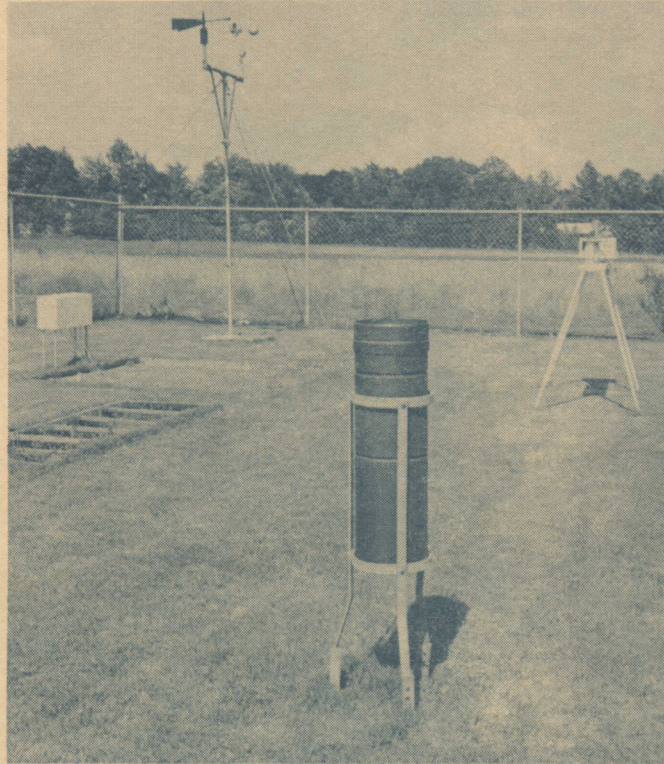


Agricultural Weather Series No. 9

February 1972



**AUBURN UNIVERSITY
1971**

LOCAL CLIMATOLOGICAL DATA

UNITED STATES DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

in cooperation with

AGRICULTURAL EXPERIMENT STATION
AUBURN UNIVERSITY

E. V. SMITH, Director

AUBURN, ALABAMA

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FOREWARD

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Except for the long term averages of temperature, precipitation, and evaporation, 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 during September 1963 with the cooperation of the Auburn University Agricultural Experiment Station and the Agronomy and Soils Department. The current Cooperative Weather Observer is Mr. Jack Jones, foreman of the Agronomy Farm.

Soil temperatures and evaporation readings are for a 24-hour period ending at 8:00 AM for the day indicated. All other readings are for a 24-hour period from midnight to midnight for the indicated date.

Soil elements of the
The ~~sensing elements~~ *of the* soil thermometers are under bare soil while all other instruments are exposed over sod.

Evaporation is measured in the National Weather Service Class "A" pan of 4 foot diameter.

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

- Temperature in °F
- Relative humidity as a percentage
- Wind speed in miles per day
- Solar radiation in langley (gram calorie/sq. cm.)
- Precipitation and evaporation in inches

Cooling degree days are used in computing air conditioning requirements. The "base" for such computations is the mean daily temperature of 75F. These data are obtained by subtracting 75F from the mean daily temperatures, if the latter is above 75F. A day with a mean temperature of 76F is one degree day. If the daily mean temperature continues above 75F for any length of time, air conditioning or cooling will be required for human comfort.

Heating degree days are used in computing fuel requirements. The "base" for computing heating degree days is a mean temperature of 65F. A mean daily temperature of 64F is one degree day. If the daily mean temperature continues below 65F for any length of time, heating will be necessary for human comfort.

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 this publication are valid for the remainder of the 20th century.

Growing degree days were computed daily by averaging the maximum and minimum temperatures and then subtracting the "base" temperatures of 40, 45, and 50F.

PAUL A. MOTT, JERRY M. DAVIS, and
Clarence M. SAKAMOTO
AGRICULTURAL METEOROLOGISTS
NOAA - NATIONAL Weather Service
Auburn University, Auburn, Alabama

Paul A. Mott
Advisory Agricultural Meteorologist
NOAA - National Weather Service
Auburn University, Auburn, Alabama

Table 1. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for January 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	53	29	41	0	279	.03	92.3
2	59	32	46	0	279	.05	73.4
3	59	38	49	0	111	.09	102.7
4	65	53	59	1.05	25	.01	69.2
5	51	38	45	.18	218	-	90.1
6	40	32	36	0	123	.11	99.7
7	50	28	39	0	261	-	87.0
8	41	28	35	.68	33	-	91.1
9	45	34	40	0	105	.02	70.4
10	49	36	43	0	91	.03	31.1
11	55	41	48	.13	43	.04	31.3
12	62	46	54	0	113	-	13.4
13	64	43	54	0	135	.07	11.8
14	72	47	60	.16	107	.02	47.0
15	63	56	60	.31	156	.04	76.3
16	50	29	40	0	251	.22	105.2
17	58	30	44	0	276	.06	38.5
18	50	43	47	0	112	.09	35.5
19	34	24	29	0	324	-	101.6
20	45	16	31	0	332	-	118.4
21	57	22	40	0	271	-	34.0
22	65	49	57	0	89	-	61.2
23	61	51	56	.63	55	.10	122.1
24	70	55	63	.35	117	.01	43.6
25	68	53	61	.06	132	.06	28.5
26	62	35	49	.04	323	.05	58.4
27	39	24	32	0	350	-	126.5
28	52	23	38	0	330	-	79.5
29	64	29	47	0	301	.18	54.1
30	68	53	61	0	87	.11	96.0
31	61	26	44	.10	198	.03	108.1
Total	1732	1143	1148	3.69	5627	*1.75	2198.0
Avg.	55.9	36.9	46.7				70.9

* Evap. adjusted for full month

- Missing data

Table 2. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for February 1971

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	42	21	32	0	351	-	96.7
2	45	24	35	0	203	-	99.6
3	46	37	42	.05	120	-	80.1
4	60	36	48	0	91	.05	98.3
5	61	39	50	.96	356	.15	87.6
6	66	37	52	0	356	.16	58.0
7	60	44	52	2.00	164	-	54.0
8	46	23	35	.20	65	.03	56.5
9	33	16	25	0	387	-	135.5
10	42	15	29	0	394	-	23.67
11	55	22	39	0	386	-	26.9
12	58	32	45	.45	108	.16	43.8
13	33	20	27	#T	120	.09	142.0
14	47	17	32	0	418	-	136.6
15	64	30	47	0	382	-	30.7
16	70	38	54	0	372	.15	47.8
17	72	46	59	0	328	.08	17.2
18	73	42	58	0	366	.11	22.7
19	75	45	60	0	327	.17	46.6
20	69	59	64	.83	150	-	111.9
21	70	61	66	.27	109	.06	43.6
22	65	54	60	.73	244	.18	108.8
23	57	35	46	0	427	.18	97.9
24	64	34	49	0	387	.16	79.8
25	70	37	54	0	383	.12	34.0
26	73	50	62	1.50	75	.16	56.4
27	69	57	63	0	420	-	83.3
28	58	48	53	.46	111	-	65.5
Total	1643	1019	1338	7.45	7600	*2.39	1988.47
Avg.	58.7	36.4	47.8				71.0

Sleet and snow mixed with rain

* Evap. adjusted for full month

- Missing data

Table 3. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for March, 1971

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	67	51	59	2.65	130	-	65.5
2	68	59	64	2.02	67	0	55.0
3	64	30	47	#1.29	27	-	90.4
4	47	24	36	0	478	-	162.7
5	58	26	42	0	489	-	50.5
6	65	37	51	.52	122	.16	63.3
7	50	34	42	0	472	.18	144.0
8	52	30	41	0	486	.17	87.1
9	61	31	46	0	476	.18	81.4
10	63	40	52	.07	398	.06	64.4
11	67	33	50	0	494	.10	75.6
12	69	42	56	.04	292	.08	38.8
13	58	48	53	.40	83	.09	40.5
14	69	47	58	.02	194	.05	40.0
15	74	57	66	.05	354	.01	86.3
16	70	42	56	0	495	.13	58.7
17	59	39	49	0	519	.30	103.6
18	66	37	52	0	503	.24	91.5
19	58	38	48	1.25	504	.29	90.7
20	52	34	43	0	584	.27	115.6
21	64	28	46	0	461	.22	92.4
22	68	47	58	.22	360	.10	30.4
23	59	43	51	0	434	.12	58.8
24	59	34	47	0	518	.24	96.8
25	45	34	40	2.27	29	.20	76.8
26	43	35	39	0	120	-	111.6
27	65	34	50	0	541	.10	75.1
28	71	39	55	0	475	.13	26.8
29	66	56	61	.47	391	.18	96.7
30	61	38	50	0	570	.13	86.2
31	69	39	54	0	544	.27	85.2
Total	1907	1206	1562	11.27	11610	*4.12	2442.4
Avg.	61.5	38.9	50.4				78.8

Sleet and snow mixed with rain

* Evap. adjusted for full month

- Missing data

Table 4. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for April, 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	72	40	56	0	461	.22	65.1
2	59	38	49	.69	319	.16	132.6
3	68	33	51	0	566	.18	64.5
4	71	38	55	0	536	.21	37.0
5	63	49	56	.36	141	.20	46.7
6	53	40	47	.02	369	.10	64.1
7	62	34	48	T	565	.16	106.6
8	72	37	55	0	600	.19	69.6
9	74	38	56	0	597	.20	37.3
10	79	45	62	0	582	.32	62.2
11	82	49	66	0	590	.28	67.0
12	81	50	66	0	566	.21	89.9
13	79	49	64	0	542	.30	52.3
14	73	50	62	0	590	.32	88.1
15	76	45	61	0	606	.32	65.9
16	81	47	64	0	561	.24	36.0
17	85	49	67	0	547	.23	33.4
18	84	54	69	0	415	.26	33.9
19	86	49	68	0	519	.23	31.9
20	85	57	71	0	557	.24	34.6
21	78	63	71	0	274	.30	62.8
22	81	57	69	0	383	.14	71.4
23	76	59	68	1.26	112	.04	15.2
24	72	51	62	0	611	-	60.8
25	79	51	65	0	574	-	121.6
26	83	52	68	0	548	.23	28.1
27	79	58	69	0	197	.23	26.5
28	85	64	75	0	420	.09	91.1
29	75	56	66	.95	187	.29	64.9
30	64	55	60	.65	94	.19	59.2
Total	2257	1457	1866	3.93	13629	* 6.24	1820.3
Avg.	75.2	48.6	62.2				60.7

