	11:00	15	99	16.5	180	CM	30.43	30.31	30.37	CM	CM	0							
21	N	6	NE	6	0:00	13	0	C.C	93	CM	30.52	30.41	30.46	CM	CM	0							
22	E	5	E	4	7:00	14	0	C.C	82	CM	30.47	30.33	30.40	CM	CM	0							
23	E	4	V	2	2:00	5	116	15.3	208	CM	30.32	30.16	30.24	CM	CM	0							
24	S	3	S	6	17:00	23	0	C.C	65	CM	30.24	29.99	30.12	CM	CM	0							
25	NW	10	N	8	9:00	15	322	53.6	332	CM	30.43	30.24	30.33	CM	CM	0					1600	COLD	
26	E	3	E	3	6:00	10	0	C.C	117	CM	30.32	30.21	30.26	CM	CM	0							
27	N	2	N	5	8:00	12	134	22.2	256	CM	30.27	30.14	30.21	CM	CM	0							
28	N	5	N	7	12:00	18	53	6.8	188	CM	30.14	29.97	30.05	CM	CM	0							
29	N	3	N	3	15:00	11	101	16.6	154	CM	30.06	29.94	30.00	CM	CM	0					2200	COLD	
30	NW	4	N	7	11:00	15	11	1.6	148	CM	30.07	29.95	30.01	CM	CM	0							
31	V	1	W	4	14:00	12	176	25.2	265	CM	30.05	29.94	29.99	CM	CM	0							
TOTAL							6477		7022	0						0							
MEAN		3		4		14	231		227	C	30.26	30.11	30.19	0.0	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  
DECEMBER

DAY	DAILY NORMAL			RECORD TEMPERATURES			
	MAXIMUM	MINIMUM	DAY YEAR	HIGH	YEAR	LOW	YEAR
1	62	37	50	80	1932	19	1957
2	61	37	45	75	1970	23	1944
3	61	37	45	77	1922	17	1960
4	61	37	45	78	1933	20	1925
5	60	37	45	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	1955
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	18	1935
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.  
 PAGE 12-4

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

MONTH	TEMPERATURE						MEAN NO. OF DAYS					RAINFALL							
	NORMALS			EXTREMES			MEAN NO. OF DAYS	MAXIMUM TEMP.		MINIMUM TEMP.			NORMAL	MAXIMUM	MINIMUM		24 HOUR		
	MAX	MIN	MEAN	HIGH	YEAR	LOW	YEAR	BASE-65	50 OR	32 OR	32 OR	C OR	TOTAL	TOTAL	YEAR	TOTAL	YEAR	MAX	YEAR
								DEGREES	ABOVE	BELOW	BELOW	BELOW							
JAN	57.1	34.9	46.0	62	1975	0	1563	558	0	0	11	0	4.83	12.09	1936	0.49	1927	5.23	1912
FEB	60.3	36.7	48.5	82	1962	8	1558	465	0	0	8	0	5.32	17.61	1961	1.50	1943	7.83	1961
MAR	66.6	42.4	54.5	89	1923	13	1943	345	0	0	4	0	6.93	17.47	1929	0.30	1918	5.06	1944
APR	76.4	51.0	63.7	54	1942	27	1540	112	0	0	0	0	5.21	18.07	1964	0.50	1915	5.35	1964
MAY	84.3	58.5	71.4	58	1962	35	1560	5	5	0	0	0	3.90	10.33	1915	0.36	1914	4.53	1915
JUN	89.8	65.6	77.7	107	1933	35	1556	0	15	0	0	0	4.25	8.64	1909	0.57	1931	3.64	1928
JUL	90.5	68.3	75.6	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	75.3	106	1925	56	1952	0	18	0	0	0	4.07	11.03	1944	0.01	1925	3.73	1939
SEP	86.5	63.2	74.9	108	1925	36	1567	0	11	0	0	0	4.20	13.13	1965	0.36	1919	7.27	1965
OCT	78.0	52.3	65.2	58	1554	25	1952	58	1	0	0	0	2.51	8.41	1970	0.0	1963	3.55	1906
NOV	66.9	41.3	54.1	50	1935	9	1950	335	0	0	4	0	3.89	17.77	1948	0.23	1924	7.05	1948
DEC	58.5	35.5	47.0	64	1924	-1	1562	558	0	0	10	0	5.51	14.27	1953	0.82	1955	6.22	1953
YEAR	75.5	51.4	63.5	108	1930	-1	1562	2528	68	0	37	0	56.00	82.95	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

