



Auburn University
LOCAL CLIMATOLOGICAL DATA
1964

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June 1965

UNITED STATES DEPARTMENT of COMMERCE
WEATHER BUREAU

in cooperation with

AGRICULTURAL EXPERIMENT STATION
AUBURN UNIVERSITY

E. V. SMITH, Director

AUBURN, ALABAMA

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FOREWARD

Except for the long term averages of temperature, precipitation, and evaporation, data in this publication were recorded at the Weather Bureau micro-meteorology 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.

The sensing elements for the soil thermometers are under bare soil while all other instruments are exposed over sod.

Evaporation is measured in the Weather Bureau 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 langleys (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 75°. These data are obtained by subtracting 75 from the mean daily temperatures, if the latter is above 75°. A day with a mean temperature of 76° is one degree day. If the daily mean temperature continues above 75° 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 daily temperature of 65°. A mean daily temperature of 64° is one degree day. If the daily mean temperature continues below 65° 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.

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Table 1. Daily temperatures, precipitation, evaporation, and miles of wind per day for January, 1964

January	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	33	27	30	-		-	30.3
2	54	22	38	-		-	37.8
3	63	33	48	-		-	27.6
4	55	43	49	0.03		.08	49.8
5	58	39	49	-		-	68.5
6	57	45	51	1.10		-	69.4
7	56	48	52	-		-	89.9
8	58	51	55	1.29		-	51.1
9	61	34	48	0.55		-	107.6
10	44	27	36	-		-	133.0
11	48	28	38	0.05		-	79.5
12	43	29	36	0.02		-	94.8
13	29	20	25	-		-	128.8
14	37	17	27	-		-	157.5
15	45	17	31	-		-	69.0
16	40	27	34	0.68		-	27.0
17	45	35	40	0.64		-	134.0
18	54	37	46	-		.05	87.5
19	59	40	50	0.50		.06	55.0
20	57	46	52	0.12		.14	136.8
21	63	32	48	-		.23	91.6
22	63	34	49	-		.10	31.7
23	70	46	58	-		.09	34.4
24	67	55	61	1.10		.12	55.2
25	60	33	47	-		-	144.1
26	60	28	44	-		.10	72.7
27	49	37	43	-		.07	33.8
28	50	30	40	-		.05	46.3
29	53	26	40	-		-	124.8
30	60	31	46	-		-	28.8
31	56	46	51	0.32		.12	45.7
Total	1647	1063	1362	6.40			2344.0
Avg.	53.1	34.3	43.9				75.6

(-) No precipitation or missing evaporation data.

Table 2. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for February, 1964

February	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	56	37	47	-		.36	71.0
2	56	34	45	-		.11	74.3
3	56	38	47	-		.05	64.2
4	55	45	50	-		.16	92.3
5	56	45	51	.73		.12	86.7
6	49	42	46	-		.12	43.4
7	52	31	42	.30		.08	82.1
8	45	25	35	-		-	87.5
9	56	29	43	-		-	51.2
10	64	29	47	0.14		-	74.4
11	46	31	39	0.06		.32	156.9
12	46	26	36	-		-	104.6
13	53	42	48	0.62		-	79.9
14	56	32	44	-		-	102.3
15	57	34	46	0.34		.18	107.4
16	50	34	42	0.01		.27	130.9
17	57	32	45	0.23		-	104.3
18	53	44	49	1.17		-	120.6
19	46	34	40	0.04	127	-	109.9
20	48	28	38	-	290	-	108.2
21	43	27	35	-	175	-	80.5
22	45	28	37	-	302	-	76.4
23	46	23	35	-	393	-	87.0
24	56	25	41	-	246	-	37.6
25	45	35	40	0.46	67	-	70.8
26	56	31	44	-	253	.03	72.8
27	47	43	45	0.46	30	.07	61.7
28	48	35	42	0.11	11	-	86.0
29	52	29	41	-	350	-	129.5
Total	1495	968	1240	4.67			2554.4
Avg.	51.6	33.4	42.8				88.1

(-) No precipitation or missing evaporation data.

Table 3. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for March, 1964

March	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	51	40	46	0.07	29	-	58.0
2	64	49	57	1.56	4	.38	50.6
3	70	56	63	0.11	270	-	103.1
4	79	62	71	0.89	150	.03	102.9
5	60	39	50	-	397	-	225.1
6	64	32	48	-	477	.17	82.1
7	70	46	58	-	339	.22	62.7
8	80	54	67	-	462	.17	80.6
9	75	69	72	0.18	191	.17	128.3
10	56	42	49	-	377	.20	223.7
11	65	31	48	-	405	.16	95.1
12	71	39	55	-	480	.12	38.6
13	74	45	60	-	42	.31	95.4
14	78	52	65	2.50	300	.29	100.3
15	68	44	56	0.57	160	-	132.3
16	65	39	52	-	505	-	100.9
17	71	38	55	-	442	.16	50.0
18	72	46	59	-	470	.21	68.1
19	57	45	51	0.29	39	.20	94.9
20	71	45	58	0.07	504	.15	124.5
21	54	38	46	-	129	.05	89.8
22	64	32	48	-	555	-	135.9
23	68	41	55	-	410	.09	57.1
24	70	49	60	-	152	.16	65.0
25	73	58	66	0.77	12	.07	90.6
26	58	39	49	0.13	323	.15	130.6
27	64	35	50	-	527	.26	106.8
28	70	44	57	-	394	.20	53.4
29	63	41	52	-	514	.18	90.8
30	47	27	37	-	497	-	139.8
31	63	30	47	-	397	-	77.7
Total	2055	1347	1707	7.14	9953		3054.7
Avg.	66.3	43.5	55.1				98.5

(-) No precipitation or missing evaporation data.

Table 4. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for April, 1964

April	Air Temperature			Precip.	Solar		Wind M/D 2.5 ft.
	Max.	Min.	Mean		Radiation	Evaporation	
1	73	39	56	-	406	.08	85.0
2	75	46	61	-	341	.12	53.1
3	64	56	60	0.04	54	.16	125.2
4	82	57	70	-	523	.16	61.0
5	64	54	59	0.05	55	.16	89.3
6	64	51	58	4.79	41	-	124.6
7	79	64	72	1.47	197	-	117.3
8	71	44	58	3.64	262	-	112.0
9	63	38	51	-	545	-	135.0
10	69	39	54	-	573	.17	77.7
11	75	49	62	-	580	.32	81.1
12	73	57	65	0.69	167	.27	101.3
13	73	59	66	0.81	167	.14	112.6
14	66	58	62	0.62	72	-	80.5
15	75	56	66	-	580	-	42.8
16	79	53	66	-	597	.37	100.0
17	80	54	67	-	547	.28	66.0
18	80	53	67	-	510	.34	74.7
19	83	58	71	-	514	.23	48.3
20	82	56	69	-	549	.29	45.5
21	81	54	68	0.02	499	.27	65.5
22	77	58	68	-	200	.30	75.1
23	85	65	75	-	471	.04	57.2
24	85	58	72	-	568	.18	80.7
25	82	64	73	-	553	.25	62.6
26	66	60	63	0.49	29	.33	111.9
27	80	64	72	5.35	278	-	117.5
28	74	64	69	0.10	157	.16	110.0
29	77	58	68	-	555	.13	82.0
30	77	53	65	-	485	.38	82.5
Total	2254	1639	1953	18.07	11075		2578.0
Avg.	75.1	54.6	65.1				85.9

(-) No precipitation or missing evaporation data.

Table 5. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for May, 1964

May	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	76	57	67	0.10	427	.21	48.5
2	64	56	60	1.81	24	.29	117.0
3	71	55	63	-	442	-	139.5
4	78	55	67	-	618	.14	121.5
5	80	57	69	-	573	.24	71.0
6	80	57	69	-	582	.31	64.0
7	81	57	69	-	553	.30	58.0
8	83	56	70	-	527	.30	35.1
9	80	61	71	-	253	.28	63.6
10	86	62	74	-	513	.11	44.5
11	86	65	76	-	428	.24	54.8
12	79	66	73	0.30	163	.27	74.0
13	77	62	70	-	472	.09	60.0
14	71	51	61	-	477	.33	95.5
15	79	51	65	-	635	.29	112.5
16	82	58	70	-	603	.32	56.8
17	87	55	71	-	587	.32	42.9
18	91	60	76	-	552	.28	44.5
19	92	65	79	-	431	.34	47.8
20	92	66	79	-	497	.28	44.0
21	93	68	81	-	494	.33	61.0
22	88	64	76	0.69	525	.33	72.5
23	85	66	76	-	520	-	50.7
24	88	67	78	0.09	431	.26	38.2
25	91	66	79	-	565	.17	24.1
26	93	67	80	-	580	.36	60.8
27	90	64	77	-	388	.40	43.2
28	91	70	81	-	469	.23	34.0
29	68	59	64	-	222	.47	103.9
30	71	59	65	-	173	.21	93.9
31	81	58	70	-	373	.08	45.9
Total	2554	1880	2226	2.99	14097		2023.7
Avg.	82.4	60.6	71.8				65.3

(-) No precipitation or missing evaporation data.

