CLIMATOGRAPHY OF THE UNITED STATES NO. 84

Daily Station Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971 - 2000

Division 02 Northwest

38
SOUTH CAROLINA

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: ANDERSON SOUTH CAROLINA Station Number: 380165

Latitude: 34 B 32 * 00 (Longitude: -082 B 40 * 00 (Elevation (feet): 800

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	33	46	19	0	0.15
2	59	33	46	19	0	0.15
3	58	33	45	20	*	0.15
4	58	33	45	20	*	0.14
5	58	33	45	20	*	0.14
6	57	32	45	21	*	0.14
7	57	32	45	21	*	0.14
8	57	31	44	21	*	0.14
9	57	31	44	21	*	0.14
10	57	30	43	22	*	0.14
11	57	30	43	22	0	0.14
12	57	30	43	22	0	0.14
13	55	30	43	22	0	0.14
14	54	30	42	23	0	0.14
15	54	30	42	23	0	0.14
16	54	30	42	23	0	0.15
17	54	29	42	23	0	0.15
18	54	29	42	23	0	0.15
19	53	29	41	24	0	0.15
20	53	29	41	24	0	0.15
21	53	29	41	24	0	0.15
22	53	29	41	24	0	0.15
23	53	28	41	24	0	0.15
24	53	28	41	24	0	0.15
25	52	28	40	25	0	0.15
26	52	28	40	25	0	0.15
27	52	28	40	25	0	0.15
28	52	28	40	25	0	0.16
29	52	28	40	25	0	0.16
30	52	28	40	25	0	0.16
31	52	28	40	25	0	0.16
MTH	54.8	29.9	42.4	704	2	4.57

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	28	40	25	0	0.16
2	52	28	40	25	0	0.17
3	52	28	40	25	0	0.17
4	52	28	40	25	0	0.17
5	52	28	40	25	0	0.17
6	52	28	40	25	0	0.17
7	52	27	40	25	0	0.17
8	52	27	39	26	0	0.17
9	52	27	39	26	0	0.17
10	52	27	39	26	0	0.17
11	52	27	40	25	0	0.17
12	52	27	40	25	0	0.17
13	52	27	40	25	0	0.17
14	52	27	40	25	0	0.17
15	52	27	40	25	0	0.17
16	52	28	40	25	0	0.17
17	52	28	40	25	0	0.17
18	52	28	40	25	0	0.17
19	52	28	40	25	0	0.17
20	52	28	40	25	0	0.17
21	52	28	40	25	0	0.17
22	53	28	40	25	0	0.17
23	53	28	40	25	0	0.17
24	53	28	40	25	0	0.17
25	53	28	40	25	0	0.17
26	53	28	41	24	0	0.17
27	53	28	41	24	0	0.17
28	54	28	41	24	0	0.17
29	54	28	41	24	0	0.16
30	54	28	41	24	0	0.16
31	54	28	41	24	0	0.16
MTH	52.5	27.7	40.1	772	0	5.23

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	55	29	42	23	0	0.16
2	55	29	42	23	0	0.15
3	55	29	42	23	0	0.15
4	55	29	42	23	0	0.15
5	55	29	42	23	0	0.15
6	55	30	42	23	0	0.15
7	56	30	43	22	0	0.15
8	56	30	43	22	0	0.15
9	56	30	43	22	0	0.15
10	56	30	43	22	0	0.15
11	57	30	43	22	0	0.15
12	57	30	43	22	0	0.15
13	57	30	44	21	0	0.15
14	57	30	44	21	0	0.15
15	58	30	44	21	0	0.15
16	58	30	44	21	0	0.15
17	58	30	44	21	0	0.15
18	58	31	45	20	0	0.15
19	59	31	45	20	0	0.15
20	59	31	45	20	0	0.15
21	59	31	45	20	0	0.15
22	59	32	46	19	0	0.15
23	60	32	46	19	0	0.15
24	60	32	46	19	0	0.16
25	60	32	46	19	0	0.16
26	60	33	47	18	0	0.16
27	61	33	47	18	0	0.16
28	61	33	47	18	0	0.17
MTH	57.6	30.6	44.1	585	0	4.27

WINTER SEASON: 54.9 29.4 42.2 2061 2 14.07

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	34	47	18	0	0.17
2	62	34	48	17	0	0.17
3	62	34	48	17	0	0.17
4	62	34	48	17	0	0.18
5	62	34	48	17	0	0.18
6	63	35	49	16	0	0.18
7	63	35	49	16	0	0.18
8	63	35	49	16	0	0.18
9	63	35	49	16	0	0.18
10	64	36	50	15	0	0.18
11	64	36	50	15	0	0.18
12	64	36	50	15	0	0.19
13	64	36	50	15	0	0.19
14	65	37	51	14	0	0.18
15	65	37	51	14	0	0.18
16	65	37	51	14	0	0.18
17	65	37	51	14	0	0.18
18	66	38	52	13	0	0.18
19	66	38	52	13	0	0.18
20	66	38	52	13	0	0.18
21	66	38	52	13	0	0.18
22	67	39	53	12	0	0.18
23	67	39	53	12	0	0.17
24	67	39	53	12	0	0.17
25	68	39	54	11	0	0.17
26	68	40	54	11	0	0.17
27	68	40	54	11	0	0.16
28	68	40	54	11	0	0.16
29	68	40	54	11	0	0.16
30	69	41	55	11	1	0.15
31	69	41	55	11	1	0.15
MTH	65.2	37.2	51.2	431	2	5.41

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	42	55	10	0	0.15
2	70	42	56	9	0	0.14
3	71	42	56	9	0	0.14
4	71	42	56	9	0	0.13
5	71	42	57	8	0	0.13
6	71	43	57	8	0	0.13
7	71	43	57	8	0	0.13
8	71	43	57	8	0	0.12
9	72	43	58	7	0	0.12
10	72	44	58	7	0	0.12
11	72	44	58	7	0	0.12
12	72	44	58	7	0	0.12
13	73	45	59	7	1	0.11
14	73	45	59	7	1	0.11
15	73	45	59	7	1	0.11
16	74	45	60	6	1	0.11
17	74	46	60	6	1	0.11
18	74	46	60	6	1	0.11
19	74	46	60	6	1	0.11
20	75	47	61	5	1	0.11
21	75	47	61	5	1	0.11
22	75	47	61	5	1	0.11
23	75	47	61	5	1	0.11
24	75	48	62	4	1	0.11
25	76	48	62	4	1	0.11
26	76	49	63	4	2	0.11
27	76	49	63	4	2	0.11
28	76	49	63	4	2	0.11
29	77	49	63	4	2	0.12
30	77	49	63	4	2	0.12
MTH	73.4	45.4	59.4	190	23	3.55

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	51	64	3	2	0.12
2	77	51	64	3	2	0.12
3	77	51	64	3	2	0.12
4	77	52	64	3	2	0.13
5	79	52	65	3	3	0.13
6	79	52	65	3	3	0.13
7	79	52	65	3	3	0.13
8	79	53	66	2	3	0.13
9	79	53	66	2	3	0.13
10	79	53	66	2	3	0.13
11	79	53	66	2	3	0.13
12	80	54	67	2	4	0.13
13	80	54	67	2	4	0.13
14	80	54	67	2	4	0.13
15	80	54	67	2	4	0.14
16	80	55	68	1	4	0.14
17	81	55	68	1	4	0.14
18	81	56	69	1	5	0.14
19	81	56	69	1	5	0.13
20	81	56	69	1	5	0.13
21	82	56	69	1	5	0.13
22	82	56	69	1	5	0.13
23	82	56	69	1	5	0.13
24	82	57	70	1	6	0.13
25	82	58	70	1	6	0.13
26	82	58	70	1	6	0.13
27	82	58	70	1	6	0.13
28	82	58	70	1	6	0.13
29	83	59	71	1	7	0.13
30	83	59	71	1	7	0.12
31	84	59	72	0	7	0.12
MTH	80.4	54.9	67.7	52	134	4.02

SPRING SEASON: 73.0 45.8 59.4 673 159 12.98

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Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	60	72	0	7	0.12
2	85	60	72	*	7	0.12
3	85	60	72	*	8	0.12
4	86	60	73	*	8	0.12
5	86	60	73	*	8	0.11
6	86	61	73	*	8	0.11
7	86	61	74	*	9	0.11
8	86	61	74	0	9	0.11
9	87	61	74	0	9	0.11
10	87	61	74	0	9	0.11
11	87	61	74	0	9	0.11
12	87	61	74	0	9	0.11
13	87	62	75	0	10	0.11
14	87	62	75	0	10	0.11
15	87	63	75	0	10	0.11
16	87	63	75	0	10	0.11
17	87	63	75	0	10	0.11
18	88	63	76	0	11	0.11
19	88	63	76	0	11	0.11
20	88	63	76	0	11	0.11
21	88	64	76	0	11	0.11
22	88	64	76	0	11	0.11
23	88	64	76	0	11	0.11
24	88	64	76	0	11	0.12
25	89	64	77	0	12	0.12
26	89	65	77	0	12	0.12
27	89	65	77	0	12	0.12
28	89	65	77	0	12	0.12
29	89	65	77	0	12	0.12
30	89	65	77	0	12	0.13
MTH	87.3	62.5	74.9	1	299	3.42

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	65	77	0	12	0.13
2	90	65	78	0	13	0.13
3	90	66	78	0	13	0.13
4	90	66	78	0	13	0.13
5	90	66	78	0	13	0.14
6	90	66	78	0	13	0.14
7	90	66	78	0	13	0.14
8	90	66	78	0	13	0.14
9	90	66	78	0	13	0.14
10	90	66	78	0	13	0.14
11	90	66	78	0	13	0.14
12	90	66	78	0	13	0.14
13	91	67	79	0	14	0.14
14	91	67	79	0	14	0.14
15	91	67	79	0	14	0.14
16	91	67	79	0	14	0.14
17	91	67	79	0	14	0.14
18	91	67	79	0	14	0.15
19	91	67	79	0	14	0.14
20	91	67	79	0	14	0.14
21	91	67	79	0	14	0.14
22	91	67	79	0	14	0.14
23	91	67	79	0	14	0.14
24	91	67	79	0	14	0.14
25	91	67	79	0	14	0.14
26	91	67	79	0	14	0.14
27	91	67	79	0	14	0.14
28	91	67	79	0	14	0.14
29	90	67	79	0	14	0.14
30	90	67	79	0	14	0.14
31	90	67	79	0	14	0.13
MTH	90.5	66.6	78.6	0	421	4.30
SUMMER SEASON:	88.9	65.0	77.0	1	1105	11.54

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	67	79	0	14	0.13
2	90	67	79	0	14	0.13
3	90	67	79	0	14	0.13
4	90	67	79	0	14	0.13
5	90	67	79	0	14	0.13
6	90	67	79	0	14	0.12
7	90	67	79	0	14	0.12
8	90	67	78	0	13	0.12
9	90	67	78	0	13	0.12
10	90	67	78	0	13	0.12
11	90	67	78	0	13	0.12
12	90	67	78	0	13	0.12
13	90	67	78	0	13	0.12
14	90	67	78	0	13	0.12
15	89	66	78	0	13	0.12
16	89	66	78	0	13	0.12
17	89	66	78	0	13	0.12
18	88	66	77	0	12	0.12
19	88	66	77	0	12	0.12
20	88	66	77	0	12	0.12
21	88	66	77	0	12	0.12
22	88	65	77	0	12	0.12
23	88	65	77	0	12	0.12
24	88	64	76	0	11	0.12
25	88	64	76	0	11	0.12
26	88	64	76	0	11	0.12
27	88	64	76	0	11	0.13
28	87	64	76	0	11	0.13
29	87	64	75	0	10	0.13
30	87	64	75	0	10	0.13
31	87	64	75	0	10	0.13
MTH	88.9	65.9	77.4	0	385	3.82

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	64	75	0	10	0.13
2	87	64	75	0	10	0.13
3	86	63	75	0	10	0.14
4	86	63	74	0	9	0.14
5	86	63	74	0	9	0.14
6	86	63	74	0	9	0.14
7	86	63	74	0	9	0.14
8	85	62	74	0	9	0.14
9	85	62	73	0	8	0.14
10	85	62	73	0	8	0.14
11	85	62	73	0	8	0.14
12	84	61	72	0	7	0.14
13	84	60	72	0	7	0.14
14	84	60	72	0	7	0.14
15	84	60	72	0	7	0.15
16	83	60	72	0	7	0.15
17	83	59	71	0	6	0.15
18	83	59	71	0	6	0.14
19	83	59	71	0	6	0.14
20	82	59	71	0	6	0.14
21	82	58	70	0	5	0.14
22	82	57	70	0	5	0.14
23	81	57	69	1	5	0.14
24	81	56	69	1	5	0.14
25	81	56	69	1	5	0.14
26	80	56	68	1	4	0.14
27	80	55	68	1	4	0.14
28	80	54	67	2	4	0.14
29	79	54	67	2	4	0.14
30	79	53	66	3	4	0.13
MTH	83.3	59.5	71.4	12	203	4.20
AUTUMN SEASON:	73.7	48.0	60.9	623	246	12.41
ANNUAL:	72.6	47.0	59.9	3358	1512	51.00

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	53	65	3	3	0.13
2	78	53	65	3	3	0.13
3	78	53	65	3	3	0.13
4	78	53	65	3	3	0.13
5	78	51	65	3	3	0.13
6	77	51	64	3	2	0.13
7	76	50	63	4	2	0.12
8	76	50	63	4	2	0.12
9	76	49	63	4	2	0.12
10	75	49	62	5	2	0.12
11	75	48	62	5	2	0.12
12	75	48	62	5	2	0.12
13	74	47	61	5	1	0.12
14	74	47	61	5	1	0.12
15	74	46	60	6	1	0.12
16	73	46	60	6	1	0.12
17	73	46	60	6	1	0.12
18	73	45	59	7	1	0.12
19	73	45	59	7	1	0.12
20	72	45	59	7	1	0.12
21	72	44	58	8	1	0.12
22	72	44	58	8	1	0.12
23	71	44	58	8	1	0.12
24	71	43	57	8	0	0.12
25	71	43	57	8	0	0.13
26	70	43	57	8	0	0.13
27	70	42	56	9	0	0.13
28	70	42	56	9	0	0.13
29	70	42	56	9	0	0.13
30	69	42	56	9	0	0.13
31	69	42	55	10	0	0.13
MTH	73.6	46.7	60.2	188	40	3.85

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	42	55	11	1	0.13
2	69	42	55	11	1	0.13
3	68	42	55	11	1	0.14
4	67	42	54	11	0	0.14
5	67	41	54	11	0	0.14
6	67	40	54	11	0	0.14
7	67	40	54	11	0	0.14
8	66	40	53	12	0	0.14
9	66	40	53	12	0	0.14
10	66	39	53	12	0	0.14
11	66	39	53	12	0	0.14
12	65	39	52	13	0	0.14
13	65	39	52	13	0	0.15
14	65	38	52	13	0	0.15
15	64	38	51	14	0	0.15
16	64	38	51	14	0	0.15
17	64	38	51	14	0	0.15
18	63	37	50	15	0	0.15
19	63	37	50	15	0	0.15
20	63	37	50	15	0	0.15
21	62	36	49	16	0	0.15
22	62	36	49	16	0	0.15
23	62	36	49	16	0	0.15
24	61	35	48	17	0	0.15
25	61	35	48	17	0	0.15
26	61	35	48	17	0	0.15
27	60	34	47	18	0	0.15
28	60	34	47	18	0	0.15
29	60	34	47	18	0	0.15
30	59	33	46	19	0	0.15
MTH	64.1	37.9	51.0	423	3	4.36

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Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.41	0.67	0.68	0.18	0.24	0.13	0.59	0.18	0.00	0.00	0.94	0.61	30.78
0.010	0.56	0.83	0.86	0.26	0.34	0.20	0.74	0.26	0.00	0.00	1.11	0.77	32.40
0.050	1.17	1.40	1.56	0.62	0.77	0.52	1.31	0.64	0.40	0.34	1.72	1.37	37.13
0.100	1.66	1.80	2.08	0.94	1.14	0.81	1.72	0.97	0.88	0.77	2.12	1.80	39.84
0.200	2.42	2.40	2.85	1.46	1.73	1.30	2.33	1.53	1.57	1.40	2.69	2.45	43.29
0.300	3.11	2.91	3.52	1.94	2.27	1.78	2.85	2.05	2.18	1.96	3.17	3.01	45.91
0.400	3.80	3.39	4.18	2.44	2.82	2.27	3.36	2.59	2.81	2.54	3.61	3.56	48.22
0.500	4.54	3.90	4.86	2.97	3.41	2.80	3.89	3.18	3.49	3.17	4.07	4.12	50.45
0.600	5.36	4.45	5.62	3.58	4.09	3.42	4.47	3.85	4.25	3.88	4.56	4.74	52.75
0.700	6.35	5.09	6.51	4.33	4.90	4.17	5.15	4.67	5.19	4.75	5.13	5.48	55.29
0.800	7.64	5.92	7.66	5.31	5.98	5.19	6.04	5.76	6.43	5.91	5.86	6.42	58.36
0.900	9.70	7.20	9.46	6.91	7.71	6.83	7.41	7.52	8.43	7.80	6.97	7.90	62.81
0.950	11.65	8.39	11.14	8.43	9.35	8.41	8.69	9.21	10.35	9.60	7.98	9.28	66.64
0.990	15.91	10.93	14.77	11.81	12.98	11.95	11.44	12.97	14.62	13.62	10.12	12.24	74.23
0.995	17.68	11.97	16.25	13.22	14.50	13.43	12.57	14.55	16.40	15.31	10.98	13.45	77.15

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: ANDERSON CO AP SOUTH CAROLINA Station Number: 380170

Latitude: 34 B 29 * 42 (Longitude: -082 B 42 * 33 (Elevation (feet): 760

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	37	48	17	0	0.12
2	59	36	48	17	0	0.12
3	59	36	47	18	0	0.12
4	59	36	47	18	0	0.12
5	59	36	47	18	0	0.12
6	59	36	47	18	0	0.12
7	58	35	46	19	0	0.12
8	57	35	46	19	0	0.12
9	56	35	46	19	0	0.12
10	56	35	45	20	0	0.12
11	56	34	45	20	0	0.12
12	55	34	45	20	0	0.12
13	55	34	45	20	0	0.12
14	54	34	44	21	0	0.12
15	54	34	44	21	0	0.12
16	54	34	44	21	0	0.12
17	54	34	44	21	0	0.12
18	54	33	44	21	0	0.12
19	53	33	43	22	0	0.12
20	53	33	43	22	0	0.12
21	53	33	43	22	0	0.13
22	53	33	43	22	0	0.13
23	53	33	43	22	0	0.13
24	53	33	43	22	0	0.13
25	53	32	43	22	0	0.13
26	52	32	42	23	0	0.13
27	52	32	42	23	0	0.13
28	52	32	42	23	0	0.13
29	52	32	42	23	0	0.13
30	52	32	42	23	0	0.13
31	52	32	42	23	0	0.14
MTH	54.8	33.9	44.4	640	0	3.84
				WINTER SEASON:		

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	32	42	23	0	0.14
2	52	32	42	23	0	0.14
3	52	32	42	23	0	0.14
4	52	32	42	23	0	0.14
5	52	31	42	23	0	0.14
6	52	31	42	23	0	0.14
7	52	31	41	24	0	0.14
8	52	31	41	24	0	0.15
9	52	31	41	24	0	0.15
10	52	31	41	24	0	0.15
11	51	31	41	24	0	0.15
12	51	31	41	24	0	0.15
13	51	31	41	24	0	0.15
14	51	31	41	24	0	0.15
15	51	31	41	24	0	0.15
16	51	31	41	24	0	0.15
17	51	31	41	24	0	0.15
18	52	31	42	23	0	0.15
19	52	31	42	23	0	0.15
20	52	31	42	23	0	0.15
21	52	31	42	23	0	0.15
22	52	31	42	23	0	0.15
23	52	31	42	23	0	0.15
24	52	31	42	23	0	0.15
25	52	31	42	23	0	0.15
26	53	31	42	23	0	0.15
27	53	31	42	23	0	0.15
28	53	32	42	23	0	0.15
29	53	32	42	23	0	0.15
30	53	32	43	22	0	0.15
31	53	32	43	22	0	0.15
MTH	52.0	31.3	41.7	722	0	4.58
	54.5	33.0	43.8	1911	0	12.57

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	32	43	22	0	0.15
2	54	32	43	22	0	0.15
3	54	32	43	22	0	0.15
4	55	32	43	22	0	0.15
5	55	32	43	22	0	0.15
6	55	32	44	21	0	0.14
7	55	33	44	21	0	0.14
8	55	33	44	21	0	0.14
9	55	33	44	21	0	0.14
10	55	33	44	21	0	0.14
11	56	33	45	20	0	0.14
12	56	33	45	20	0	0.14
13	56	34	45	20	0	0.14
14	56	34	45	20	0	0.15
15	56	34	45	20	0	0.15
16	57	34	46	19	0	0.15
17	57	34	46	19	0	0.15
18	58	35	46	19	0	0.15
19	58	35	46	19	0	0.15
20	58	35	46	19	0	0.15
21	58	35	47	18	0	0.15
22	59	35	47	18	0	0.15
23	59	35	47	18	0	0.15
24	59	36	47	18	0	0.15
25	59	36	48	17	0	0.15
26	60	36	48	17	0	0.16
27	60	36	48	17	0	0.16
28	60	37	49	16	0	0.16
MTH	56.8	34.0	45.4	549	0	4.15

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	38	49	16	0	0.16
2	61	38	49	16	0	0.16
3	61	38	49	16	0	0.16
4	61	38	50	15	0	0.16
5	62	39	50	15	0	0.17
6	62	39	50	15	0	0.17
7	62	39	51	14	0	0.17
8	62	39	51	14	0	0.17
9	63	39	51	14	0	0.17
10	63	39	51	14	0	0.17
11	63	40	52	13	0	0.17
12	64	40	52	13	0	0.17
13	64	40	52	13	0	0.17
14	64	40	52	13	0	0.17
15	64	41	53	12	0	0.17
16	65	41	53	12	0	0.17
17	65	41	53	12	0	0.17
18	65	41	53	12	0	0.16
19	66	42	54	11	0	0.16
20	66	42	54	11	0	0.16
21	66	42	54	11	0	0.16
22	67	42	55	10	0	0.16
23	67	43	55	10	0	0.16
24	67	43	55	10	0	0.15
25	67	43	55	10	0	0.15
26	67	43	55	10	0	0.15
27	68	44	56	10	1	0.15
28	68	44	56	10	1	0.14
29	69	44	57	9	1	0.14
30	69	44	57	9	1	0.14
31	69	44	57	9	1	0.14
MTH	64.8	41.0	52.9	379	5	4.97
				SPRING SEASON:		

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	44	57	8	0	0.13
2	70	45	57	8	0	0.13
3	70	45	57	8	0	0.13
4	70	45	58	7	0	0.13
5	71	45	58	7	0	0.12
6	71	46	58	7	0	0.12
7	71	46	58	7	0	0.12
8	71	46	58	7	0	0.12
9	72	46	59	7	1	0.11
10	72	46	59	7	1	0.11
11	72	47	60	6	1	0.11
12	72	47	60	6	1	0.11
13	73	47	60	6	1	0.11
14	73	47	60	6	1	0.11
15	73	47	60	6	1	0.11
16	74	48	61	5	1	0.11
17	74	48	61	5	1	0.10
18	74	48	61	5	1	0.10
19	74	49	62	4	1	0.10
20	75	49	62	4	1	0.10
21	75	49	62	4	1	0.10
22	75	49	62	4	1	0.10
23	75	50	63	4	2	0.10
24	75	50	63	4	2	0.11
25	76	50	63	4	2	0.11
26	76	50	63	4	2	0.11
27	76	51	64	3	2	0.11
28	76	51	64	3	2	0.11
29	77	51	64	3	2	0.11
30	77	51	64	3	2	0.11
MTH	73.3	47.8	60.6	162	30	3.35
	72.9	48.6	60.8	586	197	12.22

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	52	65	3	3	0.11
2	77	53	65	3	3	0.12
3	77	53	65	3	3	0.12
4	78	53	66	2	3	0.12
5	78	55	66	2	3	0.12
6	78	55	66	2	3	0.12
7	78	55	67	2	4	0.12
8	79	56	67	2	4	0.12
9	79	56	67	2	4	0.12
10	79	56	67	2	4	0.13
11	79	56	67	2	4	0.13
12	79	56	67	2	4	0.13
13	80	56	68	2	5	0.13
14	80	56	68	2	5	0.13
15	80	57	69	1	5	0.13
16	81	57	69	1	5	0.13
17	81	57	69	1	5	0.13
18	81	57	69	1	5	0.13
19	81	58	70	1	6	0.13
20	82	58	70	1	6	0.13
21	82	58	70	1	6	0.13
22	82	58	70	1	6	0.13
23	82	58	70	1	6	0.13
24	82	59	71	1	7	0.13
25	83	59	71	1	7	0.13
26	83	59	71	1	7	0.13
27	83	59	71	1	7	0.13
28	84	60	72	1	8	0.13
29	84	61	73	0	8	0.12
30	84	61	73	0	8	0.12
31	84	62	73	0	8	0.12
MTH	80.6	57.0	68.8	45	162	3.90

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

United States Climate Normals 1971-2000

Station Name: ANDERSON CO AP SOUTH CAROLINA Station Number: 380170

Latitude: 34B 29* 42 (Longitude: -082B 42* 33 (Elevation (feet): 760

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	62	73	1	9	0.12
2	85	62	74	0	9	0.12
3	85	62	74	0	9	0.12
4	86	63	74	0	9	0.12
5	86	63	74	0	9	0.12
6	86	63	75	0	10	0.12
7	86	63	75	0	10	0.12
8	86	64	75	0	10	0.12
9	86	64	75	0	10	0.12
10	87	64	76	0	11	0.12
11	87	64	76	0	11	0.11
12	87	65	76	0	11	0.11
13	87	65	76	0	11	0.11
14	87	65	76	0	11	0.11
15	87	65	76	0	11	0.11
16	88	66	77	0	12	0.11
17	88	66	77	0	12	0.11
18	88	66	77	0	12	0.11
19	88	66	77	0	12	0.11
20	88	66	77	0	12	0.11
21	88	66	77	0	12	0.11
22	89	67	78	0	13	0.11
23	89	67	78	0	13	0.11
24	89	67	78	0	13	0.11
25	89	67	78	0	13	0.11
26	89	67	78	0	13	0.11
27	89	67	78	0	13	0.11
28	89	67	78	0	13	0.11
29	90	68	79	0	14	0.11
30	90	68	79	0	14	0.11
MTH	87.5	65.2	76.4	1	342	3.40

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	68	79	0	14	0.11
2	90	68	79	0	14	0.11
3	90	68	79	0	14	0.11
4	90	68	79	0	14	0.11
5	90	69	79	0	14	0.11
6	90	69	79	0	14	0.11
7	90	69	79	0	14	0.11
8	90	69	79	0	14	0.11
9	90	69	79	0	14	0.12
10	90	69	80	0	15	0.12
11	90	69	80	0	15	0.12
12	91	69	80	0	15	0.12
13	91	69	80	0	15	0.12
14	91	69	80	0	15	0.12
15	91	69	80	0	15	0.12
16	91	69	80	0	15	0.12
17	91	69	80	0	15	0.12
18	91	69	80	0	15	0.12
19	91	69	80	0	15	0.12
20	91	69	80	0	15	0.12
21	91	69	80	0	15	0.12
22	91	69	80	0	15	0.12
23	91	69	80	0	15	0.12
24	91	69	80	0	15	0.12
25	91	69	80	0	15	0.12
26	91	69	80	0	15	0.12
27	91	69	80	0	15	0.12
28	90	69	80	0	15	0.12
29	90	69	80	0	15	0.12
30	90	69	80	0	15	0.12
31	90	69	80	0	15	0.11
MTH	90.5	68.9	79.7	0	456	3.63
SUMMER SEASON:	88.9	67.4	78.1	1	1212	10.78

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	69	80	0	15	0.12
2	90	69	80	0	15	0.12
3	90	69	80	0	15	0.12
4	90	69	80	0	15	0.11
5	90	69	80	0	15	0.11
6	90	69	80	0	15	0.11
7	90	69	80	0	15	0.11
8	90	69	79	0	14	0.11
9	90	69	79	0	14	0.12
10	90	69	79	0	14	0.12
11	90	69	79	0	14	0.12
12	90	69	79	0	14	0.12
13	90	69	79	0	14	0.12
14	90	69	79	0	14	0.12
15	90	68	79	0	14	0.12
16	90	68	79	0	14	0.12
17	89	68	78	0	13	0.12
18	88	68	78	0	13	0.12
19	88	68	78	0	13	0.12
20	88	68	78	0	13	0.12
21	88	68	78	0	13	0.12
22	88	68	78	0	13	0.12
23	87	67	77	0	12	0.12
24	87	67	77	0	12	0.13
25	87	67	77	0	12	0.13
26	87	67	77	0	12	0.13
27	87	67	77	0	12	0.13
28	87	67	77	0	12	0.13
29	86	66	76	0	11	0.13
30	86	66	76	0	11	0.13
31	86	66	76	0	11	0.13
MTH	88.7	68.1	78.4	0	414	3.75

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	66	76	0	11	0.14
2	86	65	76	0	11	0.14
3	86	65	76	0	11	0.14
4	86	65	75	0	10	0.14
5	86	65	75	0	10	0.14
6	86	65	75	0	10	0.14
7	85	64	74	0	9	0.14
8	84	64	74	0	9	0.14
9	84	64	74	0	9	0.14
10	84	64	74	0	9	0.15
11	84	63	74	0	9	0.15
12	84	63	73	0	8	0.15
13	84	63	73	0	8	0.15
14	83	62	73	0	8	0.15
15	83	62	73	0	8	0.15
16	83	62	72	0	7	0.14
17	83	62	72	0	7	0.14
18	82	61	72	0	7	0.14
19	82	61	72	0	7	0.14
20	82	61	72	0	7	0.14
21	81	60	71	0	6	0.14
22	81	60	70	1	6	0.14
23	81	60	70	1	6	0.14
24	81	59	70	1	6	0.14
25	80	58	69	1	5	0.13
26	80	58	69	1	5	0.13
27	79	57	68	2	5	0.13
28	79	57	68	2	5	0.13
29	79	56	68	2	5	0.13
30	79	55	67	2	4	0.12
MTH	82.8	61.6	72.2	13	228	4.19

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	55	67	2	4	0.12
2	79	54	66	3	4	0.12
3	79	54	66	3	4	0.12
4	78	54	66	3	4	0.11
5	77	54	65	3	3	0.11
6	76	53	65	3	3	0.11
7	76	52	64	4	3	0.11
8	76	52	64	4	3	0.11
9	75	52	64	4	3	0.10
10	75	52	64	4	3	0.10
11	75	51	63	4	2	0.10
12	74	50	62	5	2	0.10
13	74	50	62	5	2	0.10
14	74	50	62	5	2	0.10
15	73	49	61	6	2	0.10
16	73	49	61	6	2	0.10
17	73	49	61	6	2	0.10
18	72	48	60	6	1	0.10
19	72	48	60	6	1	0.10
20	72	47	60	6	1	0.10
21	71	47	59	7	1	0.10
22	71	47	59	7	1	0.10
23	71	46	59	7	1	0.10
24	70	46	58	8	1	0.10
25	70	46	58	8	1	0.10
26	70	46	58	8	1	0.10
27	69	45	57	9	1	0.10
28	69	45	57	9	1	0.10
29	69	45	57	9	1	0.10
30	69	44	57	9	1	0.11
31	68	44	56	9	0	0.11
MTH	73.2	49.2	61.2	178	61	3.23
AUTUMN SEASON:	73.2	50.4	61.8	585	294	11.10
ANNUAL:	72.4	49.8	61.1	3083	1703	46.67