## 1960 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 GR ABOVE		32 DF BELOW		DAYS	DFN*	WATER EQUIVALENT (IN.)	DFN*	TOTAL (IN.)	MINS. OF SUNSHINE	LANGLEYS**	
					DAYS	DFN*	DAYS	DFN*							SOLAR RAD.	NET RAD.
JAN	56.3	38.5	47.4	1.4	0	0	6	-5	538	-60	4.70	-0.13	1.26	6765	4194	0M
FEB	54.7	31.0	42.8	-5.7	0	0	15	11	636	167	3.73	-1.59	0.94	12210	7153	0M
MAR	63.3	42.1	52.7	-1.8	0	0	4	0	378	29	13.01	6.08	2.78	9830	9008	0M
APR	71.6	49.9	60.8	-2.9	0	0	0	0	145	37	5.30	0.09	5.21	14162	13564	0M
MAY	79.2	60.9	70.0	-1.4	0	-5	0	0	8	-1	6.66	2.76	5.34	12650	13955	0M
JUN	88.3	67.3	77.8	0.1	13	-2	0	0	0	0	1.53	-2.72	7.92	17924	17274	0M
JUL	93.0	71.5	82.3	2.7	21	3	0	0	0	0	3.30	-2.08	9.49	14142	16568	0M
AUG	93.3	70.0	81.6	2.3	27	5	0	0	0	0	1.39	-2.68	7.72	12940	14594	0M
SEP	89.2	67.5	78.3	3.4	19	8	0	0	6	6	2.75	-1.45	6.17	9529	11658	0M
OCT	72.4	51.2	61.8	-3.4	0	-1	0	0	134	36	4.48	1.97	4.47	4020	10427	0M
NOV	63.9	42.9	53.4	-0.7	0	0	6	2	345	10	2.94	-0.95	3.03	8942	7408	0M
DEC	57.3	33.9	45.6	-1.4	0	0	12	2	554	36	1.83	-3.68	2.11	6477	7022	0M
YEAR	73.5	52.2	62.9	-0.6	80	12	41	10	2788	260	51.62	-4.38	56.44	129591	132825	0

\* DEPARTURE FROM 1941-70 NORMAL.

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



Time of Sunrise at Auburn, Alabama (A.M., CST)  
 Latitude 32° 36' N., Longitude 85° 30' W.