Table 6. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for June, 1964.

June	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	84	65	75	0.15	515	.16	46.3
2	84	59	72	-	492	.30	69.0
3	84	62	73	-	490	.38	78.0
4	86	60	73	-	533	.39	75.0
5	84	66	75	-	315	.29	58.0
6	80	68	74	0.23	308	.16	56.0
7	85	63	74	-	503	.14	60.0
8	90	65	78	-	520	.23	25.0
9	90	68	79	-	577	.33	52.0
10	94	70	82	-	457	.34	48.0
11	99	72	86	0.23	357	.31	46.0
12	95	70	83	-	524	.25	39.0
13	93	70	82	-	546	.29	59.0
14	95	70	83	-	587	.34	50.0
15	95	71	83	-	484	.38	52.0
16	95	70	83	-	517	.34	51.0
17	96	70	83	-	449	.42	56.0
18	93	68	81	-	538	.28	38.0
19	95	69	82	-	610	.31	53.0
20	97	73	85	0.07	625	.43	52.0
21	97	70	84	-	885	.30	45.4
22	94	70	82	0.20	374	.30	54.6
23	93	71	82	1.25	394	.21	34.0
24	86	69	78	0.04	384	.37	53.0
25	86	70	78	0.21	230	.20	41.0
26	85	70	78	0.90	330	.18	47.0
27	84	69	77	0.01	426	.19	54.0
28	87	70	79	-	410	.18	45.1
29	88	70	79	-	577	.18	31.9
30	90	68	79	0.05	490	.40	70.0
Total	2704	2046	2382	3.34	14447	8.58	1539.3
Avg.	90.1	68.2	79.4				51.3

(-) No precipitation or missing evaporation data.

Table 7. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for July, 1964

July	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	84	71	78	0.49	416	.28	52.0
2	86	70	78	0.02	349	.18	45.0
3	84	70	77	-	353	.13	33.0
4	81	70	76	0.35	218	.22	37.8
5	87	68	78	-	644	.10	31.9
6	88	64	76	-	553	.33	46.3
7	88	63	76	-	505	.28	22.0
8	87	67	77	0.07	414	.24	31.0
9	83	68	76	-	336	.23	63.0
10	89	71	80	1.13	399	.18	67.0
11	86	67	77	0.05	306	.39	42.6
12	85	68	77	0.28	286	.07	55.0
13	81	70	76	0.17	318	.09	86.4
14	83	65	74	-	379	.16	50.5
15	86	70	78	0.19	324	.20	39.5
16	85	70	78	-	409	.20	43.0
17	84	71	78	0.04	337	.20	60.0
18	84	70	77	0.03	434	.19	77.5
19	88	69	79	-	525	.17	38.5
20	86	72	79	1.02	353	.19	35.0
21	86	66	76	1.65	383	-	41.0
22	87	67	77	0.15	313	-	45.5
23	87	70	79	0.26	407	.19	29.5
24	89	70	80	0.56	363	.22	32.0
25	86	69	78	0.03	366	-	31.3
26	86	70	78	-	440	.27	52.1
27	87	69	78	-	446	.25	48.6
28	87	71	79	-	417	.20	31.0
29	87	67	77	-	478	.23	48.0
30	88	72	80	-	460	.22	47.0
31	90	71	81	0.22	396	.21	40.0
Total	2665	2346	2408	6.71	12327		1403.0
Avg.	86.0	75.7	77.7				45.3

(-) No precipitation or missing evaporation data.

Table 8. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for August, 1964

August	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	85	69	70	-	528	.23	37.1
2	90	70	80	-	504	.19	28.4
3	92	70	81	-	510	.24	18.3
4	87	73	80	0.13	222	.27	42.9
5	80	70	75	-	203	.12	91.2
6	83	70	77	-	314	.12	40.6
7	84	70	77	-	425	.15	44.9
8	87	67	77	-	548	.17	37.8
9	87	70	79	0.06	466	.26	38.8
10	87	69	78	0.46	411	.18	29.7
11	85	70	78	0.95	226	.23	68.2
12	85	67	76	1.82	250	.20	56.0
13	80	60	70	-	517	-	62.0
14	82	61	72	-	495	.23	47.0
15	83	64	74	-	418	.23	28.4
16	83	70	77	0.20	250	.20	42.4
17	86	70	78	-	411	.08	29.9
18	88	67	78	-	483	.20	24.3
19	90	69	80	-	471	.30	32.0
20	86	68	77	-	396	.22	31.5
21	90	68	79	0.11	381	.19	23.5
22	83	70	77	0.20	158	.19	24.4
23	87	70	79	-	494	.10	32.6
24	89	71	80	-	482	.14	40.0
25	88	66	77	-	512	.30	36.6
26	91	69	80	-	461	.17	29.2
27	91	68	80	-	434	.26	25.2
28	90	70	80	-	494	.24	38.0
29	92	69	81	-	493	.30	61.7
30	92	68	80	-	495	.26	54.1
31	94	69	82	-	450	.24	35.2
Total	2697	2122	2409	3.93	12902		1232.0
Avg.	87.0	68.5	77.7				39.7

(-) No precipitation or missing evaporation data.

Table 9. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for September, 1964

September	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	96	71	84	-	497	.33	50.5
2	95	65	80	-	442	.43	72.0
3	88	71	80	-	424	.24	47.5
4	89	67	78	-	459	.21	47.0
5	90	63	77	-	475	.25	23.8
6	90	66	78	-	437	.30	27.9
7	87	70	79	-	426	.24	58.3
8	88	65	77	-	461	.29	71.0
9	90	62	76	-	461	.30	69.0
10	89	72	81	-	316	.28	103.0
11	76	70	73	1.61	41	.24	127.5
12	75	64	70	1.32	81	-	194.2
13	80	58	69	-	396	-	98.1
14	81	61	71	-	508	.11	31.2
15	83	60	72	-	394	.18	20.0
16	82	62	72	-	455	.20	32.0
17	81	62	72	-	429	.24	59.5
18	84	64	74	-	421	.22	59.5
19	77	67	72	-	102	.20	39.1
20	84	68	76	-	459	.04	34.0
21	82	64	73	-	447	.18	41.4
22	85	63	74	-	392	.15	40.5
23	90	67	79	-	406	.17	25.0
24	85	67	76	-	369	.27	45.0
25	78	54	66	-	431	.26	61.0
26	79	56	68	-	368	.25	54.9
27	82	67	75	-	303	.16	74.1
28	85	70	78	0.02	215	.07	49.5
29	87	71	79	0.30	213	.09	41.0
30	88	68	78	0.37	392	.13	51.0
Total	2546	1954	2258	3.62	11220		^{1748.5} 4157.5
Avg.	84.9	65.1	75.3				138.6 58.3

(-) No precipitation or missing evaporation data.

Table 10. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for October, 1964

October	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	83	70	77	0.01	220	.16	49.0
2	76	67	72	-	150	.07	62.0
3	75	68	72	0.04	95	.12	38.4
4	80	70	75	2.54	126	.04	71.1
5	69	49	59	1.21	383	-	134.0
6	65	43	54	-	368	.23	108.5
7	65	41	53	-	373	.18	76.0
8	68	42	55	-	374	.17	44.5
9	74	42	58	-	378	.13	20.1
10	69	42	56	-	411	.22	64.4
11	69	47	58	-	409	.19	78.6
12	73	57	65	-	333	.18	73.9
13	74	53	64	-	235	.20	61.5
14	62	55	59	0.20	-4	.12	46.0
15	54	53	54	1.43	-16	.02	77.0
16	67	53	60	0.10	160	-	97.0
17	79	54	67	-	360	.11	60.4
18	81	53	67	-	355	.19	53.7
19	65	55	60	-	183	.15	38.9
20	60	37	49	-	295	.15	65.0
21	69	35	52	-	312	.15	37.5
22	78	40	59	-	320	.12	26.5
23	74	50	62	-	341	.16	68.0
24	69	44	57	-	321	.26	67.6
25	70	43	57	-	319	.13	29.7
26	73	43	58	-	308	.08	27.8
27	75	58	67	-	168	.16	47.4
28	78	58	68	-	228	.10	38.5
29	76	53	65	-	286	.13	21.0
30	79	54	67	-	276	.14	40.5
31	77	54	66	-	301	.13	16.6
Total	2226	1583	1912	5.53	8368		1741.1
Avg.	71.8	51.1	61.7				56.2

(-) No precipitation or missing evaporation data.