* Evap. adjusted for full month

- Missing data

Table 5. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for May, 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	74	50	62	0	624	.04	61.8
2	76	47	62	.10	528	.27	51.2
3	64	43	57	0	646	.12	67.2
4	70	40	55	0	636	.28	72.7
5	80	47	64	0	635	.24	40.3
6	85	52	69	0	585	.27	113.5
7	86	62	74	0	481	.28	72.0
8	79	63	71	.96	285	.15	98.6
9	78	60	69	0	537	0	69.3
10	75	61	68	.32	358	.03	32.4
11	81	61	71	.09	406	.23	48.4
12	77	61	69	.95	220	.12	39.3
13	65	52	59	.08	130	-	128.3
14	74	45	60	0	495	.07	84.3
15	68	58	63	0	108	.16	30.1
16	78	57	68	.72	419	0	39.8
17	83	57	70	0	626	.17	21.8
18	84	57	71	0	616	.27	24.3
19	85	59	72	0	676	.31	37.2
20	82	61	72	0	318	.25	34.1
21	81	60	71	0	647	.14	50.8
22	83	55	69	0	606	.20	91.0
23	84	61	73	0	561	-	51.0
24	83	63	73	0	491	.25	48.1
25	78	64	71	0	287	.25	85.7
26	86	61	74	0	657	.06	43.5
27	88	58	73	.36	524	.35	33.0
28	82	64	73	0	530	.31	45.2
29	73	51	62	0	525	.29	111.4
30	79	52	66	0	649	.31	62.2
31	85	56	71	0	643	.32	62.1
Total	2446	1738	2102	3.58	15449	*6.02	1850.6
Avg.	78.9	56.1	67.8				59.7

*Evap. adjusted for full month

-Missing data

Table 6. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for June, 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	87	60	74	0	572	.32	37.5
2	90	63	77	0	533	.31	35.4
3	88	67	78	.30	560	.03	37.3
4	90	68	79	0	497	.28	47.3
5	91	69	80	0	472	.29	32.3
6	91	69	80	.44	411	.20	25.1
7	85	65	75	.42	338	.31	39.5
8	82	65	74	0	337	.23	32.7
9	88	65	77	0	521	.11	25.2
10	88	65	77	0	586	.27	39.1
11	87	66	77	0	450	.26	47.8
12	90	67	79	0	552	.21	33.3
13	93	70	82	0	571	.26	23.5
14	94	69	82	.03	609	.28	50.0
15	95	70	83	0	504	.35	43.1
16	90	68	79	.30	344	.31	43.9
17	85	68	77	.03	340	.16	37.6
18	86	66	76	0	440	.13	35.3
19	90	66	78	0	451	.19	29.9
20	89	67	78	.05	510	.30	37.9
21	90	69	80	.33	492	.23	62.1
22	86	69	78	0	424	.20	49.4
23	87	63	75	.02	562	-	41.4
24	91	67	79	0	515	.25	28.3
25	90	70	80	.07	396	.20	30.3
26	95	68	82	0	560	.17	27.6
27	90	70	80	0	591	.26	47.4
28	91	70	81	0	486	.20	32.3
29	89	69	79		413	.22	28.2
30	89	68	79		315	.18	27.1
Total	2677	2016	2355	1.99	14352	*6.89	1107.8
Avg.	89.2	67.2	78.5				36.9

*Evap. adjusted for full month

-Missing data

Table 7. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for July 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	90	69	80	0	505	.15	31.9
2	90	69	80	.48	406	.27	40.9
3	84	69	77	.04	410	.23	42.7
4	79	69	74	.03	427	.06	72.2
5	83	68	76	0	431	.09	64.7
6	86	68	77	.78	390	.08	56.3
7	90	68	79	0	655	.21	44.8
8	87	70	79	.42	393	.28	27.8
9	90	69	80	0	609	.27	40.2
10	90	69	80	0	601	.26	20.5
11	89	71	80	1.34	273	.32	33.2
12	88	70	79	1.00	383	.26	28.3
13	88	68	78	0	541	-	31.3
14	91	69	80	.65	443	.21	24.3
15	90	68	79	0	405	.28	36.8
16	77	66	72	.79	173	.35	51.5
17	84	64	74	0	340	.08	34.6
18	89	67	78	0	611	.11	23.9
19	90	71	81	0	540	.29	33.3
20	80	70	75	.50	232	.18	41.8
21	85	68	77	0	592	.22	39.4
22	86	65	76	0	606	.29	41.1
23	86	68	77	0	481	.27	28.7
24	85	67	76	.05	263	.20	24.3
25	87	70	79	.22	371	.08	26.0
26	87	70	79	.98	412	.15	32.0
27	86	69	78	1.79	346	-	45.7
28	87	69	78	.02	400	-	28.1
29	84	68	76	1.00	367	.16	33.8
30	82	69	76	.28	199	.27	37.9
31	77	69	73	.64	157	.14	44.6
Total	2667	2124	2403	11.01	12962	*6.21	1162.6
Avg.	86.0	68.5	77.5				37.5

*Evap. adjusted for full month

-Missing Data

Table 8. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for August, 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max	Min	Mean				
1	81	68	75	.03	269	.07	32.9
2	85	67	76	0	460	.12	40.1
3	87	68	78	.11	486	.20	33.8
4	90	69	80	0	504	.10	25.1
5	89	70	80	0	462	.25	28.9
6	83	69	76	0	451	.25	32.4
7	90	71	81	0	490	.17	31.4
8	91	72	82	0	545	.29	32.0
9	91	72	82	0	536	.20	23.3
10	89	71	80	0	505	.27	26.8
11	88	70	79	.16	279	.15	32.8
12	88	66	77	0	529	.06	33.4
13	84	69	77	0	445	.22	48.0
14	86	66	76	0	499	.27	46.9
15	87	65	76	0	546	.24	53.5
16	80	70	75	0	245	.26	69.5
17	85	67	76	0	415	.14	92.4
18	85	68	77	0	347	.18	49.0
19	90	70	80	0	476	.14	24.8
20	92	68	80	0	558	.21	25.6
21	90	69	80	.28	365	.21	28.1
22	87	68	78	.14	416	.21	30.1
23	87	70	79	.10	396	.27	42.7
24	89	69	79	0	459	.08	27.8
25	85	69	77	0	349	.23	46.1
26	83	69	76	0	450	.13	39.2
27	90	68	79	.33	570	.19	40.6
28	87	66	77	0	635	.26	49.8
29	86	67	77	0	198	.29	64.3
30	84	69	77	0	340	.13	50.5
31	87	70	79	.30	298	.15	43.5
Total	2696	2130	2421	1.45	13523	5.94	1245.3
Avg.	86.9	68.7	78.1				40.2

Table 9. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for September, 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	85	71	78	.22	372	.13	42.5
2	85	71	78	.03	396	.16	46.4
3	84	71	78	T	297	.20	61.2
4	85	71	78	.06	311	.17	67.4
5	87	72	80	0	335	.10	56.7
6	86	71	79	0	419	.31	52.6
7	87	70	79	0	509	.09	41.4
8	85	67	76	0	508	.25	51.7
9	87	68	78	0	441	.25	67.0
10	90	66	78	0	488	.25	44.3
11	91	68	80	.17	368	.23	30.1
12	87	64	76	0	529	.19	26.7
13	81	60	71	0	508	.30	52.9
14	90	57	74	0	543	.26	45.7
15	88	63	76	0	381	.25	32.3
16	79	66	73	.53	118	.17	25.1
17	82	69	76	2.22	260	-	56.3
18	78	65	72	0	221	.22	47.9
19	85	63	74	0	392	.17	24.8
20	87	64	76	0	421	.06	17.5
21	86	68	77	0	440	.19	40.6
22	87	68	78	0	472	.22	62.0
23	83	68	76	0	344	.21	66.6
24	83	65	74	0	388	.17	46.5
25	87	66	76	0	468	.14	42.2
26	80	68	74	0	293	.22	49.1
27	87	68	78	.01	421	.08	27.9
28	85	66	76	0	456	.16	20.2
29	84	64	74	0	405	.20	37.3
30	88	64	76	0	400	.16	42.8
Total	2559	2002	2289	3.24	11904	*5.51	1325.7
Avg.	85.3	66.7	76.3				44.2

* Evaporation adjusted for full month
 - Missing Data

Table 10. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for October, 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	89	64	77	0	409	.23	21.6
2	89	64	77	0	357	.15	26.5
3	88	66	77	0	379	.17	23.4
4	88	64	76	0	452	.19	21.1
5	89	65	77	.56	377	.18	17.1
6	82	66	74	0	426	.24	34.7
7	76	58	67	0	388	.18	32.3
8	77	49	63	0	440	.24	57.5
9	80	60	70	T	273	.19	28.7
10	65	57	61	0	487	.13	53.2
11	75	45	60	0	464	.26	56.3
12	81	46	64	0	407	.16	24.1
13	79	50	65	0	377	.14	13.4
14	81	57	69	0	319	.12	33.0
15	84	68	76	0	353	.19	45.4
16	86	63	75	0	407	.12	22.5
17	71	63	67	.09	101	.10	37.0
18	75	61	68	0	343	.02	41.9
19	75	55	65	0	350	.14	72.4
20	75	55	65	.10	134	.15	68.1
21	74	62	68	.23	198	0	81.9
22	71	62	67	0	115	0	69.1
23	75	65	70	0	170	.06	34.1
24	75	57	66	.25	323	.13	19.3
25	76	60	68	0	313	.06	35.3
26	78	55	67	0	361	.14	43.1
27	81	55	68	0	265	.11	34.6
28	80	57	69	0	263	.13	20.4
29	70	58	64	0	103	.17	58.6
30	74	59	67	.01	94	.06	74.7
31	76	66	71	.01	96	.03	45.1
Total	2435	1832	2138	1.25	9544	4.19	1246.4
Avg.	78.5	59.1	69.0				40.2