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	44	56	10	1	0.11
2	68	44	56	10	1	0.11
3	68	44	56	10	1	0.11
4	68	44	56	10	1	0.11
5	68	44	56	10	1	0.12
6	67	43	55	10	0	0.12
7	66	42	54	11	0	0.12
8	66	42	54	11	0	0.12
9	66	42	54	11	0	0.12
10	65	42	53	12	0	0.12
11	65	41	53	12	0	0.12
12	65	41	53	12	0	0.12
13	64	41	53	12	0	0.12
14	64	40	52	13	0	0.12
15	64	40	52	13	0	0.12
16	63	40	52	13	0	0.13
17	63	40	52	13	0	0.13
18	63	39	51	14	0	0.13
19	63	39	51	14	0	0.13
20	62	39	51	14	0	0.13
21	61	39	50	15	0	0.13
22	61	39	50	15	0	0.13
23	61	39	50	15	0	0.13
24	61	38	50	15	0	0.13
25	60	38	49	16	0	0.13
26	60	38	49	16	0	0.13
27	60	38	49	16	0	0.13
28	59	37	48	17	0	0.12
29	59	37	48	17	0	0.12
30	59	37	48	17	0	0.12
MTH	63.6	40.4	52.0	394	5	3.68

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: ANDERSON CO AP SOUTH CAROLINA Station Number: 380170

Latitude: 34° 29* 42(Longitude: -082° 42* 33(Elevation (feet): 760

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.69	0.63	0.63	0.19	0.34	0.24	0.53	0.22	0.14	0.00	0.87	0.48	27.66
0.010	0.86	0.78	0.80	0.27	0.45	0.33	0.67	0.31	0.21	0.00	1.02	0.61	29.17
0.050	1.47	1.34	1.44	0.63	0.92	0.71	1.15	0.71	0.58	0.21	1.53	1.11	33.61
0.100	1.91	1.73	1.91	0.93	1.29	1.02	1.49	1.05	0.93	0.53	1.86	1.47	36.15
0.200	2.55	2.31	2.63	1.42	1.86	1.52	2.00	1.60	1.53	1.04	2.34	2.02	39.40
0.300	3.10	2.81	3.24	1.87	2.37	1.97	2.44	2.11	2.11	1.52	2.73	2.50	41.86
0.400	3.63	3.29	3.84	2.34	2.87	2.43	2.86	2.62	2.72	2.02	3.09	2.96	44.05
0.500	4.17	3.78	4.47	2.84	3.41	2.92	3.30	3.18	3.39	2.56	3.46	3.45	46.15
0.600	4.77	4.33	5.16	3.40	4.01	3.47	3.78	3.81	4.16	3.20	3.86	3.98	48.33
0.700	5.47	4.96	5.98	4.09	4.72	4.13	4.34	4.57	5.12	3.98	4.32	4.61	50.73
0.800	6.37	5.78	7.03	4.99	5.66	5.00	5.06	5.58	6.40	5.04	4.90	5.43	53.64
0.900	7.78	7.06	8.69	6.45	7.15	6.40	6.19	7.21	8.49	6.78	5.79	6.71	57.86
0.950	9.07	8.23	10.23	7.84	8.55	7.72	7.23	8.75	10.51	8.45	6.60	7.89	61.50
0.990	11.85	10.76	13.55	10.92	11.61	10.63	9.47	12.17	15.04	12.23	8.30	10.46	68.73
0.995	12.99	11.79	14.91	12.20	12.88	11.84	10.39	13.60	16.95	13.82	8.98	11.51	71.51

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: CLEMSON UNIVERSITY SOUTH CAROLINA Station Number: 381770

Latitude: 34 B 39 * 37 (Longitude: -082 B 49* 25 (Elevation (feet): 824

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	36	47	18	0	0.14
2	59	36	47	18	0	0.14
3	59	35	47	18	0	0.14
4	59	34	46	19	0	0.14
5	58	34	46	19	0	0.14
6	57	34	46	19	0	0.14
7	57	34	46	19	0	0.14
8	56	34	45	20	0	0.14
9	56	34	45	20	0	0.14
10	56	33	45	20	0	0.14
11	56	33	45	20	0	0.14
12	55	33	44	21	0	0.14
13	55	33	44	21	0	0.14
14	55	33	44	21	0	0.14
15	55	32	44	21	0	0.14
16	54	32	43	22	0	0.15
17	54	32	43	22	0	0.15
18	54	32	43	22	0	0.15
19	54	32	43	22	0	0.15
20	54	32	43	22	0	0.15
21	53	31	42	23	0	0.15
22	53	31	42	23	0	0.15
23	53	31	42	23	0	0.15
24	53	31	42	23	0	0.15
25	53	31	42	23	0	0.16
26	53	31	42	23	0	0.16
27	53	31	42	23	0	0.16
28	52	31	42	23	0	0.16
29	52	30	41	24	0	0.16
30	52	30	41	24	0	0.16
31	52	30	41	24	0	0.17
MTH	54.9	32.5	43.7	660	0	4.58
				WINTER SEASON:		

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	30	41	24	0	0.17
2	52	30	41	24	0	0.17
3	52	30	41	24	0	0.17
4	52	30	41	24	0	0.17
5	52	30	41	24	0	0.17
6	52	30	41	24	0	0.18
7	52	30	41	24	0	0.18
8	52	30	41	24	0	0.18
9	52	30	41	24	0	0.18
10	52	30	41	24	0	0.18
11	52	30	41	24	0	0.18
12	51	30	40	25	0	0.18
13	52	29	40	25	0	0.18
14	52	29	41	24	0	0.18
15	52	29	41	24	0	0.18
16	52	29	41	24	0	0.19
17	52	29	41	24	0	0.19
18	52	29	41	24	0	0.19
19	52	29	41	24	0	0.19
20	52	30	41	24	0	0.19
21	52	30	41	24	0	0.19
22	52	30	41	24	0	0.18
23	52	30	41	24	0	0.18
24	52	30	41	24	0	0.18
25	52	30	41	24	0	0.18
26	52	30	41	24	0	0.18
27	52	30	41	24	0	0.18
28	52	30	41	24	0	0.18
29	52	30	41	24	0	0.18
30	53	30	42	23	0	0.18
31	54	30	42	23	0	0.18
MTH	52.1	29.8	41.0	744	0	5.59
	54.6	31.5	43.1	1976	0	15.01

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	30	42	23	0	0.18
2	54	30	42	23	0	0.17
3	54	31	43	22	0	0.17
4	55	31	43	22	0	0.17
5	55	31	43	22	0	0.17
6	55	31	43	22	0	0.17
7	56	31	43	22	0	0.17
8	56	31	43	22	0	0.17
9	56	31	43	22	0	0.17
10	56	31	43	22	0	0.17
11	56	31	44	21	0	0.17
12	56	32	44	21	0	0.17
13	56	32	44	21	0	0.17
14	56	32	44	21	0	0.17
15	56	32	44	21	0	0.17
16	57	32	45	20	0	0.17
17	57	33	45	20	0	0.17
18	57	33	45	20	0	0.17
19	57	33	45	20	0	0.17
20	58	33	46	19	0	0.17
21	58	33	46	19	0	0.17
22	59	33	46	19	0	0.18
23	59	33	46	19	0	0.18
24	59	34	47	18	0	0.18
25	59	34	47	18	0	0.18
26	59	35	47	18	0	0.18
27	59	35	47	18	0	0.18
28	60	35	48	17	0	0.18
MTH	56.8	32.3	44.6	572	0	4.84

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	36	48	17	0	0.19
2	61	36	48	17	0	0.19
3	61	36	48	17	0	0.19
4	62	37	49	16	0	0.19
5	62	37	49	16	0	0.19
6	62	37	49	16	0	0.19
7	62	37	50	15	0	0.19
8	62	37	50	15	0	0.20
9	62	38	50	15	0	0.20
10	62	38	50	15	0	0.20
11	63	38	51	14	0	0.20
12	63	38	51	14	0	0.20
13	63	39	51	14	0	0.20
14	63	39	51	14	0	0.20
15	64	39	52	13	0	0.20
16	64	40	52	13	0	0.19
17	64	40	52	13	0	0.19
18	64	40	52	13	0	0.19
19	65	40	53	12	0	0.19
20	65	40	53	12	0	0.19
21	66	40	53	12	0	0.19
22	66	40	53	12	0	0.19
23	66	41	54	11	0	0.18
24	67	41	54	11	0	0.18
25	67	41	54	11	0	0.18
26	67	42	55	10	0	0.18
27	68	42	55	10	0	0.17
28	68	42	55	10	0	0.17
29	68	43	56	10	1	0.17
30	68	43	56	10	1	0.16
31	69	43	56	10	1	0.16
MTH	64.4	39.4	51.9	408	3	5.81
				SPRING SEASON:		

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	43	56	9	0	0.16
2	70	43	56	9	0	0.15
3	71	43	57	8	0	0.15
4	71	44	57	8	0	0.15
5	71	44	57	8	0	0.14
6	71	44	57	8	0	0.14
7	71	44	58	7	0	0.14
8	71	45	58	7	0	0.14
9	71	45	58	7	0	0.13
10	71	45	58	7	0	0.13
11	71	45	58	7	0	0.13
12	72	45	58	7	0	0.13
13	72	46	59	7	1	0.13
14	73	46	60	6	1	0.13
15	73	46	60	6	1	0.12
16	73	47	60	6	1	0.12
17	73	47	60	6	1	0.12
18	73	47	60	6	1	0.12
19	74	47	61	5	1	0.12
20	74	48	61	5	1	0.12
21	74	48	61	5	1	0.12
22	74	48	61	5	1	0.12
23	75	49	62	4	1	0.12
24	75	49	62	4	1	0.12
25	75	49	62	4	1	0.12
26	76	49	63	4	2	0.12
27	76	50	63	4	2	0.13
28	76	50	63	4	2	0.13
29	76	50	63	4	2	0.13
30	76	51	64	3	2	0.13
MTH	73.0	46.6	59.8	180	23	3.91
	72.4	47.2	59.9	636	163	14.08

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	51	64	3	2	0.13
2	77	51	64	3	2	0.13
3	77	52	64	3	2	0.13
4	77	52	64	3	2	0.14
5	78	52	65	3	3	0.14
6	78	52	65	3	3	0.14
7	78	53	66	2	3	0.14
8	78	53	66	2	3	0.14
9	78	54	66	2	3	0.14
10	79	54	66	2	3	0.14
11	79	55	67	2	4	0.14
12	79	55	67	2	4	0.14
13	79	55	67	2	4	0.14
14	79	55	67	2	4	0.14
15	80	55	68	1	4	0.15
16	80	56	68	1	4	0.15
17	80	56	68	1	4	0.15
18	80	57	69	1	5	0.15
19	81	57	69	1	5	0.15
20	81	57	69	1	5	0.14
21	81	57	69	1	5	0.14
22	81	57	69	1	5	0.14
23	81	58	70	1	6	0.14
24	82	58	70	1	6	0.14
25	82	58	70	1	6	0.14
26	82	58	70	1	6	0.14
27	82	58	70	1	6	0.14
28	83	59	71	1	7	0.14
29	83	60	72	0	7	0.14
30	83	60	72	0	7	0.14
31	84	60	72	0	7	0.14
MTH	80.0	55.7	67.9	48	137	4.36

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: CLEMSON UNIVERSITY SOUTH CAROLINA Station Number: 381770

Latitude: 34° 39* 37 (Longitude: -082° 49* 25 (Elevation (feet): 824

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	61	73	0	8	0.13
2	84	61	73	*	9	0.13
3	84	62	73	*	8	0.13
4	85	62	73	*	8	0.13
5	85	62	73	*	8	0.13
6	85	62	73	*	8	0.13
7	85	63	74	0	9	0.13
8	85	63	74	0	9	0.13
9	86	63	74	0	9	0.13
10	86	63	74	0	9	0.12
11	86	63	75	0	10	0.12
12	86	63	75	0	10	0.12
13	87	64	75	0	10	0.12
14	87	64	75	0	10	0.12
15	87	64	75	0	10	0.12
16	87	64	76	0	11	0.12
17	87	64	76	0	11	0.12
18	88	64	76	0	11	0.12
19	88	64	76	0	11	0.12
20	88	64	76	0	11	0.12
21	88	64	76	0	11	0.12
22	88	65	77	0	12	0.12
23	88	65	77	0	12	0.12
24	89	65	77	0	12	0.12
25	89	65	77	0	12	0.12
26	89	65	77	0	12	0.12
27	89	65	77	0	12	0.12
28	89	66	78	0	13	0.12
29	89	66	78	0	13	0.12
30	89	67	78	0	13	0.13
MTH	86.9	63.8	75.4	1	312	3.70

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	67	78	0	13	0.12
2	90	67	78	0	13	0.13
3	90	67	78	0	13	0.13
4	90	67	78	0	13	0.13
5	90	67	79	0	14	0.13
6	90	67	79	0	14	0.13
7	90	68	79	0	14	0.13
8	90	68	79	0	14	0.13
9	90	68	79	0	14	0.13
10	90	68	79	0	14	0.13
11	90	68	79	0	14	0.13
12	90	68	79	0	14	0.13
13	91	68	79	0	14	0.13
14	91	68	79	0	14	0.14
15	91	68	79	0	14	0.14
16	91	68	79	0	14	0.14
17	91	68	79	0	14	0.14
18	91	68	80	0	15	0.14
19	91	68	80	0	15	0.14
20	91	68	80	0	15	0.14
21	91	68	80	0	15	0.14
22	91	68	80	0	15	0.14
23	91	68	80	0	15	0.14
24	91	69	80	0	15	0.14
25	91	69	80	0	15	0.14
26	91	69	80	0	15	0.14
27	91	68	80	0	15	0.14
28	91	68	80	0	15	0.15
29	91	68	80	0	15	0.15
30	90	68	79	0	14	0.15
31	90	68	79	0	14	0.15
MTH	90.6	67.9	79.3	0	442	4.24

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	68	79	0	14	0.15
2	90	68	79	0	14	0.15
3	90	68	79	0	14	0.15
4	90	68	79	0	14	0.15
5	90	68	79	0	14	0.15
6	90	68	79	0	14	0.15
7	90	68	79	0	14	0.15
8	90	68	79	0	14	0.15
9	90	68	79	0	14	0.15
10	90	68	79	0	14	0.15
11	90	68	79	0	14	0.15
12	89	68	79	0	14	0.15
13	89	68	78	0	13	0.15
14	89	68	78	0	13	0.16
15	89	68	78	0	13	0.15
16	89	67	78	0	13	0.15
17	89	67	78	0	13	0.15
18	89	67	78	0	13	0.15
19	89	67	78	0	13	0.15
20	88	67	78	0	13	0.15
21	88	66	77	0	12	0.15
22	88	66	77	0	12	0.15
23	88	66	77	0	12	0.15
24	88	66	77	0	12	0.15
25	88	66	77	0	12	0.15
26	88	66	77	0	12	0.15
27	87	65	76	0	11	0.15
28	87	65	76	0	11	0.15
29	87	65	76	0	11	0.15
30	87	65	76	0	11	0.15
31	87	65	76	0	11	0.15
MTH	88.8	67.0	77.9	0	399	4.66

SUMMER SEASON: 88.8 66.2 77.5 1 1153 12.60

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	65	76	0	11	0.15
2	86	65	75	0	10	0.15
3	86	65	75	0	10	0.14
4	86	65	75	0	10	0.14
5	86	65	75	0	10	0.14
6	86	65	75	0	10	0.14
7	85	64	74	0	9	0.14
8	85	63	74	0	9	0.14
9	85	63	74	0	9	0.14
10	85	63	74	0	9	0.14
11	84	62	73	0	8	0.14
12	84	62	73	0	8	0.14
13	84	62	73	0	8	0.14
14	84	62	73	0	8	0.14
15	83	61	72	0	7	0.14
16	83	61	72	0	7	0.14
17	83	61	72	0	7	0.14
18	83	60	72	0	7	0.13
19	83	60	72	0	7	0.13
20	82	60	71	0	6	0.13
21	82	59	71	0	6	0.13
22	82	58	70	1	6	0.13
23	81	58	70	1	6	0.13
24	81	58	70	1	6	0.13
25	81	57	69	1	5	0.13
26	80	57	69	1	5	0.13
27	80	56	68	2	5	0.13
28	80	56	68	2	5	0.13
29	79	55	67	2	4	0.13
30	79	55	67	2	4	0.13
MTH	83.2	60.8	72.0	13	222	4.09

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	55	67	2	4	0.13
2	78	55	66	3	4	0.13
3	78	53	66	3	4	0.13
4	77	53	65	3	3	0.13
5	77	53	65	3	3	0.13
6	77	52	64	4	3	0.13
7	77	51	64	4	3	0.13
8	76	51	64	4	3	0.13
9	76	50	63	4	2	0.13
10	76	50	63	4	2	0.12
11	75	50	63	4	2	0.12
12	75	49	62	5	2	0.13
13	75	49	62	5	2	0.13
14	74	49	62	5	2	0.13
15	74	48	61	5	1	0.13
16	74	48	61	5	1	0.13
17	73	47	60	6	1	0.13
18	73	47	60	6	1	0.13
19	73	47	60	6	1	0.13
20	72	46	59	7	1	0.13
21	72	46	59	7	1	0.13
22	72	46	59	7	1	0.13
23	71	46	59	7	1	0.13
24	71	45	58	8	1	0.13
25	71	45	58	8	1	0.13
26	70	44	57	8	0	0.13
27	70	44	57	8	0	0.13
28	70	44	57	8	0	0.13
29	70	44	57	8	0	0.13
30	69	43	56	9	0	0.13
31	69	43	56	9	0	0.13
MTH	73.7	48.2	61.0	175	50	4.01

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	43	56	10	1	0.14
2	69	43	56	10	1	0.14
3	69	43	56	10	1	0.14
4	68	43	55	10	0	0.14
5	68	43	55	10	0	0.14
6	67	42	55	10	0	0.14
7	67	41	54	11	0	0.14
8	67	41	54	11	0	0.14
9	66	41	54	11	0	0.14
10	66	41	54	11	0	0.14
11	65	41	53	12	0	0.14
12	65	41	53	12	0	0.14
13	65	40	53	12	0	0.14
14	65	40	53	12	0	0.14
15	64	40	52	13	0	0.14
16	64	40	52	13	0	0.14
17	64	39	52	13	0	0.14
18	63	39	51	14	0	0.14
19	63	39	51	14	0	0.14
20	63	39	51	14	0	0.15
21	62	38	50	15	0	0.15
22	62	38	50	15	0	0.14
23	62	38	50	15	0	0.14
24	61	38	50	15	0	0.14
25	61	37	49	16	0	0.14
26	61	37	49	16	0	0.14
27	60	37	49	16	0	0.14
28	60	36	48	17	0	0.14
29	60	36	48	17	0	0.14
30	59	36	48	17	0	0.14
MTH	64.2	39.7	52.0	392	3	4.22

AUTUMN SEASON: 73.7 49.5 61.7 580 275 12.32

ANNUAL: 72.4 48.6 60.5 3193 1591 54.01

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: CLEMSON UNIVERSITY SOUTH CAROLINA Station Number: 381770

Latitude: 34° 39* 37(Longitude: -082° 49* 25(Elevation (feet): 824

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	1.05	0.78	0.84	0.41	0.42	0.32	0.38	0.31	0.29	0.04	0.87	0.61	32.96
0.010	1.26	0.96	1.05	0.54	0.55	0.43	0.50	0.43	0.40	0.08	1.04	0.77	34.66
0.050	2.03	1.62	1.82	1.03	1.08	0.87	1.02	0.96	0.87	0.30	1.63	1.37	39.60
0.100	2.56	2.08	2.37	1.40	1.49	1.21	1.41	1.38	1.25	0.56	2.02	1.81	42.42
0.200	3.31	2.75	3.19	1.96	2.13	1.75	2.03	2.06	1.85	1.08	2.58	2.46	46.02
0.300	3.95	3.32	3.89	2.46	2.69	2.24	2.58	2.69	2.39	1.64	3.04	3.02	48.74
0.400	4.55	3.87	4.57	2.95	3.25	2.72	3.13	3.32	2.94	2.25	3.48	3.57	51.14
0.500	5.17	4.43	5.28	3.47	3.83	3.23	3.71	3.99	3.52	2.96	3.93	4.13	53.46
0.600	5.84	5.05	6.05	4.04	4.49	3.80	4.36	4.75	4.18	3.80	4.42	4.76	55.85
0.700	6.62	5.77	6.96	4.72	5.27	4.48	5.13	5.67	4.97	4.87	4.98	5.49	58.49
0.800	7.62	6.70	8.13	5.61	6.29	5.38	6.14	6.88	6.01	6.36	5.70	6.44	61.67
0.900	9.16	8.14	9.95	7.00	7.90	6.80	7.74	8.81	7.68	8.85	6.79	7.93	66.27
0.950	10.57	9.47	11.64	8.31	9.41	8.13	9.25	10.64	9.25	11.32	7.80	9.30	70.24
0.990	13.57	12.30	15.26	11.14	12.71	11.05	12.54	14.68	12.71	16.97	9.92	12.27	78.10
0.995	14.78	13.46	16.74	12.31	14.07	12.26	13.90	16.36	14.14	19.39	10.78	13.49	81.11

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GAFFNEY 6 E SOUTH CAROLINA Station Number: 383356

Latitude: 35 B 05 * 32 (Longitude: -081 B 34* 33 (Elevation (feet): 650

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.11
4						0.11
5						0.11
6						0.11
7						0.12
8						0.12
9						0.12
10						0.12
11						0.12
12						0.12
13						0.12
14						0.12
15						0.12
16						0.12
17						0.12
18						0.12
19						0.12
20						0.12
21						0.13
22						0.13
23						0.13
24						0.13
25						0.13
26						0.13
27						0.14
28						0.14
29						0.14
30						0.14
31						0.14
MTH						3.84
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15
2						0.15
3						0.15
4						0.15
5						0.16
6						0.16
7						0.16
8						0.16
9						0.16
10						0.16
11						0.16
12						0.16
13						0.16
14						0.16
15						0.16
16						0.16
17						0.16
18						0.16
19						0.16
20						0.16
21						0.16
22						0.16
23						0.16
24						0.16
25						0.16
26						0.16
27						0.16
28						0.16
29						0.15
30						0.15
31						0.15
MTH						4.89
						12.73

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15
2						0.14
3						0.14
4						0.14
5						0.14
6						0.14
7						0.14
8						0.14
9						0.14
10						0.14
11						0.14
12						0.14
13						0.14
14						0.14
15						0.14
16						0.14
17						0.14
18						0.14
19						0.14
20						0.14
21						0.14
22						0.14
23						0.15
24						0.15
25						0.15
26						0.15
27						0.15
28						0.16
MTH						4.00

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.16
2						0.16
3						0.17
4						0.17
5						0.17
6						0.17
7						0.17
8						0.17
9						0.18
10						0.18
11						0.18
12						0.18
13						0.18
14						0.18
15						0.18
16						0.18
17						0.18
18						0.17
19						0.17
20						0.17
21						0.17
22						0.17
23						0.17
24						0.16
25						0.16
26						0.16
27						0.16
28						0.15
29						0.15
30						0.14
31						0.14
MTH						5.20
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.13
3						0.13
4						0.13
5						0.12
6						0.12
7						0.12
8						0.11
9						0.11
10						0.11
11						0.11
12						0.11
13						0.10
14						0.10
15						0.10
16						0.10
17						0.10
18						0.10
19						0.10
20						0.10
21						0.10
22						0.10
23						0.10
24						0.10
25						0.10
26						0.11
27						0.11
28						0.11
29						0.11
30						0.11
MTH						3.29
						12.71

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.12
4						0.12
5						0.12
6						0.13
7						0.13
8						0.13
9						0.13
10						0.13
11						0.14
12						0.14
13						0.14
14						0.14
15						0.14
16						0.14
17						0.14
18						0.14
19						0.14
20						0.14
21						0.14
22						0.14
23						0.14
24						0.15
25						0.15
26						0.15
27						0.14
28						0.14
29						0.14
30						0.14
31						0.14
MTH						4.22

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GAFFNEY 6 E SOUTH CAROLINA Station Number: 383356

Latitude: 35 B 05 * 32 (Longitude: -081 B 34* 33 (Elevation (feet): 650

Climate Division: SC 02 Northwest

JUNE							JULY							AUGUST						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14	1						0.13	1						0.13
2						0.14	2						0.13	2						0.13
3						0.14	3						0.12	3						0.13
4						0.14	4						0.12	4						0.13
5						0.14	5						0.12	5						0.14
6						0.14	6						0.12	6						0.14
7						0.14	7						0.12	7						0.14
8						0.14	8						0.12	8						0.14
9						0.14	9						0.12	9						0.14
10						0.14	10						0.12	10						0.14
11						0.13	11						0.12	11						0.14
12						0.13	12						0.12	12						0.14
13						0.13	13						0.12	13						0.14
14						0.13	14						0.12	14						0.14
15						0.13	15						0.12	15						0.14
16						0.13	16						0.12	16						0.14
17						0.13	17						0.12	17						0.14
18						0.13	18						0.13	18						0.14
19						0.13	19						0.13	19						0.14
20						0.13	20						0.13	20						0.14
21						0.13	21						0.13	21						0.14
22						0.13	22						0.13	22						0.14
23						0.13	23						0.13	23						0.14
24						0.13	24						0.13	24						0.14
25						0.13	25						0.13	25						0.14
26						0.13	26						0.13	26						0.14
27						0.13	27						0.13	27						0.14
28						0.13	28						0.13	28						0.14
29						0.12	29						0.13	29						0.14
30						0.12	30						0.13	30						0.13
							31						0.13	31						0.13
MTH						3.98	MTH						3.88	MTH						4.28
						SUMMER SEASON:							12.14							

SEPTEMBER							OCTOBER							NOVEMBER						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14	1						0.13	1						0.13
2						0.14	2						0.13	2						0.13
3						0.13	3						0.13	3						0.13
4						0.13	4						0.13	4						0.13
5						0.13	5						0.14	5						0.13
6						0.13	6						0.14	6						0.13
7						0.13	7						0.14	7						0.13
8						0.13	8						0.14	8						0.13
9						0.13	9						0.14	9						0.13
10						0.13	10						0.14	10						0.13
11						0.13	11						0.14	11						0.13
12						0.13	12						0.14	12						0.12
13						0.13	13						0.14	13						0.12
14						0.13	14						0.14	14						0.12
15						0.13	15						0.14	15						0.12
16						0.13	16						0.14	16						0.12
17						0.13	17						0.14	17						0.12
18						0.13	18						0.14	18						0.12
19						0.13	19						0.14	19						0.12
20						0.13	20						0.14	20						0.12
21						0.13	21						0.14	21						0.12
22						0.13	22						0.14	22						0.12
23						0.13	23						0.14	23						0.12
24						0.13	24						0.14	24						0.12
25						0.13	25						0.14	25						0.12
26						0.13	26						0.14	26						0.12
27						0.13	27						0.13	27						0.12
28						0.13	28						0.13	28						0.12
29						0.13	29						0.13	29						0.12
30						0.13	30						0.13	30						0.12
							31						0.13							
MTH						3.92	MTH						4.25	MTH						3.71
						AUTUMN SEASON:							11.88							
						ANNUAL:							49.46							

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GAFFNEY 6 E SOUTH CAROLINA Station Number: 383356

Latitude: 35° 05* 32(Longitude: -081° 34* 33(Elevation (feet): 650

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.76	0.45	1.00	0.40	0.44	0.24	0.63	0.26	0.10	0.00	0.57	0.63	30.97
0.010	0.94	0.58	1.21	0.51	0.57	0.34	0.77	0.37	0.16	0.00	0.71	0.78	32.48
0.050	1.60	1.08	1.92	0.93	1.10	0.77	1.29	0.83	0.47	0.32	1.21	1.30	36.85
0.100	2.07	1.46	2.41	1.25	1.50	1.12	1.66	1.22	0.78	0.77	1.56	1.66	39.34
0.200	2.75	2.04	3.11	1.72	2.11	1.71	2.20	1.85	1.33	1.46	2.08	2.19	42.50
0.300	3.33	2.55	3.69	2.13	2.65	2.25	2.66	2.43	1.88	2.08	2.52	2.64	44.89
0.400	3.89	3.04	4.25	2.53	3.18	2.79	3.10	3.01	2.46	2.73	2.95	3.08	47.00
0.500	4.47	3.56	4.82	2.95	3.74	3.38	3.55	3.64	3.11	3.44	3.39	3.52	49.02
0.600	5.10	4.14	5.44	3.41	4.36	4.05	4.05	4.35	3.86	4.26	3.87	4.01	51.11
0.700	5.84	4.82	6.16	3.96	5.10	4.85	4.63	5.21	4.79	5.25	4.43	4.58	53.41
0.800	6.80	5.71	7.07	4.67	6.05	5.92	5.37	6.35	6.05	6.60	5.16	5.31	56.18
0.900	8.27	7.10	8.48	5.78	7.57	7.63	6.53	8.17	8.13	8.78	6.29	6.43	60.18
0.950	9.64	8.40	9.77	6.82	8.98	9.25	7.59	9.91	10.15	10.89	7.33	7.48	63.63
0.990	12.57	11.22	12.52	9.06	12.05	12.85	9.87	13.74	14.69	15.61	9.56	9.70	70.43
0.995	13.76	12.38	13.63	9.98	13.32	14.35	10.80	15.33	16.62	17.59	10.47	10.60	73.03

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GASTON SHOALS SOUTH CAROLINA Station Number: 383433

Latitude: 35 B 08 * 26 (Longitude: -081 B 36* 39 (Elevation (feet): 600

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.12
4						0.12
5						0.12
6						0.12
7						0.12
8						0.12
9						0.12
10						0.12
11						0.12
12						0.12
13						0.12
14						0.12
15						0.12
16						0.12
17						0.12
18						0.12
19						0.12
20						0.12
21						0.13
22						0.13
23						0.13
24						0.13
25						0.13
26						0.13
27						0.13
28						0.14
29						0.14
30						0.14
31						0.14
MTH						3.87
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.14
3						0.14
4						0.15
5						0.15
6						0.15
7						0.15
8						0.15
9						0.15
10						0.15
11						0.15
12						0.15
13						0.16
14						0.16
15						0.16
16						0.16
17						0.16
18						0.16
19						0.16
20						0.16
21						0.16
22						0.16
23						0.16
24						0.16
25						0.15
26						0.15
27						0.15
28						0.15
29						0.15
30						0.15
31						0.15
MTH						4.74
						12.74

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15
2						0.15
3						0.15
4						0.15
5						0.14
6						0.14
7						0.14
8						0.14
9						0.14
10						0.14
11						0.14
12						0.14
13						0.14
14						0.14
15						0.14
16						0.15
17						0.15
18						0.15
19						0.15
20						0.15
21						0.15
22						0.15
23						0.15
24						0.15
25						0.16
26						0.16
27						0.16
28						0.16
MTH						4.13