Table 11. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for November, 1964

November	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	71	51	61	-	320	.17	55.8
2	74	46	60	-	310	.13	76.1
3	75	56	66	-	237	.15	63.0
4	75	57	66	-	275	.12	53.0
5	77	47	62	-	251	.16	28.5
6	75	52	64	-	269	.14	42.0
7	75	45	60	-	217	.19	30.5
8	72	49	61	-	255	.09	25.8
9	72	46	59	-	258	.07	44.2
10	75	45	60	-	218	.12	17.5
11	74	43	59	-	245	.09	15.0
12	72	56	64	-	229	.13	29.0
13	75	58	67	0.04	70	.12	44.0
14	75	57	66	-	217	.08	13.9
15	79	61	70	-	297	.06	47.2
16	78	62	70	-	171	.07	36.9
17	78	59	69	-	130	.05	17.0
18	80	58	69	-	247	.10	27.0
19	78	62	70	0.64	245	.12	52.0
20	61	40	51	0.02	2	.22	110.0
21	54	30	42	-	216	.12	32.4
22	54	26	40	-	274	-	95.3
23	48	35	42	0.34	-11	-	78.8
24	51	39	45	1.54	-51	.03	76.5
25	49	37	43	0.06	-37	-	73.0
26	62	35	49	-	225	.09	33.7
27	69	40	55	-	238	.07	15.3
28	66	49	58	0.60	118	.17	45.3
29	65	43	54	-	243	.07	56.3
30	40	25	38	-	230	.06	61.4
Total	2049	1409	1740	3.24	5908		1396.4
Avg.	68.3	47.3	58.0				46.5

(-) No precipitation or missing evaporation data.

Table 12. Daily temperatures, precipitation, solar radiation, evaporation, and miles of wind per day for December, 1964

December	Air Temperature			Precip.	Solar Radiation	Evaporation	Wind M/D 2.5 ft.
	Max.	Min.	Mean				
1	47	21	34	-	158	-	112.0
2	58	30	44	-	175	-	26.0
3	69	43	56	0.17	95	.07	79.0
4	72	49	61	0.39	152	.09	85.0
5	51	34	43	0.04	145	.14	54.4
6	40	28	34	-	124	.11	123.9
7	50	25	38	-	207	-	83.7
8	53	26	40	-	165	-	27.0
9	61	30	46	-	153	-	24.0
10	57	43	50	-	16	.12	30.5
11	68	56	62	0.29	20	.06	37.5
12	66	56	61	0.11	158	.09	68.0
13	62	44	53	-	207	.05	-
14	52	33	43	-	208	.06	96.0
15	54	31	43	-	162	.08	55.0
16	58	32	45	-	151	.12	45.5
17	68	48	58	-	188	.05	51.5
18	61	28	45	0.25	208	.19	78.0
19	46	27	37	-	113	-	147.0
20	48	37	43	0.46	-34	-	38.8
21	49	39	44	-	7	-	30.2
22	55	44	50	-	0	.01	37.5
23	68	55	62	0.02	6	.01	66.0
24	77	58	68	2.36	72	.06	125.4
25	70	59	65	0.32	94	-	131.3
26	71	54	63	0.61	-2	.05	92.8
27	54	44	49	-	80	.10	77.5
28	60	34	47	-	189	.02	78.0
29	57	44	51	-	185	.03	43.0
30	72	45	59	-	154	.07	68.0
31	70	55	63	0.13	85	.04	24.0
Total	1844	1252	1557	5.15	3641		
Avg.	59.5	40.4	50.2				

(-) No precipitation or missing evaporation data.

Table 13. Monthly Averages for temperature, precipitation, and evaporation

Month	Temperature			Precip. Average (Inches)	Evap.* Average (Inches)
	Avg. Daily Max.	Avg. Daily Min.	Average (°F)		
January	59.0	38.9	49.0	4.80	2.56
February	61.6	40.5	51.1	5.25	3.01
March	67.8	45.7	56.8	6.13	5.26
April	75.4	52.8	64.1	4.37	6.38
May	83.3	60.4	71.9	3.55	8.07
June	89.5	67.7	78.6	4.06	8.27
July	90.0	69.9	80.0	5.34	7.56
August	89.7	69.4	79.6	4.71	6.31
September	86.7	65.4	76.1	3.20	6.18
October	77.9	54.7	66.3	2.58	4.32
November	66.7	44.3	55.5	3.48	2.99
December	58.9	39.3	49.1	5.13	1.89
Year	75.5	54.1	64.8	52.60	62.80

* Based on data from 1947 through 1950.

Table 14. Six Hourly Temperature and Relative Humidity, January 1964

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	27	96	28	97	29	96	30	100	28.5	97.3
2	24	100	22	100	45	64	40	96	32.8	90.0
3	38	85	36	100	59	62	52	96	46.3	85.8
4	50	90	47	100	51	90	46	100	48.5	95.0
5	43	58	39	48	56	55	49	100	46.8	65.3
6	46	100	45	100	51	100	53	100	48.8	100.0
7	56	100	53	100	53	76	50	96	53.0	93.0
8	51	88	52	100	56	100	57	100	54.0	97.0
9	53	100	52	100	60	82	48	60	53.3	85.5
10	34	60	28	64	42	34	38	52	35.5	52.5
11	33	58	30	58	48	44	41	96	38.0	64.0
12	37	100	38	100	42	100	42	88	39.8	97.0
13	30	62	27	66	24	48	22	65	25.8	60.3
14	20	70	18	74	31	39	32	40	25.3	55.8
15	24	60	20	78	40	30	36	36	30.0	51.0
16	27	75	30	60	39	44	34	98	32.5	69.3
17	35	94	38	100	41	100	43	94	39.3	97.0
18	41	100	40	100	50	56	45	61	44.0	79.3
19	40	96	42	100	50	96	56	80	47.0	93.0
20	51	100	51	44	56	25	47	56	51.3	56.3
21	39	86	38	62	60	21	49	34	46.5	50.8
22	41	69	37	80	60	26	54	40	48.0	53.8
23	46	80	51	73	63	70	58	95	54.5	79.5
24	57	100	58	100	61	98	63	98	59.8	99.0
25	60	92	47	73	44	36	39	48	47.5	62.3
26	33	84	28	100	55	36	46	50	40.5	67.5
27	37	86	38	88	48	58	44	88	41.8	80.0
28	37	100	37	60	48	22	40	28	40.5	52.5
29	30	50	26	53	49	36	43	52	37.0	47.8
30	36	56	32	77	55	30	48	47	42.8	52.5
31	47	47	48	62	52	100	55	100	50.5	77.3
Avg.	39.5	82.0	37.9	81.2	49.0	60.5	45.2	74.0		

Table 15. Six Hourly Temperature and Relative Humidity, February, 1964

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	52	94	47	88	50	66	46	62	48.8	77.5
2	37	72	37	74	55	29	49	54	44.5	57.3
3	45	56	40	68	54	40	49	46	47.0	52.5
4	47	45	45	47	52	40	50	44	48.5	44.0
5	49	42	48	74	50	100	54	100	50.3	79.0
6	46	67	42	73	47	64	46	78	45.3	70.5
7	41	98	41	96	52	72	38	98	43.0	91.0
8	32	93	27	90	42	37	38	46	34.8	66.5
9	31	84	30	84	54	39	46	46	40.3	63.3
10	36	80	33	82	60	23	58	27	46.8	53.0
11	38	96	32	94	41	50	40	38	37.8	69.5
12	32	46	27	72	43	42	42	50	36.0	52.5
13	42	54	42	67	51	93	51	100	46.5	78.5
14	44	86	32	88	52	33	47	56	43.8	65.8
15	46	52	46	56	54	88	52	98	49.5	73.5
16	44	76	40	60	46	44	42	56	43.0	59.0
17	35	72	32	80	52	42	52	48	42.8	60.5
18	46	100	46	98	49	94	49	77	47.5	92.3
19	44	88	37	100	45	56	37	86	40.8	82.5
20	34	83	30	100	46	45	43	52	38.3	70.0
21	32	95	28	92	43	41	39	56	35.5	71.0
22	36	77	31	81	44	41	38	48	37.3	61.8
23	28	60	24	77	43	32	38	36	33.3	51.3
24	28	84	26	91	53	30	49	60	39.0	66.3
25	45	54	36	100	38	94	43	61	40.5	77.3
26	40	98	37	100	48	71	50	78	43.8	86.8
27	45	88	44	94	46	100	47	100	45.5	95.5
28	46	98	46	100	44	48	42	46	44.5	73.0
29	35	63	30	66	50	23	44	61	39.8	53.3
Avg.	39.9	75.9	36.4	82.5	48.4	54.4	45.5	62.3		