Table 11. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for November 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	80	74	77	.01	144	.04	42.3
2	82	67	75	.03	144	.05	28.2
3	71	46	59	.07	342	.11	32.0
4	63	41	52	0	358	.24	90.4
5	67	42	55	0	353	.20	72.7
6	76	50	63	0	261	.14	71.1
7	62	33	48	0	320	.19	73.3
8	59	31	40	0	346	.17	89.5
9	49	37	38	0	89	.14	62.2
10	62	35	49	0	345	.02	40.3
11	70	32	51	0	342	.10	39.5
12	73	38	56	0	332	.14	34.6
13	75	40	58	0	288	.14	30.9
14	75	47	61	0	240	.09	30.2
15	72	47	60	0	290	.12	42.9
16	76	47	62	0	303	.11	50.8
17	78	47	63	0	293	.10	21.9
18	75	56	66	0	213	.13	53.0
19	74	50	62	0	139	.21	50.0
20	60	41	51	0	307	.13	78.0
21	62	39	51	0	311	.11	56.0
22	52	29	41	0	315	.23	83.8
23	47	36	42	.08	92	.21	84.1
24	42	34	38	.39	64	.13	89.4
25	57	34	46	0	309	.10	76.7
26	56	36	46	0	226	0	55.4
27	63	40	52	.04	286	.08	65.1
28	58	36	47	1.18	191	.15	75.0
29	63	49	56	.04	278	-	63.6
30	58	38	48	.02	290	.08	71.8
Total	1957	1272	1613	1.86	7811	3.71	1754.7
	65.2	42.4	53.8				58.5

- Missing Data

* Evap. adjusted for full month

Table 12. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for December 1971.

Date	Air Temperature			Precip.	Solar radiation	Evaporation	Wind m/d 2.5 ft.
	Max.	Min.	Mean				
1	46	38	42	0	75	.14	87.5
2	45	37	41	1.32	52	.01	78.2
3	39	35	37	1.08	62	-	139.5
4	41	33	22	.02	55	.14	112.3
5	49	38	44	.10	59	.19	68.9
6	67	51	59	.12	83	-	85.3
7	71	46	59	.62	268	.10	94.2
8	63	46	55	0	210	.10	58.0
9	63	46	55	0	120	.03	36.8
10	73	61	67	.12	62	.03	79.5
11	76	56	66	0	245	.05	73.1
12	80	60	70	.05	160	.09	45.4
13	69	57	62	0	103	.09	44.0
14	75	57	66	0	188	.06	25.4
15	76	63	68	0	71	.08	94.5
16	81	66	74	0	159	.07	101.4
17	66	44	55	.38	33	.10	88.0
18	54	35	45	0	296	.13	99.9
19	62	33	48	0	237	.11	54.2
20	66	52	59	.95	37	.17	72.1
21	75	54	65	0	261	-	44.3
22	63	44	54	0	258	.18	68.1
23	56	39	48	0	224	.15	106.4
24	69	37	53	0	257	.05	85.2
25	69	44	57	0	256	.04	14.8
26	67	47	57	0	226	.06	18.3
27	73	48	61	0	209	.08	26.1
28	70	58	64	0	88	.05	27.6
29	73	58	66	0	95	.04	18.4
30	73	57	65	0	169	.03	34.3
31	68	55	62	.14	221	.06	62.5
Total	2018	1495	1746	4.90	4839	*2.57	2044.2
Avg.	65.1	48.2	56.3				65.9

* Evap. adjusted for full month

- Missing data

Table 13. Annual and Monthly Averages for Temperatures
and Precipitation from 1855 - 1952.

Date	Temperature			Precipitation	Evaporation
	Avg. Daily Max.	Avg. Daily Min.	Average (°F)	Average (Inches)	Average (Inches)
January	59.0	38.9	49.0	4.80	1.83
February	61.6	40.5	51.5	5.25	2.41
March	67.8	45.7	56.8	6.13	4.34
April	75.4	52.8	64.1	4.37	5.94
May	83.3	60.4	71.9	3.55	7.37
June	89.5	67.7	78.6	4.06	7.54
July	90.0	69.9	80.0	5.34	7.05
August	89.7	69.4	79.6	4.71	6.35
September	86.7	65.4	76.1	3.20	5.60
October	77.9	54.7	66.3	2.58	4.38
November	66.7	44.3	55.5	3.48	3.02
December	58.9	39.3	49.1	5.13	2.30
Year	75.5	54.1	64.8	52.60	58.13

Evaporation based on data from 1947 through 1950 and 1964 through 1971.

Table 14. Six Hourly Temperature and Relative Humidity, January 1971

Date	Midnight		6:00AM		Noon		6:00PM		Average	
	Temp.	R.H.	Temp	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	37	72	30	96	51	38	39	64	39.3	67.5
2	33	100	34	97	57	34	39	76	40.8	76.8
3	41	73	43	67	52	79	54	90	47.5	52.3
4	55	92	56	100	61	100	61	100	58.3	98.0
5	49	100	39	100	51	56	41	58	45.0	78.5
6	33	66	32	67	39	55	35	59	34.8	61.8
7	29	69	28	64	48	39	41	32	36.5	51.0
8	37	59	38	96	40	100	38	100	38.3	88.8
9	35	100	35	100	42	92	38	97	37.5	97.3
10	38	100	38	100	47	92	45	100	42.0	98.0
11	43	100	45	100	51	100	53	100	48.0	100.0
12	54	100	54	100	60	82	51	100	54.8	95.5
13	46	100	44	100	60	100	60	93	52.5	98.3
14	57	100	57	100	67	92	65	100	61.5	98.0
15	65	100	61	100	54	80	48	36	57.0	79.0
16	36	58	30	75	47	33	42	42	38.8	52.0
17	34	80	34	74	55	47	50	53	43.3	63.5
18	44	82	44	76	46	75	41	73	43.8	76.5
19	35	71	25	71	33	46	26	36	29.8	56.0
20	21	54	17	74	39	40	35	32	28.0	50.0
21	24	72	23	81	50	47	49	62	36.5	65.5
22	48	87	49	95	62	94	62	88	55.3	91.0
23	60	100	53	100	53	100	53	100	54.8	100.0
24	56	100	58	100	69	82	58	100	60.3	95.5
25	57	100	56	100	62	100	65	93	60.0	98.3
26	59	100	51	92	60	35	52	32	55.5	64.8
27	36	34	30	41	37	32	31	30	33.5	34.3
28	26	46	24	69	48	35	44	41	35.5	47.8
29	35	70	32	100	62	40	58	58	46.8	67.0
30	54	96	56	100	65	86	64	72	59.8	88.5
31	61	100	45	100	49	48	37	66	48.0	78.5
Avg.	43.2	83.3	40.7	88.2	52.2	67.1	47.6	70.4		

Table 15. Six Hourly Temperature and Relative Humidity, February 1971

Date	Midnight		6:00 AM		Noon		6:00 PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	26	100	22	100	39	53	35	69	30.5	80.5
2	27	100	24	97	38	54	42	23	32.8	68.5
3	40	28	38	47	44	52	38	74	40.0	50.3
4	37	95	37	100	45	100	50	90	42.3	96.3
5	58	90	47	89	58	45	48	50	52.8	68.5
6	39	90	38	69	62	31	48	51	46.8	60.3
7	46	61	48	100	60	78	50	100	51.0	84.8
8	48	100	47	100	32	79	30	65	39.3	86.0
9	24	59	17	65	30	35	27	30	24.5	47.3
10	19	45	15	65	37	25	33	31	26.0	41.5
11	24	78	23	78	50	25	41	38	34.5	54.8
12	35	58	39	100	54	68	44	100	43.0	81.5
13	32	89	29	70	31	68	29	60	30.3	71.8
14	21	72	23	79	45	30	38	64	31.8	61.3
15	31	72	39	26	58	31	54	40	45.5	42.3
16	42	100	38	100	67	40	56	47	50.8	71.8
17	50	85	47	100	69	40	58	56	56.0	70.3
18	47	94	43	100	71	36	62	40	55.8	67.5
19	47	94	50	89	71	42	65	52	58.3	69.3
20	61	85	59	100	67	84	61	100	62.0	92.3
21	61	100	62	100	69	74	67	84	64.8	89.5
22	64	99	56	100	60	61	56	37	59.0	74.3
23	44	47	36	64	52	43	50	46	45.5	50.0
24	41	77	34	96	61	30	53	36	47.3	59.8
25	41	92	39	91	66	29	57	39	50.8	62.8
26	52	62	57	100	71	80	61	100	60.3	85.5
27	60	100	59	100	68	32	58	30	61.3	65.5
28	48	41	51	44	58	44	55	52	53.0	45.3
Avg.	41.6	79.4	39.9	84.6	54.7	50.3	48.8	57.3		

Table 16. Six Hourly Temperature and Relative Humidity, March 1971

Date	Midnight		6:00 AM		Noon		6:00 PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	51	100	54	100	64	97	63	100	58.0	99.3
2	62	100	66	100	67	100	61	100	64.0	100.0
3	64	100	61	100	41	100	36	76	50.5	94.0
4	31	57	26	65	43	42	41	29	35.3	48.3
5	31	86	29	91	55	25	51	23	41.5	56.3
6	40	83	45	86	56	73	58	98	49.8	85.0
7	44	70	37	64	37	48	42	29	40.0	52.0
8	33	57	33	66	48	29	44	26	39.5	44.5
9	35	57	33	50	58	25	50	35	44.0	41.8
10	48	43	44	92	60	70	54	50	51.5	63.8
11	42	92	36	100	65	26	57	30	50.0	62.0
12	50	58	47	100	66	42	59	77	55.5	69.3
13	55	100	55	100	57	100	57	100	56.0	100.0
14	50	100	55	100	65	100	66	100	59.0	100.0
15	68	100	70	100	68	45	61	28	66.8	68.3
16	45	64	42	70	67	23	60	24	53.5	45.3
17	47	34	40	70	57	29	48	30	48.0	40.8
18	40	50	41	51	62	26	58	26	50.3	38.3
19	46	100	40	61	56	34	46	35	47.0	57.5
20	38	53	40	61	48	30	39	36	41.3	45.0
21	31	72	42	59	59	23	51	47	45.8	50.3
22	50	50	49	89	62	78	59	91	55.0	77.0
23	54	100	45	92	57	30	51	32	51.8	63.5
24	43	34	34	43	53	25	47	29	44.3	32.8
25	43	35	43	40	41	98	35	100	40.5	68.3
26	35	100	36	100	43	78	41	77	38.8	88.8
27	40	76	39	81	59	40	50	57	47.0	63.5
28	45	80	49	100	68	50	64	57	56.5	71.8
29	58	93	57	100	59	75	57	34	57.8	75.5
30	44	40	37	52	57	26	52	21	47.5	34.8
31	42	47	42	54	64	23	59	25	51.8	37.3
Avg.	45.3	72.0	44.1	78.6	56.9	51.9	52.2	52.3		