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.16
2						0.17
3						0.17
4						0.17
5						0.17
6						0.17
7						0.17
8						0.17
9						0.18
10						0.18
11						0.18
12						0.18
13						0.18
14						0.18
15						0.17
16						0.17
17						0.17
18						0.17
19						0.17
20						0.17
21						0.17
22						0.16
23						0.16
24						0.16
25						0.16
26						0.15
27						0.15
28						0.15
29						0.14
30						0.14
31						0.14
MTH						5.13
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.13
4						0.12
5						0.12
6						0.12
7						0.11
8						0.11
9						0.11
10						0.11
11						0.11
12						0.10
13						0.10
14						0.10
15						0.10
16						0.10
17						0.10
18						0.10
19						0.10
20						0.10
21						0.10
22						0.10
23						0.11
24						0.11
25						0.11
26						0.11
27						0.11
28						0.12
29						0.12
30						0.12
MTH						3.31
						13.18

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.13
4						0.14
5						0.14
6						0.14
7						0.14
8						0.15
9						0.15
10						0.15
11						0.15
12						0.15
13						0.16
14						0.16
15						0.16
16						0.16
17						0.16
18						0.16
19						0.16
20						0.16
21						0.16
22						0.16
23						0.16
24						0.16
25						0.16
26						0.16
27						0.16
28						0.16
29						0.16
30						0.16
31						0.16
MTH						4.74

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GASTON SHOALS SOUTH CAROLINA Station Number: 383433

Latitude: 35 B 08 * 26 (Longitude: -081 B 36* 39 (Elevation (feet): 600

Climate Division: SC 02 Northwest

JUNE							JULY							AUGUST						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.16	1						0.12	1						0.13
2						0.15	2						0.12	2						0.13
3						0.15	3						0.12	3						0.13
4						0.15	4						0.12	4						0.13
5						0.15	5						0.12	5						0.13
6						0.15	6						0.12	6						0.13
7						0.15	7						0.12	7						0.13
8						0.15	8						0.12	8						0.13
9						0.15	9						0.12	9						0.13
10						0.14	10						0.12	10						0.13
11						0.14	11						0.12	11						0.13
12						0.14	12						0.12	12						0.13
13						0.14	13						0.12	13						0.13
14						0.14	14						0.12	14						0.13
15						0.14	15						0.12	15						0.13
16						0.14	16						0.12	16						0.13
17						0.14	17						0.12	17						0.13
18						0.13	18						0.12	18						0.13
19						0.13	19						0.12	19						0.14
20						0.13	20						0.12	20						0.13
21						0.13	21						0.12	21						0.13
22						0.13	22						0.12	22						0.13
23						0.13	23						0.12	23						0.13
24						0.13	24						0.12	24						0.13
25						0.13	25						0.12	25						0.13
26						0.13	26						0.12	26						0.13
27						0.13	27						0.12	27						0.13
28						0.13	28						0.12	28						0.13
29						0.12	29						0.12	29						0.13
30						0.12	30						0.12	30						0.13
							31						0.13	31						0.13
MTH						4.15	MTH						3.73	MTH						4.04
					SUMMER SEASON:								11.92							

SEPTEMBER							OCTOBER							NOVEMBER						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13	1						0.13	1						0.14
2						0.13	2						0.13	2						0.13
3						0.13	3						0.14	3						0.13
4						0.13	4						0.14	4						0.13
5						0.13	5						0.14	5						0.13
6						0.13	6						0.14	6						0.13
7						0.13	7						0.14	7						0.13
8						0.13	8						0.14	8						0.13
9						0.12	9						0.14	9						0.13
10						0.12	10						0.14	10						0.13
11						0.12	11						0.14	11						0.13
12						0.12	12						0.14	12						0.13
13						0.12	13						0.14	13						0.13
14						0.12	14						0.14	14						0.13
15						0.12	15						0.14	15						0.13
16						0.13	16						0.14	16						0.13
17						0.13	17						0.14	17						0.12
18						0.13	18						0.14	18						0.12
19						0.13	19						0.14	19						0.12
20						0.13	20						0.14	20						0.12
21						0.13	21						0.14	21						0.12
22						0.13	22						0.14	22						0.12
23						0.13	23						0.14	23						0.12
24						0.13	24						0.14	24						0.12
25						0.13	25						0.14	25						0.12
26						0.13	26						0.14	26						0.12
27						0.13	27						0.14	27						0.12
28						0.13	28						0.14	28						0.12
29						0.13	29						0.14	29						0.12
30						0.13	30						0.14	30						0.12
							31						0.13							
MTH						3.83	MTH						4.31	MTH						3.77
					AUTUMN SEASON:								11.91							
					ANNUAL:								49.75							

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GASTON SHOALS SOUTH CAROLINA Station Number: 383433

Latitude: 35B 08* 26(Longitude: -081B 36* 39(Elevation (feet): 600

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.70	0.37	1.05	0.35	0.33	0.37	0.45	0.42	0.00	0.00	0.56	0.59	30.98
0.010	0.87	0.49	1.25	0.46	0.45	0.49	0.58	0.54	0.00	0.00	0.70	0.73	32.50
0.050	1.51	0.99	1.96	0.88	0.99	0.99	1.06	1.05	0.53	0.33	1.20	1.25	36.93
0.100	1.96	1.38	2.43	1.19	1.42	1.37	1.41	1.43	1.03	0.80	1.56	1.62	39.45
0.200	2.62	1.98	3.12	1.67	2.11	1.98	1.95	2.02	1.68	1.49	2.09	2.16	42.66
0.300	3.19	2.52	3.68	2.09	2.75	2.52	2.41	2.53	2.22	2.12	2.54	2.62	45.08
0.400	3.74	3.05	4.22	2.50	3.39	3.06	2.87	3.04	2.76	2.78	2.98	3.07	47.22
0.500	4.31	3.62	4.77	2.94	4.07	3.63	3.34	3.57	3.33	3.50	3.43	3.53	49.28
0.600	4.93	4.25	5.37	3.42	4.84	4.26	3.86	4.17	3.96	4.32	3.93	4.03	51.40
0.700	5.66	5.00	6.06	3.99	5.76	5.02	4.48	4.87	4.72	5.33	4.51	4.63	53.73
0.800	6.61	5.99	6.94	4.73	6.98	6.02	5.28	5.79	5.71	6.68	5.26	5.39	56.55
0.900	8.07	7.56	8.28	5.90	8.94	7.59	6.54	7.24	7.29	8.88	6.43	6.57	60.61
0.950	9.43	9.03	9.51	7.00	10.78	9.08	7.71	8.60	8.78	11.00	7.50	7.67	64.11
0.990	12.34	12.24	12.12	9.38	14.85	12.32	10.24	11.55	12.04	15.74	9.82	10.02	71.03
0.995	13.53	13.57	13.18	10.36	16.54	13.66	11.28	12.76	13.40	17.73	10.76	10.98	73.69

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GRNVL SPART AP GREER SOUTH CAROLINA Station Number: 383747

Latitude: 34° 53* 58 (Longitude: -082° 13* 09 (Elevation (feet): 957

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	57	37	47	19	1	0.13
2	57	37	47	19	1	0.12
3	57	37	47	19	1	0.12
4	56	37	46	19	0	0.12
5	55	36	45	20	0	0.12
6	54	36	45	20	0	0.12
7	54	36	45	20	0	0.12
8	54	36	45	20	0	0.12
9	54	35	45	20	0	0.12
10	54	35	45	20	0	0.12
11	53	35	44	21	0	0.12
12	53	35	44	21	0	0.12
13	53	35	44	21	0	0.12
14	53	34	44	21	0	0.12
15	52	34	43	22	0	0.12
16	52	34	43	22	0	0.12
17	52	34	43	22	0	0.12
18	52	34	43	22	0	0.12
19	52	34	43	22	0	0.13
20	52	33	43	22	0	0.13
21	51	33	42	23	0	0.13
22	51	33	42	23	0	0.13
23	51	33	42	23	0	0.13
24	51	33	42	23	0	0.13
25	51	33	42	23	0	0.13
26	51	33	42	23	0	0.13
27	51	33	42	23	0	0.13
28	50	32	41	24	0	0.13
29	50	32	41	24	0	0.13
30	50	32	41	24	0	0.13
31	50	32	41	24	0	0.13
MTH	52.7	34.3	43.5	669	3	3.86
WINTER SEASON:						

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	50	32	41	24	0	0.13
2	50	32	41	24	0	0.13
3	50	32	41	24	0	0.14
4	50	32	41	24	0	0.14
5	50	32	41	24	0	0.14
6	50	32	41	24	0	0.14
7	50	32	41	24	0	0.14
8	50	31	41	24	0	0.14
9	50	31	40	25	0	0.14
10	50	31	40	25	0	0.14
11	50	31	40	25	0	0.14
12	50	31	40	25	0	0.14
13	50	31	40	25	0	0.14
14	50	31	40	25	0	0.14
15	50	31	40	25	0	0.14
16	50	31	40	25	0	0.14
17	50	31	41	24	0	0.14
18	50	31	41	24	0	0.14
19	50	31	41	24	0	0.14
20	50	31	41	24	0	0.15
21	50	31	41	24	0	0.15
22	50	31	41	24	0	0.15
23	50	31	41	24	0	0.15
24	50	31	41	24	0	0.15
25	50	31	41	24	0	0.15
26	51	31	41	24	0	0.15
27	51	31	41	24	0	0.15
28	51	32	41	24	0	0.15
29	51	32	41	24	0	0.14
30	51	32	42	23	0	0.14
31	51	32	42	23	0	0.14
MTH	50.2	31.4	40.8	750	0	4.41
	52.5	33.2	42.9	1996	3	12.51

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	32	42	23	0	0.14
2	52	32	42	23	0	0.14
3	52	32	42	23	0	0.14
4	52	32	42	23	0	0.14
5	53	32	42	23	0	0.14
6	53	32	43	22	0	0.14
7	53	33	43	22	0	0.14
8	53	33	43	22	0	0.14
9	53	33	43	22	0	0.15
10	53	33	43	22	0	0.15
11	54	33	44	21	0	0.15
12	54	33	44	21	0	0.15
13	54	33	44	21	0	0.15
14	55	34	44	21	0	0.15
15	55	34	44	21	0	0.15
16	55	34	45	20	0	0.15
17	55	34	45	20	0	0.15
18	55	34	45	20	0	0.15
19	56	35	45	20	0	0.15
20	56	35	45	20	0	0.16
21	56	35	46	19	0	0.16
22	57	35	46	19	0	0.16
23	57	35	46	19	0	0.16
24	57	35	46	19	0	0.16
25	57	36	47	18	0	0.16
26	58	36	47	18	0	0.17
27	58	36	47	18	0	0.17
28	58	37	48	17	0	0.17
MTH	54.8	33.9	44.4	577	0	4.24

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	37	48	17	0	0.17
2	59	38	48	17	0	0.17
3	59	38	48	17	0	0.17
4	59	38	48	17	0	0.18
5	60	38	49	16	0	0.18
6	60	38	49	16	0	0.18
7	60	39	49	16	0	0.18
8	60	39	50	15	0	0.18
9	61	39	50	15	0	0.18
10	61	39	50	15	0	0.18
11	61	39	50	15	0	0.18
12	62	40	51	14	0	0.18
13	62	40	51	14	0	0.18
14	62	40	51	14	0	0.18
15	62	40	51	14	0	0.18
16	63	41	52	13	0	0.18
17	63	41	52	13	0	0.18
18	63	41	52	13	0	0.18
19	63	41	52	13	0	0.18
20	64	41	53	12	0	0.17
21	64	42	53	12	0	0.17
22	64	42	53	12	0	0.17
23	64	42	53	12	0	0.17
24	65	42	54	11	0	0.17
25	65	42	54	11	0	0.16
26	66	42	54	11	0	0.16
27	66	43	55	11	1	0.16
28	66	43	55	11	1	0.15
29	66	43	55	11	1	0.15
30	67	43	55	11	1	0.15
31	67	43	55	11	1	0.14
MTH	62.7	40.5	51.6	420	5	5.31
SPRING SEASON:						

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	67	43	55	10	0	0.14
2	67	43	55	10	0	0.14
3	68	43	55	10	0	0.13
4	68	43	55	10	0	0.13
5	68	44	56	9	0	0.13
6	69	45	57	9	1	0.12
7	69	45	57	9	1	0.12
8	69	46	57	9	1	0.12
9	69	46	57	9	1	0.12
10	70	46	58	8	1	0.12
11	70	46	58	8	1	0.11
12	70	46	58	8	1	0.11
13	71	46	58	8	1	0.11
14	71	46	58	8	1	0.11
15	71	47	59	7	1	0.11
16	71	47	59	7	1	0.11
17	72	47	60	6	1	0.11
18	72	47	60	6	1	0.11
19	72	48	60	6	1	0.11
20	72	48	60	6	1	0.11
21	72	48	60	6	1	0.11
22	73	49	61	5	1	0.11
23	73	49	61	5	1	0.11
24	73	49	61	5	1	0.11
25	73	50	62	5	2	0.11
26	74	50	62	5	2	0.12
27	74	51	63	4	2	0.12
28	74	51	63	4	2	0.12
29	74	51	63	4	2	0.12
30	75	51	63	4	2	0.13
MTH	71.0	47.0	59.0	210	31	3.53
	70.6	47.9	59.3	689	164	13.43

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	75	52	63	4	2	0.13
2	75	52	63	4	2	0.13
3	75	52	63	4	2	0.14
4	75	52	63	4	2	0.14
5	76	52	64	3	2	0.14
6	76	53	64	3	2	0.14
7	76	53	64	3	2	0.14
8	76	54	65	3	3	0.15
9	77	54	65	3	3	0.15
10	77	54	66	2	3	0.15
11	77	55	66	2	3	0.15
12	77	55	66	2	3	0.15
13	77	56	67	2	4	0.15
14	78	56	67	2	4	0.15
15	78	56	67	2	4	0.15
16	78	57	68	1	4	0.15
17	78	57	68	1	4	0.16
18	79	57	68	1	4	0.16
19	79	58	69	1	5	0.16
20	79	58	69	1	5	0.16
21	79	58	69	1	5	0.15
22	80	58	69	1	5	0.15
23	80	58	69	1	5	0.15
24	80	58	69	1	5	0.15
25	80	59	70	1	6	0.15
26	81	59	70	1	6	0.15
27	81	59	70	1	6	0.15
28	81	59	70	1	6	0.15
29	81	60	71	1	7	0.15
30	82	60	71	1	7	0.15
31	82	60	71	1	7	0.14
MTH	78.2	56.2	67.2	59	128	4.59

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GRNVL SPART AP GREER SOUTH CAROLINA Station Number: 383747

Latitude: 34 B 53 * 58 (Longitude: -082 B 13 * 09 (Elevation (feet): 957

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	82	60	71	1	7	0.14
2	82	61	71	1	7	0.14
3	83	61	72	0	7	0.14
4	83	61	72	0	7	0.13
5	83	62	72	0	7	0.13
6	83	62	72	0	7	0.13
7	83	63	73	0	8	0.13
8	84	63	73	0	8	0.13
9	84	63	73	0	8	0.13
10	84	63	73	0	8	0.13
11	84	63	73	0	8	0.13
12	85	64	74	0	9	0.13
13	85	64	74	0	9	0.13
14	85	64	75	0	10	0.13
15	85	64	75	0	10	0.12
16	85	65	75	0	10	0.12
17	86	65	76	0	11	0.12
18	86	65	76	0	11	0.13
19	86	65	76	0	11	0.13
20	86	65	76	0	11	0.13
21	86	66	76	0	11	0.13
22	86	66	76	0	11	0.13
23	87	66	77	0	12	0.13
24	87	66	77	0	12	0.13
25	87	66	77	0	12	0.13
26	87	67	77	0	12	0.13
27	87	67	77	0	12	0.13
28	87	67	77	0	12	0.13
29	88	67	78	0	13	0.14
30	88	67	78	0	13	0.14
MTH	85.1	64.3	74.7	2	294	3.92

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	67	78	0	13	0.14
2	88	68	78	0	13	0.14
3	88	68	78	0	13	0.14
4	88	68	78	0	13	0.15
5	88	68	78	0	13	0.15
6	89	68	79	0	14	0.15
7	89	68	79	0	14	0.15
8	89	68	79	0	14	0.15
9	89	69	79	0	14	0.15
10	89	69	79	0	14	0.15
11	89	69	79	0	14	0.15
12	89	69	79	0	14	0.15
13	89	69	79	0	14	0.15
14	89	69	79	0	14	0.15
15	89	69	79	0	14	0.15
16	89	69	79	0	14	0.15
17	89	69	79	0	14	0.16
18	89	69	79	0	14	0.16
19	89	69	79	0	14	0.16
20	89	69	79	0	14	0.15
21	89	69	79	0	14	0.15
22	89	69	79	0	14	0.15
23	89	69	79	0	14	0.15
24	89	69	79	0	14	0.15
25	89	69	79	0	14	0.15
26	89	69	79	0	14	0.15
27	89	69	79	0	14	0.15
28	89	69	79	0	14	0.15
29	89	69	79	0	14	0.15
30	89	69	79	0	14	0.15
31	89	69	79	0	14	0.15
MTH	88.8	68.7	78.8	0	429	4.65
SUMMER SEASON:	87.0	67.0	77.0	2	1109	12.65

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	69	79	0	14	0.14
2	89	69	79	0	14	0.14
3	89	69	79	0	14	0.14
4	89	69	79	0	14	0.14
5	88	69	79	0	14	0.14
6	88	69	79	0	14	0.13
7	88	69	79	0	14	0.13
8	88	69	78	0	13	0.13
9	88	69	78	0	13	0.13
10	88	69	78	0	13	0.13
11	88	69	78	0	13	0.13
12	88	69	78	0	13	0.13
13	88	69	78	0	13	0.13
14	87	68	78	0	13	0.13
15	87	68	78	0	13	0.13
16	87	68	78	0	13	0.13
17	87	68	77	0	12	0.13
18	87	68	77	0	12	0.13
19	87	68	77	0	12	0.13
20	87	68	77	0	12	0.13
21	87	68	77	0	12	0.13
22	86	67	77	0	12	0.13
23	86	67	77	0	12	0.13
24	86	67	76	0	11	0.13
25	86	66	76	0	11	0.13
26	86	66	76	0	11	0.13
27	86	66	76	0	11	0.13
28	85	66	76	0	11	0.13
29	85	66	76	0	11	0.13
30	85	66	76	0	11	0.13
31	85	66	75	0	10	0.13
MTH	87.1	67.9	77.5	0	386	4.08

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	66	75	0	10	0.13
2	85	66	75	0	10	0.13
3	85	66	75	0	10	0.13
4	85	66	75	0	10	0.13
5	85	66	75	0	10	0.13
6	84	65	74	0	9	0.13
7	83	65	74	0	9	0.13
8	83	64	74	0	9	0.13
9	83	64	73	0	8	0.13
10	83	64	73	0	8	0.13
11	82	63	73	0	8	0.13
12	82	63	73	0	8	0.14
13	82	63	72	0	7	0.14
14	82	62	72	0	7	0.14
15	81	62	72	0	7	0.14
16	81	62	72	0	7	0.14
17	81	61	71	1	7	0.14
18	80	61	71	1	7	0.13
19	80	60	70	1	6	0.13
20	80	60	70	1	6	0.13
21	80	60	70	1	6	0.13
22	79	60	70	1	6	0.13
23	79	59	69	1	5	0.13
24	79	59	69	1	5	0.13
25	78	58	68	2	5	0.13
26	78	58	68	2	5	0.13
27	77	57	67	2	4	0.13
28	77	57	67	2	4	0.13
29	77	57	67	2	4	0.13
30	77	56	67	2	4	0.13
MTH	81.1	61.7	71.4	20	211	3.96

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	56	66	2	3	0.13
2	76	55	65	3	3	0.13
3	76	54	65	3	3	0.13
4	76	54	65	3	3	0.13
5	75	54	64	3	2	0.13
6	75	53	64	3	2	0.13
7	74	53	63	4	2	0.13
8	74	52	63	4	2	0.13
9	74	52	63	4	2	0.13
10	73	52	63	4	2	0.13
11	73	52	63	4	2	0.13
12	73	51	62	4	1	0.13
13	72	50	61	5	1	0.13
14	72	50	61	5	1	0.12
15	72	50	61	5	1	0.12
16	71	49	60	6	1	0.12
17	71	49	60	6	1	0.12
18	71	49	60	6	1	0.12
19	70	49	60	6	1	0.12
20	70	48	59	6	0	0.12
21	70	48	59	6	0	0.12
22	69	47	58	7	0	0.12
23	69	47	58	7	0	0.12
24	69	47	58	7	0	0.12
25	68	46	57	8	0	0.12
26	68	46	57	8	0	0.12
27	68	46	57	8	0	0.12
28	67	45	56	9	0	0.12
29	67	45	56	9	0	0.13
30	67	45	56	9	0	0.13
31	66	45	56	9	0	0.13
MTH	71.4	49.7	60.5	173	34	3.88
AUTUMN SEASON:	71.3	50.8	61.0	612	248	11.63
ANNUAL:	70.4	49.7	60.0	3299	1524	50.22

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	66	45	55	10	0	0.12
2	66	44	55	10	0	0.12
3	66	44	55	10	0	0.12
4	66	43	54	11	0	0.13
5	65	43	54	11	0	0.13
6	64	43	53	12	0	0.13
7	63	43	53	12	0	0.13
8	63	43	53	12	0	0.13
9	63	43	53	12	0	0.13
10	63	42	52	13	0	0.13
11	62	42	52	13	0	0.13
12	62	42	52	13	0	0.13
13	62	42	52	13	0	0.13
14	62	41	52	13	0	0.13
15	61	41	51	14	0	0.13
16	61	41	51	14	0	0.13
17	61	41	51	14	*	0.13
18	60	41	51	14	*	0.13
19	60	41	51	15	*	0.13
20	60	41	51	15	*	0.13
21	60	40	50	16	*	0.13
22	59	39	49	16	*	0.13
23	59	39	49	16	*	0.12
24	59	39	49	16	0	0.12
25	58	38	48	17	0	0.12
26	58	38	48	17	0	0.12
27	58	38	48	17	0	0.12
28	57	38	48	17	0	0.12
29	57	37	47	18	0	0.12
30	57	37	47	18	0	0.12
MTH	61.3	41.0	51.1	419	3	3.79

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: GRNVL SPART AP GREER SOUTH CAROLINA Station Number: 383747

Latitude: 34B 53* 58(Longitude: -082B 13* 09(Elevation (feet): 957

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.63	0.51	0.91	0.35	0.64	0.24	0.28	0.22	0.23	0.00	0.84	0.54	29.30
0.010	0.79	0.65	1.11	0.46	0.81	0.34	0.39	0.32	0.33	0.00	0.99	0.68	30.96
0.050	1.38	1.20	1.83	0.89	1.42	0.77	0.90	0.75	0.76	0.20	1.52	1.19	35.82
0.100	1.80	1.60	2.33	1.23	1.85	1.12	1.32	1.11	1.11	0.55	1.87	1.55	38.61
0.200	2.42	2.21	3.07	1.74	2.50	1.70	2.00	1.71	1.69	1.14	2.36	2.10	42.19
0.300	2.96	2.74	3.68	2.19	3.06	2.23	2.63	2.27	2.23	1.71	2.77	2.57	44.91
0.400	3.47	3.26	4.27	2.64	3.60	2.76	3.26	2.83	2.78	2.32	3.16	3.02	47.32
0.500	4.01	3.80	4.88	3.12	4.16	3.34	3.95	3.44	3.36	3.00	3.55	3.50	49.65
0.600	4.59	4.39	5.54	3.65	4.77	3.99	4.73	4.14	4.03	3.79	3.97	4.02	52.05
0.700	5.28	5.10	6.32	4.27	5.50	4.78	5.66	4.98	4.83	4.78	4.46	4.63	54.71
0.800	6.17	6.01	7.31	5.09	6.43	5.81	6.90	6.09	5.89	6.12	5.09	5.41	57.94
0.900	7.56	7.44	8.84	6.39	7.89	7.48	8.90	7.89	7.60	8.35	6.04	6.64	62.61
0.950	8.84	8.78	10.25	7.60	9.23	9.06	10.79	9.60	9.23	10.52	6.90	7.78	66.65
0.990	11.59	11.67	13.26	10.24	12.13	12.56	14.97	13.40	12.83	15.43	8.73	10.22	74.69
0.995	12.72	12.85	14.48	11.33	13.32	14.01	16.72	14.98	14.33	17.51	9.47	11.23	77.78

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: LAURENS SOUTH CAROLINA Station Number: 385017

Latitude: 34 B 30 * 55 (Longitude: -082 B 02* 19 (Elevation (feet): 589

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	60	33	46	19	0	0.12
2	60	33	46	19	0	0.12
3	60	33	46	19	0	0.12
4	58	32	45	20	0	0.12
5	58	32	45	20	0	0.12
6	58	32	45	20	0	0.12
7	57	31	44	21	0	0.12
8	57	31	44	21	0	0.12
9	57	31	44	21	0	0.12
10	57	31	44	21	0	0.12
11	56	31	44	21	0	0.12
12	56	30	43	22	0	0.12
13	56	30	43	22	0	0.12
14	55	30	43	22	0	0.12
15	55	30	43	22	0	0.12
16	54	30	42	23	0	0.12
17	54	30	42	23	0	0.12
18	54	30	42	23	0	0.12
19	54	30	42	23	0	0.12
20	54	29	42	23	0	0.12
21	54	29	42	23	0	0.12
22	53	29	41	24	0	0.13
23	53	29	41	24	0	0.13
24	53	29	41	24	0	0.13
25	53	29	41	24	0	0.13
26	53	29	41	24	0	0.13
27	53	29	41	24	0	0.13
28	53	29	41	24	0	0.14
29	53	29	41	24	0	0.14
30	53	29	41	24	0	0.14
31	52	29	41	24	0	0.14
MTH	55.3	30.3	42.8	688	0	3.86

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	29	41	24	0	0.14
2	52	29	41	24	0	0.15
3	52	29	41	24	0	0.15
4	52	29	41	24	0	0.15
5	52	29	40	25	0	0.15
6	52	29	40	25	0	0.16
7	52	29	40	25	0	0.16
8	52	29	40	25	0	0.16
9	52	29	40	25	0	0.16
10	52	29	40	25	0	0.16
11	52	29	40	25	0	0.16
12	52	29	40	25	0	0.16
13	52	29	40	25	0	0.16
14	52	29	40	25	0	0.16
15	52	28	40	25	0	0.17
16	52	28	40	25	0	0.17
17	52	28	40	25	0	0.17
18	52	28	40	25	0	0.17
19	52	28	40	25	0	0.17
20	52	28	40	25	0	0.17
21	52	28	40	25	0	0.17
22	53	28	41	24	0	0.17
23	53	28	41	24	0	0.17
24	53	28	41	24	0	0.16
25	53	28	41	24	0	0.16
26	53	28	41	24	0	0.16
27	53	28	41	24	0	0.16
28	53	28	41	24	0	0.16
29	53	28	41	24	0	0.16
30	54	28	41	24	0	0.16
31	54	28	41	24	0	0.16
MTH	52.4	28.5	40.5	761	0	4.99

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	29	41	24	0	0.15
2	54	29	41	24	0	0.15
3	54	29	41	24	0	0.15
4	55	29	42	23	0	0.15
5	55	29	42	23	0	0.15
6	55	29	42	23	0	0.15
7	55	29	42	23	0	0.15
8	55	29	42	23	0	0.15
9	56	29	42	23	0	0.15
10	56	29	43	22	0	0.15
11	56	29	43	22	0	0.15
12	57	29	43	22	0	0.15
13	57	29	43	22	0	0.15
14	57	30	43	22	0	0.15
15	57	30	44	21	0	0.15
16	57	30	44	21	0	0.15
17	58	30	44	21	0	0.15
18	58	30	44	21	0	0.15
19	58	31	45	20	0	0.15
20	59	31	45	20	0	0.15
21	59	31	45	20	0	0.15
22	59	31	45	20	0	0.15
23	59	32	46	19	0	0.15
24	60	32	46	19	0	0.16
25	60	32	46	19	0	0.16
26	60	32	46	19	0	0.16
27	60	33	47	18	0	0.16
28	61	33	47	18	0	0.16
MTH	57.2	30.2	43.7	596	0	4.25

WINTER SEASON: 54.9 29.6 42.3 2045 0 13.10

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	34	47	18	0	0.17
2	61	35	48	17	0	0.17
3	62	35	48	17	0	0.17
4	62	35	48	17	0	0.17
5	62	36	49	16	0	0.17
6	62	36	49	16	0	0.17
7	63	36	49	16	0	0.17
8	63	36	50	15	0	0.18
9	63	36	50	15	0	0.18
10	64	36	50	15	0	0.18
11	64	37	50	15	0	0.18
12	64	37	51	14	0	0.18
13	65	37	51	14	0	0.18
14	65	37	51	14	0	0.18
15	65	38	52	13	0	0.18
16	65	38	52	13	0	0.17
17	66	38	52	13	0	0.17
18	66	38	52	13	*	0.17
19	66	39	53	12	*	0.17
20	67	40	54	12	*	0.17
21	67	40	54	12	*	0.17
22	67	40	54	12	*	0.17
23	67	40	54	11	*	0.16
24	68	40	54	11	*	0.16
25	68	40	54	11	0	0.16
26	68	40	54	11	0	0.16
27	69	41	55	10	0	0.15
28	69	41	55	10	0	0.15
29	69	41	55	10	0	0.15
30	69	41	55	10	0	0.15
31	70	42	56	9	0	0.14
MTH	65.4	38.1	51.8	412	3	5.20

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	43	56	9	0	0.14
2	70	43	56	9	0	0.14
3	70	43	56	9	0	0.13
4	71	43	57	8	0	0.13
5	72	43	57	8	0	0.13
6	72	43	57	8	0	0.12
7	72	43	57	8	0	0.12
8	72	43	58	7	0	0.12
9	72	43	58	7	0	0.12
10	73	43	58	7	0	0.11
11	73	43	58	7	0	0.11
12	73	44	58	7	0	0.11
13	73	44	59	7	1	0.11
14	74	44	59	7	1	0.11
15	74	45	60	6	1	0.11
16	74	45	60	6	1	0.10
17	74	45	60	6	1	0.10
18	75	45	60	6	1	0.10
19	75	45	60	6	1	0.10
20	75	46	61	5	1	0.10
21	75	47	61	5	1	0.10
22	75	47	61	5	1	0.10
23	75	47	61	5	1	0.10
24	76	47	62	4	1	0.10
25	76	48	62	4	1	0.10
26	77	48	63	4	2	0.10
27	77	48	63	4	2	0.11
28	77	49	63	4	2	0.11
29	77	49	63	4	2	0.11
30	77	49	63	4	2	0.11
MTH	73.9	45.2	59.6	186	23	3.35