Table 16. Six Hourly Temperature and Relative Humidity, March 1964

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	43	52	42	68	50	68	48	100	45.8	72.0
2	48	100	50	100	62	100	61	100	55.3	100.0
3	62	70	53	99	68	42	65	64	62.0	68.8
4	63	98	65	94	77	50	69	96	68.5	84.5
5	60	84	47	66	54	45	47	60	52.0	63.8
6	41	70	34	98	61	28	54	60	47.5	64.0
7	53	49	48	73	68	55	66	52	58.8	57.3
8	58	61	55	94	78	42	68	82	64.8	69.8
9	59	100	60	94	72	62	70	86	65.3	85.5
10	59	68	44	72	54	52	47	70	51.0	65.5
11	38	86	33	100	60	31	57	53	47.0	67.5
12	42	86	42	86	69	22	60	30	53.3	56.0
13	51	36	45	48	70	38	65	38	57.8	40.0
14	62	46	56	89	76	52	66	97	65.0	71.0
15	62	100	60	98	62	72	53	50	59.3	80.0
16	44	54	40	72	61	31	57	60	50.5	54.3
17	44	83	40	78	68	24	62	40	53.5	56.3
18	50	60	48	54	70	24	62	35	57.5	43.3
19	51	40	48	44	54	43	46	94	49.8	55.3
20	46	91	46	96	68	52	60	92	55.0	82.8
21	53	100	44	63	46	59	40	60	45.8	70.5
22	38	66	40	70	60	36	50	66	47.0	59.5
23	46	68	46	74	62	35	60	40	53.5	54.3
24	52	70	50	88	63	65	62	74	56.8	74.3
25	57	97	57	98	66	92	68	80	62.0	91.8
26	64	94	56	76	56	35	48	46	56.0	62.8
27	40	66	40	62	61	22	52	48	48.3	49.5
28	44	55	50	48	66	63	65	64	56.3	57.5
29	48	74	42	90	60	21	55	26	51.3	52.8
30	48	42	27	42	42	32	44	38	40.3	38.5
31	34	52	33	60	57	40	60	40	46.0	48.0
Avg.	50.3	71.5	46.5	77.2	62.6	46.2	57.6	62.6		

Table 17. Six Hourly Temperature and Relative Humidity, April 1964

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	48	66	40	100	70	38	66	68	56.0	68.0
2	54	65	48	96	72	33	66	34	60.0	57.0
3	56	63	56	97	63	90	61	91	59.0	85.3
4	59	99	58	90	78	38	73	49	67.0	69.0
5	66	86	57	98	56	92	60	76	59.8	88.0
6	60	98	62	98	55	100	64	100	60.3	99.0
7	64	100	68	100	65	92	70	100	66.8	98.0
8	72	100	66	100	62	68	58	47	64.5	78.8
9	46	64	39	70	58	34	57	46	50.0	53.5
10	44	66	43	70	66	25	62	42	53.8	50.8
11	52	44	54	48	72	22	65	38	60.8	38.0
12	60	60	60	90	71	55	62	98	63.3	75.8
13	60	99	61	80	61	100	62	96	61.0	93.8
14	60	100	60	100	62	85	63	96	61.3	95.3
15	58	100	56	100	75	22	67	26	64.0	62.0
16	56	42	56	44	76	26	70	48	64.5	40.0
17	58	72	60	78	77	39	71	44	66.5	58.3
18	56	95	58	83	77	43	73	74	66.0	73.8
19	63	88	62	74	80	37	74	64	69.8	65.8
20	63	82	60	85	82	37	78	66	70.8	67.5
21	66	73	58	95	81	38	76	52	70.3	64.5
22	64	83	64	94	72	97	70	95	67.5	92.3
23	66	100	67	100	83	47	78	59	73.5	76.5
24	63	94	67	76	83	45	76	70	72.3	71.3
25	69	96	66	98	82	48	77	73	73.5	78.8
26	68	99	62	100	63	100	64	99	64.3	99.5
27	66	100	68	98	78	67	75	98	71.8	90.8
28	69	100	68	99	73	84	69	98	69.8	95.3
29	66	100	61	94	76	40	70	72	68.3	76.5
30	60	66	60	58	76	30	68	62	66.0	54.0
Avg.	60.4	83.3	58.8	87.1	71.5	55.7	68.2	69.4		

Table 18. Six Hourly Temperature and Relative Humidity, May 1964

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	61	85	62	88	76	60	71	78	67.5	77.8
2	65	100	64	100	62	100	61	100	63.0	100.0
3	58	100	58	90	71	62	65	76	63.0	82.0
4	59	83	60	80	74	44	73	64	66.5	67.8
5	62	70	60	74	76	40	74	60	68.0	61.0
6	62	62	61	76	76	45	74	70	68.3	63.3
7	62	66	61	74	78	40	75	65	69.0	61.3
8	59	90	62	82	80	37	75	66	69.0	68.8
9	64	91	62	100	71	80	74	76	67.8	86.8
10	64	98	68	96	83	46	78	68	73.3	77.0
11	67	97	67	98	82	52	81	53	74.3	75.0
12	68	92	68	98	72	98	70	94	69.5	95.5
13	64	100	63	100	74	62	72	40	68.3	75.5
14	56	72	55	80	69	44	65	54	61.3	62.5
15	54	85	56	74	76	34	74	56	65.0	62.3
16	61	60	62	64	80	30	77	56	70.0	52.5
17	59	91	66	70	86	23	81	40	73.0	56.0
18	63	84	70	60	88	36	86	58	76.8	59.5
19	66	94	71	65	92	36	79	55	77.0	62.5
20	71	76	68	82	91	40	84	60	78.5	64.5
21	70	90	73	70	91	33	84	64	79.5	64.3
22	69	84	69	84	86	49	69	97	73.3	78.5
23	68	98	70	83	83	44	79	78	75.0	75.8
24	69	78	68	87	85	43	69	98	72.8	76.5
25	67	98	69	93	88	46	86	56	77.5	73.3
26	72	88	71	63	92	25	86	50	80.3	56.5
27	70	80	69	69	88	36	83	64	77.5	62.3
28	71	82	74	73	89	32	82	40	79.0	56.8
29	71	84	59	86	66	63	62	74	64.5	76.8
30	60	88	58	86	65	72	64	88	61.8	83.5
31	59	98	66	76	76	53	73	66	68.5	73.3
Avg.	64.2	85.9	64.8	81.3	79.5	48.5	75.0	66.6		

Table 19. Six Hourly Temperature and Relative Humidity, June 1964

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	66	98	71	72	82	44	80	52	74.8	66.5
2	66	88	63	90	82	34	80	40	72.8	63.0
3	66	52	66	56	83	32	80	42	73.8	45.5
4	67	56	66	64	84	33	84	46	75.3	49.8
5	70	60	70	78	83	47	78	74	75.3	64.8
6	72	64	68	91	74	74	76	77	72.5	76.5
7	67	98	69	86	85	45	84	60	76.3	72.3
8	67	96	73	90	89	41	82	57	77.8	71.0
9	74	80	69	93	88	36	87	43	79.5	63.0
10	73	91	72	99	90	48	90	50	81.3	72.0
11	76	93	74	97	95	40	80	87	81.3	79.3
12	73	97	72	93	93	45	78	77	79.0	78.0
13	74	92	74	93	91	42	87	52	81.5	69.8
14	74	90	75	81	93	35	88	45	82.5	62.8
15	75	76	78	80	94	40	90	54	84.3	62.5
16	76	86	78	78	96	35	85	57	83.8	64.0
17	74	88	80	64	94	36	80	74	82.0	65.5
18	72	96	78	80	92	38	88	46	82.5	65.0
19	75	86	78	83	94	37	91	46	84.5	63.0
20	79	83	80	77	95	38	77	92	82.8	72.5
21	73	98	82	74	99	34	82	73	84.0	69.8
22	73	90	78	76	90	72	78	78	79.8	79.0
23	72	74	74	82	92	46	70	99	77.0	75.3
24	70	98	71	94	84	60	78	65	75.8	79.3
25	71	99	72	90	84	60	77	89	76.0	84.5
26	70	100	71	94	75	81	70	100	71.5	93.8
27	70	100	71	94	81	65	77	76	74.8	83.8
28	71	98	76	80	86	44	76	93	77.3	78.8
29	72	100	76	73	85	43	83	44	79.0	65.0
30	73	50	70	84	84	52	82	66	77.3	63.0
Avg.	71.7	85.9	73.2	82.9	87.9	45.9	81.3	65.1		