Table 17. Six Hourly Temperature and Relative Humidity, April 1971

Date	Midnight		6:00 AM		Noon		6:00 PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	44	47	46	71	68	38	64	46	55.5	50.5
2	58	83	45	100	53	42	46	45	50.5	67.5
3	38	58	43	90	63	22	54	30	49.5	50.0
4	41	83	51	63	68	22	58	27	54.5	48.8
5	49	62	54	79	52	65	54	100	52.3	76.5
6	51	100	40	94	48	52	42	39	45.3	71.3
7	34	78	36	93	55	37	53	21	44.5	57.3
8	40	59	40	72	68	23	61	26	52.3	45.0
9	44	70	45	100	70	24	64	26	55.8	55.0
10	48	66	51	91	75	29	65	21	59.8	51.8
11	55	33	52	42	79	22	67	30	63.3	31.8
12	52	71	56	79	79	29	74	35	65.3	53.5
13	60	59	52	82	76	38	72	35	65.0	53.5
14	65	53	55	78	70	27	64	22	63.5	45.0
15	50	48	50	60	75	23	64	23	59.8	38.5
16	50	59	58	58	79	24	67	34	63.5	43.8
17	53	85	62	87	84	26	70	36	67.3	58.5
18	59	84	68	65	82	23	70	38	69.8	52.5
19	56	72	63	92	83	27	77	31	69.8	55.5
20	63	61	57	91	81	35	77	33	69.5	55.0
21	65	76	63	100	68	71	72	63	67.0	77.5
22	65	100	63	100	79	19	69	38	69.0	64.3
23	60	99	64	100	74	77	64	100	65.5	94.0
24	59	100	54	94	69	37	65	29	61.8	65.0
25	51	84	58	67	76	30	71	37	64.0	54.5
26	56	100	53	100	80	25	74	36	65.8	65.3
27	58	100	62	100	74	88	74	87	67.0	93.8
28	69	100	70	100	82	43	75	29	74.0	68.0
29	64	43	63	46	64	48	57	100	62.0	59.3
30	57	100	57	100	62	98	57	100	58.3	99.5
Avg.	53.8	74.4	54.4	83.1	71.2	38.8	64.7	43.9		

Table 18. Six Hourly Temperature and Relative Humidity, May 1971

Date	Midnight		6:00 AM		Noon		6:00 PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	54	100	56	68	71	31	64	34	61.3	58.3
2	50	95	58	78	74	38	63	90	61.3	75.3
3	50	68	47	72	61	37	58	33	54.0	52.5
4	43	95	45	99	67	27	65	27	55.0	62.0
5	48	95	52	100	74	38	74	46	62.0	69.8
6	61	88	57	100	81	38	79	40	69.5	66.5
7	65	96	65	100	82	48	79	41	72.8	71.3
8	68	92	65	100	78	74	68	100	69.8	91.5
9	65	100	66	82	77	43	72	55	70.0	70.0
10	65	97	63	100	71	76	71	75	67.5	87.0
11	66	83	62	100	79	62	77	76	71.0	80.3
12	68	97	66	100	77	65	66	100	69.3	90.5
13	65	97	55	98	53	93	55	95	57.0	95.8
14	52	100	51	100	73	46	65	94	60.3	85.0
15	61	100	61	100	64	100	65	100	62.8	100.0
16	59	100	61	100	75	62	77	45	68.0	76.8
17	60	100	61	100	82	36	78	41	70.3	69.3
18	62	100	61	100	82	37	79	44	71.0	70.3
19	67	86	65	100	83	39	77	58	73.0	70.8
20	66	100	69	100	82	48	69	95	71.5	85.8
21	64	100	64	62	79	26	75	26	70.5	53.5
22	60	55	64	52	81	32	76	40	70.3	44.8
23	65	57	69	58	83	40	76	51	73.3	51.5
24	66	91	69	82	80	53	78	59	73.3	71.3
25	68	77	66	100	75	68	76	73	71.3	79.5
26	67	100	67	70	80	25	81	28	73.8	55.8
27	62	87	67	92	85	30	66	100	70.3	77.3
28	65	100	66	100	79	50	73	55	70.8	76.3
29	57	77	57	83	71	43	66	39	62.8	60.5
30	57	71	61	72	76	40	75	43	67.3	56.5
31	62	93	67	79	83	36	81	38	73.3	61.5
Avg.	60.9	90.2	61.4	88.6	76.4	47.8	71.7	59.4		

Table 19. Six Hourly Temperature and Relative Humidity, June 1971

Date	Midnight		6:00 AM		Noon		6:00 PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	64	90	65	91	84	31	83	37	74.0	62.3
2	65	92	66	100	89	39	82	52	75.5	70.8
3	72	91	69	100	86	60	79	60	76.5	77.8
4	71	91	73	89	90	42	79	54	78.3	69.0
5	70	100	75	96	91	42	85	57	80.3	73.8
6	73	99	76	91	91	47	70	100	77.5	84.3
7	69	100	70	100	84	56	72	96	73.8	88.0
8	69	100	67	100	81	63	80	64	74.3	81.8
9	70	100	69	100	86	54	73	76	74.5	82.5
10	68	100	68	100	88	46	80	60	76.0	76.5
11	69	100	71	98	84	57	80	63	76.0	79.5
12	71	96	75	85	89	44	82	53	79.3	69.5
13	72	92	78	83	92	48	79	65	80.3	72.0
14	71	100	78	100	90	42	89	38	82.0	70.0
15	74	80	74	94	92	37	79	55	79.8	66.5
16	69	95	71	98	83	51	71	91	73.5	83.8
17	68	98	71	94	81	68	75	87	73.8	86.8
18	68	98	68	98	85	61	80	61	75.3	79.5
19	68	97	73	96	86	43	74	56	75.3	73.0
20	69	98	71	93	86	42	74	77	75.0	77.5
21	69	100	73	99	89	52	85	48	79.0	74.8
22	73	90	70	98	75	79	78	86	74.0	88.3
23	69	100	67	100	83	43	84	34	75.8	69.3
24	69	73	70	94	88	47	84	56	77.8	67.5
25	73	87	75	97	78	72	79	80	76.3	84.0
26	70	100	73	99	92	44	91	39	81.5	70.5
27	73	64	71	88	87	51	79	76	77.5	69.8
28	71	100	72	100	87	51	80	59	77.5	77.5
29	70	99	69	100	82	59	74	93	73.8	87.8
30	69	100	70	100	86	52	76	81	75.3	83.3
Avg.	69.9	94.3	71.3	96.0	86.2	50.8	79.2	65.1		

Table 20. Six Hourly Temperature and Relative Humidity, July 1971

Date	Midnight		6:00 AM		Noon		6:00 PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	70	98	69	99	85	55	77	75	75.3	81.8
2	71	99	71	100	89	52	71	100	75.5	87.8
3	69	100	71	97	81	82	77	86	74.5	91.3
4	72	93	70	100	75	81	74	64	72.8	84.5
5	69	100	71	100	82	70	77	86	74.8	89.0
6	70	100	72	100	81	77	72	100	73.8	94.3
7	68	100	71	100	86	54	87	48	78.0	75.5
8	72	100	74	100	86	64	74	99	76.5	90.8
9	70	100	69	100	88	54	84	55	77.8	77.3
10	72	100	77	97	89	51	86	58	81.0	76.5
11	75	100	76	100	86	64	72	100	77.3	91.0
12	71	100	75	100	87	61	71	100	76.0	90.3
13	70	100	69	100	85	64	84	67	77.0	82.8
14	72	100	73	100	90	61	71	100	76.5	90.3
15	69	100	72	100	89	64	76	91	76.5	88.8
16	71	100	67	100	72	99	70	100	70.0	99.8
17	67	100	73	87	80	72	78	86	74.5	86.3
18	70	100	74	100	88	59	83	61	78.8	80.0
19	74	100	77	100	87	62	83	61	80.3	80.8
20	72	98	71	100	71	100	74	92	72.0	97.5
21	71	98	70	98	82	48	78	52	75.3	74.0
22	68	85	68	83	83	55	79	54	74.5	69.3
23	71	98	69	100	82	60	78	70	75.0	82.0
24	68	100	74	98	84	59	74	100	75.0	89.3
25	71	100	75	100	85	64	72	100	75.8	91.0
26	70	100	73	100	84	65	72	97	74.8	90.5
27	70	98	71	98	77	97	71	100	72.3	98.3
28	70	100	70	100	82	73	73	98	73.8	92.8
29	70	99	70	99	76	80	70	100	71.5	94.5
30	69	100	70	100	80	78	70	100	72.3	94.5
31	71	100	71	100	73	100	72	100	71.8	100.0
Avg.	70.4	98.9	71.7	98.6	82.7	68.5	75.8	83.9		