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	6:47	6:40	6:14	5:33	4:58	4:38	4:41	4:59	5:19	5:39	6:02	6:29
2	6:47	6:39	6:12	5:33	4:57	4:38	4:41	5:00	5:20	5:40	6:03	6:29
3	6:47	6:39	6:11	5:31	4:57	4:38	4:42	5:00	5:21	5:40	6:04	6:30
4	6:48	6:38	6:10	5:29	4:56	4:38	4:42	5:01	5:21	5:41	6:05	6:31
5	6:48	6:37	6:09	5:28	4:55	4:37	4:43	5:02	5:22	5:42	6:06	6:32
6	6:48	6:36	6:07	5:27	4:54	4:37	4:43	5:02	5:23	5:42	6:07	6:33
7	6:48	6:36	6:06	5:26	4:53	4:37	4:43	5:03	5:23	5:43	6:08	6:33
8	6:48	6:35	6:05	5:24	4:52	4:37	4:44	5:04	5:24	5:44	6:08	6:34
9	6:48	6:34	6:04	5:23	4:51	4:37	4:44	5:04	5:24	5:45	6:09	6:35
10	6:48	6:33	6:02	5:22	4:51	4:37	4:45	5:05	5:25	5:45	6:10	6:36
11	6:48	6:32	6:01	5:21	4:50	4:37	4:46	5:06	5:26	5:46	6:11	6:36
12	6:48	6:31	6:00	5:19	4:49	4:37	4:46	5:06	5:26	5:47	6:12	6:37
13	6:48	6:31	5:58	5:18	4:48	4:37	4:47	5:07	5:27	5:48	6:13	6:38
14	6:47	6:30	5:57	5:17	4:48	4:37	4:47	5:08	5:28	5:48	6:14	6:38
15	6:47	6:29	5:56	5:16	4:47	4:37	4:48	5:08	5:28	5:49	6:15	6:39
16	6:47	6:28	5:55	5:14	4:46	4:37	4:49	5:09	5:29	5:50	6:15	6:40
17	6:47	6:27	5:53	5:13	4:45	4:37	4:49	5:10	5:30	5:51	6:16	6:40
18	6:46	6:26	5:52	5:12	4:45	4:37	4:50	5:10	5:30	5:51	6:17	6:41
19	6:46	6:25	5:51	5:11	4:44	4:37	4:50	5:11	5:31	5:52	6:18	6:41
20	6:46	6:24	5:49	5:10	4:44	4:37	4:51	5:11	5:32	5:53	6:19	6:42
21	6:45	6:23	5:48	5:09	4:43	4:38	4:52	5:12	5:32	5:54	6:20	6:42
22	6:45	6:22	5:47	5:08	4:42	4:38	4:52	5:13	5:33	5:55	6:21	6:42
23	6:45	6:20	5:45	5:07	4:42	4:38	4:53	5:13	5:34	5:55	6:22	6:43
24	6:44	6:19	5:44	5:06	4:41	4:38	4:54	5:14	5:34	5:56	6:23	6:44
25	6:44	6:18	5:43	5:04	4:41	4:39	4:54	5:15	5:35	5:57	6:23	6:44
26	6:43	6:17	5:41	5:03	4:41	4:39	4:55	5:15	5:36	5:58	6:24	6:45
27	6:43	6:16	5:40	5:02	4:40	4:39	4:56	5:16	5:36	5:58	6:25	6:45
28	6:42	6:15	5:39	5:01	4:40	4:40	4:56	5:17	5:37	5:59	6:26	6:45
29	6:42	6:14	5:37	5:00	4:39	4:40	4:57	5:17	5:38	6:00	6:27	6:46
30	6:41		5:36	4:59	4:39	4:40	4:58	5:18	5:38	6:01	6:28	6:46
31	6:41		5:36		4:39		4:58	5:19		6:02		6:46

Sunrise and sunset are considered to occur when the upper edge of the disk of the sun appears to be exactly on the horizon, with normal atmospheric conditions, and at zero elevation above the earth's surface in a level region. Times of sunrise and sunset shown in the tables are valid for the remainder of the 20th century.

Time of Sunset at Auburn, Alabama (P.M., GST),  
 Latitude 32° 36' N., Longitude 85° 30' W.