Table 20. Six Hourly Temperature and Relative Humidity, July 1964

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	71	100	71	100	81	74	75	100	74.5	93.5
2	70	100	70	100	84	66	74	100	74.5	91.5
3	70	100	74	96	80	76	76	94	75.0	91.5
4	69	100	71	100	75	92	70	100	71.3	98.0
5	69	100	74	73	84	43	78	69	76.3	71.3
6	67	71	74	75	86	46	80	74	76.8	66.5
7	68	100	66	90	85	45	82	70	75.3	76.3
8	69	100	71	85	83	62	69	100	73.0	86.8
9	69	100	70	100	80	80	79	96	74.5	94.0
10	72	100	74	96	90	59	75	100	77.8	88.8
11	68	100	72	100	87	65	70	100	74.3	91.3
12	69	100	70	100	78	100	76	100	73.3	100.0
13	73	100	71	100	78	80	75	94	74.3	93.5
14	67	100	68	100	81	100	76	94	73.0	98.5
15	70	100	71	100	82	68	82	88	76.3	89.0
16	70	100	72	100	82	71	79	78	75.8	87.3
17	73	90	71	100	79	73	70	100	73.3	90.8
18	70	100	70	100	81	74	78	95	74.8	92.3
19	70	100	70	100	87	58	78	99	76.3	89.3
20	72	100	73	100	79	86	73	100	74.3	96.5
21	73	100	71	100	82	84	80	100	76.5	96.0
22	67	100	69	100	86	73	73	100	73.8	93.3
23	70	100	71	100	86	74	73	100	75.0	93.5
24	71	100	72	100	87	72	75	98	76.3	92.5
25	70	100	70	100	82	75	76	100	74.5	93.8
26	71	100	70	100	82	68	81	75	76.0	85.8
27	71	100	72	96	82	58	83	84	77.0	84.5
28	72	100	72	100	87	62	74	100	76.3	90.5
29	69	100	69	100	82	69	81	80	75.3	87.3
30	72	100	72	100	85	61	75	84	76.0	86.3
31	73	100	74	100	86	58	72	100	76.3	89.5
Avg.	70.2	98.7	71.1	97.1	82.9	70.1	76.1	92.6		

Table 21. Six Hourly Temperature and Relative Humidity, August 1964

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	100	71	100	82	71	82	87	76.3	89.5
2	72	100	72	100	88	58	85	76	79.3	83.5
3	72	100	71	100	90	54	87	75	80.0	82.3
4	76	100	74	100	83	86	79	96	78.0	95.5
5	70	100	71	100	77	90	75	100	73.3	97.5
6	72	100	72	100	77	84	78	98	74.8	95.5
7	70	100	71	100	82	78	74	100	74.3	94.5
8	68	100	70	100	85	62	76	91	74.8	88.3
9	70	100	70	100	85	65	75	100	75.0	91.3
10	69	100	72	100	80	80	78	100	74.8	95.0
11	72	100	72	100	84	80	74	100	75.5	95.0
12	73	100	74	100	80	85	72	100	74.8	96.3
13	67	100	61	86	76	52	71	74	68.8	78.0
14	64	78	62	86	80	48	73	85	69.8	74.3
15	66	88	68	100	81	60	74	100	72.3	87.0
16	71	100	70	100	80	81	76	99	74.3	95.0
17	72	100	72	95	82	62	80	92	76.5	87.3
18	70	100	69	96	86	50	78	79	75.8	81.3
19	71	90	74	80	87	50	77	88	77.3	77.0
20	67	100	69	100	82	66	80	90	74.5	89.0
21	72	100	71	100	88	58	74	100	76.3	89.5
22	70	100	69	100	81	90	71	100	72.8	97.5
23	71	100	70	100	84	64	80	96	76.3	90.0
24	72	100	70	100	87	57	80	85	77.3	85.5
25	70	79	69	73	87	38	78	85	76.0	68.8
26	69	100	71	82	90	44	79	88	77.3	78.5
27	70	100	73	87	90	48	77	82	77.5	79.3
28	73	96	74	90	88	50	77	84	78.0	80.0
29	70	100	72	88	88	47	77	88	76.8	80.8
30	68	100	72	88	90	43	84	80	78.5	77.8
31	73	87	70	91	93	45	85	84	80.3	76.8
Avg.	70.3	97.4	70.5	94.9	84.3	62.8	77.6	90.4		

Table 22. Six Hourly Temperature and Relative Humidity, September 1964

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	75	86	74	72	94	28	81	46	81.0	58.0
2	70	62	67	85	92	43	79	76	77.0	66.5
3	71	98	73	96	85	58	75	86	76.0	84.5
4	70	80	72	86	86	48	75	73	75.8	71.8
5	64	100	72	78	88	41	74	90	74.5	77.3
6	66	95	74	71	88	42	74	79	75.5	71.8
7	72	82	72	88	85	50	78	70	76.8	72.5
8	71	79	65	94	86	49	75	62	74.3	71.0
9	65	74	64	86	86	52	80	66	73.8	69.5
10	74	83	71	96	86	58	78	78	77.3	78.8
11	74	90	73	100	73	100	70	100	72.5	97.5
12	70	100	70	100	72	98	70	88	70.5	96.5
13	64	74	59	78	78	55	70	98	67.8	76.3
14	63	100	61	100	88	57	72	94	71.0	87.8
15	61	100	61	100	80	48	74	92	69.0	85.0
16	67	86	63	98	80	48	70	78	70.0	77.5
17	66	84	63	92	78	50	69	89	69.0	78.8
18	66	96	68	94	82	58	73	89	72.3	84.3
19	69	91	68	100	76	84	72	98	71.3	93.3
20	70	98	70	98	82	60	74	91	74.0	86.8
21	68	92	65	100	80	64	72	90	71.3	86.5
22	66	100	64	90	82	53	76	92	72.0	83.8
23	69	100	68	92	88	47	79	73	76.0	78.0
24	73	94	67	90	82	36	68	70	72.5	62.5
25	59	54	57	60	76	34	62	86	63.5	58.5
26	58	71	60	80	78	55	70	84	66.5	72.5
27	67	100	68	100	77	76	72	100	71.0	94.0
28	70	100	70	100	82	66	77	98	74.8	91.0
29	73	100	71	100	73	65	74	94	72.8	89.8
30	70	100	68	100	86	58	71	100	73.8	89.5
Avg.	68.0	89.0	67.3	90.8	82.3	56.0	73.5	84.3		

Table 23. Six Hourly Temperature and Relative Humidity, October 1964

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	71	100	78	82	73	100	72.8	95.5
2	69	100	67	100	75	84	71	100	70.5	96.0
3	69	100	69	100	75	94	73	100	71.5	98.5
4	72	100	72	100	79	85	66	100	72.3	96.3
5	52	100	50	92	68	37	57	54	56.8	70.8
6	47	71	43	88	63	41	53	62	51.5	65.5
7	45	81	43	90	63	38	50	96	50.3	76.3
8	47	75	44	87	66	38	51	100	52.0	75.0
9	44	100	48	97	72	37	60	78	56.0	78.0
10	50	78	45	78	67	32	54	54	54.0	60.5
11	47	68	49	76	65	36	55	64	54.0	61.0
12	53	74	50	84	71	57	63	88	59.3	75.8
13	57	90	53	91	72	53	63	76	61.3	77.5
14	59	86	55	96	59	85	52	99	56.3	91.5
15	52	100	53	100	53	100	53	100	52.8	100.0
16	53	100	53	100	64	64	58	38	57.0	88.0
17	55	90	56	86	78	32	63	67	63.0	68.8
18	56	82	58	66	81	32	66	82	65.3	65.5
19	60	100	55	88	64	44	48	92	56.8	81.0
20	43	72	37	80	59	26	46	80	46.3	64.5
21	37	100	37	100	66	24	52	73	48.0	74.3
22	44	92	42	100	76	28	58	85	55.0	76.3
23	55	76	50	60	73	26	58	46	59.0	52.0
24	46	67	47	86	66	38	49	99	52.0	72.5
25	48	80	47	78	67	37	51	78	53.3	68.3
26	46	81	50	76	71	40	59	100	56.5	74.3
27	60	73	58	95	73	64	65	92	64.0	81.0
28	62	90	58	100	75	37	62	89	64.3	79.0
29	55	100	54	100	73	48	62	71	61.0	79.8
30	57	86	56	100	78	44	61	98	63.0	82.0
31	55	100	56	94	76	37	63	62	62.5	73.3
Avg.	53.7	87.5	52.5	89.9	69.9	49.0	58.5	83.0		