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	50	64	3	2	0.11
2	78	50	64	3	2	0.11
3	78	51	64	3	2	0.11
4	79	51	65	3	3	0.11
5	79	51	65	3	3	0.12
6	79	51	65	3	3	0.12
7	79	51	65	3	3	0.12
8	80	52	66	2	3	0.12
9	80	52	66	2	3	0.12
10	80	52	66	2	3	0.12
11	80	53	67	2	4	0.12
12	80	53	67	2	4	0.12
13	80	54	67	2	4	0.12
14	80	54	67	2	4	0.13
15	80	55	68	2	5	0.13
16	81	55	68	2	5	0.13
17	81	55	68	2	5	0.13
18	81	55	68	2	5	0.13
19	82	55	69	1	5	0.13
20	82	56	69	1	5	0.13
21	82	56	69	1	5	0.13
22	83	56	70	1	6	0.13
23	83	57	70	1	6	0.13
24	83	57	70	1	6	0.13
25	83	57	70	1	6	0.13
26	84	58	71	1	7	0.13
27	84	58	71	1	7	0.13
28	84	58	71	1	7	0.13
29	84	58	71	1	7	0.13
30	84	58	71	1	7	0.13
31	85	59	72	1	8	0.13
MTH	81.2	54.5	67.9	56	145	3.86

SPRING SEASON: 73.5 45.9 59.8 654 171 12.41

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: LAURENS SOUTH CAROLINA Station Number: 385017

Latitude: 34 B 30 * 55 (Longitude: -082 B 02* 19 (Elevation (feet): 589

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	60	72	1	8	0.13
2	85	60	72	1	8	0.13
3	85	60	72	1	8	0.13
4	86	61	73	1	9	0.13
5	87	61	74	0	9	0.12
6	87	61	74	0	9	0.12
7	87	62	74	0	9	0.12
8	87	62	74	0	9	0.12
9	87	62	75	0	10	0.12
10	87	62	75	0	10	0.12
11	88	62	75	0	10	0.12
12	88	62	75	0	10	0.12
13	88	62	75	0	10	0.12
14	88	63	76	0	11	0.12
15	88	63	76	0	11	0.12
16	88	63	76	0	11	0.12
17	89	63	76	0	11	0.12
18	89	63	76	0	11	0.12
19	89	63	76	0	11	0.12
20	89	64	77	0	12	0.12
21	89	64	77	0	12	0.12
22	89	65	77	0	12	0.12
23	89	65	77	0	12	0.12
24	89	65	77	0	12	0.12
25	89	65	77	0	12	0.11
26	90	65	78	0	13	0.11
27	90	66	78	0	13	0.11
28	90	66	78	0	13	0.11
29	90	66	78	0	13	0.11
30	90	66	78	0	13	0.11
MTH	88.1	63.1	75.6	4	322	3.58

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	91	65	78	0	13	0.11
2	91	66	78	0	13	0.11
3	91	66	78	0	13	0.11
4	91	67	79	0	14	0.11
5	91	67	79	0	14	0.11
6	91	67	79	0	14	0.11
7	91	67	79	0	14	0.11
8	91	67	79	0	14	0.11
9	91	67	79	0	14	0.11
10	91	67	79	0	14	0.11
11	91	67	79	0	14	0.11
12	91	67	79	0	14	0.11
13	91	67	79	0	14	0.11
14	91	67	79	0	14	0.11
15	91	67	79	0	14	0.11
16	92	67	79	0	14	0.11
17	92	67	80	0	15	0.11
18	92	68	80	0	15	0.11
19	92	68	80	0	15	0.11
20	92	68	80	0	15	0.11
21	92	68	80	0	15	0.11
22	92	68	80	0	15	0.11
23	92	68	80	0	15	0.11
24	92	68	80	0	15	0.11
25	92	68	80	0	15	0.11
26	92	68	80	0	15	0.11
27	91	68	80	0	15	0.11
28	91	68	80	0	15	0.11
29	91	67	79	0	14	0.11
30	91	67	79	0	14	0.12
31	91	67	79	0	14	0.12
MTH	91.4	67.2	79.3	0	443	3.43
SUMMER SEASON:	89.7	65.3	77.5	4	1157	10.75

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	91	67	79	0	14	0.12
2	91	67	79	0	14	0.12
3	91	67	79	0	14	0.12
4	91	67	79	0	14	0.12
5	91	67	79	0	14	0.12
6	91	67	79	0	14	0.12
7	91	67	79	0	14	0.12
8	91	67	79	0	14	0.12
9	91	67	79	0	14	0.12
10	91	67	79	0	14	0.12
11	91	67	79	0	14	0.12
12	90	66	78	0	13	0.12
13	90	66	78	0	13	0.12
14	90	66	78	0	13	0.12
15	90	66	78	0	13	0.12
16	90	66	78	0	13	0.12
17	90	66	78	0	13	0.12
18	90	65	78	0	13	0.12
19	89	65	77	0	12	0.12
20	89	65	77	0	12	0.12
21	89	65	77	0	12	0.12
22	89	65	77	0	12	0.12
23	89	65	77	0	12	0.12
24	89	65	77	0	12	0.12
25	88	64	76	0	11	0.12
26	88	64	76	0	11	0.12
27	88	64	76	0	11	0.12
28	88	64	76	0	11	0.12
29	88	64	76	0	11	0.13
30	87	63	75	0	10	0.13
31	87	63	75	0	10	0.12
MTH	89.7	65.6	77.7	0	392	3.74

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	63	75	0	10	0.13
2	87	63	75	0	10	0.13
3	87	63	75	0	10	0.13
4	86	63	74	0	9	0.13
5	86	63	74	0	9	0.13
6	86	63	74	0	9	0.12
7	86	62	74	0	9	0.12
8	86	62	74	0	9	0.12
9	86	61	73	0	8	0.12
10	86	61	73	0	8	0.12
11	86	61	73	0	8	0.12
12	85	60	73	0	8	0.12
13	85	59	72	0	7	0.12
14	85	59	72	0	7	0.12
15	84	59	72	0	7	0.12
16	84	59	72	0	7	0.12
17	84	58	71	0	6	0.12
18	83	58	71	0	6	0.12
19	83	57	70	1	6	0.12
20	83	57	70	1	6	0.12
21	83	57	70	1	6	0.12
22	82	57	70	1	6	0.12
23	82	56	69	1	5	0.12
24	82	55	69	1	5	0.12
25	82	55	69	1	5	0.12
26	81	55	68	1	4	0.12
27	80	54	67	2	4	0.12
28	80	53	67	2	4	0.12
29	80	52	66	3	4	0.12
30	79	52	66	3	4	0.12
MTH	83.9	58.6	71.3	18	206	3.65
AUTUMN SEASON:	74.2	46.8	60.6	660	254	11.24
ANNUAL:	73.1	46.9	60.1	3363	1582	47.50

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	52	65	3	3	0.12
2	79	52	65	3	3	0.12
3	79	52	65	3	3	0.12
4	78	51	64	4	3	0.12
5	78	51	64	4	3	0.12
6	78	51	64	4	3	0.12
7	77	49	63	4	2	0.12
8	76	48	62	5	2	0.12
9	76	48	62	5	2	0.12
10	76	47	62	5	2	0.12
11	75	47	61	6	2	0.12
12	75	47	61	6	2	0.12
13	74	46	60	6	1	0.12
14	74	46	60	6	1	0.12
15	74	45	60	6	1	0.12
16	74	44	59	7	1	0.12
17	74	44	59	7	1	0.12
18	73	44	59	7	1	0.12
19	73	43	58	8	1	0.12
20	73	43	58	8	1	0.12
21	72	43	58	8	1	0.12
22	72	42	57	9	1	0.12
23	72	42	57	9	1	0.12
24	71	42	57	9	1	0.12
25	71	41	56	9	0	0.12
26	71	41	56	9	0	0.12
27	70	41	56	9	0	0.12
28	70	41	56	9	0	0.12
29	70	40	55	10	0	0.12
30	70	40	55	10	0	0.12
31	69	40	55	10	0	0.12
MTH	74.0	45.3	59.7	208	42	3.72

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	40	55	11	1	0.13
2	69	40	54	12	1	0.13
3	69	40	54	12	1	0.13
4	68	40	54	12	1	0.13
5	68	40	54	12	1	0.13
6	68	40	54	12	1	0.13
7	67	39	53	12	0	0.13
8	67	38	53	12	0	0.13
9	67	38	53	12	0	0.13
10	66	38	52	13	0	0.13
11	66	38	52	13	0	0.13
12	66	37	52	13	0	0.13
13	65	37	51	14	0	0.13
14	65	37	51	14	0	0.13
15	65	37	51	14	0	0.13
16	65	36	51	14	0	0.13
17	64	36	50	15	0	0.13
18	64	36	50	15	0	0.13
19	64	36	50	15	0	0.13
20	63	35	49	16	0	0.13
21	63	35	49	16	0	0.13
22	63	35	49	16	0	0.13
23	62	35	49	16	0	0.13
24	62	34	48	17	0	0.13
25	62	34	48	17	0	0.13
26	61	34	48	17	0	0.13
27	61	33	47	18	0	0.13
28	61	33	47	18	0	0.12
29	60	33	47	18	0	0.12
30	60	33	47	18	0	0.12
MTH	64.7	36.6	50.7	434	6	3.87

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: LAURENS SOUTH CAROLINA Station Number: 385017

Latitude: 34° 30* 55(Longitude: -082° 02* 19(Elevation (feet): 589

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.99	0.69	0.69	0.38	0.24	0.21	0.27	0.18	0.14	0.00	0.49	0.59	29.09
0.010	1.19	0.85	0.87	0.49	0.34	0.30	0.36	0.26	0.22	0.00	0.62	0.73	30.57
0.050	1.87	1.42	1.55	0.92	0.76	0.68	0.76	0.64	0.56	0.19	1.12	1.25	34.90
0.100	2.34	1.83	2.04	1.24	1.11	1.00	1.08	0.97	0.87	0.53	1.49	1.61	37.37
0.200	3.01	2.42	2.78	1.72	1.68	1.53	1.58	1.52	1.40	1.10	2.04	2.16	40.52
0.300	3.56	2.92	3.42	2.14	2.20	2.01	2.03	2.03	1.90	1.64	2.52	2.62	42.90
0.400	4.09	3.40	4.05	2.55	2.73	2.50	2.49	2.56	2.42	2.23	2.99	3.06	45.00
0.500	4.63	3.89	4.69	2.99	3.29	3.03	2.97	3.13	3.00	2.88	3.48	3.52	47.03
0.600	5.22	4.43	5.41	3.47	3.93	3.64	3.52	3.78	3.65	3.64	4.01	4.02	49.12
0.700	5.90	5.07	6.24	4.04	4.70	4.36	4.17	4.57	4.46	4.58	4.64	4.61	51.42
0.800	6.76	5.88	7.33	4.77	5.72	5.32	5.02	5.62	5.53	5.86	5.46	5.37	54.21
0.900	8.09	7.14	9.03	5.94	7.36	6.87	6.38	7.32	7.28	7.99	6.75	6.55	58.23
0.950	9.31	8.30	10.60	7.02	8.91	8.34	7.67	8.95	8.96	10.06	7.94	7.64	61.70
0.990	11.89	10.79	13.99	9.37	12.34	11.59	10.49	12.56	12.71	14.74	10.51	9.98	68.55
0.995	12.94	11.80	15.39	10.33	13.76	12.94	11.66	14.08	14.29	16.73	11.57	10.93	71.19

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: LOCKHART SOUTH CAROLINA Station Number: 385232

Latitude: 34 B 46 * 52 (Longitude: -081 B 27* 17 (Elevation (feet): 400

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.10
2						0.10
3						0.10
4						0.10
5						0.10
6						0.10
7						0.10
8						0.10
9						0.10
10						0.11
11						0.11
12						0.11
13						0.11
14						0.11
15						0.11
16						0.11
17						0.11
18						0.11
19						0.11
20						0.12
21						0.12
22						0.12
23						0.12
24						0.12
25						0.12
26						0.12
27						0.13
28						0.13
29						0.13
30						0.13
31						0.13
MTH						3.49
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.14
3						0.14
4						0.14
5						0.14
6						0.15
7						0.15
8						0.15
9						0.15
10						0.15
11						0.15
12						0.15
13						0.15
14						0.15
15						0.15
16						0.15
17						0.16
18						0.16
19						0.16
20						0.16
21						0.15
22						0.15
23						0.15
24						0.15
25						0.15
26						0.15
27						0.15
28						0.15
29						0.15
30						0.15
31						0.15
MTH						4.64
						12.09

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.14
3						0.14
4						0.14
5						0.14
6						0.14
7						0.14
8						0.14
9						0.14
10						0.14
11						0.14
12						0.13
13						0.14
14						0.14
15						0.14
16						0.14
17						0.14
18						0.14
19						0.14
20						0.14
21						0.14
22						0.14
23						0.14
24						0.15
25						0.15
26						0.15
27						0.15
28						0.15
MTH						3.96

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.16
2						0.16
3						0.16
4						0.16
5						0.17
6						0.17
7						0.17
8						0.17
9						0.17
10						0.17
11						0.17
12						0.17
13						0.17
14						0.17
15						0.17
16						0.17
17						0.17
18						0.17
19						0.17
20						0.17
21						0.17
22						0.16
23						0.16
24						0.16
25						0.16
26						0.16
27						0.15
28						0.15
29						0.15
30						0.14
31						0.14
MTH						5.06
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.13
3						0.13
4						0.13
5						0.12
6						0.12
7						0.12
8						0.11
9						0.11
10						0.11
11						0.11
12						0.11
13						0.10
14						0.10
15						0.10
16						0.10
17						0.10
18						0.10
19						0.10
20						0.10
21						0.10
22						0.10
23						0.10
24						0.10
25						0.10
26						0.10
27						0.10
28						0.10
29						0.10
30						0.10
MTH						3.24
						11.76

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.10
2						0.10
3						0.10
4						0.10
5						0.10
6						0.10
7						0.11
8						0.11
9						0.11
10						0.11
11						0.11
12						0.11
13						0.11
14						0.11
15						0.11
16						0.11
17						0.11
18						0.11
19						0.11
20						0.11
21						0.12
22						0.12
23						0.12
24						0.12
25						0.12
26						0.12
27						0.12
28						0.12
29						0.12
30						0.12
31						0.12
MTH						3.46

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: LOCKHART SOUTH CAROLINA Station Number: 385232

Latitude: 34 B 46 * 52 (Longitude: -081 B 27 * 17 (Elevation (feet): 400

Climate Division: SC 02 Northwest

JUNE							JULY							AUGUST						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12	1						0.12	1						0.13
2						0.12	2						0.12	2						0.13
3						0.12	3						0.12	3						0.13
4						0.12	4						0.12	4						0.13
5						0.12	5						0.12	5						0.13
6						0.12	6						0.12	6						0.13
7						0.12	7						0.12	7						0.14
8						0.12	8						0.12	8						0.14
9						0.12	9						0.12	9						0.14
10						0.12	10						0.12	10						0.14
11						0.12	11						0.12	11						0.14
12						0.12	12						0.12	12						0.14
13						0.12	13						0.13	13						0.14
14						0.12	14						0.13	14						0.14
15						0.12	15						0.13	15						0.13
16						0.12	16						0.13	16						0.13
17						0.12	17						0.13	17						0.13
18						0.12	18						0.13	18						0.13
19						0.12	19						0.13	19						0.13
20						0.12	20						0.13	20						0.13
21						0.12	21						0.13	21						0.13
22						0.12	22						0.13	22						0.13
23						0.12	23						0.13	23						0.13
24						0.12	24						0.13	24						0.13
25						0.12	25						0.13	25						0.13
26						0.12	26						0.13	26						0.13
27						0.13	27						0.13	27						0.13
28						0.13	28						0.13	28						0.13
29						0.13	29						0.13	29						0.13
30						0.13	30						0.13	30						0.13
							31						0.13	31						0.12
MTH						3.64	MTH						3.91	MTH						4.10
						SUMMER SEASON:							11.65							

SEPTEMBER							OCTOBER							NOVEMBER						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12	1						0.13	1						0.13
2						0.12	2						0.13	2						0.12
3						0.12	3						0.13	3						0.12
4						0.12	4						0.13	4						0.12
5						0.12	5						0.13	5						0.12
6						0.12	6						0.13	6						0.12
7						0.12	7						0.13	7						0.12
8						0.12	8						0.13	8						0.12
9						0.12	9						0.13	9						0.12
10						0.12	10						0.13	10						0.11
11						0.12	11						0.14	11						0.11
12						0.11	12						0.14	12						0.11
13						0.11	13						0.14	13						0.11
14						0.11	14						0.14	14						0.11
15						0.11	15						0.14	15						0.11
16						0.11	16						0.14	16						0.11
17						0.12	17						0.14	17						0.11
18						0.12	18						0.14	18						0.11
19						0.12	19						0.14	19						0.11
20						0.12	20						0.14	20						0.11
21						0.12	21						0.13	21						0.11
22						0.12	22						0.13	22						0.11
23						0.12	23						0.13	23						0.11
24						0.12	24						0.13	24						0.10
25						0.12	25						0.13	25						0.10
26						0.12	26						0.13	26						0.10
27						0.12	27						0.13	27						0.10
28						0.12	28						0.13	28						0.10
29						0.12	29						0.13	29						0.10
30						0.13	30						0.13	30						0.10
							31						0.13							
MTH						3.56	MTH						4.13	MTH						3.33
						AUTUMN SEASON:							11.02							
						ANNUAL:							46.52							

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: LOCKHART SOUTH CAROLINA Station Number: 385232

Latitude: 34° 46* 52(Longitude: -081° 27* 17(Elevation (feet): 400

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.74	0.37	0.61	0.39	0.40	0.27	0.43	0.09	0.03	0.00	0.52	0.52	29.37
0.010	0.92	0.49	0.78	0.50	0.51	0.37	0.55	0.15	0.06	0.00	0.64	0.64	30.78
0.050	1.54	0.97	1.43	0.92	0.95	0.79	1.05	0.47	0.24	0.26	1.09	1.11	34.84
0.100	1.98	1.34	1.91	1.22	1.28	1.13	1.42	0.78	0.46	0.67	1.41	1.44	37.15
0.200	2.63	1.92	2.64	1.69	1.78	1.66	1.98	1.35	0.90	1.32	1.87	1.93	40.08
0.300	3.17	2.44	3.27	2.09	2.22	2.14	2.48	1.92	1.39	1.92	2.27	2.35	42.29
0.400	3.70	2.95	3.89	2.49	2.64	2.63	2.97	2.53	1.94	2.56	2.65	2.76	44.24
0.500	4.24	3.48	4.53	2.90	3.09	3.15	3.48	3.22	2.57	3.27	3.04	3.18	46.12
0.600	4.84	4.08	5.25	3.36	3.59	3.73	4.04	4.01	3.34	4.09	3.47	3.64	48.05
0.700	5.53	4.80	6.09	3.90	4.17	4.42	4.71	5.00	4.31	5.10	3.98	4.17	50.17
0.800	6.42	5.73	7.18	4.60	4.93	5.34	5.59	6.35	5.66	6.47	4.63	4.87	52.73
0.900	7.80	7.21	8.90	5.70	6.13	6.81	6.96	8.57	7.96	8.71	5.63	5.95	56.43
0.950	9.08	8.60	10.50	6.73	7.25	8.19	8.24	10.73	10.23	10.88	6.56	6.94	59.60
0.990	11.81	11.63	13.96	8.94	9.67	11.23	11.02	15.62	15.46	15.77	8.55	9.09	65.87
0.995	12.92	12.88	15.38	9.85	10.66	12.49	12.17	17.69	17.70	17.83	9.37	9.96	68.28

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: NINETY NINE ISLANDS SOUTH CAROLINA Station Number: 386293

Latitude: 35 B 03 * 53 (Longitude: -081 B 30* 19 (Elevation (feet): 500

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	57	32	45	20	0	0.12
2	57	32	44	21	0	0.12
3	57	32	44	21	0	0.12
4	57	31	44	21	0	0.11
5	56	31	43	22	0	0.11
6	56	31	43	22	0	0.11
7	56	31	43	22	0	0.11
8	55	31	43	22	0	0.11
9	54	31	43	22	0	0.11
10	54	30	42	23	0	0.11
11	54	30	42	23	0	0.11
12	54	30	42	23	0	0.11
13	54	30	42	23	0	0.11
14	53	30	42	23	0	0.11
15	53	29	41	24	0	0.12
16	53	29	41	24	0	0.12
17	53	29	41	24	0	0.12
18	52	29	41	24	0	0.12
19	52	29	41	24	0	0.12
20	52	28	40	25	0	0.12
21	52	28	40	25	0	0.12
22	52	28	40	25	0	0.12
23	52	28	40	25	0	0.12
24	51	28	40	25	0	0.12
25	51	28	40	25	0	0.12
26	51	28	40	25	0	0.13
27	50	28	39	26	0	0.13
28	50	28	39	26	0	0.13
29	50	28	39	26	0	0.13
30	50	28	39	26	0	0.13
31	50	28	39	26	0	0.13
MTH	53.2	29.5	41.4	733	0	3.67
				WINTER SEASON:		

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	50	28	39	26	0	0.13
2	50	28	39	26	0	0.13
3	50	28	39	26	0	0.14
4	50	28	39	26	0	0.14
5	50	28	39	26	0	0.14
6	50	28	39	26	0	0.14
7	50	28	39	26	0	0.14
8	50	28	39	26	0	0.14
9	50	28	39	26	0	0.14
10	50	27	39	26	0	0.15
11	50	27	38	27	0	0.15
12	50	27	38	27	0	0.15
13	50	27	39	26	0	0.15
14	50	27	39	26	0	0.15
15	50	27	39	26	0	0.15
16	50	27	39	26	0	0.15
17	50	27	39	26	0	0.15
18	50	27	39	26	0	0.15
19	50	27	39	26	0	0.15
20	51	27	39	26	0	0.15
21	51	27	39	26	0	0.15
22	51	27	39	26	0	0.15
23	51	27	39	26	0	0.15
24	51	27	39	26	0	0.15
25	51	27	39	26	0	0.15
26	51	27	39	26	0	0.15
27	51	27	39	26	0	0.15
28	51	27	39	26	0	0.15
29	51	27	39	26	0	0.15
30	52	28	40	25	0	0.15
31	52	28	40	25	0	0.14
MTH	50.5	27.4	39.0	806	0	4.53
	52.9	28.8	40.9	2175	0	12.27

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	28	40	25	0	0.15
2	52	28	40	25	0	0.14
3	52	28	40	25	0	0.14
4	53	28	40	25	0	0.14
5	53	28	40	25	0	0.14
6	53	28	41	24	0	0.14
7	53	28	41	24	0	0.14
8	54	28	41	24	0	0.14
9	54	28	41	24	0	0.14
10	54	28	41	24	0	0.14
11	54	29	41	24	0	0.14
12	54	29	42	23	0	0.14
13	55	29	42	23	0	0.14
14	55	29	42	23	0	0.14
15	55	29	42	23	0	0.14
16	55	29	42	23	0	0.14
17	56	30	43	22	0	0.14
18	56	30	43	22	0	0.15
19	56	30	43	22	0	0.15
20	56	30	43	22	0	0.15
21	57	31	44	21	0	0.15
22	57	31	44	21	0	0.15
23	57	31	44	21	0	0.15
24	57	31	44	21	0	0.15
25	58	31	45	20	0	0.15
26	58	32	45	20	0	0.16
27	58	32	45	20	0	0.16
28	58	32	45	20	0	0.16
MTH	55.1	29.5	42.3	636	0	4.07

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	33	46	19	0	0.16
2	59	33	46	19	*	0.16
3	59	34	46	19	*	0.16
4	60	34	47	19	*	0.16
5	60	34	47	18	*	0.17
6	61	34	47	18	*	0.17
7	61	34	47	18	*	0.17
8	61	34	47	18	*	0.17
9	61	35	48	17	0	0.17
10	61	35	48	17	0	0.17
11	61	35	48	17	0	0.17
12	61	35	48	17	0	0.17
13	62	36	49	16	0	0.17
14	62	36	49	16	0	0.17
15	62	36	49	16	0	0.17
16	63	36	50	15	0	0.17
17	63	37	50	15	0	0.17
18	63	37	50	15	0	0.16
19	63	37	50	15	0	0.16
20	64	37	51	14	0	0.16
21	64	37	51	14	0	0.16
22	65	37	51	14	0	0.16
23	65	37	51	14	0	0.15
24	65	38	52	13	0	0.15
25	65	38	52	13	0	0.15
26	66	38	52	13	0	0.15
27	66	38	52	13	0	0.14
28	66	39	53	12	0	0.14
29	67	39	53	12	0	0.14
30	67	39	53	12	0	0.13
31	67	39	53	12	0	0.13
MTH	62.9	36.2	49.6	480	1	4.93
				SPRING SEASON:		

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	40	54	11	0	0.13
2	68	40	54	11	0	0.12
3	69	40	54	11	0	0.12
4	69	40	54	11	0	0.12
5	69	40	54	11	0	0.11
6	69	41	55	10	0	0.11
7	69	41	55	10	0	0.11
8	69	41	55	10	0	0.10
9	69	41	55	10	0	0.10
10	70	41	56	9	0	0.10
11	70	41	56	9	0	0.10
12	71	41	56	9	0	0.10
13	71	41	56	9	0	0.10
14	71	42	57	8	0	0.09
15	71	43	57	8	0	0.09
16	71	43	57	8	0	0.09
17	71	43	57	8	0	0.09
18	72	43	58	7	0	0.09
19	72	44	58	7	0	0.09
20	72	44	58	7	0	0.09
21	72	44	58	7	0	0.09
22	73	45	59	6	0	0.09
23	73	45	59	6	0	0.10
24	74	45	60	6	1	0.10
25	74	45	60	6	1	0.10
26	74	46	60	6	1	0.10
27	74	46	60	6	1	0.10
28	74	46	60	6	1	0.10
29	74	47	61	5	1	0.11
30	75	47	61	5	1	0.11
MTH	71.3	42.9	57.1	243	7	3.05
	70.6	43.9	57.3	812	102	12.13

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	75	48	61	5	1	0.11
2	75	48	61	5	1	0.11
3	75	48	61	5	1	0.12
4	75	48	61	5	1	0.12
5	75	50	62	5	2	0.12
6	76	50	63	4	2	0.12
7	76	50	63	4	2	0.13
8	76	50	63	4	2	0.13
9	77	50	63	4	2	0.13
10	77	51	64	3	2	0.13
11	77	51	64	3	2	0.13
12	77	51	64	3	2	0.14
13	77	52	65	3	3	0.14
14	77	52	65	3	3	0.14
15	77	53	65	3	3	0.14
16	77	53	65	3	3	0.14
17	77	53	65	3	3	0.14
18	78	53	66	2	3	0.14
19	78	54	66	2	3	0.14
20	79	54	67	2	4	0.14
21	79	54	67	2	4	0.14
22	79	55	67	2	4	0.14
23	79	55	67	2	4	0.14
24	79	55	67	2	4	0.14
25	79	55	67	2	4	0.14
26	79	55	67	2	4	0.14
27	80	56	68	2	5	0.14
28	80	57	69	1	5	0.14
29	80	57	69	1	5	0.14
30	81	57	69	1	5	0.14
31	81	57	69	1	5	0.14
MTH	77.7	52.7	65.2	89	94	4.15

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: NINETY NINE ISLANDS SOUTH CAROLINA Station Number: 386293

Latitude: 35 B 03 * 53 (Longitude: -081 B 30 * 19 (Elevation (feet): 500

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	81	58	69	1	5	0.14
2	82	58	70	1	6	0.14
3	82	59	70	1	6	0.13
4	82	59	70	1	6	0.13
5	82	59	70	1	6	0.13
6	82	59	70	1	6	0.13
7	82	59	70	1	6	0.13
8	83	59	71	1	7	0.13
9	83	59	71	1	7	0.13
10	83	60	72	0	7	0.13
11	83	60	72	0	7	0.13
12	83	61	72	0	7	0.13
13	83	61	72	0	7	0.13
14	84	61	73	0	8	0.13
15	84	61	73	0	8	0.12
16	84	62	73	0	8	0.12
17	84	62	73	0	8	0.12
18	84	62	73	0	8	0.12
19	85	62	74	0	9	0.12
20	85	62	74	0	9	0.12
21	85	63	74	0	9	0.12
22	85	63	74	0	9	0.12
23	85	63	74	0	9	0.12
24	85	63	74	0	9	0.12
25	85	63	74	0	9	0.12
26	86	64	75	0	10	0.12
27	86	64	75	0	10	0.12
28	86	64	75	0	10	0.12
29	86	64	75	0	10	0.12
30	86	65	75	0	10	0.12
MTH	83.9	61.3	72.6	9	236	3.76

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	66	76	0	11	0.12
2	86	67	76	0	11	0.12
3	86	67	76	0	11	0.11
4	87	66	76	0	11	0.11
5	87	66	76	0	11	0.11
6	87	66	76	0	11	0.11
7	87	66	76	0	11	0.11
8	87	66	77	0	12	0.11
9	87	66	77	0	12	0.11
10	87	66	77	0	12	0.12
11	87	66	77	0	12	0.12
12	88	66	77	0	12	0.12
13	87	66	77	0	12	0.12
14	88	66	77	0	12	0.12
15	88	66	77	0	12	0.12
16	88	66	77	0	12	0.12
17	88	66	77	0	12	0.12
18	88	66	77	0	12	0.12
19	88	66	77	0	12	0.12
20	88	66	77	0	12	0.12
21	88	66	77	0	12	0.12
22	88	66	77	0	12	0.13
23	88	66	77	0	12	0.13
24	88	66	77	0	12	0.13
25	88	66	77	0	12	0.13
26	88	66	77	0	12	0.13
27	88	66	77	0	12	0.13
28	88	66	77	0	12	0.13
29	88	66	77	0	12	0.14
30	88	66	77	0	12	0.14
31	88	66	77	0	12	0.14
MTH	87.5	66.1	76.8	0	365	3.78
SUMMER SEASON:	85.8	64.2	75.0	9	931	12.37

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	66	77	0	12	0.14
2	88	67	77	0	12	0.14
3	88	67	77	0	12	0.15
4	88	66	77	0	12	0.15
5	88	66	77	0	12	0.15
6	88	66	77	0	12	0.15
7	88	66	77	0	12	0.15
8	88	66	77	0	12	0.15
9	87	66	77	0	12	0.16
10	87	66	77	0	12	0.16
11	87	66	77	0	12	0.16
12	86	66	76	0	11	0.16
13	86	66	76	0	11	0.16
14	86	66	76	0	11	0.16
15	86	66	76	0	11	0.16
16	86	66	76	0	11	0.16
17	86	65	76	0	11	0.16
18	86	65	76	0	11	0.16
19	85	65	75	0	10	0.16
20	85	65	75	0	10	0.16
21	85	65	75	0	10	0.16
22	85	65	75	0	10	0.16
23	85	65	75	0	10	0.16
24	85	64	75	0	10	0.16
25	84	64	74	0	9	0.16
26	84	64	74	0	9	0.16
27	84	64	74	0	9	0.16
28	84	64	74	0	9	0.16
29	84	64	74	0	9	0.15
30	84	63	73	0	8	0.15
31	84	63	73	0	8	0.15
MTH	86.0	65.3	75.7	0	330	4.83