Table 21. Six Hourly Temperature and Relative Humidity, August 1971

Date	Midnight		6:00 AM		Noon		6:00 PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	69	100	70	100	80	80	71	100	72.5	95.0
2	69	100	72	100	80	70	80	66	75.3	84.0
3	68	98	69	99	84	60	79	85	75.0	85.5
4	70	100	73	100	88	51	77	83	77.0	83.5
5	70	99	72	100	86	60	74	96	75.5	88.8
6	70	100	72	98	82	76	76	95	75.0	92.3
7	70	100	76	96	87	57	78	84	77.8	84.3
8	73	99	80	88	90	52	78	90	80.3	82.3
9	74	99	80	98	87	52	80	83	80.3	83.0
10	72	97	72	97	86	55	80	69	77.5	79.5
11	72	98	70	98	86	62	70	98	74.5	89.0
12	68	94	68	98	84	62	80	65	75.0	79.8
13	72	90	73	96	82	72	74	81	75.3	84.8
14	69	95	72	86	83	50	74	64	74.5	73.8
15	66	94	72	82	85	47	77	58	75.0	70.3
16	70	95	71	100	77	89	74	87	73.0	92.8
17	68	98	68	99	82	59	80	63	74.5	79.8
18	71	95	69	97	80	77	76	81	74.0	87.5
19	71	99	72	99	88	53	77	85	77.0	84.0
20	70	98	73	100	90	48	81	65	78.5	77.8
21	71	98	79	94	88	50	74	100	78.0	85.5
22	69	100	72	100	84	68	74	98	74.8	91.5
23	71	100	72	100	80	76	81	72	76.0	87.0
24	71	97	69	97	86	52	81	66	76.8	78.0
25	73	93	70	97	80	75	75	87	74.5	88.0
26	70	99	70	99	79	65	77	68	74.0	82.8
27	69	98	71	98	87	49	75	96	75.5	85.3
28	70	84	69	87	87	39	77	53	75.8	65.8
29	70	66	69	82	83	63	77	80	74.8	72.8
30	70	98	71	99	81	83	75	89	74.3	92.3
31	71	96	71	96	81	76	72	95	73.8	90.8
Avg.	70.2	96.0	71.8	96.1	83.9	62.2	76.6	80.7		

Table 22. Six Hourly Temperature and Relative Humidity, September 1971

Date	Midnight		6:00AM		Noon		6:00P.M.		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	71	98	71	98	82	70	76	95	75.0	90.3
2	73	99	72	99	83	66	77	75	76.0	84.8
3	72	94	72	98	80	75	77	78	75.3	86.3
4	72	95	72	99	81	80	75	93	75.0	91.8
5	72	99	73	99	84	67	76	92	76.3	89.3
6	72	99	74	100	83	63	79	59	77.0	80.3
7	72	90	69	99	82	54	78	52	75.3	73.8
8	71	81	68	98	82	55	76	70	74.3	76.0
9	71	91	69	99	83	52	77	57	75.0	74.8
10	70	90	70	99	88	42	77	63	76.3	73.5
11	70	99	72	100	90	47	73	98	76.3	86.0
12	69	100	70	100	87	42	75	50	75.3	73.0
13	65	86	62	98	78	44	73	49	69.5	69.3
14	60	100	57	100	87	38	78	54	70.5	73.0
15	65	98	67	98	84	48	75	74	72.8	79.5
16	70	98	69	100	77	72	70	100	71.5	92.5
17	70	100	70	100	81	59	71	94	73.0	88.3
18	69	100	70	100	76	76	71	97	71.5	93.3
19	66	100	69	100	81	58	74	97	72.5	88.8
20	67	100	71	100	85	54	73	97	74.0	87.8
21	70	98	69	99	85	59	77	80	75.3	84.0
22	69	99	70	99	86	56	76	92	75.3	86.5
23	72	99	71	100	83	67	73	98	75.3	91.0
24	67	100	70	100	81	62	74	90	73.0	88.0
25	69	99	74	100	84	52	73	96	75.0	86.8
26	70	100	71	93	79	63	72	94	73.0	87.5
27	70	100	72	100	83	59	73	94	74.5	88.3
28	67	100	67	100	82	58	72	92	72.0	87.5
29	67	98	65	100	82	55	73	82	71.8	83.8
30	67	100	67	100	87	43	71	88	73.0	82.8
Avg.	69.2	97.0	69.4	99.2	82.9	57.9	74.5	81.7		

Table 23. Six Hourly Temperature and Relative Humidity, October 1971

Date	Midnight		6:00AM		Noon		6:00PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	68	94	70	96	88	44	73	82	74.8	79.0
2	67	100	70	100	87	40	73	88	74.3	82.0
3	68	100	73	90	87	41	70	90	74.5	80.3
4	65	100	71	90	86	44	74	78	74.0	78.0
5	65	100	64	100	87	42	73	81	72.3	55.8
6	67	100	67	100	81	39	67	88	70.5	81.8
7	60	98	59	73	75	32	64	50	64.5	64.5
8	54	76	52	84	74	35	59	80	59.8	68.8
9	64	86	62	100	80	37	66	68	68.0	72.8
10	62	88	57	80	64	38	52	54	58.8	65.0
11	44	100	49	88	70	32	58	59	55.3	69.8
12	51	96	46	100	77	34	63	66	59.3	74.0
13	52	99	54	98	77	36	64	84	81.8	79.3
14	58	90	62	91	78	70	71	95	67.3	86.5
15	68	99	69	99	84	48	75	89	74.0	83.8
16	69	100	64	100	83	53	77	57	73.3	77.5
17	69	98	77	100	70	100	68	100	71.0	99.5
18	64	100	62	100	71	60	64	69	65.3	82.3
19	58	98	55	100	74	51	69	67	64.0	79.0
20	60	100	56	98	73	82	67	100	64.0	95.0
21	64	100	64	100	71	96	68	95	66.8	97.8
22	64	100	63	100	68	80	67	100	65.5	95.0
23	67	100	66	100	73	74	65	100	67.8	93.5
24	65	100	62	100	72	68	63	100	65.5	92.0
25	63	100	63	100	73	58	67	89	66.5	86.8
26	59	100	55	100	86	44	64	93	66.0	84.3
27	57	100	56	100	80	40	64	100	64.3	85.0
28	57	100	59	99	79	46	67	78	65.5	80.8
29	61	100	60	100	70	77	65	100	64.0	94.3
30	65	99	66	100	74	76	70	94	68.8	92.3
31	68	100	68	100	75	80	69	100	70.0	95.0
Avg.	62.0	97.5	62.0	96.5	77.0	54.7	67.0	83.7		

Table 24. Six Hourly Temperatures and Relative Humidity, November 1971

Date	Midnight		6:00AM		Noon		6:00PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	70	100	70	100	75	82	69	100	71.0	95.5
2	68	100	68	100	72	72	72	100	70.0	93.0
3	68	100	67	100	70	24	25	42	55.0	66.5
4	45	50	41	62	62	22	46	64	48.5	49.5
5	44	52	43	58	65	26	53	59	51.3	48.8
6	52	76	52	98	75	48	64	85	60.8	76.8
7	61	99	53	89	59	22	44	34	54.3	61.0
8	34	56	34	64	56	24	46	39	42.5	45.8
9	39	48	37	62	48	56	46	78	42.5	61.0
10	40	100	35	100	59	37	47	68	45.3	76.3
11	36	100	37	99	68	15	52	20	48.3	58.5
12	43	78	41	100	72	23	49	68	51.3	67.3
13	43	84	47	83	74	38	54	100	54.5	76.5
14	51	100	54	100	74	40	60	74	59.8	78.5
15	52	100	50	100	70	37	58	69	57.5	76.5
16	51	92	46	100	73	34	56	76	56.5	75.5
17	48	100	48	97	75	35	59	84	57.5	79.0
18	56	100	57	100	70	51	58	92	60.3	85.8
19	57	87	57	100	72	54	61	100	61.8	85.3
20	50	82	41	100	58	33	48	50	49.3	66.3
21	52	79	39	100	61	26	46	34	49.5	59.8
22	32	57	30	77	49	26	41	38	38.0	49.5
23	39	41	42	46	44	52	39	88	41.0	56.8
24	36	71	34	100	39	100	41	85	37.5	89.0
25	39	80	35	89	54	38	44	62	43.0	67.3
26	38	75	37	99	55	47	52	59	45.5	70.0
27	49	100	52	100	62	33	48	59	52.8	73.0
28	40	80	38	92	55	47	49	100	45.5	79.8
29	55	100	58	100	61	50	52	74	56.5	81.0
30	42	91	38	100	57	35	47	54	46.0	70.0
Avg.	47.7	82.6	46.0	90.5	62.8	40.9	50.9	68.5		

Table 25. Six Hourly Temperature and Relative Humidity, December 1971

Date	Midnight		6:00AM		Noon		6:00PM		Average	
	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.	Temp.	R.H.
1	40	69	38	100	44	81	42	81	41	83
2	40	81	40	65	44	46	37	100	40	73
3	38	100	36	100	39	82	35	92	37	94
4	33	100	35	100	40	91	37	100	37	98
5	40	96	39	99	44	100	46	100	42	99
6	49	100	54	100	64	99	66	97	58	99
7	64	100	59	99	68	47	54	92	61	85
8	51	100	48	100	58	65	51	100	52	91
9	48	97	48	100	61	86	61	100	55	96
10	61	100	65	94	72	72	69	100	67	92
11	67	100	58	98	75	55	63	100	66	88
12	66	100	68	100	76	64	69	79	70	86
13	60	100	59	100	67	70	64	100	63	93
14	58	100	58	100	72	52	66	79	64	83
15	64	98	66	100	72	75	71	90	68	91
16	70	100	69	100	67	57	68	100	69	90
17	66	100	65	100	50	100	46	76	57	94
18	43	60	35	43	52	21	41	37	43	40
19	36	50	38	50	58	52	57	73	47	56
20	58	95	62	100	62	100	64	100	62	99
21	62	100	59	100	73	48	61	79	64	82
22	54	84	47	97	61	49	53	55	54	71
23	44	47	40	52	51	55	46	73	45	57
24	40	87	38	96	67	52	54	100	50	84
25	47	100	44	100	69	49	52	100	53	87
26	51	96	50	100	64	75	53	100	55	93
27	53	100	54	100	69	66	72	92	62	90
28	60	100	60	100	65	100	63	100	62	100
29	59	100	58	100	68	83	66	90	63	93
30	59	100	57	100	71	61	63	100	63	90
31	62	100	55	85	68	30	54	46	60	65
Avg.	53.0	92.3	51.7	92.9	61.7	67.2	56.3	88.1		