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4:50	5:18	5:42	6:05	6:26	6:47	6:57	6:43	6:10	5:30	4:54	4:39
2	4:51	5:19	5:43	6:06	6:27	6:48	6:57	6:42	6:09	5:29	4:54	4:39
3	4:52	5:20	5:44	6:07	6:28	6:49	6:56	6:42	6:08	5:27	4:53	4:39
4	4:53	5:21	5:44	6:07	6:28	6:49	6:56	6:41	6:06	5:26	4:52	4:39
5	4:53	5:21	5:45	6:08	6:29	6:50	6:56	6:40	6:05	5:25	4:51	4:39
6	4:54	5:22	5:46	6:09	6:30	6:50	6:56	6:39	6:04	5:23	4:50	4:39
7	4:55	5:23	5:47	6:09	6:31	6:51	6:56	6:38	6:02	5:22	4:50	4:39
8	4:56	5:24	5:47	6:10	6:31	6:51	6:56	6:37	6:01	5:21	4:49	4:39
9	4:57	5:25	5:48	6:11	6:32	6:52	6:55	6:36	6:00	5:20	4:48	4:39
10	4:58	5:26	5:49	6:12	6:33	6:52	6:55	6:35	5:58	5:18	4:48	4:40
11	4:58	5:27	5:50	6:12	6:33	6:53	6:55	6:34	5:57	5:17	4:47	4:40
12	4:59	5:28	5:51	6:13	6:34	6:53	6:55	6:33	5:56	5:16	4:46	4:40
13	5:00	5:29	5:51	6:14	6:35	6:53	6:54	6:32	5:54	5:15	4:46	4:40
14	5:01	5:29	5:52	6:14	6:36	6:54	6:54	6:31	5:53	5:13	4:45	4:41
15	5:02	5:30	5:53	6:15	6:36	6:54	6:54	6:30	5:52	5:12	4:45	4:41
16	5:03	5:31	5:54	6:16	6:37	6:54	6:53	6:29	5:50	5:11	4:44	4:41
17	5:04	5:32	5:54	6:16	6:38	6:55	6:53	6:28	5:49	5:10	4:43	4:42
18	5:05	5:33	5:55	6:17	6:38	6:55	6:52	6:27	5:48	5:09	4:43	4:42
19	5:06	5:34	5:56	6:18	6:39	6:55	6:52	6:26	5:46	5:08	4:43	4:42
20	5:07	5:34	5:56	6:19	6:40	6:55	6:51	6:25	5:45	5:06	4:42	4:43
21	5:08	5:35	5:57	6:19	6:40	6:55	6:51	6:24	5:44	5:05	4:42	4:43
22	5:09	5:36	5:58	6:20	6:41	6:56	6:50	6:23	5:42	5:04	4:41	4:43
23	5:10	5:37	5:59	6:21	6:42	6:56	6:50	6:21	5:41	5:03	4:41	4:44
24	5:10	5:38	5:59	6:21	6:42	6:56	6:49	6:20	5:40	5:02	4:41	4:45
25	5:11	5:39	6:00	6:22	6:43	6:56	6:48	6:19	5:38	5:01	4:40	4:45
26	5:12	5:39	6:01	6:23	6:43	6:57	6:48	6:18	5:37	5:00	4:40	4:46
27	5:13	5:40	6:02	6:23	6:44	6:57	6:47	6:17	5:35	4:59	4:40	4:47
28	5:14	5:41	6:02	6:24	6:45	6:57	6:46	6:15	5:34	4:58	4:40	4:47
29	5:15	5:42	6:03	6:25	6:45	6:57	6:45	6:14	5:33	4:57	4:39	4:48
30	5:16		6:04	6:26	6:46	6:57	6:45	6:13	5:31	4:56	4:39	4:49
31	5:17		6:04		6:46		6:44	6:12		4:55		4:49

Sunrise and sunset are considered to occur when the upper edge of the disk of the sun appears to be exactly on the horizon, with normal atmospheric conditions, and at zero elevation above the earth's surface in a level region. Times of sunrise and sunset shown in the tables are valid for the remainder of the 20th century.

CLIMATOLOGICAL PUBLICATIONS FOR AUBURN AND THE STATE OF ALABAMA

<u>Agricultural Weather Series No.</u>	<u>Publication Title</u>
1	1964 Local Climatological Data
2	1965 Local Climatological Data
3	1966 Local Climatological Data
4	1967 Local Climatological Data
5	Alabama Growing Degree Days
6	1968 Local Climatological Data
7	1969 Local Climatological Data
8	1970 Local Climatological Data
9	1971 Local Climatological Data
10	1972 Local Climatological Data
11	1973 Local Climatological Data includes monthly and annual average evaporation, 1964-1972
12	1974 Local Climatological Data
13	1975 Local Climatological Data
14	1976 Local Climatological Data includes daily normals of temperature, 1941-70
15	1977 Local Climatological Data includes daily maximum minutes of sunshine at Auburn, AL
16	1978 Local Climatological Data includes daily normals and accumulated normals of precipitation for Auburn, AL
17	Climate of Freeze in Alabama
18	Precipitation Probabilities and Statistics for Alabama
19	1979 Local Climatological Data includes daily normals of soil temperatures at 2, 4, and 8 inches at Auburn, AL
20	1980 Local Climatological Data includes sunrise/sunset tables for Auburn, AL
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 and Hail Day Probabilities in the Southeastern United States
AES Bulletin 517	Climatic Features and Length of Growing Season in Alabama

These publications are available at the Auburn University Library; Research Information, Comer Hall; and the Environmental Studies Service Center in the Nuclear Science Center.





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