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	63	73	0	8	0.15
2	84	63	73	0	8	0.15
3	84	63	73	0	8	0.15
4	82	63	73	0	8	0.15
5	82	63	72	0	7	0.14
6	82	63	72	0	7	0.14
7	82	62	72	0	7	0.14
8	82	61	71	0	6	0.14
9	82	60	71	0	6	0.14
10	82	60	71	0	6	0.14
11	82	60	71	0	6	0.14
12	81	60	71	0	6	0.14
13	81	60	71	0	6	0.14
14	81	59	70	0	5	0.14
15	81	59	70	0	5	0.13
16	80	59	70	0	5	0.13
17	80	59	70	0	5	0.13
18	80	59	70	0	5	0.13
19	80	58	69	0	4	0.13
20	79	57	68	1	4	0.13
21	79	57	68	1	4	0.13
22	79	56	68	1	4	0.13
23	79	55	67	2	4	0.13
24	78	55	67	2	4	0.13
25	78	54	66	2	3	0.13
26	78	54	66	2	3	0.13
27	78	54	66	2	3	0.13
28	77	53	65	3	3	0.13
29	77	53	65	3	3	0.13
30	77	52	65	3	3	0.13
MTH	80.4	58.5	69.5	22	156	4.08
AUTUMN SEASON:	71.3	46.5	59.0	738	189	11.60
ANNUAL:	70.2	45.9	58.0	3734	1222	48.37

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	52	65	3	3	0.13
2	76	52	64	3	2	0.13
3	76	51	63	4	2	0.13
4	75	51	63	4	2	0.13
5	75	50	62	5	2	0.13
6	75	50	62	5	2	0.13
7	75	50	62	5	2	0.13
8	74	49	61	6	2	0.13
9	74	48	61	6	2	0.13
10	73	47	60	6	1	0.13
11	73	47	60	6	1	0.13
12	73	47	60	6	1	0.12
13	72	46	59	7	1	0.12
14	72	46	59	7	1	0.12
15	72	45	59	7	1	0.12
16	72	44	58	8	1	0.12
17	71	44	58	8	1	0.12
18	71	44	58	8	1	0.12
19	71	43	57	9	1	0.12
20	70	43	57	9	1	0.12
21	70	43	57	9	1	0.12
22	70	42	56	10	1	0.12
23	70	42	56	10	1	0.12
24	69	41	55	10	0	0.12
25	69	41	55	10	0	0.12
26	69	41	55	10	0	0.12
27	68	41	55	10	0	0.12
28	68	40	54	11	0	0.12
29	68	40	54	11	0	0.12
30	67	40	54	11	0	0.13
31	67	40	53	12	0	0.13
MTH	71.7	45.2	58.5	236	33	3.85
AUTUMN SEASON:	71.3	46.5	59.0	738	189	11.60
ANNUAL:	70.2	45.9	58.0	3734	1222	48.37

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	67	40	53	12	0	0.12
2	67	40	53	12	0	0.12
3	66	40	53	12	0	0.13
4	65	40	52	13	0	0.13
5	65	39	52	13	0	0.13
6	65	38	52	13	0	0.13
7	64	38	51	14	0	0.13
8	64	38	51	14	0	0.13
9	64	37	51	14	0	0.13
10	64	37	51	14	0	0.12
11	63	37	50	15	0	0.12
12	63	37	50	15	0	0.12
13	63	36	50	15	0	0.12
14	62	36	49	16	0	0.12
15	62	36	49	16	0	0.12
16	62	36	49	16	0	0.12
17	62	35	49	16	0	0.12
18	61	35	48	17	0	0.12
19	61	35	48	17	0	0.12
20	61	35	48	17	0	0.12
21	60	34	47	18	0	0.12
22	60	34	47	18	0	0.12
23	60	34	47	18	0	0.12
24	59	34	47	18	0	0.12
25	59	33	46	19	0	0.12
26	59	33	46	19	0	0.12
27	58	33	46	19	0	0.12
28	58	32	45	20	0	0.12
29	58	32	45	20	0	0.12
30	57	32	45	20	0	0.12
MTH	62.0	35.9	49.0	480	0	3.67

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: NINETY NINE ISLANDS SOUTH CAROLINA Station Number: 386293

Latitude: 35° 03* 53(Longitude: -081° 30* 19(Elevation (feet): 500

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.69	0.54	0.67	0.36	0.56	0.15	0.37	0.48	0.25	0.00	0.65	0.48	28.45
0.010	0.86	0.68	0.84	0.46	0.70	0.22	0.49	0.63	0.35	0.00	0.79	0.61	30.03
0.050	1.47	1.22	1.49	0.85	1.25	0.58	0.95	1.22	0.80	0.30	1.29	1.09	34.67
0.100	1.90	1.61	1.96	1.14	1.64	0.90	1.31	1.68	1.16	0.71	1.64	1.44	37.33
0.200	2.53	2.19	2.66	1.58	2.23	1.44	1.86	2.38	1.76	1.34	2.14	1.96	40.73
0.300	3.07	2.69	3.26	1.96	2.74	1.96	2.35	3.00	2.31	1.90	2.56	2.41	43.32
0.400	3.59	3.17	3.85	2.34	3.24	2.50	2.83	3.62	2.87	2.49	2.97	2.85	45.61
0.500	4.13	3.68	4.45	2.73	3.75	3.09	3.33	4.26	3.47	3.12	3.38	3.31	47.82
0.600	4.72	4.23	5.12	3.16	4.32	3.76	3.90	4.99	4.15	3.86	3.84	3.81	50.11
0.700	5.41	4.89	5.91	3.68	4.98	4.59	4.57	5.84	4.97	4.75	4.36	4.41	52.63
0.800	6.30	5.73	6.92	4.34	5.84	5.69	5.45	6.96	6.05	5.95	5.04	5.17	55.69
0.900	7.68	7.05	8.50	5.39	7.19	7.49	6.84	8.73	7.80	7.91	6.08	6.37	60.12
0.950	8.96	8.28	9.97	6.36	8.43	9.21	8.14	10.39	9.45	9.79	7.04	7.49	63.95
0.990	11.69	10.92	13.14	8.48	11.12	13.05	10.98	13.99	13.11	14.00	9.08	9.89	71.56
0.995	12.81	12.01	14.43	9.34	12.22	14.67	12.15	15.48	14.63	15.77	9.91	10.88	74.48

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: OAKWAY SOUTH CAROLINA Station Number: 386423

Latitude: 34 B 36 * 00 (Longitude: -083 B 02* 00 (Elevation (feet): 990

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.13
4						0.13
5						0.13
6						0.13
7						0.13
8						0.13
9						0.13
10						0.13
11						0.13
12						0.13
13						0.13
14						0.13
15						0.13
16						0.13
17						0.13
18						0.13
19						0.14
20						0.14
21						0.14
22						0.14
23						0.14
24						0.14
25						0.15
26						0.15
27						0.15
28						0.16
29						0.16
30						0.16
31						0.17
MTH						4.28
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.17
2						0.17
3						0.17
4						0.18
5						0.18
6						0.18
7						0.19
8						0.19
9						0.19
10						0.19
11						0.19
12						0.19
13						0.20
14						0.20
15						0.20
16						0.20
17						0.20
18						0.20
19						0.20
20						0.20
21						0.20
22						0.20
23						0.20
24						0.20
25						0.20
26						0.19
27						0.19
28						0.19
29						0.19
30						0.19
31						0.19
MTH						5.93
						15.07

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.18
2						0.18
3						0.18
4						0.18
5						0.18
6						0.17
7						0.17
8						0.17
9						0.17
10						0.17
11						0.17
12						0.17
13						0.17
14						0.17
15						0.17
16						0.17
17						0.17
18						0.17
19						0.17
20						0.17
21						0.17
22						0.17
23						0.17
24						0.18
25						0.18
26						0.18
27						0.18
28						0.18
MTH						4.86

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.18
2						0.19
3						0.19
4						0.19
5						0.19
6						0.19
7						0.19
8						0.19
9						0.19
10						0.20
11						0.20
12						0.19
13						0.19
14						0.19
15						0.19
16						0.19
17						0.19
18						0.19
19						0.19
20						0.19
21						0.18
22						0.18
23						0.18
24						0.18
25						0.17
26						0.17
27						0.17
28						0.16
29						0.16
30						0.16
31						0.15
MTH						5.67
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15
2						0.14
3						0.14
4						0.13
5						0.13
6						0.13
7						0.12
8						0.12
9						0.12
10						0.12
11						0.11
12						0.11
13						0.11
14						0.11
15						0.11
16						0.11
17						0.11
18						0.11
19						0.10
20						0.10
21						0.10
22						0.11
23						0.11
24						0.11
25						0.11
26						0.11
27						0.11
28						0.11
29						0.12
30						0.12
MTH						3.49
						13.36

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.13
4						0.13
5						0.13
6						0.13
7						0.13
8						0.13
9						0.14
10						0.14
11						0.14
12						0.14
13						0.14
14						0.14
15						0.14
16						0.14
17						0.14
18						0.14
19						0.14
20						0.14
21						0.14
22						0.14
23						0.14
24						0.14
25						0.14
26						0.14
27						0.14
28						0.13
29						0.13
30						0.13
31						0.13
MTH						4.20

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: OAKWAY SOUTH CAROLINA Station Number: 386423

Latitude: 34 B 36 * 00 (Longitude: -083 B 02* 00 (Elevation (feet): 990

Climate Division: SC 02 Northwest

JUNE							JULY							AUGUST						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13	1						0.14	1						0.14
2						0.12	2						0.14	2						0.13
3						0.12	3						0.14	3						0.13
4						0.12	4						0.14	4						0.13
5						0.12	5						0.15	5						0.13
6						0.12	6						0.15	6						0.13
7						0.12	7						0.15	7						0.12
8						0.12	8						0.15	8						0.12
9						0.12	9						0.15	9						0.12
10						0.12	10						0.15	10						0.12
11						0.12	11						0.15	11						0.12
12						0.11	12						0.15	12						0.12
13						0.11	13						0.15	13						0.12
14						0.11	14						0.16	14						0.12
15						0.11	15						0.16	15						0.12
16						0.11	16						0.16	16						0.12
17						0.12	17						0.16	17						0.12
18						0.12	18						0.16	18						0.12
19						0.12	19						0.16	19						0.12
20						0.12	20						0.15	20						0.12
21						0.12	21						0.15	21						0.12
22						0.12	22						0.15	22						0.12
23						0.12	23						0.15	23						0.12
24						0.12	24						0.15	24						0.12
25						0.12	25						0.15	25						0.12
26						0.13	26						0.15	26						0.12
27						0.13	27						0.15	27						0.12
28						0.13	28						0.15	28						0.12
29						0.13	29						0.14	29						0.12
30						0.13	30						0.14	30						0.12
							31						0.14	31						0.13
MTH						3.61	MTH						4.64	MTH						3.80
						SUMMER SEASON:							12.05							

SEPTEMBER							OCTOBER							NOVEMBER						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13	1						0.13	1						0.14
2						0.13	2						0.13	2						0.14
3						0.13	3						0.13	3						0.14
4						0.13	4						0.13	4						0.14
5						0.13	5						0.13	5						0.14
6						0.14	6						0.13	6						0.14
7						0.14	7						0.13	7						0.14
8						0.14	8						0.13	8						0.14
9						0.14	9						0.13	9						0.14
10						0.14	10						0.12	10						0.14
11						0.14	11						0.12	11						0.14
12						0.14	12						0.12	12						0.15
13						0.14	13						0.12	13						0.15
14						0.14	14						0.12	14						0.15
15						0.14	15						0.12	15						0.15
16						0.14	16						0.12	16						0.15
17						0.14	17						0.12	17						0.15
18						0.14	18						0.12	18						0.15
19						0.14	19						0.12	19						0.15
20						0.14	20						0.12	20						0.14
21						0.14	21						0.12	21						0.14
22						0.14	22						0.13	22						0.14
23						0.14	23						0.13	23						0.14
24						0.14	24						0.13	24						0.14
25						0.14	25						0.13	25						0.14
26						0.14	26						0.13	26						0.14
27						0.14	27						0.13	27						0.14
28						0.14	28						0.13	28						0.14
29						0.14	29						0.13	29						0.14
30						0.13	30						0.13	30						0.14
							31						0.14							
MTH						4.14	MTH						3.92	MTH						4.28
						AUTUMN SEASON:							12.34							
						ANNUAL:							52.82							

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: OAKWAY SOUTH CAROLINA Station Number: 386423

Latitude: 34° 36* 00(Longitude: -083° 02* 00(Elevation (feet): 990

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	1.08	0.61	0.95	0.43	0.54	0.24	0.35	0.25	0.20	0.06	1.02	0.52	34.10
0.010	1.31	0.78	1.16	0.55	0.68	0.33	0.48	0.35	0.29	0.10	1.19	0.66	35.64
0.050	2.12	1.41	1.93	1.01	1.23	0.74	1.02	0.77	0.71	0.35	1.78	1.22	40.09
0.100	2.68	1.87	2.47	1.34	1.63	1.07	1.45	1.12	1.07	0.62	2.17	1.62	42.61
0.200	3.49	2.56	3.25	1.84	2.23	1.60	2.13	1.68	1.67	1.15	2.72	2.24	45.81
0.300	4.16	3.17	3.91	2.27	2.75	2.08	2.74	2.19	2.24	1.69	3.17	2.77	48.22
0.400	4.81	3.75	4.55	2.69	3.25	2.57	3.36	2.70	2.82	2.29	3.59	3.29	50.34
0.500	5.47	4.37	5.20	3.13	3.78	3.09	4.01	3.25	3.45	2.96	4.02	3.83	52.37
0.600	6.19	5.04	5.91	3.62	4.36	3.68	4.75	3.88	4.17	3.77	4.48	4.43	54.46
0.700	7.03	5.84	6.75	4.19	5.04	4.39	5.63	4.63	5.05	4.78	5.01	5.14	56.76
0.800	8.11	6.88	7.82	4.93	5.93	5.33	6.79	5.62	6.22	6.16	5.69	6.06	59.53
0.900	9.76	8.49	9.47	6.10	7.31	6.83	8.65	7.21	8.11	8.48	6.71	7.51	63.52
0.950	11.28	10.00	11.00	7.18	8.60	8.26	10.40	8.71	9.91	10.75	7.64	8.85	66.94
0.990	14.51	13.25	14.25	9.52	11.38	11.40	14.23	12.03	13.92	15.93	9.60	11.75	73.69
0.995	15.83	14.58	15.58	10.48	12.52	12.70	15.82	13.41	15.60	18.14	10.39	12.94	76.27

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: PICKENS SOUTH CAROLINA Station Number: 386831

Latitude: 34 B 52 * 55 (Longitude: -082 B 43 * 08 (Elevation (feet): 1162

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	56	36	46	19	0	0.14
2	56	36	46	19	0	0.14
3	55	36	46	20	*	0.14
4	55	36	45	20	*	0.14
5	55	36	45	20	*	0.14
6	55	36	45	20	*	0.14
7	54	36	45	21	*	0.14
8	54	35	44	21	*	0.14
9	54	34	44	21	*	0.14
10	54	34	44	21	*	0.14
11	53	33	43	22	*	0.14
12	53	33	43	22	0	0.14
13	53	33	43	22	0	0.14
14	53	33	43	22	0	0.15
15	52	33	43	22	0	0.15
16	52	32	42	23	0	0.15
17	52	32	42	23	0	0.15
18	52	32	42	23	0	0.15
19	52	32	42	23	0	0.15
20	51	32	42	23	0	0.15
21	51	32	42	23	0	0.15
22	51	31	41	24	0	0.15
23	51	31	41	24	0	0.16
24	51	31	41	24	0	0.16
25	51	31	41	24	0	0.16
26	51	31	41	24	0	0.16
27	50	31	41	24	0	0.16
28	50	31	41	24	0	0.17
29	50	31	41	24	0	0.17
30	50	31	41	24	0	0.17
31	50	31	40	25	0	0.17
MTH	52.5	33.0	42.8	691	2	4.65
				WINTER SEASON:		

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	50	31	41	24	0	0.17
2	50	31	40	25	0	0.18
3	50	31	40	25	0	0.18
4	50	30	40	25	0	0.18
5	50	30	40	25	0	0.18
6	50	30	40	25	0	0.18
7	50	30	40	25	0	0.19
8	50	30	40	25	0	0.19
9	50	30	40	25	0	0.19
10	50	30	40	25	0	0.19
11	50	30	40	25	0	0.19
12	50	30	40	25	0	0.19
13	50	30	40	25	0	0.19
14	50	30	40	25	0	0.19
15	50	30	40	25	0	0.19
16	50	30	40	25	0	0.19
17	50	30	40	25	0	0.19
18	50	30	40	25	0	0.19
19	50	30	40	25	0	0.19
20	51	30	41	24	0	0.19
21	51	30	41	24	0	0.19
22	51	30	41	24	0	0.19
23	51	30	41	24	0	0.19
24	51	31	41	24	0	0.19
25	51	31	41	24	0	0.19
26	51	31	41	24	0	0.19
27	51	31	41	24	0	0.19
28	51	31	41	24	0	0.19
29	51	31	41	24	0	0.18
30	52	31	42	23	0	0.18
31	52	31	42	23	0	0.18
MTH	50.5	30.4	40.5	760	0	5.79
	52.7	32.2	42.5	2032	2	15.27

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	53	31	42	23	0	0.18
2	53	31	42	23	0	0.18
3	53	31	42	23	0	0.17
4	53	31	42	23	0	0.17
5	53	31	42	23	0	0.17
6	53	32	42	23	0	0.17
7	53	32	43	22	0	0.17
8	54	32	43	22	0	0.17
9	54	32	43	22	0	0.17
10	54	32	43	22	0	0.17
11	54	33	44	21	0	0.17
12	55	33	44	21	0	0.17
13	55	33	44	21	0	0.17
14	55	33	44	21	0	0.17
15	55	33	44	21	0	0.17
16	55	33	44	21	0	0.17
17	56	34	45	20	0	0.17
18	56	34	45	20	0	0.17
19	56	34	45	20	0	0.17
20	56	34	45	20	0	0.17
21	56	34	45	20	0	0.17
22	57	35	46	19	0	0.17
23	57	35	46	19	0	0.17
24	57	35	46	19	0	0.18
25	58	35	47	18	0	0.18
26	58	36	47	18	0	0.18
27	58	36	47	18	0	0.18
28	58	36	47	18	0	0.18
MTH	55.2	33.3	44.3	581	0	4.83

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	37	48	17	0	0.19
2	59	37	48	17	0	0.19
3	59	38	48	17	0	0.19
4	59	38	48	17	0	0.19
5	60	38	49	16	0	0.19
6	61	38	49	16	0	0.19
7	61	38	49	16	0	0.19
8	61	38	50	15	0	0.20
9	61	39	50	15	0	0.20
10	61	39	50	15	0	0.20
11	61	39	50	15	0	0.20
12	62	39	51	14	0	0.20
13	62	39	51	14	0	0.20
14	63	39	51	14	0	0.20
15	63	39	51	14	0	0.20
16	63	40	52	13	0	0.20
17	64	40	52	13	0	0.19
18	64	40	52	13	0	0.19
19	64	40	52	13	0	0.19
20	64	41	53	12	0	0.19
21	65	41	53	12	0	0.19
22	65	41	53	12	0	0.19
23	65	41	53	12	0	0.18
24	66	42	54	11	0	0.18
25	66	42	54	11	0	0.18
26	66	42	54	11	0	0.18
27	66	42	54	11	0	0.17
28	67	43	55	11	1	0.17
29	67	44	56	10	1	0.17
30	67	44	56	10	1	0.16
31	67	44	56	10	1	0.16
MTH	63.2	40.1	51.7	417	4	5.82
				SPRING SEASON:		

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	44	56	9	0	0.16
2	69	44	56	9	0	0.15
3	69	44	56	9	0	0.15
4	69	44	56	9	0	0.15
5	69	45	57	8	0	0.14
6	69	45	57	8	0	0.14
7	70	45	57	8	0	0.14
8	70	45	57	8	0	0.14
9	70	45	58	7	0	0.13
10	70	46	58	7	0	0.13
11	70	46	58	7	0	0.13
12	70	46	58	7	0	0.13
13	71	46	59	7	1	0.13
14	71	47	59	7	1	0.12
15	71	47	59	7	1	0.12
16	72	47	60	6	1	0.12
17	72	47	60	6	1	0.12
18	72	48	60	6	1	0.12
19	72	48	60	6	1	0.12
20	73	48	61	5	1	0.12
21	73	48	61	5	1	0.12
22	73	49	61	5	1	0.12
23	73	49	61	5	1	0.12
24	74	49	62	4	1	0.12
25	74	49	62	4	1	0.13
26	74	50	62	4	1	0.13
27	74	50	62	4	1	0.13
28	74	50	62	4	1	0.13
29	75	51	63	4	2	0.13
30	75	51	63	4	2	0.14
MTH	71.6	47.1	59.4	189	20	3.93
	71.2	47.5	59.4	655	138	14.54

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	75	52	63	4	2	0.14
2	76	53	64	3	2	0.14
3	76	53	64	3	2	0.14
4	76	53	64	3	2	0.14
5	76	53	64	3	2	0.15
6	77	53	65	2	2	0.15
7	77	53	65	2	2	0.15
8	77	54	65	2	2	0.15
9	77	54	66	2	3	0.15
10	77	54	66	2	3	0.15
11	78	54	66	2	3	0.15
12	78	54	66	2	3	0.16
13	78	54	66	2	3	0.16
14	78	55	67	1	3	0.16
15	79	55	67	1	3	0.16
16	79	55	67	1	3	0.16
17	79	56	68	1	4	0.16
18	79	56	68	1	4	0.16
19	79	56	68	1	4	0.16
20	80	56	68	1	4	0.16
21	80	56	68	1	4	0.16
22	80	57	69	1	5	0.16
23	80	57	69	1	5	0.16
24	81	57	69	1	5	0.16
25	81	57	69	1	5	0.16
26	81	57	69	1	5	0.16
27	81	57	69	1	5	0.16
28	82	58	70	1	6	0.16
29	82	58	70	1	6	0.16
30	82	59	70	1	6	0.15
31	82	60	71	0	6	0.15
MTH	78.8	55.4	67.1	49	114	4.79

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: PICKENS SOUTH CAROLINA Station Number: 386831

Latitude: 34 B 52 * 55 (Longitude: -082 B 43* 08 (Elevation (feet): 1162

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	83	60	71	0	6	0.15
2	83	60	71	*	7	0.15
3	83	60	72	*	7	0.15
4	83	61	72	*	7	0.15
5	83	61	72	*	7	0.14
6	84	61	73	*	8	0.14
7	84	61	73	0	8	0.14
8	84	61	73	0	8	0.14
9	84	62	73	0	8	0.14
10	84	62	73	0	8	0.14
11	85	62	74	0	9	0.14
12	85	62	74	0	9	0.14
13	85	63	74	0	9	0.14
14	85	63	74	0	9	0.14
15	85	63	74	0	9	0.14
16	85	63	74	0	9	0.14
17	85	64	75	0	10	0.14
18	86	64	75	0	10	0.14
19	86	64	75	0	10	0.14
20	86	64	75	0	10	0.14
21	86	64	75	0	10	0.13
22	86	64	75	0	10	0.13
23	87	65	76	0	11	0.13
24	87	65	76	0	11	0.14
25	87	65	76	0	11	0.14
26	87	65	76	0	11	0.14
27	87	65	76	0	11	0.14
28	87	65	76	0	11	0.14
29	88	66	77	0	12	0.14
30	88	66	77	0	12	0.14
MTH	85.3	63.0	74.2	1	278	4.21

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	66	77	0	12	0.14
2	88	67	77	0	12	0.14
3	88	67	77	0	12	0.14
4	88	67	77	0	12	0.14
5	88	67	78	0	13	0.14
6	88	67	78	0	13	0.14
7	88	67	78	0	13	0.14
8	88	67	78	0	13	0.14
9	88	67	78	0	13	0.14
10	89	67	78	0	13	0.14
11	89	67	78	0	13	0.15
12	89	67	78	0	13	0.15
13	89	67	78	0	13	0.15
14	89	67	78	0	13	0.15
15	89	67	78	0	13	0.15
16	89	67	78	0	13	0.15
17	89	67	78	0	13	0.15
18	89	67	78	0	13	0.15
19	89	67	78	0	13	0.15
20	89	67	78	0	13	0.15
21	89	67	78	0	13	0.15
22	89	67	78	0	13	0.15
23	89	67	78	0	13	0.15
24	89	67	78	0	13	0.15
25	89	67	78	0	13	0.15
26	89	67	78	0	13	0.15
27	89	67	78	0	13	0.15
28	89	67	78	0	13	0.16
29	89	67	78	0	13	0.16
30	89	67	78	0	13	0.16
31	89	67	78	0	13	0.16
MTH	88.7	67.0	77.9	0	399	4.59

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	67	78	0	13	0.16
2	89	67	78	0	13	0.16
3	89	67	78	0	13	0.16
4	89	67	78	0	13	0.16
5	89	67	78	0	13	0.16
6	89	67	78	0	13	0.16
7	89	67	78	0	13	0.16
8	89	67	78	0	13	0.16
9	88	67	77	0	12	0.16
10	88	67	77	0	12	0.16
11	88	67	77	0	12	0.16
12	88	66	77	0	12	0.16
13	88	66	77	0	12	0.16
14	87	66	77	0	12	0.16
15	87	66	77	0	12	0.16
16	87	66	77	0	12	0.16
17	87	66	77	0	12	0.16
18	86	66	76	0	11	0.16
19	86	66	76	0	11	0.16
20	86	66	76	0	11	0.16
21	86	66	76	0	11	0.15
22	86	65	76	0	11	0.15
23	86	65	76	0	11	0.15
24	85	65	75	0	10	0.15
25	85	65	75	0	10	0.15
26	85	65	75	0	10	0.15
27	85	65	75	0	10	0.15
28	85	65	75	0	10	0.15
29	85	65	75	0	10	0.15
30	85	64	74	0	9	0.15
31	85	64	74	0	9	0.14
MTH	87.0	66.0	76.5	0	356	4.84

SUMMER SEASON: 87.0 65.3 76.2 1 1033 13.64

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	64	74	0	9	0.14
2	85	64	74	0	9	0.14
3	85	64	74	0	9	0.14
4	85	64	74	0	9	0.14
5	83	64	74	0	9	0.14
6	83	64	74	0	9	0.13
7	83	64	74	0	9	0.13
8	83	63	73	0	8	0.13
9	83	63	73	0	8	0.13
10	83	62	72	0	7	0.13
11	83	62	72	0	7	0.13
12	83	62	72	0	7	0.13
13	83	61	72	0	7	0.13
14	81	61	71	0	6	0.13
15	81	61	71	0	6	0.13
16	81	61	71	0	6	0.13
17	81	60	71	0	6	0.13
18	81	60	71	0	6	0.13
19	81	59	70	0	5	0.13
20	80	59	70	0	5	0.13
21	80	58	69	1	5	0.13
22	80	58	69	1	5	0.13
23	79	58	69	1	5	0.13
24	79	58	69	1	5	0.13
25	79	57	68	1	4	0.13
26	78	57	68	1	4	0.13
27	78	56	67	2	4	0.13
28	78	56	67	2	4	0.13
29	77	56	67	2	4	0.13
30	77	55	66	2	3	0.13
MTH	81.3	60.4	70.9	14	190	3.95

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	54	65	2	2	0.13
2	77	54	65	3	3	0.13
3	77	54	65	3	3	0.13
4	77	54	65	3	3	0.13
5	75	54	64	3	2	0.13
6	75	54	64	3	2	0.13
7	75	54	64	3	2	0.13
8	74	52	63	4	2	0.13
9	74	52	63	4	2	0.13
10	74	51	63	4	2	0.13
11	74	51	63	4	2	0.13
12	73	50	62	4	1	0.13
13	72	50	61	5	1	0.13
14	72	50	61	5	1	0.13
15	72	49	61	5	1	0.14
16	72	48	60	6	1	0.14
17	71	48	60	6	1	0.14
18	71	48	60	6	1	0.14
19	71	47	59	7	1	0.14
20	70	47	59	7	1	0.14
21	70	47	59	7	1	0.14
22	70	47	59	7	1	0.14
23	69	47	58	7	0	0.14
24	69	46	58	7	0	0.14
25	68	46	57	8	0	0.14
26	68	46	57	8	0	0.14
27	68	45	57	8	0	0.14
28	68	44	56	9	0	0.14
29	68	44	56	9	0	0.14
30	67	44	56	9	0	0.14
31	67	44	56	9	0	0.14
MTH	71.8	49.1	60.5	175	36	4.20

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	67	44	55	10	0	0.14
2	67	44	55	11	*	0.14
3	66	44	55	11	*	0.14
4	66	43	55	11	*	0.14
5	65	43	54	11	*	0.14
6	65	43	54	11	*	0.14
7	65	42	54	11	0	0.14
8	64	42	53	12	0	0.14
9	64	42	53	12	0	0.14
10	64	42	53	12	0	0.14
11	63	41	52	13	0	0.15
12	63	41	52	13	0	0.15
13	62	41	52	13	0	0.15
14	62	40	51	14	0	0.15
15	62	40	51	14	0	0.15
16	61	40	51	14	0	0.15
17	61	39	50	15	0	0.15
18	61	39	50	15	0	0.15
19	60	39	50	15	0	0.15
20	60	39	50	15	0	0.15
21	60	38	49	16	0	0.15
22	59	38	49	16	0	0.14
23	59	38	49	16	0	0.14
24	58	38	48	17	0	0.14
25	58	38	48	17	0	0.14
26	58	37	48	17	0	0.14
27	57	37	47	18	0	0.14
28	57	37	47	18	0	0.14
29	57	37	47	18	0	0.14
30	56	36	46	19	0	0.14
MTH	61.6	40.1	50.9	425	3	4.31

AUTUMN SEASON: 71.5 49.8 60.8 614 229 12.46

ANNUAL: 70.6 48.7 59.7 3302 1402 55.91

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: PICKENS SOUTH CAROLINA Station Number: 386831

Latitude: 34 B 52* 55 (Longitude: -082 B 43* 08 (Elevation (feet): 1162

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	1.06	0.57	0.90	0.43	0.39	0.38	0.43	0.21	0.18	0.05	0.72	0.63	32.88
0.010	1.28	0.73	1.11	0.56	0.53	0.51	0.56	0.30	0.26	0.08	0.88	0.79	34.71
0.050	2.08	1.35	1.89	1.05	1.09	1.02	1.12	0.77	0.65	0.33	1.47	1.41	40.06
0.100	2.62	1.81	2.44	1.43	1.54	1.41	1.55	1.19	0.99	0.61	1.87	1.85	43.14
0.200	3.41	2.50	3.26	1.99	2.24	2.03	2.22	1.89	1.56	1.15	2.47	2.51	47.07
0.300	4.07	3.11	3.95	2.49	2.87	2.57	2.82	2.56	2.11	1.73	2.97	3.08	50.06
0.400	4.70	3.70	4.62	2.98	3.50	3.12	3.40	3.25	2.67	2.37	3.46	3.63	52.70
0.500	5.34	4.32	5.31	3.49	4.17	3.69	4.03	4.00	3.28	3.11	3.96	4.20	55.26
0.600	6.05	5.01	6.06	4.06	4.92	4.34	4.72	4.86	3.97	3.99	4.50	4.83	57.90
0.700	6.87	5.82	6.94	4.73	5.81	5.10	5.55	5.91	4.82	5.10	5.13	5.57	60.82
0.800	7.91	6.87	8.08	5.61	6.99	6.11	6.63	7.32	5.96	6.64	5.95	6.53	64.35
0.900	9.53	8.53	9.85	6.99	8.86	7.70	8.35	9.60	7.80	9.22	7.21	8.03	69.47
0.950	11.01	10.07	11.48	8.28	10.62	9.19	9.95	11.79	9.56	11.77	8.37	9.41	73.90
0.990	14.16	13.40	14.98	11.07	14.48	12.45	13.46	16.66	13.49	17.60	10.85	12.40	82.69
0.995	15.44	14.77	16.40	12.22	16.08	13.80	14.91	18.71	15.14	20.10	11.86	13.63	86.07