Table 26. Soil Temperature and Wind, January 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	54	38	54	40	48	41	NW	80
2	57	36	57	39	52	40	S	48
3	52	40	53	42	50	41	E	159
4	58	50	60	50	56	45	S	158
5	57	50	57	51	53	51	N	171
6	57	42	58	44	56	45	N	41
7	47	38	50	40	47	40	N	159
8	44	36	45	39	44	38	E	139
9	49	42	50	43	46	42	S	62
10	51	42	51	44	47	42	S	59
11	51	47	52	48	50	44	E	45
12	59	47	60	48	55	45	S	30
13	60	47	59	49	55	48	S	79
14	64	48	64	49	59	47	S	101
15	61	56	62	57	59	53	N	168
16	51	40	52	43	50	44	N	85
17	56	41	56	43	51	44	W	72
18	52	48	51	48	49	45	N	135
19	45	37	41	40	43	41	N	211
20	44	35	43	37	42	38	N	80
21	50	33	50	37	45	36	S	95
22	56	35	57	37	53	36	S	173
23	58	47	58	49	54	46	E	101
24	63	55	62	56	58	53	S	77
25	64	55	64	56	60	53	S	65
26	61	52	61	54	57	55	NW	218
27	49	39	49	42	46	44	NW	180
28	51	38	51	40	46	44	W	99
29	53	36	56	40	50	38	S	122
30	59	39	59	40	55	39	S	151
31	57	53	57	54	54	50	N	178
Total	1690	1342	1699	1399	1590	1368		3541
Avg.	54.5	43.3	54.8	45.1	51.3	44.1	S	114.2

Table 27. Soil Temperature and Wind, February 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	50	38	50	41	46	42	N	169
2	45	37	46	39	43	40	E	124
3	46	35	47	39	44	38	E	208
4	52	40	53	41	49	40	E	174
5	64	42	63	44	57	42	W	97
6	60	43	62	45	56	45	N	88
7	62	49	60	50	55	46	N	137
8	50	51	50	52	51	49	W	213
9	44	37	38	38	41	39	W	178
10	48	35	46	36	42	35	N	56
11	54	34	53	36	47	36	S	64
12	50	35	49	38	46	36	E	178
13	38	37	39	39	40	37	W	291
14	50	35	49	36	43	36	NW	80
15	58	34	57	36	50	35	W	82
16	67	36	64	38	56	35	N	37
17	67	41	65	43	58	42	SW	35
18	67	48	65	49	59	48	SE	84
19	65	47	64	49	59	48	S	205
20	68	50	67	51	62	49	S	67
21	67	58	66	59	61	56	SE	166
22	66	58	65	59	61	55	S	179
23	62	45	60	47	56	48	W	143
24	65	43	62	45	57	46	N	69
25	67	42	66	44	59	44	S	73
26	63	45	63	47	60	45	S	162
27	70	56	70	56	65	51	W	94
28	70	54	70	55	65	52	W	78
Total	1635	1205	1609	1252	1488	1215		3531
Avg.	58.4	43	57.5	44.7	53.1	43.4	W	126.1

Table 28. Soil Temperature and Wind, March 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	62	50	61	52	61	53	E	68
2	67	55	67	57	63	53	S	131
3	62	62	62	63	60	60	W	269
4	55	40	56	41	52	43	NW	141
5	61	40	61	40	55	41	S	81
6	54	40	56	41	53	41	S	174
7	57	45	58	46	54	47	W	211
8	54	40	56	41	51	42	W	155
9	64	40	62	40	55	38	N	88
10	58	36	60	40	55	38	S	154
11	66	42	66	44	58	45	N	76
12	63	41	64	44	59	43	S	68
13	58	49	59	50	56	48	S	78
14	63	54	67	53	60	53	SE	115
15	68	56	70	57	65	53	W	145
16	64	52	67	52	61	53	W	176
17	60	48	63	50	58	49	N	158
18	70	45	65	45	58	46	E	156
19	62	42	65	44	59	45	W	197
20	60	40	59	45	55	46	W	192
21	63	42	64	43	57	45	SW	57
22	69	48	66	50	65	45	SW	70
23	71	56	68	53	66	55	N	161
24	70	43	65	48	60	50	N	146
25	48	42	47	47	52	50	E	204
26	54	42	53	45	51	45	N	142
27	72	44	67	43	60	44	N	67
28	73	47	68	46	61	41	S	117
29	69	50	66	50	61	45	N	162
30	68	42	67	46	60	47	N	165
31	74	42	69	45	62	46	S	116
Total	1959	1415	1944	1461	1803	1450		4240
Avg.	63.2	45.6	62.7	47.1	58.2	46.8	S	136.8

Table 29. Soil Temperature and Wind, April 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	73	44	69	45	62	45	S	192
2	64	48	62	49	58	47	NW	142
3	73	41	69	45	63	47	N	55
4	72	45	68	49	61	50	E	101
5	62	52	60	54	57	53	E	80
6	65	50	62	52	57	52	W	195
7	68	42	64	45	57	45	NW	156
8	77	42	72	45	64	43	N	68
9	76	45	72	46	65	45	W	79
10	80	49	75	51	68	49	N	99
11	83	48	77	52	70	53	N	81
12	85	53	79	56	72	54	SW	77
13	87	55	80	57	73	55	W	113
14	88	57	82	59	74	57	N	145
15	91	50	84	54	75	56	N	81
16	93	53	86	55	77	54	N	62
17	96	56	88	57	80	55	N	57
18	94	57	87	59	79	60	SW	59
19	96	58	90	62	81	62	S	49
20	98	62	92	62	84	62	W	87
21	87	64	82	65	77	65	SW	118
22	91	67	85	69	79	68	W	73
23	83	67	79	68	73	69	S	160
24	81	61	77	65	72	67	N	112
25	87	55	81	59	75	61	W	62
26	88	58	83	61	75	62	W	39
27	80	58	76	60	73	61	S	76
28	90	66	85	66	78	65	W	129
29	75	62	73	65	69	65	N	89
30	67	60	66	62	65	63	N	77
Total	2450	1625	2305	1694	2113	1690		2913
Avg.	81.7	54.2	76.8	56.5	70.4	56.3	N	97.1

Table 30. Soil Temperature and Wind, May 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	dir.	per day
1	83	56	78	59	73	60	N	103
2	83	56	77	60	71	59	N	90
3	78	52	73	56	69	58	NW	135
4	82	49	78	52	71	54	N	71
5	84	50	79	52	72	52	S	115
6	89	54	84	56	77	55	S	107
7	92	59	87	60	80	60	S	117
8	85	66	81	67	75	65	SW	130
9	88	65	83	68	77	68	W	69
10	86	67	81	68	76	67	E	92
11	88	65	83	67	77	66	E	79
12	80	66	76	67	74	65	S	180
13	62	62	64	65	65	66	W	189
14	83	55	82	56	73	58	N	42
15	73	55	71	57	66	57	E	67
16	84	62	79	64	75	63	NW	64
17	92	62	86	64	80	65	NW	52
18	91	64	86	64	80	63	S	65
19	94	65	88	66	81	64	W	58
20	86	66	83	67	78	65	N	78
21	93	62	89	65	81	66	N	187
22	98	59	91	63	84	65	N	99
23	100	63	93	64	85	63	S	99
24	95	70	90	72	85	73	S	127
25	88	70	85	71	80	71	S	73
26	104	66	98	69	90	70	N	64
27	106	67	100	69	90	70	SW	68
28	91	69	87	71	82	70	N	144
29	90	59	85	63	80	66	N	170
30	95	59	90	63	83	66	N	159
31	104	64	97	67	90	65	W	83
Total	2747	1904	2604	1972	2420	1975		3176
Avg.	88.6	61.4	84.0	63.6	78.1	63.7	N	102.5

Table 31. Soil Temperature and Wind, June 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	104	65	98	67	90	66	-	-
2	106	69	100	71	91	71	-	-
3	99	71	94	73	89	75	-	-
4	103	72	97	74	90	75	-	-
5	102	72	96	73	90	73	-	-
6	110	76	101	78	83	77	-	-
7	96	72	90	74	84	75	-	-
8	89	70	84	72	80	73	W	49
9	98	70	92	71	86	72	W	77
10	104	70	98	72	90	72	NW	84
11	100	70	95	72	89	72	E	83
12	106	73	100	75	94	74	NW	44
13	110	75	104	76	96	75	W	97
14	111	75	105	77	96	77	W	107
15	110	75	103	77	97	78	W	92
16	106	77	99	79	91	81	S	62
17	95	74	90	76	85	77	W	68
18	101	70	95	74	88	75	W	51
19	110	72	102	74	95	74	W	68
20	105	70	100	72	93	75	W	129
21	103	75	98	77	91	77	W	103
22	99	76	93	78	88	77	W	83
23	104	72	98	75	92	76	W	65
24	106	75	100	76	93	73	NW	58
25	103	77	97	78	90	77	W	51
26	110	75	104	77	96	78	-	-
27	106	78	101	78	94	77	-	-
28	111	77	103	79	95	80	-	-
29	107	76	101	78	93	79	-	-
30	106	76	100	78	92	79	-	-
Total	3120	2195	2938	2251	2721	2260		1371
Avg.	104	73.2	97.9	75	90.7	75.3	W	45.7

- Missing Data

Table 32. Soil Temperature and Wind, July 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	108	77	102	78	95	78	-	-
2	108	78	101	80	94	81	E	59
3	91	76	88	78	84	79	SE	92
4	87	73	84	75	81	76	NW	63
5	90	74	85	76	80	76	N	57
6	97	74	90	76	84	75	N	82
7	100	71	95	73	88	74	-	-
8	104	72	97	73	89	71	-	-
9	101	74	96	75	91	76	-	-
10	104	74	99	75	93	74	-	-
11	97	77	91	80	86	78	-	-
12	94	74	90	76	85	76	W	57
13	97	73	91	75	86	75	N	47
14	93	74	93	75	87	74	N	84
15	96	75	91	76	86	76	S	79
16	82	72	80	74	78	76	W	90
17	87	70	85	73	81	74	W	58
18	98	72	92	74	87	72	W	70
19	95	75	93	77	89	74	W	90
20	87	76	84	77	80	75	W	80
21	94	73	90	75	85	75	N	89
22	98	69	94	71	88	73	N	60
23	97	69	93	71	88	72	E	74
24	93	73	88	75	84	75	E	57
25	98	75	93	77	86	77	S	72
26	98	75	92	76	86	77	S	77
27	97	75	92	76	85	75	W	68
28	95	75	90	76	85	75	S	72
29	93	75	87	76	83	75	W	70
30	88	74	83	75	81	74	S	84
31	87	74	83	76	81	75	S	58
Total	2954	2288	2812	2340	2656	2333		1789
Avg.	95.3	73.8	90.7	75.5	85.7	75.3	W	57.7