Table 24. Six Hourly Temperature and Relative Humidity, November 1964

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	57	89	52	98	70	32	57	62	59.0	70.3
2	50	76	48	84	72	49	61	80	57.8	72.3
3	59	85	56	86	74	54	63	80	63.0	76.3
4	58	90	56	96	74	48	60	79	62.0	78.3
5	52	100	48	98	76	35	61	70	59.3	75.8
6	55	75	52	80	74	34	55	82	59.0	67.8
7	51	90	52	100	72	38	62	99	59.3	81.8
8	58	96	50	100	71	40	57	76	59.0	78.0
9	50	96	50	92	72	37	53	86	56.3	77.8
10	49	87	58	60	75	29	51	93	58.3	67.3
11	46	100	58	71	73	40	56	92	58.3	75.8
12	57	97	64	79	76	46	63	88	65.0	77.5
13	63	100	65	100	74	66	60	100	65.5	91.5
14	58	100	65	100	73	76	67	100	65.8	94.0
15	63	100	67	90	76	58	63	100	67.3	87.0
16	62	100	62	100	72	72	65	100	65.3	93.0
17	60	100	59	100	76	56	67	88	65.5	86.0
18	63	100	60	100	78	54	67	84	67.0	84.5
19	62	100	64	100	76	50	66	88	67.0	84.5
20	62	100	43	92	44	68	44	70	48.3	82.5
21	41	87	38	95	53	36	42	38	43.5	64.0
22	31	56	27	58	49	29	42	42	37.3	46.3
23	37	47	36	46	46	40	38	100	39.3	58.3
24	39	100	41	100	47	100	50	100	44.3	100.0
25	50	100	48	100	49	89	47	92	48.5	95.3
26	39	100	36	100	60	58	49	100	46.0	89.5
27	42	100	40	100	68	40	56	68	51.5	77.0
28	49	96	51	100	63	78	58	100	55.3	93.5
29	52	100	43	58	63	25	52	46	52.5	57.3
30	40	79	35	77	42	40	32	44	37.3	60.0
Avg.	51.8	91.5	50.8	88.7	66.3	50.6	55.5	81.6		

Table 25. Six Hourly Temperature and Relative Humidity, December 1964

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	62	22	75	42	32	34	58	31.0	56.8
2	30	62	30	58	54	34	46	44	40.0	49.5
3	44	98	52	100	66	86	64	97	56.5	95.3
4	63	100	64	100	69	84	60	100	64.0	96.0
5	50	100	45	100	51	71	38	86	46.0	89.3
6	35	88	34	83	40	68	31	88	35.0	81.8
7	28	94	26	88	48	36	40	58	35.5	69.0
8	34	67	26	100	50	41	43	57	38.3	66.3
9	39	63	30	100	58	34	47	81	43.5	69.5
10	48	62	48	61	54	63	55	76	51.3	65.5
11	56	92	55	98	65	78	64	100	60.0	92.0
12	57	100	55	100	62	75	52	100	56.5	93.8
13	47	100	50	100	58	70	50	100	51.3	92.5
14	43	90	32	70	48	30	45	51	42.0	60.3
15	35	69	32	76	50	36	46	54	40.8	58.8
16	36	50	34	62	51	53	50	64	42.8	57.3
17	49	78	51	92	61	74	62	78	55.8	80.5
18	60	79	35	84	40	34	35	35	42.5	58.0
19	30	46	28	42	42	52	43	58	35.8	49.5
20	42	95	40	100	42	100	46	100	42.5	98.8
21	46	100	44	100	48	98	45	100	45.8	99.5
22	44	100	45	100	52	98	54	100	48.8	99.5
23	55	100	57	100	66	88	65	92	60.8	95.0
24	64	100	65	100	74	62	67	100	67.5	90.5
25	59	100	61	100	69	92	66	100	63.8	98.0
26	68	100	67	100	65	100	62	100	65.5	100.0
27	55	100	46	100	47	90	41	100	47.3	97.5
28	38	100	34	100	51	62	46	100	42.3	90.5
29	47	77	44	100	56	77	48	100	48.8	88.5
30	48	96	47	100	67	61	63	96	56.3	88.3
31	56	100	58	100	68	87	63	100	61.3	96.8
Avg.	46.2	86.1	43.8	90.0	55.3	66.6	50.7	83.0		

Table 26. Soil Temperature and Wind, January 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	37	36	35	34	36	36	W	71
2	47	34	44	33	41	35	W	40
3	55	34	52	33	47	35	W	73
4	51	34	49	36	47	38	N	58
5	55	45	52	42	49	44	E	116
6	51	47	50	44	50	43	SE	159
7	55	47	54	45	52	46	W	77
8	54	50	53	51	53	49	E	166
9	59	51	57	51	55	52	NW	211
10	48	38	47	38	46	43	N	118
11	46	34	45	36	43	40	E	152
12	45	35	44	36	44	39	W	154
13	35	32	36	35	39	38	NW	299
14	33	30	33	32	36	36	N	136
15	32	28	33	32	36	35	N	49
16	38	30	36	32	36	35	NE	129
17	43	32	42	33	40	35	NE	200
18	52	37	50	37	46	37	S	83
19	44	40	41	40	43	39	S	57
20	54	53	53	51	51	49	NW	138
21	58	38	55	39	50	42	NW	102
22	56	37	53	37	50	41	E	55
23	65	39	61	40	55	42	E	58
24	62	49	61	48	58	47	S	209
25	52	50	52	52	55	54	W	168
26	58	41	56	39	51	43	W	59
27	46	41	46	40	46	43	W	36
28	48	37	48	39	47	42	N	175
29	53	30	50	34	45	35	E	114
30	57	35	54	33	49	38	E	51
31	52	35	50	36	49	39	S	110
Total	1541	1199	1492	1208	1445	1270		
Avg.	49.7	38.7	48.1	39.0	46.6	41.0		

Table 27. Soil Temperature and Wind, February 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl. Dir.	Miles Per Day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	52	46	52	44	51	46	W	147
2	55	42	52	40	49	43	N	95
3	52	40	50	41	48	43	E	140
4	52	39	50	38	49	44	E	149
5	51	42	50	41	49	45	E	222
6	54	45	52	44	47	46	W	176
7	51	44	49	43	47	45	W	123
8	52	36	50	37	46	40	W	113
9	54	35	51	37	47	39	W	131
10	55	34	52	35	48	38	SW	197
11	51	37	50	36	47	40	N	177
12	45	30	43	36	42	39	SE	124
13	48	33	47	33	46	38	S	144
14	59	33	56	39	51	41	N	131
15	51	38	50	38	48	42	SE	200
16	54	42	52	43	49	44	N	200
17	56	34	53	36	49	40	E	159
18	54	35	51	35	49	40	W	188
19	49	40	48	42	46	45	W	193
20	54	32	51	36	51	39	NW	140
21	48	33	45	34	49	43	N	99
22	54	33	52	35	47	39	N	118
23	53	33	50	35	45	38	N	87
24	54	31	52	34	47	38	W	61
25	48	34	46	33	44	37	N	147
26	57	40	54	38	49	41	W	77
27	47	39	46	38	46	41	E	119
28	50	44	49	44	47	45	NW	209
29	55	34	52	37	48	39	N	82
Total	1515	1078	1455	1102	1381	1198		
Avg.	52.2	37.2	50.2	38.0	47.6	41.3		

Table 28. Soil Temperature and Wind, March 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	48	34	48	35	46	39	S	75
2	56	45	54	43	52	44	E	155
3	69	47	66	45	60	45	S	103
4	69	55	67	54	62	52	S	327
5	63	50	61	52	58	56	W	167
6	64	40	64	44	59	48	SE	68
7	69	44	65	44	60	45	E	132
8	74	56	74	52	64	50	S	172
9	69	59	66	57	63	55	S	278
10	65	50	60	52	59	56	W	220
11	70	42	62	45	58	49	N	55
12	73	47	65	44	60	48	N	109
13	74	48	65	48	61	50	SE	155
14	72	48	67	48	63	51	SW	167
15	66	63	63	58	63	58	N	165
16	69	46	62	48	60	52	NE	104
17	70	47	64	47	61	51	NW	95
18	72	49	65	48	62	52	N	111
19	55	52	54	50	55	52	E	227
20	67	51	66	51	62	53	E	87
21	53	50	52	51	54	52	NW	254
22	68	41	62	44	57	46	N	93
23	68	47	61	48	59	47	S	106
24	66	47	61	47	59	49	S	112
25	66	54	63	53	61	51	S	165
26	66	58	62	57	61	58	NW	184
27	73	43	65	45	61	49	NE	89
28	73	48	65	46	62	49	E	108
29	68	48	63	50	61	52	NW	193
30	60	38	55	43	53	48	N	181
31	65	39	59	40	56	45	W	120
Total	2060	1186	1926	1189	1832	1552		
Avg.	66.5	47.9	62.1	48.4	59.1	50.1		

Table 29. Soil Temperature and Wind, April 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	70	44	64	42	60	44	W	70
2	71	51	65	47	61	48	S	167
3	68	54	62	51	59	53	S	89
4	82	58	74	55	69	56	E	110
5	62	61	60	61	62	58	E	223
6	66	59	63	59	62	62	SE	186
7	77	57	75	57	69	59	S	159
8	72	69	68	68	67	60	NW	143
9	70	47	65	50	62	53	N	150
10	74	46	67	50	63	52	N	109
11	74	50	67	49	65	49	E	136
12	69	57	63	58	62	57	SE	187
13	69	62	62	59	62	57	SE	146
14	69	61	62	60	62	60	S	62
15	76	60	70	60	68	60	N	131
16	78	52	67	55	67	57	SE	119
17	85	56	72	55	70	55	SE	115
18	83	59	75	60	72	58	SW	73
19	86	59	79	60	75	57	S	66
20	87	63	78	65	76	64	SW	83
21	87	63	78	65	77	65	S	97
22	79	66	79	66	72	65	S	60
23	88	69	80	67	77	66	SW	121
24	93	65	85	66	80	68	SW	73
25	94	69	88	68	84	67	W	129
26	68	68	68	68	70	71	E	239
27	81	67	75	66	74	68	S	165
28	76	66	72	66	71	67	S	146
29	85	65	78	66	76	68	N	86
30	84	58	77	60	75	64	N	83
Total	2323	1781	2138	1779	2069	1788		
Avg.	77.4	59.4	71.3	59.3	69.0	59.6		