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SALEM 5 NNE SOUTH CAROLINA Station Number: 387589

Latitude: 34° 56* 49 (Longitude: -082° 56* 51 (Elevation (feet): 1082

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	57	33	45	20	0	0.18
2	56	33	44	21	0	0.18
3	56	33	44	21	0	0.18
4	55	32	44	21	0	0.18
5	55	31	43	22	0	0.18
6	55	31	43	22	0	0.18
7	54	31	43	22	0	0.18
8	54	31	43	22	0	0.18
9	53	31	42	23	0	0.18
10	53	31	42	23	0	0.18
11	53	31	42	23	0	0.18
12	53	30	42	23	0	0.18
13	52	30	41	24	0	0.18
14	52	30	41	24	0	0.18
15	52	30	41	24	0	0.18
16	52	30	41	24	0	0.18
17	52	30	41	24	0	0.18
18	51	29	40	25	0	0.18
19	51	29	40	25	0	0.19
20	51	29	40	25	0	0.19
21	51	29	40	25	0	0.19
22	51	29	40	25	0	0.19
23	51	29	40	25	0	0.19
24	50	28	39	26	0	0.19
25	50	28	39	26	0	0.19
26	50	28	39	26	0	0.19
27	50	28	39	26	0	0.19
28	50	28	39	26	0	0.20
29	50	28	39	26	0	0.20
30	50	28	39	26	0	0.20
31	50	28	39	26	0	0.20
MTH	52.3	29.9	41.1	741	0	5.75

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	50	28	39	26	0	0.20
2	50	28	39	26	0	0.20
3	50	27	38	27	0	0.20
4	49	27	38	27	0	0.21
5	49	27	38	27	0	0.21
6	49	27	38	27	0	0.21
7	49	27	38	27	0	0.21
8	49	27	38	27	0	0.21
9	49	27	38	27	0	0.21
10	49	27	38	27	0	0.21
11	49	27	38	27	0	0.21
12	49	27	38	27	0	0.21
13	49	27	38	27	0	0.21
14	49	27	38	27	0	0.21
15	49	27	38	27	0	0.21
16	50	26	38	27	0	0.21
17	50	26	38	27	0	0.21
18	50	26	38	27	0	0.21
19	50	26	38	27	0	0.21
20	50	26	38	27	0	0.21
21	50	26	38	27	0	0.21
22	50	26	38	27	0	0.21
23	50	26	38	27	0	0.21
24	50	26	38	27	0	0.21
25	50	27	39	26	0	0.21
26	50	27	39	26	0	0.21
27	51	27	39	26	0	0.21
28	51	27	39	26	0	0.21
29	51	27	39	26	0	0.21
30	51	27	39	26	0	0.21
31	51	27	39	26	0	0.21
MTH	49.8	26.8	38.3	828	0	6.48

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	51	28	39	26	0	0.20
2	51	28	39	26	0	0.20
3	51	28	39	26	0	0.20
4	52	28	40	25	0	0.20
5	52	28	40	25	0	0.20
6	52	28	40	25	0	0.20
7	52	28	40	25	0	0.20
8	52	28	40	25	0	0.20
9	53	28	40	25	0	0.20
10	53	28	41	24	0	0.20
11	53	28	41	24	0	0.20
12	53	28	41	24	0	0.20
13	54	28	41	24	0	0.20
14	54	28	41	24	0	0.20
15	54	29	41	24	0	0.20
16	54	29	42	23	0	0.20
17	55	29	42	23	0	0.20
18	55	29	42	23	0	0.20
19	55	29	42	23	0	0.20
20	55	30	43	22	0	0.21
21	56	30	43	22	0	0.21
22	56	30	43	22	0	0.21
23	56	30	43	22	0	0.21
24	56	31	44	21	0	0.21
25	57	31	44	21	0	0.21
26	57	31	44	21	0	0.22
27	57	32	45	20	0	0.22
28	58	32	45	20	0	0.22
MTH	54.1	29.1	41.6	655	0	5.72

WINTER SEASON: 52.0 28.6 40.3 2224 0 17.95

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	33	45	20	0	0.22
2	59	33	46	20	*	0.23
3	59	33	46	19	*	0.23
4	59	33	46	19	*	0.23
5	59	34	46	19	*	0.23
6	59	34	47	18	*	0.23
7	60	34	47	18	*	0.23
8	60	34	47	18	*	0.23
9	60	35	48	18	*	0.24
10	61	35	48	18	*	0.24
11	61	35	48	17	*	0.24
12	61	35	48	17	*	0.24
13	62	36	49	16	*	0.23
14	62	36	49	16	0	0.23
15	62	36	49	16	0	0.23
16	62	36	49	16	0	0.23
17	63	37	50	15	0	0.23
18	63	37	50	15	0	0.23
19	63	37	50	15	0	0.23
20	63	37	50	15	0	0.23
21	64	38	51	14	0	0.22
22	64	38	51	14	0	0.22
23	64	38	51	14	0	0.22
24	65	38	52	13	0	0.21
25	65	38	52	13	0	0.21
26	66	38	52	13	0	0.21
27	66	38	52	13	0	0.20
28	66	38	52	13	0	0.20
29	66	39	53	12	0	0.20
30	67	39	53	12	0	0.19
31	67	39	53	12	0	0.19
MTH	62.5	36.2	49.4	488	3	6.90

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	41	54	12	1	0.18
2	68	41	54	11	0	0.18
3	68	41	54	11	0	0.17
4	68	41	54	11	0	0.17
5	68	41	54	11	0	0.16
6	69	41	55	10	0	0.16
7	69	41	55	10	0	0.16
8	70	41	55	10	0	0.15
9	70	41	55	10	0	0.15
10	70	41	56	9	0	0.15
11	70	41	56	9	0	0.14
12	71	41	56	9	0	0.14
13	71	41	56	9	0	0.14
14	71	42	57	8	0	0.14
15	71	42	57	8	0	0.14
16	72	42	57	8	0	0.14
17	72	42	57	8	0	0.14
18	72	43	58	7	0	0.14
19	72	43	58	7	0	0.14
20	73	43	58	7	0	0.14
21	73	44	59	7	1	0.14
22	73	44	59	7	1	0.14
23	73	44	59	7	1	0.14
24	74	44	59	7	1	0.14
25	74	44	59	7	1	0.14
26	74	45	60	6	1	0.14
27	74	46	60	6	1	0.15
28	74	46	60	6	1	0.15
29	74	46	60	6	1	0.15
30	75	47	61	5	1	0.15
MTH	71.4	42.7	57.1	249	11	4.47

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	75	48	61	5	1	0.16
2	75	48	61	5	1	0.16
3	76	48	62	5	2	0.16
4	76	49	62	5	2	0.17
5	76	49	62	5	2	0.17
6	76	49	62	5	2	0.17
7	76	49	63	4	2	0.18
8	77	49	63	4	2	0.18
9	77	49	63	4	2	0.18
10	77	49	63	4	2	0.18
11	77	49	63	4	2	0.18
12	77	49	63	4	2	0.19
13	78	50	64	4	3	0.19
14	78	51	65	3	3	0.19
15	78	51	65	3	3	0.19
16	78	52	65	3	3	0.19
17	78	52	65	3	3	0.19
18	79	52	66	2	3	0.19
19	79	53	66	2	3	0.19
20	79	53	66	2	3	0.19
21	79	54	67	2	4	0.19
22	79	54	67	2	4	0.19
23	80	54	67	2	4	0.19
24	80	54	67	2	4	0.19
25	80	54	67	2	4	0.19
26	80	54	67	2	4	0.19
27	80	54	67	2	4	0.19
28	80	54	67	2	4	0.19
29	81	55	68	2	5	0.19
30	81	56	69	1	5	0.19
31	81	56	69	1	5	0.18
MTH	78.2	51.6	64.9	96	93	5.68

SPRING SEASON: 70.7 43.5 57.1 833 107 17.05

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SALEM 5 NNE SOUTH CAROLINA Station Number: 387589

Latitude: 34 B 56 * 49 (Longitude: -082 B 56 * 51 (Elevation (feet): 1082

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	81	56	69	1	5	0.18
2	82	57	69	1	5	0.18
3	82	57	69	1	5	0.18
4	82	57	69	1	5	0.18
5	82	57	70	1	6	0.18
6	82	58	70	1	6	0.17
7	82	58	70	1	6	0.17
8	82	58	70	1	6	0.17
9	83	58	71	0	6	0.17
10	83	59	71	0	6	0.17
11	83	59	71	0	6	0.17
12	83	60	72	0	7	0.17
13	83	60	72	0	7	0.17
14	84	60	72	0	7	0.17
15	84	60	72	0	7	0.17
16	84	60	72	0	7	0.17
17	84	60	72	0	7	0.17
18	84	61	73	0	8	0.17
19	85	61	73	0	8	0.17
20	85	61	73	0	8	0.17
21	85	61	73	0	8	0.17
22	85	61	73	0	8	0.17
23	85	61	73	0	8	0.17
24	85	61	73	0	8	0.17
25	86	62	74	0	9	0.17
26	86	62	74	0	9	0.17
27	86	62	74	0	9	0.17
28	86	62	74	0	9	0.17
29	86	62	74	0	9	0.17
30	86	62	74	0	9	0.17
MTH	83.9	59.8	71.9	8	214	5.15

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	63	75	0	10	0.17
2	87	63	75	0	10	0.17
3	87	63	75	0	10	0.17
4	87	63	75	0	10	0.17
5	87	63	75	0	10	0.17
6	87	63	75	0	10	0.17
7	88	64	76	0	11	0.17
8	88	64	76	0	11	0.17
9	88	64	76	0	11	0.18
10	88	64	76	0	11	0.18
11	88	64	76	0	11	0.18
12	88	64	76	0	11	0.18
13	88	64	76	0	11	0.18
14	88	64	76	0	11	0.18
15	88	64	76	0	11	0.18
16	88	64	76	0	11	0.18
17	88	64	76	0	11	0.18
18	88	64	76	0	11	0.18
19	88	64	76	0	11	0.18
20	88	64	76	0	11	0.18
21	88	65	77	0	12	0.18
22	88	65	77	0	12	0.18
23	88	65	77	0	12	0.18
24	87	65	76	0	11	0.18
25	87	65	76	0	11	0.18
26	87	65	76	0	11	0.18
27	87	65	76	0	11	0.18
28	87	65	76	0	11	0.18
29	87	65	76	0	11	0.18
30	87	65	76	0	11	0.18
31	87	65	76	0	11	0.18
MTH	87.6	64.2	75.9	0	338	5.50
SUMMER SEASON:	85.5	62.6	74.1	8	843	16.13

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	65	76	0	11	0.18
2	87	65	76	0	11	0.18
3	87	65	76	0	11	0.18
4	87	65	76	0	11	0.18
5	87	65	76	0	11	0.18
6	87	65	76	0	11	0.18
7	86	65	75	0	10	0.17
8	86	64	75	0	10	0.17
9	86	64	75	0	10	0.17
10	86	64	75	0	10	0.17
11	86	64	75	0	10	0.17
12	86	64	75	0	10	0.17
13	86	64	75	0	10	0.17
14	86	64	75	0	10	0.17
15	86	64	75	0	10	0.17
16	86	64	75	0	10	0.17
17	84	64	74	0	9	0.18
18	84	64	74	0	9	0.18
19	84	64	74	0	9	0.18
20	84	64	74	0	9	0.18
21	84	63	74	0	9	0.18
22	84	63	74	0	9	0.18
23	84	63	74	0	9	0.18
24	83	63	73	0	8	0.18
25	83	63	73	0	8	0.18
26	83	63	73	0	8	0.18
27	83	63	73	0	8	0.18
28	83	63	73	0	8	0.18
29	83	62	73	0	8	0.18
30	83	62	72	0	7	0.18
31	83	62	72	0	7	0.18
MTH	85.0	63.8	74.4	0	291	5.48

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	83	62	72	0	7	0.18
2	83	62	72	0	7	0.18
3	83	62	72	0	7	0.18
4	82	62	72	0	7	0.18
5	82	61	72	0	7	0.19
6	82	61	71	0	6	0.19
7	82	61	71	0	6	0.19
8	82	61	71	0	6	0.19
9	82	61	71	0	6	0.19
10	81	61	71	0	6	0.19
11	81	59	70	0	5	0.19
12	81	59	70	0	5	0.19
13	81	59	70	0	5	0.19
14	80	59	70	0	5	0.19
15	80	58	69	1	5	0.19
16	80	58	69	1	5	0.18
17	80	58	69	1	5	0.18
18	79	58	69	1	5	0.18
19	79	57	68	1	4	0.18
20	79	57	68	1	4	0.18
21	79	56	68	1	4	0.18
22	78	56	67	2	4	0.18
23	78	55	67	2	4	0.18
24	78	54	66	2	3	0.18
25	78	54	66	2	3	0.18
26	77	54	66	2	3	0.17
27	77	53	65	3	3	0.17
28	77	53	65	3	3	0.17
29	76	53	65	3	3	0.17
30	76	52	64	3	2	0.17
MTH	79.9	57.9	68.9	29	145	5.46

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	76	52	64	3	2	0.17
2	75	52	63	4	2	0.17
3	75	51	63	4	2	0.16
4	75	50	62	5	2	0.16
5	74	49	62	5	2	0.16
6	74	48	61	6	2	0.16
7	74	48	61	6	2	0.16
8	73	48	61	6	2	0.16
9	73	47	60	6	1	0.16
10	73	47	60	6	1	0.16
11	72	47	60	6	1	0.15
12	72	46	59	7	1	0.15
13	72	46	59	7	1	0.15
14	71	45	58	8	1	0.15
15	71	45	58	8	1	0.15
16	71	45	58	8	1	0.15
17	70	44	57	9	1	0.15
18	70	44	57	9	1	0.15
19	70	44	57	9	1	0.15
20	69	43	56	9	0	0.15
21	69	43	56	9	0	0.15
22	69	43	56	9	0	0.15
23	68	42	55	10	0	0.15
24	68	42	55	10	0	0.16
25	68	42	55	10	0	0.16
26	68	41	55	10	0	0.16
27	67	41	54	11	0	0.16
28	67	41	54	11	0	0.16
29	67	41	54	11	0	0.16
30	67	40	54	11	0	0.16
31	66	40	53	12	0	0.16
MTH	70.8	45.1	58.0	245	27	4.85
AUTUMN SEASON:	70.7	46.5	58.7	751	174	15.71
ANNUAL:	69.7	45.3	57.5	3816	1124	66.84

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	66	40	53	12	0	0.17
2	66	40	53	12	0	0.17
3	66	40	53	12	*	0.17
4	65	40	52	13	*	0.17
5	65	40	52	13	*	0.17
6	65	40	52	13	*	0.17
7	65	39	52	14	*	0.18
8	64	38	51	14	*	0.18
9	64	38	51	14	*	0.18
10	63	38	51	14	*	0.18
11	63	37	50	15	*	0.18
12	63	37	50	15	0	0.18
13	63	37	50	15	0	0.18
14	62	37	50	15	0	0.18
15	62	36	49	16	0	0.18
16	62	36	49	16	0	0.18
17	61	36	49	16	0	0.18
18	60	36	48	17	0	0.18
19	60	36	48	17	0	0.18
20	60	36	48	17	0	0.18
21	60	35	48	17	*	0.19
22	59	35	47	18	*	0.19
23	59	35	47	18	*	0.19
24	59	35	47	18	*	0.19
25	58	35	47	19	*	0.19
26	58	34	46	19	*	0.19
27	58	34	46	19	*	0.18
28	57	34	46	19	*	0.18
29	57	33	45	20	*	0.18
30	57	33	45	20	0	0.18
MTH	61.6	36.7	49.2	477	2	5.40

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SALEM 5 NNE SOUTH CAROLINA Station Number: 387589

Latitude: 34° 56* 49(Longitude: -082° 56* 51(Elevation (feet): 1082

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	1.33	0.52	1.21	0.48	0.42	0.33	1.16	0.24	0.23	0.05	1.05	0.74	40.83
0.010	1.59	0.69	1.48	0.63	0.57	0.46	1.39	0.35	0.35	0.09	1.26	0.94	42.93
0.050	2.49	1.39	2.42	1.19	1.22	1.02	2.14	0.89	0.88	0.37	2.00	1.69	49.03
0.100	3.09	1.92	3.07	1.61	1.74	1.49	2.65	1.36	1.35	0.68	2.51	2.24	52.52
0.200	3.95	2.76	4.02	2.26	2.58	2.24	3.38	2.16	2.14	1.31	3.24	3.06	56.96
0.300	4.66	3.50	4.81	2.82	3.33	2.94	3.98	2.91	2.89	1.98	3.84	3.77	60.32
0.400	5.34	4.24	5.58	3.38	4.09	3.64	4.55	3.69	3.67	2.72	4.42	4.46	63.29
0.500	6.03	5.02	6.36	3.97	4.90	4.39	5.13	4.54	4.51	3.58	5.01	5.17	66.16
0.600	6.78	5.89	7.21	4.62	5.81	5.24	5.76	5.50	5.48	4.60	5.64	5.97	69.11
0.700	7.65	6.92	8.20	5.39	6.90	6.27	6.48	6.68	6.66	5.90	6.39	6.90	72.36
0.800	8.75	8.28	9.48	6.39	8.34	7.63	7.40	8.26	8.24	7.69	7.33	8.11	76.29
0.900	10.45	10.43	11.44	7.97	10.64	9.81	8.82	10.82	10.80	10.71	8.79	10.00	81.98
0.950	11.99	12.45	13.25	9.44	12.82	11.88	10.10	13.27	13.26	13.69	10.12	11.76	86.88
0.990	15.27	16.85	17.10	12.64	17.59	16.44	12.83	18.73	18.73	20.52	12.95	15.55	96.57
0.995	16.60	18.67	18.66	13.96	19.57	18.34	13.93	21.02	21.03	23.45	14.09	17.10	100.29

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SANTUCK SOUTH CAROLINA Station Number: 387722

Latitude: 34° 38* 00(Longitude: -081° 31* 00(Elevation (feet): 520

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	38	49	16	0	0.11
2	59	38	48	17	0	0.11
3	59	38	48	17	0	0.11
4	59	37	48	17	0	0.11
5	59	37	48	17	0	0.11
6	58	37	47	18	0	0.11
7	57	37	47	18	0	0.10
8	57	36	47	18	0	0.10
9	56	36	46	19	0	0.10
10	56	36	46	19	0	0.10
11	56	36	46	19	0	0.10
12	56	36	46	19	0	0.11
13	56	35	46	19	0	0.11
14	55	35	45	20	0	0.11
15	55	35	45	20	0	0.11
16	55	35	45	20	0	0.11
17	55	35	45	20	0	0.11
18	55	34	45	20	0	0.11
19	54	34	44	21	0	0.11
20	54	34	44	21	0	0.11
21	54	34	44	21	0	0.11
22	54	34	44	21	0	0.11
23	54	34	44	21	0	0.11
24	54	34	44	21	0	0.12
25	54	34	44	21	0	0.12
26	54	34	44	21	0	0.12
27	53	33	43	22	0	0.12
28	53	33	43	22	0	0.12
29	53	33	43	22	0	0.13
30	53	33	43	22	0	0.13
31	53	33	43	22	0	0.13
MTH	55.5	35.1	45.3	611	0	3.47
				WINTER SEASON:		

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	53	33	43	22	0	0.13
2	53	33	43	22	0	0.14
3	53	33	43	22	0	0.14
4	53	33	43	22	0	0.14
5	53	33	43	22	0	0.14
6	53	33	43	22	0	0.14
7	53	33	43	22	0	0.14
8	53	33	43	22	0	0.15
9	53	33	43	22	0	0.15
10	53	33	43	22	0	0.15
11	53	33	43	22	0	0.15
12	53	33	43	22	0	0.15
13	53	32	43	22	0	0.15
14	53	32	43	22	0	0.15
15	53	32	43	22	0	0.15
16	53	33	43	22	0	0.15
17	53	33	43	22	0	0.15
18	53	33	43	22	0	0.15
19	53	33	43	22	0	0.15
20	53	33	43	22	0	0.16
21	53	33	43	22	0	0.16
22	53	33	43	22	0	0.15
23	53	33	43	22	0	0.15
24	53	33	43	22	0	0.15
25	53	33	43	22	0	0.15
26	54	33	43	22	0	0.15
27	54	33	43	22	0	0.15
28	54	33	44	21	0	0.15
29	54	33	44	21	0	0.15
30	55	33	44	21	0	0.15
31	55	33	44	21	0	0.15
MTH	53.3	32.9	43.1	678	0	4.59
	55.7	34.4	45.1	1796	0	12.07

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	55	34	44	21	0	0.15
2	55	34	44	21	0	0.15
3	56	34	45	20	0	0.14
4	56	34	45	20	0	0.14
5	56	34	45	20	0	0.14
6	56	34	45	20	0	0.14
7	56	34	45	20	0	0.14
8	57	34	45	20	0	0.14
9	57	34	46	19	0	0.14
10	57	34	46	19	0	0.14
11	57	34	46	19	0	0.14
12	58	34	46	19	0	0.14
13	58	34	46	19	0	0.14
14	58	35	47	18	0	0.14
15	58	35	47	18	0	0.14
16	59	35	47	18	0	0.14
17	59	35	47	18	0	0.14
18	59	36	48	17	0	0.14
19	59	36	48	17	0	0.14
20	60	36	48	17	0	0.14
21	60	36	48	17	0	0.14
22	60	36	48	17	0	0.15
23	61	37	49	16	0	0.15
24	61	37	49	16	0	0.15
25	61	37	49	16	0	0.15
26	61	38	50	15	0	0.15
27	62	38	50	15	0	0.15
28	62	38	50	15	0	0.15
MTH	58.4	35.3	46.9	507	0	4.01

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	63	38	50	15	0	0.16
2	63	38	50	15	0	0.16
3	63	39	51	14	0	0.16
4	63	39	51	14	0	0.16
5	64	40	52	13	0	0.16
6	64	40	52	13	0	0.16
7	64	40	52	13	0	0.16
8	64	40	52	13	0	0.16
9	65	41	53	12	0	0.16
10	65	41	53	12	0	0.16
11	65	41	53	12	0	0.17
12	65	41	53	12	0	0.17
13	66	42	54	11	0	0.17
14	66	42	54	11	0	0.16
15	66	42	54	11	0	0.16
16	67	42	55	10	0	0.16
17	67	43	55	10	0	0.16
18	67	43	55	10	0	0.16
19	67	43	55	10	0	0.16
20	67	43	55	10	0	0.16
21	68	43	56	10	1	0.16
22	68	44	56	10	1	0.16
23	69	44	57	9	1	0.15
24	69	44	57	9	1	0.15
25	69	44	57	9	1	0.15
26	70	44	57	9	1	0.15
27	70	45	58	8	1	0.15
28	70	45	58	8	1	0.14
29	70	45	58	8	1	0.14
30	71	45	58	8	1	0.14
31	71	46	59	7	1	0.13
MTH	66.7	42.2	54.5	336	11	4.85
				SPRING SEASON:		

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	71	47	59	6	0	0.13
2	72	47	59	6	0	0.13
3	72	47	59	6	0	0.13
4	72	47	59	6	0	0.12
5	72	47	59	6	0	0.12
6	73	47	60	6	1	0.12
7	73	47	60	6	1	0.12
8	73	48	60	6	1	0.11
9	74	48	61	5	1	0.11
10	74	48	61	5	1	0.11
11	74	48	61	5	1	0.11
12	74	48	61	5	1	0.10
13	75	49	62	4	1	0.10
14	75	49	62	4	1	0.10
15	75	49	62	4	1	0.10
16	75	49	62	4	1	0.10
17	75	50	63	3	1	0.10
18	76	50	63	3	1	0.10
19	76	50	63	3	1	0.09
20	76	50	63	3	1	0.09
21	76	51	64	3	2	0.09
22	77	51	64	3	2	0.09
23	77	51	64	3	2	0.09
24	77	51	64	3	2	0.09
25	77	51	64	3	2	0.09
26	77	52	65	2	2	0.09
27	78	52	65	2	2	0.09
28	78	52	65	2	2	0.09
29	78	52	65	2	2	0.09
30	78	53	66	2	3	0.09
MTH	75.0	49.4	62.2	121	36	3.09
	74.3	49.8	62.1	485	216	11.16

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	54	66	2	3	0.09
2	78	55	66	2	3	0.09
3	78	55	66	2	3	0.09
4	78	55	66	2	3	0.09
5	78	55	66	2	3	0.09
6	80	55	67	2	4	0.10
7	80	56	68	1	4	0.10
8	80	56	68	1	4	0.10
9	80	56	68	1	4	0.10
10	81	56	68	1	4	0.10
11	81	56	68	1	4	0.10
12	81	57	69	1	5	0.10
13	81	57	69	1	5	0.10
14	81	57	69	1	5	0.10
15	81	57	69	1	5	0.10
16	81	57	69	1	5	0.10
17	82	58	70	1	6	0.10
18	82	58	70	1	6	0.10
19	82	58	70	1	6	0.11
20	82	58	70	1	6	0.11
21	82	58	70	1	6	0.11
22	83	59	71	1	7	0.11
23	83	60	72	0	7	0.11
24	83	60	72	0	7	0.11
25	83	60	72	0	7	0.11
26	83	61	72	0	7	0.11
27	84	61	73	0	8	0.11
28	84	61	73	0	8	0.12
29	84	61	73	0	8	0.12
30	84	62	73	0	8	0.12
31	84	62	73	0	8	0.12
MTH	81.4	57.8	69.6	28	169	3.22

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

United States Climate Normals 1971-2000

Station Name: SANTUCK SOUTH CAROLINA Station Number: 387722

Latitude: 34° 38* 00 (Longitude: -081° 31* 00 (Elevation (feet): 520

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	62	73	1	9	0.12
2	85	62	74	0	9	0.12
3	85	63	74	0	9	0.12
4	86	63	74	0	9	0.12
5	86	63	74	0	9	0.13
6	86	63	75	0	10	0.13
7	86	64	75	0	10	0.13
8	86	64	75	0	10	0.13
9	86	64	75	0	10	0.13
10	86	65	76	0	11	0.13
11	87	65	76	0	11	0.13
12	87	65	76	0	11	0.13
13	87	65	76	0	11	0.13
14	87	65	76	0	11	0.13
15	87	66	77	0	12	0.13
16	88	66	77	0	12	0.13
17	88	66	77	0	12	0.13
18	88	66	77	0	12	0.13
19	88	66	77	0	12	0.14
20	88	66	77	0	12	0.14
21	89	67	78	0	13	0.14
22	89	67	78	0	13	0.14
23	89	67	78	0	13	0.14
24	89	67	78	0	13	0.14
25	89	67	78	0	13	0.14
26	89	67	78	0	13	0.14
27	89	67	78	0	13	0.14
28	89	68	79	0	14	0.13
29	90	68	79	0	14	0.13
30	90	68	79	0	14	0.13
MTH	87.5	65.4	76.5	1	345	3.95

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	69	79	0	14	0.13
2	90	69	79	0	14	0.13
3	90	69	79	0	14	0.13
4	90	69	79	0	14	0.13
5	90	69	80	0	15	0.13
6	90	69	80	0	15	0.13
7	90	69	80	0	15	0.13
8	90	69	80	0	15	0.13
9	90	69	80	0	15	0.13
10	90	69	80	0	15	0.13
11	91	69	80	0	15	0.13
12	91	69	80	0	15	0.13
13	91	69	80	0	15	0.13
14	91	69	80	0	15	0.13
15	91	70	80	0	15	0.13
16	91	70	80	0	15	0.13
17	91	70	80	0	15	0.13
18	91	70	80	0	15	0.13
19	91	70	81	0	16	0.13
20	91	70	81	0	16	0.13
21	91	70	81	0	16	0.13
22	91	70	81	0	16	0.13
23	91	70	81	0	16	0.13
24	91	70	81	0	16	0.12
25	90	70	80	0	15	0.12
26	90	70	80	0	15	0.12
27	90	70	80	0	15	0.12
28	90	70	80	0	15	0.12
29	90	70	80	0	15	0.12
30	90	70	80	0	15	0.12
31	90	70	80	0	15	0.12
MTH	90.5	69.6	80.1	0	467	3.95
SUMMER SEASON:	88.7	67.8	78.3	1	1229	11.77

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	70	80	0	15	0.12
2	90	70	80	0	15	0.12
3	90	70	80	0	15	0.12
4	90	70	80	0	15	0.12
5	90	70	80	0	15	0.12
6	90	70	80	0	15	0.12
7	89	70	80	0	15	0.12
8	89	70	80	0	15	0.12
9	89	70	80	0	15	0.12
10	89	69	79	0	14	0.12
11	89	69	79	0	14	0.12
12	89	69	79	0	14	0.12
13	89	69	79	0	14	0.12
14	89	69	79	0	14	0.12
15	89	69	79	0	14	0.12
16	88	69	79	0	14	0.12
17	88	68	78	0	13	0.12
18	88	68	78	0	13	0.12
19	88	68	78	0	13	0.13
20	88	68	78	0	13	0.13
21	88	68	78	0	13	0.13
22	88	68	78	0	13	0.13
23	87	68	78	0	13	0.13
24	87	67	77	0	12	0.13
25	87	67	77	0	12	0.13
26	87	67	77	0	12	0.13
27	87	67	77	0	12	0.13
28	86	67	77	0	12	0.13
29	86	67	76	0	11	0.13
30	86	67	76	0	11	0.14
31	86	67	76	0	11	0.14
MTH	88.3	68.6	78.5	0	417	3.87

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	67	76	0	11	0.14
2	85	67	76	0	11	0.14
3	85	66	75	0	10	0.14
4	85	66	75	0	10	0.14
5	85	66	75	0	10	0.14
6	85	66	75	0	10	0.14
7	84	66	75	0	10	0.14
8	84	65	74	0	9	0.14
9	84	65	74	0	9	0.14
10	84	64	74	0	9	0.14
11	83	64	74	0	9	0.15
12	83	63	73	0	8	0.15
13	83	63	73	0	8	0.15
14	83	63	73	0	8	0.15
15	82	63	73	0	8	0.15
16	82	63	73	0	8	0.15
17	82	62	72	0	7	0.14
18	81	62	72	0	7	0.14
19	81	62	72	0	7	0.14
20	81	62	72	0	7	0.14
21	81	61	71	0	6	0.14
22	80	61	71	0	6	0.14
23	80	61	71	0	6	0.14
24	80	61	71	0	6	0.14
25	79	60	70	0	5	0.14
26	79	59	69	1	5	0.14
27	79	59	69	1	5	0.14
28	78	58	68	2	5	0.13
29	78	58	68	2	5	0.13
30	77	57	67	2	4	0.13
MTH	82.0	62.7	72.4	8	229	4.23
AUTUMN SEASON:	72.7	51.8	62.3	535	288	11.20
ANNUAL:	72.9	51.0	62.0	2817	1733	46.20