- Missing Data

Table 33. Soil Temperature and Wind, August 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	87	73	84	75	81	74	E	79
2	94	72	89	73	85	74	E	82
3	97	72	92	74	86	73	E	65
4	100	72	95	74	89	72	N	50
5	100	75	95	76	89	75	E	65
6	98	75	93	77	87	76	E	71
7	105	75	100	76	93	77	E	70
8	112	78	104	80	97	77	S	58
9	112	80	105	81	98	78	W	60
10	109	80	105	82	98	83	W	65
11	101	79	96	81	90	80	N	72
12	106	73	101	76	94	77	N	87
13	106	75	101	76	95	76	E	116
14	106	74	102	76	95	78	NE	95
15	108	74	102	77	95	80	N	139
16	92	79	89	80	85	80	NE	174
17	100	73	95	76	90	77	NE	108
18	100	73	95	75	90	76	E	77
19	112	76	104	79	96	78	S	58
20	114	78	108	80	98	79	S	49
21	112	78	106	79	97	79	N	68
22	96	77	92	79	87	79	S	72
23	95	75	92	77	87	78	W	64
24	102	74	96	76	91	76	N	77
25	100	75	95	76	89	75	E	92
26	101	75	96	77	90	78	-	-
27	108	74	101	77	94	77	N	67
28	101	71	97	74	90	76	N	118
29	100	72	94	75	87	76	E	134
30	99	75	94	77	87	77	E	101
31	100	74	94	76	88	74	E	96
Tot al.	3173	2326	3012	2387	2818	2385		2529
Avg.	102.4	75	97.2	77	90.9	76.9	E	81.6

- Missing Data

Table 34. Soil Temperature and Wind, September 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. Miles dir. per day	
	Max.	Min.	Max.	Min.	Max.	Min.		
1	91	75	87	77	85	78	E	95
2	95	75	90	76	85	76	E	130
3	92	74	88	76	85	74	E	130
4	94	74	90	76	85	76	E	140
5	100	76	94	78	87	78	E	125
6	101	75	96	78	90	77	E	115
7	105	75	100	77	93	78	E	106
8	104	75	99	77	93	77	E	132
9	105	75	99	77	93	78	E	120
10	106	75	100	77	93	78	N	63
11	108	75	102	77	94	78	W	62
12	103	75	98	76	92	78	NW	103
13	101	68	96	73	90	75	N	141
14	105	68	100	71	93	74	-	-
15	101	68	96	72	89	73	-	-
16	87	72	85	75	82	75	E	76
17	87	71	83	73	80	74	W	122
18	82	72	81	74	78	73	W	56
19	90	70	85	72	82	72	S	38
20	94	70	88	72	83	72	S	63
21	93	70	88	72	85	72	N	112
22	94	71	89	73	85	73	E	119
23	93	71	88	73	83	71	E	120
24	91	70	87	72	83	73	N	84
25	98	70	92	71	87	71	E	90
26	92	74	87	76	83	75	E	93
27	102	74	95	75	88	73	E	41
28	102	72	95	74	89	73	E	79
29	99	70	93	73	88	74	N	04
30	103	70	96	73	90	71	N	46
Total	2918	2170	2767	2236	2613	2240		2705
Avg.	97.3	72.3	92.2	74.5	87.1	74.6	E	90.2

- Missing Data

Table 35. Soil Temperature and Wind, October 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	102	72	97	73	90	73	W	62
2	103	70	96	74	90	74	W	34
3	103	75	97	76	90	77	N	62
4	104	74	97	76	91	77	N	39
5	104	73	98	75	92	76	N	55
6	90	73	87	75	84	76	NW	53
7	90	62	85	67	82	70	N	113
8	92	58	86	62	82	65	E	74
9	94	57	87	61	82	63	N	75
10	88	65	84	68	79	69	N	141
11	92	55	87	60	80	63	N	59
12	95	54	89	59	83	61	N	30
13	91	57	85	62	79	63	NE	49
14	89	62	83	65	80	65	E	89
15	94	66	89	68	83	66	S	60
16	97	71	91	72	86	72	N	47
17	76	72	75	73	74	72	E	38
18	85	64	82	66	77	68	E	105
19	90	60	86	66	79	65	NE	118
20	78	59	75	62	73	63	E	131
21	78	67	76	68	73	69	E	122
22	78	66	74	69	70	68	N	75
23	80	66	76	68	73	67	S	26
24	81	64	77	66	74	68	W	67
25	78	65	75	67	73	67	N	93
26	85	58	80	61	76	63	N	79
27	90	59	84	62	78	63	E	35
28	90	58	85	62	79	62	NE	83
29	74	61	73	64	71	65	N	115
30	78	62	76	65	73	66	E	97
31	78	70	76	69	73	68	N	81
TOTAL	2747	1995	2608	2081	2469	2104		2307
AVG.	88.6	64.4	84.1	67.1	79.6	67.9	N	74.4

Table 36. Soil Temperature and Wind, November 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	83	70	80	71	75	71	E	69
2	88	69	84	71	78	69	S	45
3	83	70	82	71	78	69	N	164
4	78	50	75	54	70	57	N	126
5	79	49	75	54	70	56	E	123
6	86	49	78	53	73	54	E	113
7	78	63	75	65	71	62	N	185
8	74	45	70	49	66	52	E	134
9	56	46	56	49	56	51	E	95
10	74	44	69	48	64	50	N	89
11	77	43	72	47	66	49	W	73
12	79	44	74	47	68	49	W	47
13	79	48	74	51	69	52	W	55
14	79	54	74	57	70	57	N	61
15	80	54	75	57	70	58	NE	107
16	82	53	78	56	72	57	E	67
17	83	54	79	57	73	57	E	66
18	80	57	76	58	70	58	E	122
19	76	59	73	62	69	60	NW	123
20	74	53	71	57	68	59	W	119
21	71	49	68	53	65	55	NW	171
22	67	40	65	46	60	49	N	121
23	52	41	50	45	52	47	E	168
24	48	43	49	46	49	47	N	140
25	63	42	58	45	51	45	N	108
26	61	41	59	45	55	44	SE	104
27	67	52	64	50	60	46	W	119
28	62	41	58	46	55	47	E	145
29	66	54	65	55	60	51	W	128
30	63	44	61	48	57	49	N	126
Total	2188	1521	2087	1613	1960	1627		3313
Avg.	72.9	50.7	69.6	53.8	65.3	54.2	E	110.4

Table 37. Soil Temperature and Wind, December 1971

Date	Soil Temperature						Wind at 12'	
	5 cm.		10 cm.		20 cm.		Prvl. dir.	Miles per day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	49	44	50	47	49	47	N	135
2	45	42	46	45	45	45	E	141
3	42	41	45	43	43	43	E	168
4	43	40	45	43	43	42	E	123
5	50	42	51	44	48	41	E	161
6	62	44	60	45	58	42	SE	178
7	70	51	67	52	63	47	W	111
8	65	51	62	53	58	53	N	75
9	62	50	61	52	58	48	E	111
10	67	50	65	52	63	47	S	169
11	74	59	72	62	67	57	S	70
12	75	63	71	63	68	58	S	107
13	70	60	67	63	65	62	E	40
14	71	58	68	60	65	60	S	133
15	71	60	73	61	76	57	S	134
16	76	64	73	60	71	60	S	148
17	66	67	67	68	66	64	N	142
18	60	43	58	48	57	50	N	128
19	61	38	60	45	57	45	S	145
20	64	52	63	51	60	52	S	105
21	74	60	72	59	67	55	W	68
22	65	50	63	53	60	55	E	193
23	60	42	58	46	55	48	E	163
24	67	42	63	46	58	46	N	73
25	68	48	65	51	61	49	NE	29
26	69	50	64	53	61	51	W	54
27	70	52	67	54	64	54	SW	40
28	68	55	66	56	64	54	S	36
29	71	61	68	62	65	59	S	52
30	69	58	67	60	64	59	S	81
31	70	60	68	61	65	58	N	115
Total	1994	1597	1945	1658	1864	1608	S	3478
Avg.	64.3	51.5	62.7	53.5	60.1	51.9		112.2

Table 39. Cooling Degree Days 1971 - Base 75°

Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	0	0	0	0	5	0	3	2	2	0
2	0	0	0	0	0	2	5	1	3	2	0	0
3	0	0	0	0	0	3	2	3	3	2	0	0
4	0	0	0	0	0	4	0	5	3	1	0	0
5	0	0	0	0	0	5	1	5	5	2	0	0
6	0	0	0	0	0	5	2	1	4	0	0	0
7	0	0	0	0	0	0	4	6	4	0	0	0
8	0	0	0	0	0	0	4	7	1	0	0	0
9	0	0	0	0	0	2	5	7	3	0	0	0
10	0	0	0	0	0	2	5	5	3	0	0	0
11	0	0	0	0	0	2	5	4	5	0	0	0
12	0	0	0	0	0	4	4	2	1	0	0	0
13	0	0	0	0	0	7	3	2	0	0	0	0
14	0	0	0	0	0	7	5	1	0	0	0	0
15	0	0	0	0	0	8	4	1	1	1	0	0
16	0	0	0	0	0	4	0	0	0	0	0	0
17	0	0	0	0	0	2	0	1	1	0	0	0
18	0	0	0	0	0	1	3	2	0	0	0	0
19	0	0	0	0	0	3	6	5	0	0	0	0
20	0	0	0	0	0	3	0	5	1	0	0	0
21	0	0	0	0	0	5	2	5	2	0	0	0
22	0	0	0	0	0	3	1	3	3	0	0	0
23	0	0	0	0	0	0	2	4	1	0	0	0
24	0	0	0	0	0	4	1	4	0	0	0	0
25	0	0	0	0	0	5	4	2	1	0	0	0
26	0	0	0	0	0	7	4	1	0	0	0	0
27	0	0	0	0	0	5	3	4	3	0	0	0
28	0	0	0	0	0	6	3	2	1	0	0	0
29	0	0	0	0	0	4	1	2	0	0	0	0
30	0	0	0	0	0	4	1	2	1	0	0	0
31	0	0	0	0	0	0	0	4	0	0	0	0
Total	0	0	0	0	0	107	85	96	53	10	2	0