Table 30. Soil Temperature and Wind, May 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	84	64	76	61	74	62	E	161
2	66	65	67	65	68	66	E	209
3	74	61	69	63	68	64	NE	189
4	82	59	75	60	72	61	E	145
5	84	60	77	60	74	61	E	109
6	85	61	77	62	75	63	E	108
7	88	62	79	62	77	64	S	69
8	88	64	80	63	78	64	SW	68
9	82	66	77	67	75	64	W	68
10	92	68	86	68	82	68	W	68
11	94	71	85	71	83	68	SW	86
12	87	74	80	70	78	72	SW	85
13	85	68	80	70	77	71	W	134
14	82	60	77	63	75	65	N	157
15	90	59	83	61	79	64	E	123
16	94	62	86	61	82	63	E	77
17	98	65	88	65	85	66	N	51
18	99	69	91	72	87	73	N	75
19	101	72	92	72	87	73	E	69
20	100	74	90	75	88	75	W	77
21	104	75	95	75	91	77	N	113
22	101	74	95	76	91	78	E	104
23	92	73	86	75	84	77	E	75
24	97	74	89	75	86	75	S	55
25	100	73	93	75	89	74	W	76
26	103	74	95	75	91	75	N	91
27	98	74	91	75	88	76	W	48
28	99	76	93	76	90	78	W	120
29	99	75	92	76	90	80	NW	165
30	79	71	75	72	76	74	E	76
31	89	67	83	69	81	72	E	87
Total	2816	2110	2602	2130	2521	2163		
Avg.	90.8	68.1	83.9	68.7	81.3	69.8		

Table 31. Soil Temperature and Wind, June 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	93	72	86	72	84	72	W	107
2	95	69	88	71	85	74	NW	115
3	97	69	90	70	87	74	NW	110
4	97	70	90	72	87	73	NE	94
5	91	73	86	73	84	75	E	97
6	86	74	80	74	79	77	E	115
7	96	70	88	71	85	74	W	47
8	101	73	93	74	89	75	SW	68
9	104	76	96	76	93	76	W	76
10	105	78	98	78	94	79	W	76
11	105	80	98	78	93	80	W	66
12	104	77	97	78	93	81	E	89
13	105	78	98	78	94	80	W	70
14	108	80	100	80	96	81	W	78
15	105	81	98	82	95	83	W	76
16	108	82	100	82	97	84	N	106
17	109	82	101	83	96	84	E	55
18	107	80	99	82	95	85	SW	77
19	109	82	101	82	97	84	W	80
20	112	83	100	84	95	86	W	72
21	110	79	110	81	96	84	N	90
22	104	81	95	83	91	85	W	67
23	105	78	97	80	93	82	E	84
24	95	76	90	77	87	80	N	68
25	93	77	86	77	84	80	E	79
26	92	75	86	76	85	78	E	92
27	90	76	86	75	85	78	E	93
28	92	76	86	75	84	79	E	70
29	92	76	87	77	85	79	E	113
30	94	71	88	74	86	76	E	110
Total	3004	2294	2798	2315	2694	2378		
Avg.	100.1	76.5	93.3	77.2	89.8	79.3		

Table 32. Soil Temperature and Wind, July 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	93	77	87	74	85	75	E	98
2	96	76	88	76	85	79	S	61
3	91	75	85	76	84	78	W	71
4	87	77	82	77	81	78	S	46
5	93	74	87	75	85	77	N	97
6	97	70	90	73	87	75	E	59
7	98	72	90	74	87	75	W	50
8	97	74	95	74	89	75	W	95
9	90	78	85	75	84	76	W	109
10	101	76	94	76	89	77	W	83
11	95	74	88	75	85	78	W	73
12	87	74	82	75	80	77	W	123
13	87	75	82	75	81	75	W	122
14	91	72	85	74	83	75	W	61
15	93	75	86	76	83	76	E	80
16	90	75	85	75	83	76	E	99
17	90	75	85	75	83	76	E	143
18	92	75	87	74	85	77	E	94
19	98	76	90	76	86	77	S	62
20	96	78	89	78	86	69	S	93
21	93	77	87	77	85	79	W	84
22	95	74	88	75	85	77	W	67
23	95	75	88	75	86	76	SW	70
24	96	76	90	74	87	76	S	51
25	94	77	88	76	86	79	E	77
26	92	75	86	77	84	78	E	102
27	95	75	87	76	85	77	E	68
28	95	77	90	77	87	78	S	81
29	94	75	88	77	87	79	W	81
30	95	76	89	76	89	78	W	74
31	99	77	94	77	90	80	W	66
Total	2905	2332	2717	2340	2642	2378		
Avg.	93.7	75.2	87.6	75.5	85.2	76.7		

Table 33. Soil Temperature and Wind, August 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	96	77	90	78	88	80	E	55
2	101	77	95	78	91	79	S	38
3	104	78	98	79	94	79	W	70
4	92	80	87	81	86	82	W	77
5	87	76	84	78	83	81	E	84
6	93	77	87	77	85	79	E	92
7	96	75	90	77	88	79	E	89
8	100	75	94	77	91	78	S	69
9	102	78	96	78	91	79	S	59
10	94	76	88	77	86	80	S	110
11	90	78	84	78	83	80	W	105
12	89	76	84	76	83	79	W	112
13	88	69	83	71	82	75	N	110
14	90	68	84	70	82	73	N	70
15	91	70	85	69	84	72	E	73
16	86	76	82	73	81	74	W	79
17	92	74	86	75	84	77	N	62
18	96	73	88	74	86	76	N	61
19	97	75	90	75	87	77	E	61
20	96	75	90	76	87	78	SE	66
21	98	75	92	75	89	78	S	46
22	89	76	83	77	82	79	S	67
23	95	75	89	76	86	78	W	78
24	100	77	92	77	89	78	N	77
25	101	72	94	75	90	78	N	80
26	105	76	97	76	93	77	N	60
27	105	77	97	78	94	80	E	64
28	105	77	104	79	96	81	NE	104
29	104	77	98	79	94	81	N	127
30	107	77	99	79	95	82	NW	92
31	108	79	101	81	97	82	N	84
Total	2997	2341	2811	2369	2727	2431		
Avg.	96.7	75.5	90.7	76.4	88.0	78.4		

Table 34. Soil Temperature and Wind, September 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	110	79	102	81	97	83	N	120
2	110	76	101	79	97	83	E	98
3	104	79	97	80	94	82	E	112
4	105	77	98	80	95	83	E	69
5	106	76	99	78	95	82	E	61
6	106	78	98	79	94	82	E	97
7	101	79	94	80	93	82	E	137
8	103	76	96	78	93	82	NE	118
9	103	73	95	76	92	80	NE	169
10	100	77	92	76	90	78	N	200
11	79	79	80	79	83	82	N	259
12	75	74	74	74	76	77	N	206
13	87	65	80	67	78	71	N	96
14	90	68	84	68	81	70	E	62
15	90	77	83	78	82	71	E	67
16	86	68	82	70	80	71	E	117
17	86	66	81	68	79	71	E	138
18	90	68	84	68	81	71	E	99
19	79	72	77	70	77	73	E	79
20	91	72	84	73	82	73	E	83
21	92	69	86	70	83	72	NE	101
22	96	69	88	70	85	72	E	62
23	100	72	93	70	89	72	W	92
24	97	74	90	74	87	76	N	119
25	95	64	87	67	85	72	NE	122
26	95	65	88	66	85	71	E	137
27	92	65	85	66	83	70	E	114
28	93	74	86	74	84	75	S	96
29	94	75	88	74	85	75	S	86
30	93	73	86	74	84	76	E	94
Total	2848	2179	2658	2207	2589	2278		
Avg.	94.9	72.6	88.6	73.6	86.3	74.8		