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	57	67	2	4	0.13
2	77	57	67	2	4	0.13
3	77	57	67	2	4	0.13
4	77	56	66	2	3	0.12
5	77	54	65	3	3	0.12
6	76	54	65	3	3	0.12
7	75	54	65	3	3	0.12
8	75	53	64	4	3	0.12
9	75	53	64	4	3	0.12
10	74	52	63	4	2	0.12
11	74	52	63	4	2	0.12
12	74	52	63	4	2	0.11
13	73	51	62	5	2	0.11
14	73	51	62	5	2	0.11
15	73	51	62	5	2	0.11
16	72	50	61	5	1	0.11
17	72	50	61	5	1	0.11
18	72	50	61	5	1	0.11
19	71	49	60	6	1	0.11
20	71	49	60	6	1	0.11
21	71	49	60	6	1	0.11
22	70	48	59	7	1	0.11
23	70	48	59	7	1	0.11
24	70	48	59	7	1	0.11
25	70	47	59	7	1	0.11
26	69	47	58	8	1	0.11
27	69	47	58	8	1	0.11
28	68	46	57	8	0	0.11
29	68	46	57	8	0	0.11
30	68	46	57	8	0	0.11
31	68	46	57	8	0	0.11
MTH	72.5	50.7	61.6	161	54	3.55

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	46	57	9	1	0.11
2	68	46	57	9	1	0.11
3	67	46	56	10	1	0.11
4	67	46	56	10	1	0.11
5	67	46	56	10	1	0.11
6	66	44	55	10	0	0.11
7	66	44	55	10	0	0.11
8	66	44	55	10	0	0.12
9	66	44	55	10	0	0.12
10	65	44	55	10	0	0.12
11	65	43	54	11	0	0.12
12	65	43	54	11	0	0.12
13	65	43	54	11	0	0.12
14	64	42	53	12	0	0.12
15	64	42	53	12	0	0.12
16	64	42	53	12	0	0.12
17	63	42	53	12	0	0.12
18	63	41	52	13	0	0.12
19	63	41	52	13	0	0.12
20	63	41	52	13	0	0.11
21	62	41	52	13	0	0.11
22	62	40	51	14	0	0.11
23	62	40	51	14	0	0.11
24	61	40	51	14	0	0.11
25	61	39	50	15	0	0.11
26	61	39	50	15	0	0.11
27	60	39	50	15	0	0.11
28	60	38	49	16	0	0.11
29	60	38	49	16	0	0.11
30	59	38	49	16	0	0.11
MTH	63.8	42.1	53.0	366	5	3.42

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SANTUCK SOUTH CAROLINA Station Number: 387722

Latitude: 34B 38* 00(Longitude: -081B 31* 00(Elevation (feet): 520

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.77	0.43	0.65	0.22	0.24	0.53	0.45	0.34	0.14	0.00	0.62	0.45	30.37
0.010	0.95	0.56	0.82	0.30	0.33	0.67	0.58	0.45	0.21	0.00	0.75	0.57	31.68
0.050	1.57	1.07	1.46	0.65	0.70	1.19	1.08	0.92	0.58	0.20	1.22	1.02	35.46
0.100	2.01	1.45	1.92	0.94	1.00	1.56	1.45	1.28	0.92	0.54	1.54	1.35	37.60
0.200	2.64	2.03	2.61	1.39	1.47	2.13	2.02	1.85	1.53	1.09	2.00	1.85	40.31
0.300	3.18	2.54	3.20	1.80	1.90	2.61	2.52	2.35	2.12	1.61	2.40	2.28	42.34
0.400	3.69	3.04	3.78	2.22	2.32	3.08	3.01	2.85	2.73	2.17	2.77	2.69	44.12
0.500	4.22	3.56	4.38	2.66	2.78	3.57	3.52	3.38	3.41	2.78	3.15	3.13	45.84
0.600	4.79	4.15	5.04	3.16	3.30	4.10	4.08	3.97	4.20	3.49	3.57	3.60	47.60
0.700	5.47	4.84	5.82	3.76	3.91	4.74	4.75	4.68	5.16	4.38	4.06	4.17	49.53
0.800	6.33	5.74	6.82	4.54	4.72	5.55	5.62	5.61	6.47	5.58	4.68	4.90	51.86
0.900	7.66	7.15	8.39	5.80	6.02	6.83	6.99	7.08	8.60	7.55	5.64	6.04	55.21
0.950	8.89	8.47	9.85	6.99	7.24	8.01	8.27	8.46	10.66	9.47	6.52	7.10	58.07
0.990	11.52	11.35	12.98	9.61	9.93	10.56	11.03	11.48	15.27	13.81	8.39	9.38	63.71
0.995	12.59	12.53	14.27	10.70	11.04	11.61	12.18	12.74	17.22	15.64	9.15	10.32	65.86

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

United States Climate Normals 1971-2000

Station Name: SIMMS WATER PLANT SOUTH CAROLINA Station Number: 387885

Latitude: 35 B 07 * 00 (Longitude: -081 B 58* 00 (Elevation (feet): 751

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	32	45	20	0	0.13
2	58	32	45	20	0	0.12
3	58	32	45	20	0	0.12
4	57	32	44	21	0	0.12
5	57	32	44	21	0	0.12
6	57	32	44	21	0	0.12
7	57	32	44	21	0	0.12
8	56	31	43	22	0	0.12
9	56	30	43	22	0	0.12
10	56	30	43	22	0	0.12
11	56	30	43	22	0	0.12
12	55	30	43	22	0	0.13
13	55	29	42	23	0	0.13
14	55	29	42	23	0	0.13
15	55	29	42	23	0	0.13
16	54	29	42	23	0	0.13
17	54	29	42	23	0	0.13
18	54	29	42	23	0	0.13
19	54	28	41	24	0	0.13
20	54	28	41	24	0	0.13
21	54	28	41	24	0	0.13
22	53	28	41	24	0	0.13
23	53	28	41	24	0	0.13
24	53	28	41	24	0	0.13
25	53	28	41	24	0	0.14
26	52	28	40	25	0	0.14
27	52	28	40	25	0	0.14
28	52	28	40	25	0	0.14
29	52	28	40	25	0	0.14
30	52	28	40	25	0	0.14
31	52	28	40	25	0	0.14
MTH	54.7	29.5	42.1	710	0	4.00

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	28	40	25	0	0.14
2	52	28	40	25	0	0.15
3	52	28	40	25	0	0.15
4	52	28	40	25	0	0.15
5	52	28	40	25	0	0.15
6	52	28	40	25	0	0.15
7	52	28	40	25	0	0.15
8	52	28	40	25	0	0.15
9	52	28	40	25	0	0.15
10	52	27	39	26	0	0.15
11	52	27	39	26	0	0.15
12	52	27	39	26	0	0.15
13	52	27	39	26	0	0.16
14	52	27	40	25	0	0.16
15	52	27	40	25	0	0.16
16	52	27	40	25	0	0.16
17	52	27	40	25	0	0.16
18	52	27	40	25	0	0.16
19	52	27	40	25	0	0.16
20	52	27	40	25	0	0.16
21	52	27	40	25	0	0.16
22	53	27	40	25	0	0.16
23	53	27	40	25	0	0.16
24	53	27	40	25	0	0.16
25	53	27	40	25	0	0.15
26	53	27	40	25	0	0.15
27	53	27	40	25	0	0.15
28	53	27	40	25	0	0.15
29	53	27	40	25	0	0.15
30	53	28	40	25	0	0.15
31	54	28	41	24	0	0.15
MTH	52.4	27.4	39.9	778	0	4.76
WINTER SEASON:	54.6	28.8	41.7	2098	0	13.05

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	28	41	24	0	0.15
2	54	28	41	24	0	0.15
3	54	28	41	24	0	0.15
4	55	28	41	24	0	0.15
5	55	28	41	24	0	0.15
6	55	28	42	23	0	0.14
7	55	28	42	23	0	0.14
8	55	28	42	23	0	0.14
9	55	28	42	23	0	0.14
10	56	29	42	23	0	0.14
11	56	29	42	23	0	0.15
12	56	29	43	22	0	0.15
13	56	29	43	22	0	0.15
14	57	29	43	22	0	0.15
15	57	29	43	22	0	0.15
16	57	29	43	22	0	0.15
17	57	30	44	21	0	0.15
18	58	30	44	21	0	0.15
19	58	30	44	21	0	0.15
20	58	30	44	21	0	0.16
21	58	30	44	21	0	0.16
22	59	31	45	20	0	0.16
23	59	31	45	20	0	0.16
24	59	31	45	20	0	0.16
25	59	31	45	20	0	0.17
26	60	32	46	19	0	0.17
27	60	32	46	19	0	0.17
28	60	32	46	19	0	0.18
MTH	56.9	29.5	43.2	610	0	4.29

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	33	47	18	0	0.18
2	61	33	47	18	*	0.18
3	61	34	47	18	*	0.18
4	62	34	48	18	*	0.19
5	62	34	48	17	*	0.19
6	63	34	48	17	*	0.19
7	63	34	48	17	*	0.19
8	63	34	49	16	*	0.19
9	63	35	49	16	*	0.20
10	63	35	49	16	*	0.20
11	63	35	49	16	*	0.20
12	64	35	50	16	*	0.20
13	65	35	50	16	*	0.20
14	65	35	50	15	*	0.20
15	65	36	51	14	*	0.20
16	66	36	51	14	*	0.20
17	66	36	51	14	0	0.20
18	66	36	51	14	*	0.20
19	66	37	52	13	*	0.19
20	67	37	52	13	*	0.19
21	67	37	52	13	*	0.19
22	67	38	53	13	*	0.19
23	68	38	53	12	*	0.19
24	68	38	53	12	*	0.18
25	68	38	53	12	*	0.18
26	69	38	54	11	*	0.18
27	69	39	54	11	0	0.17
28	69	39	54	11	0	0.17
29	69	39	54	11	0	0.17
30	70	39	55	10	0	0.16
31	70	40	55	10	0	0.16
MTH	65.5	36.2	50.9	442	4	5.81
SPRING SEASON:						

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	41	55	10	0	0.15
2	70	41	55	10	0	0.15
3	71	41	56	9	0	0.14
4	72	41	56	9	0	0.14
5	72	41	56	9	0	0.14
6	72	41	56	9	0	0.13
7	72	41	57	8	0	0.13
8	72	41	57	8	0	0.13
9	73	41	57	8	0	0.12
10	73	41	57	8	0	0.12
11	73	42	58	7	0	0.12
12	73	42	58	7	0	0.12
13	74	42	58	7	0	0.12
14	74	42	58	7	0	0.12
15	74	43	59	6	0	0.12
16	75	43	59	6	0	0.12
17	75	43	59	6	0	0.12
18	75	44	60	6	1	0.12
19	75	44	60	6	1	0.12
20	76	44	60	6	1	0.12
21	76	44	60	6	1	0.12
22	76	45	61	5	1	0.12
23	76	45	61	5	1	0.12
24	76	46	61	5	1	0.12
25	76	46	61	5	1	0.13
26	77	46	62	4	1	0.13
27	77	47	62	4	1	0.13
28	77	47	62	4	1	0.14
29	78	48	63	4	2	0.14
30	78	48	63	4	2	0.14
MTH	74.3	43.4	58.9	198	15	3.84
SPRING SEASON:	73.6	44.2	59.0	699	145	14.92

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	49	63	4	2	0.15
2	78	49	64	4	3	0.15
3	79	50	64	3	2	0.16
4	79	50	64	3	2	0.16
5	79	50	64	3	2	0.16
6	79	50	64	3	2	0.17
7	79	50	65	3	3	0.17
8	79	51	65	3	3	0.17
9	79	51	65	3	3	0.17
10	80	51	66	2	3	0.18
11	80	52	66	2	3	0.18
12	80	52	66	2	3	0.18
13	80	53	67	2	4	0.18
14	81	53	67	2	4	0.18
15	81	53	67	2	4	0.18
16	81	53	67	2	4	0.18
17	81	54	68	2	5	0.18
18	82	54	68	1	4	0.18
19	82	54	68	1	4	0.18
20	82	54	68	1	4	0.18
21	82	55	69	1	5	0.18
22	83	55	69	1	5	0.18
23	83	55	69	1	5	0.17
24	83	55	69	1	5	0.17
25	83	55	69	1	5	0.17
26	83	56	70	1	6	0.17
27	84	56	70	1	6	0.16
28	84	56	70	1	6	0.16
29	84	56	70	1	6	0.16
30	84	56	70	1	6	0.16
31	84	57	71	1	7	0.15
MTH	81.2	53.1	67.2	59	126	5.27

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SIMMS WATER PLANT SOUTH CAROLINA Station Number: 387885

Latitude: 35 B 07 * 00 (Longitude: -081 B 58 * 00 (Elevation (feet): 751

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	58	71	1	7	0.15
2	85	58	71	1	7	0.14
3	85	58	71	0	6	0.14
4	86	58	72	0	7	0.14
5	86	58	72	0	7	0.13
6	86	59	73	0	8	0.13
7	86	59	73	0	8	0.13
8	86	59	73	0	8	0.12
9	86	59	73	0	8	0.12
10	87	60	73	0	8	0.12
11	87	60	73	0	8	0.12
12	87	60	74	0	9	0.12
13	87	60	74	0	9	0.11
14	87	61	74	0	9	0.11
15	87	61	74	0	9	0.11
16	87	61	74	0	9	0.11
17	88	61	75	0	10	0.11
18	88	61	75	0	10	0.11
19	88	62	75	0	10	0.11
20	88	62	75	0	10	0.11
21	88	62	75	0	10	0.11
22	88	62	75	0	10	0.11
23	89	62	76	0	11	0.11
24	89	63	76	0	11	0.11
25	89	63	76	0	11	0.11
26	89	63	76	0	11	0.11
27	89	63	76	0	11	0.11
28	89	63	76	0	11	0.11
29	89	63	76	0	11	0.11
30	90	64	77	0	12	0.12
MTH	87.4	60.8	74.1	2	276	3.55

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	65	77	0	12	0.12
2	90	65	77	0	12	0.12
3	90	65	77	0	12	0.12
4	90	65	77	0	12	0.13
5	90	65	77	0	12	0.13
6	90	65	78	0	13	0.13
7	91	65	78	0	13	0.13
8	91	65	78	0	13	0.13
9	91	65	78	0	13	0.13
10	91	65	78	0	13	0.13
11	91	65	78	0	13	0.13
12	91	65	78	0	13	0.14
13	91	65	78	0	13	0.14
14	91	65	78	0	13	0.14
15	91	65	78	0	13	0.14
16	91	65	78	0	13	0.14
17	91	65	78	0	13	0.14
18	91	65	78	0	13	0.14
19	91	65	78	0	13	0.14
20	91	65	78	0	13	0.14
21	91	66	79	0	14	0.14
22	91	66	79	0	14	0.14
23	91	66	79	0	14	0.14
24	91	66	79	0	14	0.14
25	91	66	79	0	14	0.14
26	91	66	79	0	14	0.14
27	91	66	79	0	14	0.14
28	91	66	78	0	13	0.14
29	91	66	78	0	13	0.14
30	91	66	78	0	13	0.14
31	91	66	78	0	13	0.14
MTH	90.8	65.4	78.1	0	405	4.20
SUMMER SEASON:	89.1	63.4	76.3	2	1040	11.79

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	91	66	78	0	13	0.14
2	91	66	78	0	13	0.14
3	91	66	78	0	13	0.14
4	91	66	78	0	13	0.13
5	90	66	78	0	13	0.13
6	90	66	78	0	13	0.13
7	90	66	78	0	13	0.13
8	90	66	78	0	13	0.13
9	90	66	78	0	13	0.13
10	90	65	78	0	13	0.13
11	90	64	77	0	12	0.13
12	90	64	77	0	12	0.13
13	90	64	77	0	12	0.13
14	90	64	77	0	12	0.13
15	89	64	77	0	12	0.13
16	89	64	77	0	12	0.13
17	89	64	77	0	12	0.13
18	89	64	77	0	12	0.13
19	89	63	76	0	11	0.13
20	89	63	76	0	11	0.13
21	89	63	76	0	11	0.13
22	89	63	76	0	11	0.13
23	88	63	76	0	11	0.13
24	88	63	76	0	11	0.13
25	88	62	75	0	10	0.13
26	88	62	75	0	10	0.13
27	88	62	75	0	10	0.13
28	88	62	75	0	10	0.13
29	87	62	74	0	9	0.13
30	87	62	74	0	9	0.12
31	87	62	74	0	9	0.12
MTH	89.2	64.0	76.6	0	359	4.04

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	62	74	0	9	0.12
2	87	62	74	0	9	0.12
3	87	62	74	0	9	0.12
4	86	61	73	0	8	0.12
5	86	61	73	0	8	0.12
6	86	61	73	0	8	0.12
7	85	60	73	0	8	0.12
8	85	59	72	0	7	0.13
9	85	59	72	0	7	0.13
10	85	59	72	0	7	0.13
11	85	59	72	0	7	0.13
12	84	58	71	0	6	0.13
13	84	58	71	0	6	0.13
14	84	58	71	0	6	0.13
15	84	58	71	0	6	0.13
16	83	58	71	0	6	0.13
17	83	57	70	0	5	0.13
18	83	57	70	0	5	0.13
19	82	56	69	1	5	0.13
20	82	56	69	1	5	0.13
21	82	56	69	1	5	0.13
22	82	55	69	1	5	0.13
23	82	54	68	1	4	0.13
24	81	54	68	1	4	0.13
25	81	53	67	2	4	0.13
26	81	53	67	2	4	0.13
27	80	53	67	2	4	0.13
28	80	52	66	2	3	0.13
29	80	52	66	2	3	0.13
30	79	52	66	2	3	0.13
MTH	83.4	57.2	70.3	18	176	3.83
AUTUMN SEASON:						
ANNUAL:						

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	52	65	3	3	0.13
2	79	52	65	3	3	0.13
3	78	51	64	4	3	0.13
4	78	51	64	4	3	0.13
5	78	49	63	4	2	0.13
6	78	49	63	4	2	0.13
7	77	49	63	4	2	0.13
8	77	47	62	5	2	0.13
9	77	47	62	5	2	0.13
10	76	47	62	5	2	0.13
11	76	47	62	5	2	0.13
12	76	46	61	5	1	0.13
13	75	45	60	6	1	0.14
14	75	45	60	6	1	0.14
15	74	45	60	6	1	0.14
16	74	44	59	7	1	0.14
17	74	44	59	7	1	0.14
18	73	44	59	7	1	0.14
19	73	43	58	8	1	0.14
20	73	43	58	8	1	0.14
21	72	43	58	8	1	0.14
22	72	42	57	9	1	0.14
23	72	42	57	9	1	0.14
24	71	41	56	9	0	0.14
25	71	41	56	9	0	0.14
26	71	41	56	9	0	0.13
27	70	41	56	9	0	0.13
28	70	40	55	10	0	0.13
29	70	40	55	10	0	0.13
30	69	40	55	10	0	0.13
31	68	40	54	11	0	0.13
MTH	74.1	44.9	59.5	209	38	4.16
AUTUMN SEASON:	73.6	46.0	59.8	686	214	11.87
ANNUAL:	72.7	45.6	59.2	3485	1399	51.63

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	40	54	11	0	0.13
2	68	40	54	11	0	0.13
3	68	39	53	12	0	0.13
4	68	39	53	12	0	0.13
5	68	39	53	12	0	0.13
6	67	38	53	12	0	0.13
7	66	38	52	13	0	0.13
8	66	38	52	13	0	0.13
9	66	38	52	13	0	0.13
10	65	37	51	14	0	0.13
11	65	37	51	14	0	0.13
12	64	37	51	14	0	0.13
13	64	36	50	15	0	0.13
14	64	36	50	15	0	0.13
15	63	36	50	15	0	0.13
16	63	36	50	15	0	0.13
17	63	35	49	16	0	0.13
18	62	35	49	16	0	0.13
19	62	35	49	16	0	0.13
20	61	35	48	17	0	0.13
21	61	35	48	17	0	0.13
22	61	34	48	17	0	0.13
23	60	34	47	18	0	0.13
24	60	34	47	18	0	0.13
25	60	34	47	18	0	0.13
26	60	33	47	18	0	0.13
27	59	33	46	19	0	0.13
28	59	33	46	19	0	0.13
29	59	33	46	19	0	0.12
30	58	32	45	20	0	0.12
MTH	63.3	36.0	49.7	459	0	3.88

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Station Name: SIMMS WATER PLANT SOUTH CAROLINA Station Number: 387885

Latitude: 35B 07* 00(Longitude: -081B 58* 00(Elevation (feet): 751

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.57	0.55	1.18	0.31	0.76	0.31	0.99	0.48	0.14	0.15	0.87	0.50	34.04
0.010	0.73	0.70	1.41	0.42	0.95	0.41	1.17	0.61	0.21	0.23	1.02	0.63	35.50
0.050	1.34	1.26	2.21	0.88	1.65	0.84	1.75	1.13	0.56	0.62	1.56	1.15	39.71
0.100	1.80	1.67	2.75	1.23	2.15	1.17	2.13	1.52	0.88	0.97	1.92	1.53	42.10
0.200	2.48	2.28	3.52	1.80	2.90	1.69	2.67	2.10	1.44	1.57	2.42	2.11	45.11
0.300	3.08	2.81	4.17	2.30	3.53	2.16	3.11	2.60	1.97	2.14	2.84	2.60	47.37
0.400	3.66	3.33	4.78	2.81	4.15	2.62	3.52	3.10	2.52	2.74	3.23	3.09	49.36
0.500	4.26	3.86	5.41	3.34	4.79	3.11	3.94	3.61	3.13	3.40	3.63	3.60	51.27
0.600	4.94	4.46	6.08	3.94	5.49	3.65	4.40	4.19	3.83	4.16	4.07	4.15	53.23
0.700	5.73	5.16	6.87	4.66	6.31	4.31	4.92	4.86	4.68	5.08	4.56	4.81	55.38
0.800	6.76	6.06	7.86	5.60	7.37	5.16	5.58	5.74	5.84	6.33	5.20	5.67	57.97
0.900	8.38	7.48	9.40	7.10	9.02	6.52	6.59	7.11	7.71	8.35	6.16	7.01	61.69
0.950	9.88	8.79	10.80	8.52	10.55	7.80	7.50	8.40	9.52	10.30	7.04	8.25	64.87
0.990	13.14	11.63	13.77	11.61	13.83	10.59	9.43	11.17	13.56	14.67	8.90	10.94	71.14
0.995	14.48	12.79	14.97	12.89	15.18	11.74	10.20	12.31	15.26	16.50	9.65	12.05	73.54

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SPARTANBURG 3 SSE SOUTH CAROLINA Station Number: 388188

Latitude: 34 B 54 * 28 (Longitude: -081 B 54* 51 (Elevation (feet): 610

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	60	35	47	18	0	0.13
2	60	35	47	18	0	0.13
3	60	35	47	18	0	0.13
4	59	34	47	18	0	0.13
5	59	33	46	19	0	0.13
6	58	33	46	19	0	0.13
7	58	33	46	19	0	0.14
8	58	33	46	19	0	0.14
9	57	33	45	20	0	0.14
10	57	33	45	20	0	0.14
11	57	33	45	20	0	0.14
12	57	32	45	20	0	0.14
13	56	32	44	21	0	0.14
14	56	32	44	21	0	0.14
15	56	32	44	21	0	0.14
16	56	32	44	21	0	0.14
17	56	32	44	21	0	0.14
18	56	31	44	21	0	0.14
19	55	31	43	22	0	0.14
20	55	31	43	22	0	0.14
21	55	31	43	22	0	0.15
22	55	31	43	22	0	0.15
23	55	31	43	22	0	0.15
24	55	31	43	22	0	0.15
25	54	31	43	22	0	0.15
26	54	31	43	22	0	0.15
27	54	30	42	23	0	0.15
28	54	30	42	23	0	0.15
29	54	30	42	23	0	0.15
30	54	30	42	23	0	0.15
31	54	30	42	23	0	0.15
MTH	56.3	32.0	44.2	645	0	4.39
WINTER SEASON:						

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	30	42	23	0	0.15
2	54	30	42	23	0	0.15
3	54	30	42	23	0	0.15
4	54	30	42	23	0	0.15
5	54	30	42	23	0	0.16
6	54	30	42	23	0	0.16
7	54	30	42	23	0	0.16
8	54	30	42	23	0	0.16
9	54	30	42	23	0	0.16
10	53	30	42	23	0	0.16
11	53	30	42	23	0	0.16
12	54	30	42	23	0	0.16
13	54	30	42	23	0	0.16
14	54	30	42	23	0	0.16
15	54	30	42	23	0	0.16
16	54	30	42	23	0	0.16
17	54	30	42	23	0	0.16
18	54	30	42	23	0	0.16
19	54	30	42	23	0	0.16
20	54	30	42	23	0	0.16
21	54	30	42	23	0	0.16
22	54	30	42	23	0	0.16
23	54	30	42	23	0	0.16
24	54	30	42	23	0	0.16
25	54	30	42	23	0	0.16
26	54	30	42	23	0	0.16
27	54	30	42	23	0	0.16
28	54	30	42	23	0	0.16
29	55	31	43	22	0	0.15
30	55	31	43	22	0	0.15
31	56	30	43	22	0	0.15
MTH	54.1	30.1	42.1	710	0	4.89
WINTER SEASON:	56.4	31.4	43.9	1901	0	13.60

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	56	31	43	22	0	0.15
2	56	31	43	22	0	0.15
3	56	31	43	22	0	0.15
4	57	31	44	21	0	0.15
5	57	31	44	21	0	0.15
6	57	31	44	21	0	0.15
7	57	31	44	21	0	0.15
8	58	31	44	21	0	0.15
9	58	31	44	21	0	0.15
10	58	31	44	21	0	0.15
11	58	31	45	20	0	0.15
12	58	31	45	20	0	0.15
13	58	32	45	20	0	0.15
14	58	32	45	20	0	0.15
15	58	32	45	20	0	0.15
16	59	32	46	19	0	0.15
17	59	32	46	19	0	0.15
18	60	32	46	19	0	0.15
19	60	32	46	19	0	0.16
20	60	33	47	18	0	0.16
21	60	33	47	18	0	0.16
22	61	33	47	18	0	0.16
23	61	33	47	18	0	0.16
24	61	33	47	18	0	0.16
25	61	34	48	17	0	0.16
26	62	34	48	17	0	0.16
27	62	34	48	17	0	0.17
28	62	35	49	16	0	0.17
MTH	58.9	32.1	45.5	546	0	4.32

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	63	35	49	16	0	0.17
2	63	35	49	16	0	0.17
3	63	36	49	16	0	0.17
4	63	36	50	15	0	0.17
5	64	36	50	15	0	0.17
6	64	36	50	15	0	0.17
7	64	36	50	15	0	0.17
8	65	37	51	14	0	0.17
9	65	37	51	14	0	0.18
10	65	37	51	14	0	0.18
11	65	37	51	14	*	0.18
12	66	38	52	14	*	0.18
13	67	38	53	13	*	0.18
14	67	38	53	13	*	0.18
15	67	38	53	13	*	0.17
16	67	39	53	12	*	0.17
17	67	39	53	12	0	0.17
18	67	39	53	12	0	0.17
19	68	39	54	11	0	0.17
20	68	39	54	11	0	0.17
21	68	40	54	11	0	0.17
22	68	40	54	11	0	0.17
23	68	40	54	11	0	0.16
24	69	40	55	10	0	0.16
25	70	40	55	10	0	0.16
26	70	40	55	10	0	0.16
27	70	40	55	10	0	0.16
28	70	41	56	9	0	0.15
29	71	41	56	9	0	0.15
30	71	41	56	9	0	0.15
31	71	41	56	9	0	0.14
MTH	66.9	38.4	52.7	384	4	5.19
SPRING SEASON:						

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	73	42	57	8	0	0.14
2	73	42	57	8	0	0.14
3	73	42	57	8	0	0.13
4	73	42	57	8	0	0.13
5	73	42	57	8	0	0.13
6	73	42	58	7	0	0.13
7	73	43	58	7	0	0.12
8	73	43	58	7	0	0.12
9	73	43	58	7	0	0.12
10	74	43	59	6	0	0.12
11	74	43	59	6	0	0.12
12	75	43	59	6	0	0.12
13	75	43	59	6	0	0.11
14	75	44	60	5	0	0.11
15	76	44	60	5	0	0.11
16	76	44	60	5	0	0.11
17	76	45	61	5	1	0.11
18	76	45	61	5	1	0.11
19	76	46	61	5	1	0.11
20	76	46	61	5	1	0.11
21	77	46	62	4	1	0.11
22	77	46	62	4	1	0.11
23	77	47	62	4	1	0.11
24	77	47	62	4	1	0.11
25	78	47	63	3	1	0.11
26	78	48	63	3	1	0.11
27	78	48	63	3	1	0.11
28	78	49	64	3	2	0.11
29	79	49	64	3	2	0.11
30	79	49	64	3	2	0.12
MTH	75.5	44.8	60.2	161	17	3.51
SPRING SEASON:	74.7	45.9	60.3	588	159	12.83

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	50	64	3	2	0.12
2	79	50	64	3	2	0.12
3	80	51	65	2	2	0.12
4	80	51	65	2	2	0.12
5	80	51	66	2	3	0.12
6	80	52	66	2	3	0.12
7	80	52	66	2	3	0.13
8	80	52	66	2	3	0.13
9	80	52	66	2	3	0.13
10	81	52	66	2	3	0.13
11	81	53	67	2	4	0.13
12	81	53	67	2	4	0.13
13	81	53	67	2	4	0.13
14	81	54	68	1	4	0.13
15	82	54	68	1	4	0.13
16	82	54	68	1	4	0.14
17	82	55	69	1	5	0.14
18	82	55	69	1	5	0.14
19	82	56	69	1	5	0.14
20	82	56	69	1	5	0.14
21	82	56	69	1	5	0.14
22	82	56	69	1	5	0.14
23	83	57	70	1	6	0.14
24	83	57	70	1	6	0.14
25	83	57	70	1	6	0.14
26	83	57	70	1	6	0.14
27	83	57	70	1	6	0.14
28	84	58	71	1	7	0.14
29	84	59	72	0	7	0.14
30	84	59	72	0	7	0.14
31	85	59	72	0	7	0.14
MTH	81.7	54.5	68.1	43	138	4.13

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SPARTANBURG 3 SSE SOUTH CAROLINA Station Number: 388188

Latitude: 34 B 54 * 28 (Longitude: -081 B 54* 51 (Elevation (feet): 610

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	59	72	0	7	0.14
2	85	60	72	*	8	0.14
3	86	60	73	*	8	0.14
4	86	60	73	*	8	0.14
5	86	60	73	*	8	0.14
6	86	60	73	*	8	0.14
7	86	61	74	0	9	0.14
8	86	61	74	0	9	0.14
9	86	61	74	0	9	0.14
10	86	62	74	0	9	0.14
11	87	62	74	0	9	0.14
12	87	62	75	0	10	0.14
13	87	62	75	0	10	0.14
14	87	63	75	0	10	0.14
15	87	63	75	0	10	0.14
16	87	63	75	0	10	0.14
17	87	63	75	0	10	0.14
18	88	63	76	0	11	0.14
19	88	64	76	0	11	0.14
20	88	64	76	0	11	0.14
21	88	64	76	0	11	0.14
22	88	64	76	0	11	0.14
23	89	65	77	0	12	0.14
24	89	65	77	0	12	0.14
25	89	65	77	0	12	0.14
26	89	65	77	0	12	0.14
27	89	65	77	0	12	0.14
28	89	65	77	0	12	0.14
29	90	66	78	0	13	0.14
30	90	66	78	0	13	0.14
MTH	87.4	62.8	75.1	1	305	4.20