Table 40 Heating Degree Days 1971 - Base 65°

Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
1	24	33	6	9	3	0	0	0	0	0	0	23
2	19	30	1	16	3	0	0	0	0	0	0	24
3	16	23	18	14	8	0	0	0	0	0	6	28
4	6	17	29	10	10	0	0	0	0	0	13	43
5	20	15	23	9	1	0	0	0	0	0	10	21
6	29	13	14	18	0	0	0	0	0	0	2	6
7	26	13	23	17	0	0	0	0	0	0	17	6
8	30	30	24	10	0	0	0	0	0	2	25	10
9	25	40	19	9	0	0	0	0	0	0	27	10
10	22	36	13	3	0	0	0	0	0	4	16	0
11	17	26	15	0	0	0	0	0	0	5	14	0
12	11	20	9	0	0	0	0	0	0	1	9	0
13	11	38	12	1	6	0	0	0	0	0	7	3
14	5	33	7	3	5	0	0	0	0	0	4	0
15	5	18	0	4	2	0	0	0	0	0	5	0
16	25	11	9	1	0	0	0	0	0	0	3	0
17	21	6	16	0	0	0	0	0	0	0	2	10
18	18	7	13	0	0	0	0	0	0	0	0	20
19	36	5	17	0	0	0	0	0	0	0	3	17
20	34	1	22	0	0	0	0	0	0	0	14	6
21	25	0	19	0	0	0	0	0	0	0	14	0
22	8	5	7	0	0	0	0	0	0	0	24	11
23	9	19	14	0	0	0	0	0	0	0	23	17
24	2	16	18	3	0	0	0	0	0	0	27	12
25	4	11	25	0	0	0	0	0	0	0	19	8
26	16	3	26	0	0	0	0	0	0	0	19	8
27	33	2	15	0	0	0	0	0	0	0	13	4
28	27	12	10	0	0	0	0	0	0	0	18	1
29	18		4	0	3	0	0	0	0	0	9	0
30	4		15	0	0	0	0	0	0	0	17	0
31	21		11		0		0	0		0		3
Total	567	483	454	127	41	0	0	0	0	12	360	291

Table 41. Time of Sunrise at Auburn, Alabama (a.m., CST),
Latitude $32^{\circ} 34'$ N., Longitude $85^{\circ} 31'$ 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	5:54	5:15	5:35	5:57	6:23	6:44
26	6:43	6:17	5:41	5:03	4:41	4:39	5:55	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.

Table 42. Time of Sunset at Auburn, Alabama (p.m., CST),
Latitude 32° 34' N., Longitude 85° 31' 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	4:48	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.

Table 43. Growing Degree Days for 1971 - Base 40°

Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1	0	19	16	22	34	40	35	38	37	37	2
2	6	0	24	9	22	37	40	36	38	37	35	1
3	9	2	7	11	17	38	37	38	38	37	19	0
4	19	8	0	15	15	39	34	40	38	36	12	0
5	5	10	2	16	24	40	36	40	40	37	15	4
6	0	12	11	7	29	40	37	36	39	34	23	19
7	0	12	2	8	34	35	39	41	39	27	8	19
8	0	0	1	15	31	34	39	42	36	23	0	15
9	0	0	6	16	29	37	40	42	38	30	0	15
10	3	0	12	22	31	37	40	40	38	21	9	27
11	8	0	10	26	29	37	40	39	40	20	11	26
12	14	5	16	26	19	39	39	37	36	24	16	30
13	14	0	13	24	20	42	38	37	31	25	18	22
14	20	0	18	22	23	42	40	36	34	29	21	26
15	20	7	26	21	28	43	39	36	36	36	20	28
16	0	14	16	24	30	39	32	35	33	35	22	34
17	4	19	9	27	31	37	34	36	36	27	23	15
18	7	18	12	29	32	36	38	37	32	28	26	5
19	0	20	8	28	32	38	41	40	34	25	22	8
20	0	24	3	31	31	38	35	40	36	25	11	19
21	0	26	6	31	29	40	37	40	37	28	11	25
22	17	20	18	29	33	38	36	38	38	27	1	14
23	16	6	11	28	33	35	37	39	36	30	2	8
24	23	9	7	22	31	39	36	39	34	26	0	13
25	21	14	10	25	34	40	39	37	36	28	6	17
26	9	22	0	28	33	42	39	36	34	27	6	17
27	0	23	10	29	33	40	38	39	38	28	12	21
28	0	13	15	35	22	41	38	37	36	29	7	24
29	7		21	26	26	39	36	37	34	24	16	26
30	21		10	20	31	39	36	37	36	27	8	25
31	4		14				33	39		31		22
Total	248	284	337	666	834	1155	1163	1181	1089	898	417	527

Table 44 Growing Degree Days for 1971 - Base 45°

Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	14	11	17	29	35	30	33	32	32	0
2	1	0	19	4	17	32	35	31	33	32	30	0
3	4	0	2	6	12	33	32	33	33	32	14	0
4	14	3	0	10	10	34	29	35	33	31	7	0
5	0	5	0	11	19	35	31	35	35	32	10	0
6	0	7	6	2	24	35	32	31	34	29	18	14
7	0	7	0	3	29	30	34	36	34	22	3	14
8	0	0	0	10	26	29	34	37	31	18	0	10
9	0	0	1	11	24	32	35	37	33	25	0	10
10	0	0	7	17	23	32	35	35	33	16	4	22
11	3	0	5	21	26	32	35	34	35	15	6	21
12	9	0	11	21	24	34	34	32	31	19	11	25
13	9	0	8	19	14	37	33	32	26	20	13	17
14	15	0	13	17	15	37	35	31	29	24	16	21
15	15	2	21	16	18	38	34	31	31	31	15	23
16	0	9	11	19	23	34	27	30	28	30	17	29
17	0	14	4	22	25	32	29	31	31	22	18	10
18	2	13	7	24	26	31	33	32	27	23	21	0
19	0	15	3	23	27	33	36	35	29	20	17	3
20	0	19	0	26	27	33	30	35	31	20	6	14
21	0	21	1	26	26	35	32	35	32	23	6	20
22	12	15	13	24	24	33	31	33	33	17	0	9
23	11	1	6	23	28	30	32	34	31	25	0	3
24	18	4	2	17	28	34	31	34	29	11	0	8
25	16	9	0	20	26	35	34	32	31	13	1	12
26	4	17	0	23	29	37	26	31	29	12	1	12
27	0	18	5	24	28	35	26	34	33	13	7	16
28	0	8	10	30	28	36	25	32	31	14	2	9
29	2		16	21	17	34	24	32	29	9	11	21
30	16		5	15	21	34	25	32	31	12	3	20
31	0		9		26		26	34		16		17
Total	151	187	199	516	707	1005	970	1026	939	658	289	380

Table 45. Growing Degree Days for 1971 - Base 50°

Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	9	6	12	24	30	25	28	27	27	0
2	0	0	14	0	12	27	30	26	28	27	25	0
3	0	0	0	1	7	28	27	28	28	27	9	0
4	9	0	0	5	5	29	24	30	28	26	2	0
5	0	0	0	6	14	30	26	30	30	27	5	0
6	0	2	1	0	19	30	27	26	29	20	13	9
7	0	2	0	0	24	25	29	31	29	17	0	9
8	0	0	0	5	21	24	29	32	26	13	0	5
9	0	0	0	6	19	27	30	32	28	20	0	5
10	0	0	2	12	18	27	30	30	28	11	0	17
11	0	0	0	16	21	27	30	29	30	10	1	16
12	4	0	6	16	19	29	29	27	26	14	6	20
13	4	0	3	14	9	32	28	27	21	15	8	12
14	10	0	8	12	10	32	30	26	24	19	11	16
15	10	0	16	11	13	33	29	26	26	26	10	18
16	0	4	6	14	18	29	22	25	23	25	12	24
17	0	9	0	17	20	27	24	26	26	17	13	5
18	0	8	2	19	21	26	28	27	22	18	16	0
19	0	10	0	18	22	28	31	30	24	15	12	0
20	0	14	0	21	22	28	25	30	26	15	1	9
21	0	16	0	21	21	30	27	30	27	18	1	15
22	7	10	8	19	19	28	26	28	28	12	0	4
23	6	0	1	18	23	25	27	29	26	20	0	0
24	13	0	0	12	23	29	26	29	24	16	0	3
25	11	4	0	15	21	30	29	27	26	18	0	7
26	0	12	0	18	24	32	21	26	24	17	0	7
27	0	13	0	19	23	30	21	29	28	18	2	11
28	0	3	5	25	23	31	20	27	26	19	0	4
29	0		11	16	12	29	19	27	24	14	6	16
30	11		0	10	16	29	20	27	26	17	0	15
31	0		4		21		21	29		21		12
Total	85	107	96	372	552	855	815	871	789	579	180	259

Table 46. Precipitation Accumulation and Departure from Average*

Date	Average	Average Accumulation	1971	Accumulation for 1971	Departure for Month	Departure for 1971
Jan.	4.80	4.80	3.69	3.69	-1.11	-1.11
Feb.	5.25	10.05	7.45	11.14	+2.20	+1.09
March	6.13	16.18	11.27	22.41	+5.14	+6.23
April	4.37	20.55	3.93	26.34	-0.44	+5.79
May	3.55	24.10	3.58	29.92	+0.03	+5.82
June	4.06	28.16	1.99	31.91	-2.07	+3.75
July	5.34	33.50	11.01	42.92	+5.67	+9.42
Aug.	4.71	38.21	1.45	44.37	-3.26	+6.16
Sept.	3.20	41.41	3.24	47.61	+0.04	+6.20
Oct.	2.58	43.99	1.25	48.86	-1.33	+4.87
Nov.	3.48	47.47	1.86	50.72	-1.62	+3.25
Dec.	5.13	52.60	4.90	55.62	-0.23	+3.02

* Precipitation averages are based on data from 1855 through 1952.