Table 35. Soil Temperature and Wind, October 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl. Dir.	Miles. Per Day
	Max.	Min.	Max.	Min.	Max.	Min.		
1	95	74	82	74	81	75	E	112
2	83	73	78	73	78	75	E	88
3	78	75	76	72	75	75	E	122
4	82	74	77	73	76	75	S	199
5	73	59	69	60	70	74	N	238
6	74	51	68	55	62	58	N	143
7	73	49	67	53	66	56	NE	116
8	76	50	70	52	67	55	N	59
9	79	51	73	53	70	56	N	79
10	76	50	70	55	68	57	N	151
11	76	51	70	50	68	57	E	148
12	80	56	73	54	70	55	E	126
13	77	58	71	58	69	59	E	97
14	63	60	62	61	62	63	E	118
15	59	59	58	59	60	60	N	188
16	69	58	63	57	62	59	NW	133
17	75	55	69	56	67	58	NW	128
18	80	56	73	57	70	58	W	79
19	72	60	67	58	66	59	N	134
20	67	46	62	49	61	52	N	96
21	72	46	66	49	63	51	W	45
22	77	49	70	48	67	50	NW	46
23	77	52	71	52	68	53	N	130
24	77	50	70	53	67	56	E	93
25	77	51	70	53	75	56	E	71
26	79	50	71	53	68	67	E	92
27	71	53	71	53	69	55	E	106
28	81	61	75	61	71	61	E	59
29	81	59	75	60	72	63	N	78
30	84	59	76	60	74	62	N	57
31	84	60	78	59	74	62	E	70
Total	2367	1755	2191	1780	2136	1872		
Avg.	76.4	56.6	70.7	57.4	68.9	60.4		

Table 36. Soil Temperature and Wind, November 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	81	68	75	60	71	63	E	115
2	82	55	75	57	71	60	NE	116
3	83	56	75	56	75	58	NE	114
4	83	60	77	61	74	63	E	89
5	83	55	76	58	72	61	N	67
6	83	56	76	57	73	60	N	88
7	80	56	74	58	71	60	SW	54
8	82	59	75	61	71	61	N	83
9	80	54	73	57	70	60	N	67
10	80	53	73	56	70	59	S	40
11	80	53	78	55	75	58	S	47
12	81	56	75	56	72	57	S	77
13	76	62	72	62	70	63	S	45
14	77	62	72	63	71	65	E	85
15	85	62	78	63	75	65	E	106
16	81	66	76	65	73	66	W	52
17	80	63	75	64	72	66	W	62
18	84	64	78	63	75	65	W	76
19	80	65	75	64	73	66	SW	178
20	58	54	57	56	61	61	NW	127
21	63	47	59	50	58	53	N	137
22	59	37	53	41	52	44	NE	164
23	48	38	45	39	47	43	E	143
24	51	40	49	41	57	44	E	137
25	53	46	52	45	52	47	W	107
26	65	44	59	45	57	47	W	34
27	68	46	62	45	59	45	SE	64
28	68	48	61	47	60	48	SE	104
29	65	49	59	50	58	53	N	129
30	52	42	50	44	50	48	N	227
Total	2191	1616	2034	1639	1985	1709		
Avg.	73.0	53.9	67.8	54.3	66.2	57.0		

Table 37. Soil Temperature and Wind, December 1964

Date	Soil Temperature						Wind at 12'	
	5 Cm.		10 Cm.		20 Cm.		Prvl.	Miles
	Max.	Min.	Max.	Min.	Max.	Min.	Dir.	Per Day
1	53	35	48	38	47	41	E	72
2	56	36	49	36	48	38	SE	126
3	61	36	59	37	58	39	S	163
4	70	49	66	46	63	46	S	112
5	62	53	57	53	57	55	NW	204
6	50	43	48	45	48	47	N	165
7	50	37	50	39	48	41	N	89
8	56	36	50	37	49	40	W	54
9	60	36	54	37	51	40	E	47
10	55	40	53	40	52	41	E	233
11	61	47	57	47	57	48	SE	226
12	71	55	63	53	62	52	NW	57
13	66	55	60	55	60	56	NW	121
14	57	42	53	45	52	48	N	137
15	58	38	53	40	51	43	N	70
16	58	38	52	39	50	42	E	107
17	65	38	58	38	57	40	E	74
18	53	44	50	46	50	50	N	249
19	47	37	43	38	44	41	E	184
20	51	37	47	37	47	40	NE	62
21	53	45	49	43	50	45	E	65
22	57	49	53	47	53	48	S	83
23	62	49	59	47	58	48	SW	156
24	69	57	64	51	62	53	SW	214
25	70	62	66	57	63	59	S	116
26	68	63	65	60	64	60	S	110
27	60	56	57	56	57	58	NW	142
28	63	45	57	46	55	48	N	66
29	62	45	57	45	55	49	E	137
30	68	46	61	45	59	48	E	62
31	78	50	64	48	63	50	NE	47
Total	1870	1399	1722	1391	1690	1454		
Avg.	60.3	45.1	55.5	44.9	54.5	46.9		

Table 39. Cooling Degree Days 1964 - Base 75°

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	0	0	0	0	3	0	9	2	0	0
2	0	0	0	0	0	0	3	5	5	0	0	0
3	0	0	0	0	0	0	2	6	5	0	0	0
4	0	0	0	0	0	0	1	5	3	0	0	0
5	0	0	0	0	0	0	3	0	2	0	0	0
6	0	0	0	0	0	0	1	2	3	0	0	0
7	0	0	0	0	0	0	1	2	4	0	0	0
8	0	0	0	0	0	3	2	2	2	0	0	0
9	0	0	0	0	0	4	1	4	1	0	0	0
10	0	0	0	0	0	7	5	3	6	0	0	0
11	0	0	0	0	1	11	2	3	0	0	0	0
12	0	0	0	0	0	8	2	1	0	0	0	0
13	0	0	0	0	0	7	1	0	0	0	0	0
14	0	0	0	0	0	8	0	0	0	0	0	0
15	0	0	0	0	0	8	3	0	0	0	0	0
16	0	0	0	0	0	8	3	2	0	0	0	0
17	0	0	0	0	0	8	3	3	0	0	0	0
18	0	0	0	0	1	6	2	3	0	0	0	0
19	0	0	0	0	4	7	4	5	0	0	0	0
20	0	0	0	0	4	10	4	2	1	0	0	0
21	0	0	0	0	6	9	1	4	0	0	0	0
22	0	0	0	0	1	7	2	2	0	0	0	0
23	0	0	0	0	1	7	4	4	4	0	0	0
24	0	0	0	0	3	3	5	5	1	0	0	0
25	0	0	0	0	4	3	3	2	0	0	0	0
26	0	0	0	0	5	3	3	5	0	0	0	0
27	0	0	0	0	2	2	3	5	0	0	0	0
28	0	0	0	0	6	4	4	5	3	0	0	0
29	0	0	0	0	0	4	2	6	4	0	0	0
30	0	0	0	0	0	4	5	5	3	0	0	0
31	0	0	0	0	0	4	6	7	0	0	0	0
Total	0	0	0	0	38	111	84	98	56	2	0	0

Table 40. Heating Degree Days 1964 - Base 65°

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35	18	19	19	0	0	0	0	0	0	4	31
2	27	20	8	4	5	0	0	0	0	0	5	21
3	17	18	2	5	2	0	0	0	0	0	0	9
4	16	15	0	0	0	0	0	0	0	0	0	4
5	16	14	15	6	0	0	0	0	0	6	3	22
6	14	19	17	7	0	0	0	0	0	11	1	31
7	13	23	7	0	0	0	0	0	0	12	5	27
8	10	30	0	7	0	0	0	0	0	10	4	25
9	17	22	0	14	0	0	0	0	0	7	6	19
10	29	18	16	11	0	0	0	0	0	9	5	15
11	27	26	17	3	0	0	0	0	0	7	6	3
12	29	29	10	0	0	0	0	0	0	0	1	4
13	40	17	5	0	0	0	0	0	0	1	0	12
14	38	21	0	3	4	0	0	0	0	6	0	22
15	34	19	9	0	0	0	0	0	0	11	0	22
16	31	23	13	0	0	0	0	0	0	5	0	20
17	25	20	10	0	0	0	0	0	0	0	0	7
18	19	16	6	0	0	0	0	0	0	0	0	20
19	15	25	14	0	0	0	0	0	0	5	0	28
20	13	27	7	0	0	0	0	0	0	16	14	22
21	17	30	19	0	0	0	0	0	0	13	23	21
22	16	28	17	0	0	0	0	0	0	6	25	15
23	7	30	10	0	0	0	0	0	0	3	23	3
24	4	24	5	0	0	0	0	0	0	8	20	0
25	18	25	0	0	0	0	0	0	0	8	22	0
26	21	21	16	2	0	0	0	0	0	7	16	2
27	22	20	15	0	0	0	0	0	0	0	10	16
28	22	23	8	0	0	0	0	0	0	0	7	18
29	25	24	13	0	1	0	0	0	0	0	11	14
30	19		28	0	0	0	0	0	0	0	27	6
31	14		18		0		0	0		0		2
Total	650	645	324	81	12	0	0	0	0	151	238	461

Table 41. Time of Sunrise at Auburn, Alabama (a.m., CST)

Latitude	32° 34' N.											Longitude	85° 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	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		5:35		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		Longitude										
32° 34' N.		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	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.