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	67	78	0	13	0.13
2	90	67	78	0	13	0.13
3	90	67	78	0	13	0.13
4	90	67	78	0	13	0.13
5	90	67	78	0	13	0.13
6	90	67	78	0	13	0.13
7	91	67	79	0	14	0.13
8	91	67	79	0	14	0.13
9	91	67	79	0	14	0.13
10	91	67	79	0	14	0.13
11	91	67	79	0	14	0.13
12	91	67	79	0	14	0.13
13	91	67	79	0	14	0.13
14	91	67	79	0	14	0.13
15	91	67	79	0	14	0.13
16	91	67	79	0	14	0.13
17	92	67	79	0	14	0.13
18	92	68	80	0	15	0.13
19	92	68	80	0	15	0.13
20	92	68	80	0	15	0.13
21	92	68	80	0	15	0.13
22	92	68	80	0	15	0.12
23	92	68	80	0	15	0.12
24	92	68	80	0	15	0.12
25	91	68	80	0	15	0.12
26	91	68	80	0	15	0.12
27	91	68	80	0	15	0.12
28	91	68	80	0	15	0.12
29	91	68	80	0	15	0.12
30	91	68	80	0	15	0.12
31	91	68	80	0	15	0.12
MTH	91.1	67.5	79.3	0	442	3.93
SUMMER SEASON:	89.3	65.7	77.5	1	1155	11.97

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	91	68	80	0	15	0.12
2	91	68	80	0	15	0.12
3	91	68	80	0	15	0.12
4	91	68	79	0	14	0.12
5	91	68	79	0	14	0.12
6	91	68	79	0	14	0.12
7	91	68	79	0	14	0.12
8	91	68	79	0	14	0.12
9	91	68	79	0	14	0.12
10	91	68	79	0	14	0.12
11	91	67	79	0	14	0.12
12	91	67	79	0	14	0.12
13	90	67	79	0	14	0.12
14	90	67	79	0	14	0.12
15	90	67	79	0	14	0.12
16	89	67	78	0	13	0.12
17	89	67	78	0	13	0.12
18	89	67	78	0	13	0.12
19	89	67	78	0	13	0.12
20	89	66	78	0	13	0.13
21	89	66	78	0	13	0.13
22	89	66	78	0	13	0.13
23	88	66	77	0	12	0.13
24	88	66	77	0	12	0.13
25	88	66	77	0	12	0.13
26	88	66	77	0	12	0.13
27	88	66	77	0	12	0.13
28	87	65	76	0	11	0.13
29	87	65	76	0	11	0.13
30	87	65	76	0	11	0.13
31	87	65	76	0	11	0.13
MTH	89.5	66.8	78.2	0	408	3.84

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	65	76	0	11	0.12
2	87	65	76	0	11	0.12
3	86	65	75	0	10	0.12
4	86	64	75	0	10	0.12
5	86	64	75	0	10	0.12
6	86	64	75	0	10	0.12
7	86	63	74	0	9	0.12
8	86	62	74	0	9	0.12
9	86	62	74	0	9	0.12
10	86	62	74	0	9	0.12
11	86	62	74	0	9	0.12
12	86	61	73	0	8	0.13
13	86	61	73	0	8	0.13
14	86	61	73	0	8	0.13
15	85	61	73	0	8	0.13
16	84	60	72	0	7	0.13
17	84	60	72	0	7	0.13
18	84	60	72	0	7	0.13
19	83	60	72	0	7	0.13
20	83	59	71	0	6	0.13
21	83	58	71	0	6	0.13
22	82	58	70	1	6	0.13
23	82	58	70	1	6	0.13
24	82	57	70	1	6	0.13
25	82	56	69	1	5	0.13
26	82	56	69	1	5	0.13
27	81	56	69	1	5	0.13
28	81	56	69	1	5	0.13
29	81	55	68	1	4	0.13
30	80	54	67	2	4	0.13
MTH	84.2	60.2	72.2	10	225	3.79

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	80	54	67	2	4	0.13
2	80	54	67	3	5	0.13
3	80	53	67	3	5	0.13
4	80	52	66	3	4	0.13
5	80	51	65	3	3	0.13
6	79	51	65	3	3	0.13
7	78	50	64	4	3	0.13
8	78	50	64	4	3	0.13
9	77	50	63	4	2	0.13
10	77	49	63	4	2	0.13
11	77	49	63	4	2	0.13
12	76	49	63	5	3	0.13
13	76	48	62	5	2	0.13
14	76	47	62	5	2	0.13
15	75	47	61	5	1	0.13
16	75	47	61	5	1	0.13
17	75	46	60	6	1	0.13
18	75	45	60	6	1	0.13
19	74	45	60	6	1	0.13
20	74	44	59	7	1	0.13
21	74	44	59	7	1	0.13
22	73	44	59	7	1	0.13
23	73	43	58	8	1	0.13
24	73	43	58	8	1	0.13
25	72	43	58	8	1	0.13
26	71	43	57	8	0	0.12
27	71	43	57	8	0	0.12
28	71	43	57	8	0	0.12
29	70	42	56	9	0	0.12
30	70	42	56	9	0	0.12
31	70	42	56	9	0	0.12
MTH	75.2	46.9	61.1	176	54	3.97
AUTUMN SEASON:	74.8	48.4	61.6	589	283	11.55
ANNUAL:	73.8	47.8	60.8	3079	1597	49.95

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	42	56	10	1	0.13
2	70	41	56	10	1	0.13
3	70	41	56	10	1	0.13
4	70	41	56	10	1	0.13
5	69	41	55	10	0	0.12
6	68	40	54	11	0	0.12
7	68	40	54	11	0	0.12
8	68	40	54	11	0	0.12
9	67	39	53	12	0	0.12
10	67	39	53	12	0	0.12
11	67	39	53	12	0	0.12
12	66	39	53	12	0	0.12
13	66	38	52	13	0	0.12
14	66	38	52	13	0	0.12
15	66	38	52	13	0	0.12
16	65	38	51	14	0	0.13
17	64	38	51	14	0	0.13
18	64	38	51	14	0	0.13
19	64	37	51	14	0	0.13
20	63	37	50	15	0	0.13
21	63	37	50	15	0	0.13
22	63	37	50	15	0	0.13
23	62	36	49	16	0	0.13
24	62	36	49	16	0	0.13
25	62	36	49	16	0	0.13
26	62	36	49	16	0	0.13
27	61	35	48	17	0	0.13
28	61	35	48	17	0	0.13
29	61	35	48	17	0	0.13
30	60	35	48	17	0	0.13
MTH	65.2	38.1	51.7	403	4	3.79

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: SPARTANBURG 3 SSE SOUTH CAROLINA Station Number: 388188

Latitude: 34B 54* 28(Longitude: -081B 54* 51(Elevation (feet): 610

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.87	0.55	0.85	0.29	0.57	0.47	0.45	0.27	0.24	0.00	0.75	0.64	31.96
0.010	1.06	0.70	1.04	0.39	0.71	0.61	0.58	0.38	0.34	0.00	0.90	0.80	33.44
0.050	1.72	1.26	1.74	0.81	1.26	1.15	1.08	0.81	0.76	0.26	1.43	1.38	37.71
0.100	2.19	1.67	2.23	1.14	1.65	1.54	1.45	1.16	1.10	0.67	1.78	1.80	40.14
0.200	2.85	2.29	2.95	1.65	2.24	2.15	2.02	1.73	1.66	1.30	2.29	2.42	43.21
0.300	3.42	2.82	3.56	2.11	2.74	2.68	2.51	2.24	2.17	1.88	2.71	2.95	45.53
0.400	3.95	3.34	4.15	2.57	3.23	3.20	3.00	2.75	2.68	2.49	3.11	3.46	47.57
0.500	4.51	3.88	4.76	3.05	3.74	3.75	3.51	3.30	3.24	3.17	3.52	3.99	49.53
0.600	5.11	4.48	5.42	3.60	4.29	4.35	4.07	3.92	3.86	3.95	3.97	4.57	51.55
0.700	5.81	5.19	6.19	4.25	4.95	5.06	4.74	4.66	4.61	4.90	4.49	5.25	53.77
0.800	6.71	6.10	7.18	5.11	5.80	5.99	5.60	5.64	5.61	6.20	5.14	6.13	56.45
0.900	8.09	7.52	8.72	6.46	7.12	7.45	6.97	7.21	7.20	8.32	6.16	7.50	60.30
0.950	9.36	8.85	10.13	7.74	8.34	8.82	8.24	8.69	8.72	10.36	7.08	8.77	63.61
0.990	12.08	11.71	13.16	10.54	10.98	11.77	10.99	11.94	12.05	14.97	9.04	11.50	70.13
0.995	13.18	12.88	14.39	11.70	12.06	12.99	12.12	13.29	13.44	16.91	9.84	12.61	72.63

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: UNION 8 SW SOUTH CAROLINA Station Number: 388786

Latitude: 34° 39* 00(Longitude: -081° 45* 00(Elevation (feet): 560

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	32	45	20	0	0.12
2	59	32	45	20	0	0.12
3	59	32	45	20	0	0.12
4	57	32	44	21	0	0.11
5	57	31	44	21	0	0.11
6	57	30	44	21	0	0.11
7	57	30	43	22	0	0.11
8	56	30	43	22	0	0.11
9	56	30	43	22	0	0.11
10	56	30	43	22	0	0.12
11	56	29	43	22	0	0.12
12	55	29	42	23	0	0.12
13	55	29	42	23	0	0.12
14	55	29	42	23	0	0.12
15	55	29	42	23	0	0.12
16	54	28	41	24	0	0.12
17	54	28	41	24	0	0.12
18	54	28	41	24	0	0.12
19	54	28	41	24	0	0.12
20	54	28	41	24	0	0.12
21	53	28	41	24	0	0.13
22	53	27	40	25	0	0.13
23	53	27	40	25	0	0.13
24	53	27	40	25	0	0.13
25	53	27	40	25	0	0.13
26	53	27	40	25	0	0.14
27	53	27	40	25	0	0.14
28	52	27	40	25	0	0.14
29	52	27	40	25	0	0.14
30	52	27	40	25	0	0.14
31	52	27	40	25	0	0.15
MTH	54.8	28.8	41.8	719	0	3.84

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	27	40	25	0	0.15
2	52	27	40	25	0	0.15
3	52	27	40	25	0	0.16
4	51	27	39	26	0	0.16
5	51	27	39	26	0	0.16
6	51	27	39	26	0	0.16
7	51	27	39	26	0	0.16
8	51	27	39	26	0	0.17
9	51	27	39	26	0	0.17
10	51	27	39	26	0	0.17
11	51	27	39	26	0	0.17
12	51	27	39	26	0	0.17
13	51	27	39	26	0	0.17
14	51	27	39	26	0	0.17
15	51	27	39	26	0	0.17
16	52	27	39	26	0	0.17
17	52	27	39	26	0	0.17
18	52	27	39	26	0	0.18
19	52	27	39	26	0	0.18
20	52	27	39	26	0	0.17
21	52	26	39	26	0	0.17
22	52	26	39	26	0	0.17
23	52	26	39	26	0	0.17
24	53	26	40	25	0	0.17
25	53	26	40	25	0	0.17
26	53	26	40	25	0	0.17
27	53	26	40	25	0	0.17
28	53	27	40	25	0	0.17
29	53	27	40	25	0	0.17
30	53	27	40	25	0	0.16
31	53	27	40	25	0	0.16
MTH	51.9	26.8	39.4	795	0	5.18

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	27	40	25	0	0.16
2	54	27	40	25	0	0.16
3	54	27	40	25	0	0.16
4	55	27	41	24	0	0.15
5	55	27	41	24	0	0.15
6	55	27	41	24	0	0.15
7	55	27	41	24	0	0.15
8	55	27	41	24	0	0.15
9	55	27	41	24	0	0.15
10	55	28	41	24	0	0.15
11	56	28	42	23	0	0.15
12	56	28	42	23	0	0.15
13	56	28	42	23	0	0.15
14	56	28	42	23	0	0.15
15	56	28	42	23	0	0.15
16	57	28	43	22	0	0.15
17	57	28	43	22	0	0.15
18	58	28	43	22	0	0.15
19	58	28	43	22	0	0.15
20	58	29	44	21	0	0.15
21	58	29	44	21	0	0.15
22	59	29	44	21	0	0.15
23	59	29	44	21	0	0.15
24	59	29	44	21	0	0.15
25	59	30	45	20	0	0.16
26	60	30	45	20	0	0.16
27	60	30	45	20	0	0.16
28	60	31	46	19	0	0.16
MTH	56.8	28.2	42.5	630	0	4.27

WINTER SEASON: 54.5 27.9 41.2 2144 0 13.29

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	32	46	19	0	0.17
2	61	32	46	19	0	0.17
3	61	32	46	19	0	0.17
4	62	32	47	18	0	0.17
5	62	32	47	18	0	0.17
6	62	32	47	18	0	0.17
7	62	33	48	17	0	0.18
8	63	33	48	17	0	0.18
9	63	33	48	17	0	0.18
10	63	33	48	17	0	0.18
11	63	34	49	16	0	0.18
12	64	34	49	16	0	0.18
13	64	34	49	16	*	0.18
14	64	34	49	16	*	0.18
15	65	35	50	15	*	0.18
16	65	36	51	15	*	0.18
17	65	36	51	15	*	0.18
18	66	36	51	14	*	0.18
19	66	36	51	14	*	0.17
20	66	36	51	14	*	0.17
21	66	36	51	14	0	0.17
22	67	37	52	13	0	0.17
23	67	37	52	13	0	0.17
24	67	37	52	13	0	0.17
25	67	37	52	13	0	0.16
26	68	38	53	12	0	0.16
27	68	38	53	12	0	0.16
28	68	38	53	12	0	0.16
29	69	38	54	11	0	0.15
30	69	38	54	11	0	0.15
31	70	38	54	11	0	0.15
MTH	65.0	35.1	50.1	465	2	5.29

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	39	54	11	0	0.14
2	70	40	55	10	0	0.14
3	71	40	55	10	0	0.14
4	71	40	55	10	0	0.14
5	71	40	55	10	0	0.13
6	71	40	56	9	0	0.13
7	72	40	56	9	0	0.13
8	72	41	56	9	0	0.12
9	72	41	56	9	0	0.12
10	73	41	57	8	0	0.12
11	73	41	57	8	0	0.12
12	73	41	57	8	0	0.12
13	73	42	58	7	0	0.11
14	74	42	58	7	0	0.11
15	74	42	58	7	0	0.11
16	74	42	58	7	0	0.11
17	74	43	59	7	1	0.11
18	75	43	59	7	1	0.11
19	75	43	59	7	1	0.11
20	75	44	60	6	1	0.10
21	75	44	60	6	1	0.10
22	76	44	60	6	1	0.10
23	76	44	60	6	1	0.10
24	76	44	60	6	1	0.10
25	76	45	61	5	1	0.10
26	77	45	61	5	1	0.10
27	77	45	61	5	1	0.10
28	77	45	61	5	1	0.10
29	77	46	61	5	1	0.10
30	77	47	62	5	2	0.10
MTH	73.9	42.5	58.2	220	15	3.42

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	48	62	5	2	0.10
2	78	48	63	4	2	0.10
3	78	49	63	4	2	0.10
4	78	49	63	4	2	0.10
5	78	49	63	4	2	0.11
6	79	49	64	3	2	0.11
7	79	49	64	3	2	0.11
8	79	49	64	3	2	0.11
9	79	49	64	3	2	0.11
10	80	50	65	3	3	0.11
11	80	50	65	3	3	0.11
12	80	50	65	3	3	0.11
13	80	51	66	2	3	0.11
14	80	52	66	2	3	0.11
15	80	52	66	2	3	0.11
16	80	52	66	2	3	0.11
17	81	53	67	2	4	0.11
18	81	53	67	2	4	0.12
19	81	53	67	2	4	0.12
20	81	53	67	2	4	0.12
21	81	53	67	2	4	0.12
22	82	54	68	2	5	0.12
23	82	55	69	1	5	0.12
24	82	55	69	1	5	0.12
25	83	55	69	1	5	0.12
26	83	55	69	1	5	0.12
27	83	55	69	1	5	0.12
28	83	56	70	1	6	0.12
29	84	56	70	1	6	0.12
30	84	56	70	1	6	0.13
31	84	56	70	1	6	0.13
MTH	80.7	52.1	66.4	71	113	3.53

SPRING SEASON: 73.2 43.2 58.2 756 130 12.24

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: UNION 8 SW SOUTH CAROLINA Station Number: 388786

Latitude: 34 B 39 * 00 (Longitude: -081 B 45 * 00 (Elevation (feet): 560

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	57	70	1	6	0.13
2	85	58	71	1	7	0.13
3	85	58	71	1	7	0.13
4	85	59	72	0	7	0.13
5	85	59	72	0	7	0.13
6	85	60	73	0	8	0.13
7	86	60	73	0	8	0.13
8	86	60	73	0	8	0.13
9	86	60	73	0	8	0.13
10	86	60	73	0	8	0.13
11	86	61	74	0	9	0.13
12	87	61	74	0	9	0.13
13	87	61	74	0	9	0.13
14	87	61	74	0	9	0.13
15	87	61	74	0	9	0.14
16	87	62	75	0	10	0.14
17	88	62	75	0	10	0.14
18	88	62	75	0	10	0.14
19	88	62	75	0	10	0.14
20	88	62	75	0	10	0.14
21	88	62	75	0	10	0.14
22	88	63	76	0	11	0.14
23	89	63	76	0	11	0.13
24	89	63	76	0	11	0.13
25	89	63	76	0	11	0.13
26	89	63	76	0	11	0.13
27	89	63	76	0	11	0.13
28	89	64	77	0	12	0.13
29	89	64	77	0	12	0.13
30	90	64	77	0	12	0.13
MTH	87.2	61.3	74.3	3	281	3.98

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	64	77	0	12	0.13
2	90	65	77	0	12	0.13
3	90	65	77	0	12	0.13
4	90	65	77	0	12	0.13
5	90	65	77	0	12	0.13
6	90	65	78	0	13	0.13
7	90	65	78	0	13	0.13
8	90	66	78	0	13	0.13
9	90	66	78	0	13	0.13
10	90	66	78	0	13	0.13
11	90	66	78	0	13	0.13
12	90	66	78	0	13	0.13
13	90	66	78	0	13	0.13
14	90	66	78	0	13	0.13
15	91	66	78	0	13	0.13
16	91	66	78	0	13	0.13
17	91	66	79	0	14	0.12
18	91	66	79	0	14	0.12
19	91	66	79	0	14	0.12
20	91	66	79	0	14	0.12
21	91	66	79	0	14	0.12
22	91	67	79	0	14	0.12
23	91	67	79	0	14	0.12
24	91	67	79	0	14	0.12
25	91	67	79	0	14	0.12
26	91	67	79	0	14	0.12
27	91	67	79	0	14	0.12
28	91	67	79	0	14	0.12
29	91	66	79	0	14	0.12
30	91	66	79	0	14	0.13
31	91	66	79	0	14	0.13
MTH	90.6	66.0	78.3	0	413	3.90
SUMMER SEASON:	88.9	64.0	76.5	3	1064	11.83

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	91	66	79	0	14	0.12
2	91	66	79	0	14	0.12
3	90	66	78	0	13	0.12
4	90	66	78	0	13	0.12
5	90	66	78	0	13	0.12
6	90	66	78	0	13	0.12
7	90	66	78	0	13	0.12
8	90	66	78	0	13	0.12
9	90	66	78	0	13	0.13
10	90	66	78	0	13	0.13
11	90	66	78	0	13	0.13
12	90	66	78	0	13	0.13
13	89	66	78	0	13	0.13
14	89	65	77	0	12	0.13
15	89	65	77	0	12	0.13
16	89	65	77	0	12	0.13
17	89	65	77	0	12	0.13
18	89	65	77	0	12	0.13
19	89	65	77	0	12	0.13
20	89	65	77	0	12	0.13
21	88	64	76	0	11	0.13
22	88	64	76	0	11	0.13
23	88	64	76	0	11	0.13
24	88	64	76	0	11	0.13
25	88	64	76	0	11	0.13
26	87	63	75	0	10	0.13
27	87	63	75	0	10	0.13
28	87	63	75	0	10	0.13
29	87	63	75	0	10	0.13
30	87	63	75	0	10	0.13
31	87	63	75	0	10	0.13
MTH	88.9	64.9	76.9	0	370	3.95

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	63	75	0	10	0.13
2	86	63	74	0	9	0.13
3	86	63	74	0	9	0.13
4	86	62	74	0	9	0.13
5	86	61	73	0	8	0.12
6	86	61	73	0	8	0.12
7	86	61	73	0	8	0.12
8	86	61	73	0	8	0.12
9	85	61	73	0	8	0.13
10	84	60	72	0	7	0.13
11	84	60	72	0	7	0.13
12	84	60	72	0	7	0.13
13	84	59	72	0	7	0.13
14	83	59	71	0	6	0.13
15	83	59	71	0	6	0.13
16	83	58	71	0	6	0.13
17	83	58	71	0	6	0.13
18	83	57	70	0	5	0.13
19	82	57	70	0	5	0.13
20	82	56	69	1	5	0.13
21	82	56	69	1	5	0.13
22	81	56	69	1	5	0.13
23	81	55	68	1	4	0.13
24	81	55	68	1	4	0.13
25	80	55	68	2	5	0.13
26	80	54	67	2	4	0.13
27	80	53	67	2	4	0.13
28	80	53	67	2	4	0.13
29	79	52	66	2	3	0.13
30	79	51	65	3	3	0.13
MTH	83.1	58.0	70.6	18	185	3.86

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	51	65	3	3	0.13
2	79	51	65	4	4	0.13
3	78	51	64	4	3	0.13
4	77	51	64	4	3	0.13
5	77	50	63	4	2	0.13
6	77	48	63	4	2	0.13
7	76	48	62	5	2	0.13
8	76	47	62	5	2	0.13
9	75	47	61	6	2	0.13
10	75	47	61	6	2	0.13
11	75	46	60	6	1	0.13
12	75	45	60	6	1	0.13
13	74	45	60	6	1	0.14
14	74	44	59	7	1	0.14
15	74	44	59	7	1	0.14
16	73	44	59	7	1	0.14
17	73	43	58	8	1	0.14
18	73	43	58	8	1	0.14
19	72	43	58	8	1	0.14
20	72	43	58	8	1	0.14
21	72	42	57	8	0	0.14
22	71	42	57	9	1	0.13
23	71	41	56	9	0	0.13
24	71	41	56	9	0	0.13
25	71	41	56	9	0	0.13
26	70	40	55	10	0	0.13
27	70	40	55	10	0	0.13
28	70	40	55	10	0	0.13
29	69	39	54	11	0	0.13
30	69	39	54	11	0	0.13
31	69	39	54	11	0	0.13
MTH	73.5	44.4	59.0	223	36	4.12
AUTUMN SEASON:	73.4	45.9	59.7	704	224	11.75
ANNUAL:	72.5	45.2	58.9	3607	1418	49.11

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	39	54	12	1	0.13
2	69	39	54	12	1	0.13
3	68	39	53	12	0	0.13
4	68	39	53	12	0	0.13
5	67	39	53	12	0	0.13
6	67	37	52	13	0	0.13
7	67	37	52	13	0	0.13
8	66	37	52	13	0	0.13
9	65	37	51	14	0	0.13
10	65	37	51	14	0	0.13
11	65	37	51	14	0	0.13
12	65	36	51	14	0	0.13
13	64	36	50	15	0	0.13
14	64	36	50	15	0	0.13
15	64	36	50	15	0	0.13
16	64	35	50	15	*	0.13
17	63	35	49	16	*	0.13
18	63	35	49	16	*	0.12
19	63	35	49	16	*	0.12
20	62	35	49	17	*	0.12
21	62	34	48	17	*	0.12
22	62	34	48	17	*	0.12
23	61	33	47	18	*	0.12
24	61	33	47	18	*	0.12
25	61	33	47	18	0	0.12
26	60	33	47	18	0	0.12
27	60	32	46	19	0	0.12
28	60	32	46	19	0	0.12
29	59	32	46	19	0	0.12
30	59	32	45	20	0	0.12
MTH	63.8	35.5	49.7	463	3	3.77

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: UNION 8 SW SOUTH CAROLINA Station Number: 388786

Latitude: 34° 39* 00(Longitude: -081° 45* 00(Elevation (feet): 560

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.76	0.41	0.70	0.32	0.22	0.38	0.33	0.13	0.27	0.00	0.45	0.43	30.32
0.010	0.95	0.54	0.89	0.42	0.31	0.50	0.44	0.20	0.38	0.00	0.58	0.55	31.84
0.050	1.64	1.07	1.58	0.84	0.70	0.98	0.91	0.56	0.82	0.25	1.06	1.04	36.26
0.100	2.13	1.47	2.08	1.16	1.02	1.36	1.27	0.88	1.17	0.66	1.42	1.41	38.78
0.200	2.86	2.09	2.84	1.66	1.54	1.94	1.84	1.45	1.73	1.30	1.96	1.96	41.99
0.300	3.49	2.64	3.48	2.10	2.01	2.45	2.35	2.00	2.25	1.91	2.43	2.45	44.41
0.400	4.09	3.18	4.11	2.54	2.49	2.96	2.86	2.58	2.77	2.55	2.89	2.92	46.55
0.500	4.71	3.76	4.77	3.00	3.01	3.50	3.40	3.21	3.32	3.25	3.37	3.42	48.62
0.600	5.40	4.40	5.49	3.52	3.59	4.10	4.00	3.94	3.94	4.07	3.90	3.98	50.74
0.700	6.20	5.16	6.34	4.13	4.29	4.81	4.73	4.83	4.69	5.08	4.53	4.63	53.08
0.800	7.23	6.16	7.44	4.94	5.22	5.74	5.67	6.04	5.67	6.45	5.35	5.49	55.91
0.900	8.84	7.73	9.16	6.21	6.71	7.22	7.18	8.01	7.25	8.69	6.62	6.83	60.00
0.950	10.33	9.21	10.76	7.41	8.12	8.60	8.59	9.90	8.73	10.86	7.81	8.08	63.51
0.990	13.53	12.42	14.19	10.02	11.24	11.62	11.69	14.16	12.01	15.76	10.39	10.79	70.47
0.995	14.83	13.75	15.60	11.09	12.53	12.86	12.97	15.95	13.37	17.83	11.44	11.91	73.13

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WALHALLA SOUTH CAROLINA Station Number: 388887

Latitude: 34 B 44 * 54 (Longitude: -083 B 05 * 03 (Elevation (feet): 980

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	32	45	20	0	0.16
2	58	32	45	20	*	0.16
3	58	32	45	20	*	0.16
4	57	32	45	21	*	0.16
5	57	32	45	21	*	0.16
6	57	32	44	21	*	0.15
7	57	30	43	22	*	0.15
8	57	30	43	22	*	0.15
9	56	30	43	22	0	0.15
10	55	30	43	22	0	0.15
11	55	29	42	23	0	0.15
12	55	29	42	23	0	0.15
13	55	29	42	23	0	0.15
14	54	29	42	23	0	0.15
15	54	29	42	23	0	0.15
16	53	29	41	24	0	0.15
17	53	29	41	24	0	0.15
18	53	29	41	24	0	0.15
19	53	29	41	24	0	0.16
20	53	29	41	24	0	0.16
21	53	28	41	24	0	0.16
22	53	28	41	24	0	0.16
23	52	28	40	25	0	0.16
24	52	28	40	25	0	0.16
25	52	28	40	25	0	0.16
26	52	28	40	25	0	0.16
27	52	28	40	25	0	0.17
28	52	28	40	25	0	0.17
29	52	28	40	25	0	0.17
30	52	28	40	25	0	0.17
31	52	28	40	25	0	0.17
MTH	54.3	29.4	41.9	719	2	4.88

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	28	40	25	0	0.17
2	52	28	40	25	0	0.18
3	52	28	40	25	0	0.18
4	52	28	40	25	0	0.18
5	51	28	39	26	0	0.18
6	51	27	39	26	0	0.18
7	51	27	39	26	0	0.19
8	51	27	39	26	0	0.19
9	51	27	39	26	0	0.19
10	52	27	39	26	0	0.19
11	52	27	39	26	0	0.19
12	52	27	39	26	0	0.19
13	52	27	39	26	0	0.19
14	52	27	39	26	0	0.19
15	52	27	39	26	0	0.19
16	52	27	40	25	0	0.19
17	52	27	40	25	0	0.19
18	52	27	40	25	0	0.19
19	52	27	40	25	0	0.20
20	52	27	40	25	0	0.20
21	52	27	40	25	0	0.20
22	52	27	40	25	0	0.20
23	52	27	40	25	0	0.19
24	53	27	40	25	0	0.19
25	53	27	40	25	0	0.19
26	53	27	40	25	0	0.19
27	53	27	40	25	0	0.19
28	53	27	40	25	0	0.19
29	53	27	40	25	0	0.19
30	54	27	41	24	0	0.19
31	54	27	41	24	0	0.19
MTH	52.2	27.2	39.7	784	0	5.86

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	55	27	41	24	0	0.19
2	55	27	41	24	0	0.19
3	55	28	41	24	0	0.19
4	55	28	41	24	0	0.19
5	55	28	41	24	0	0.18
6	55	28	42	23	0	0.18
7	55	28	42	23	0	0.18
8	56	28	42	23	0	0.18
9	56	28	42	23	0	0.18
10	56	28	42	23	0	0.18
11	56	28	42	23	0	0.18
12	57	28	42	23	0	0.18
13	57	28	43	22	0	0.18
14	57	29	43	22	0	0.18
15	57	29	43	22	0	0.18
16	57	29	43	22	0	0.18
17	57	29	43	22	0	0.18
18	58	29	44	21	0	0.19
19	58	29	44	21	0	0.19
20	58	30	44	21	0	0.19
21	58	30	44	21	0	0.19
22	58	30	44	21	0	0.19
23	59	30	45	20	0	0.19
24	60	30	45	20	0	0.19
25	60	30	45	20	0	0.19
26	60	30	45	20	0	0.20
27	60	31	46	19	0	0.20
28	61	31	46	19	0	0.20
MTH	57.2	28.9	43.1	614	0	5.22

WINTER SEASON: 54.5 28.5 41.6 2117 2 15.96

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	32	47	19	1	0.20
2	61	32	47	19	1	0.20
3	62	33	47	18	0	0.21
4	62	33	47	18	0	0.21
5	62	33	47	18	0	0.21
6	62	33	48	17	0	0.21
7	62	33	48	17	0	0.21
8	63	34	48	17	0	0.21
9	63	34	48	17	0	0.21
10	63	34	49	16	0	0.21
11	64	34	49	16	0	0.21
12	64	34	49	16	0	0.21
13	64	34	49	16	0	0.21
14	64	35	50	15	0	0.21
15	65	35	50	15	0	0.21
16	65	35	50	15	0	0.21
17	65	35	50	15	0	0.21
18	66	36	51	14	0	0.21
19	66	36	51	14	0	0.21
20	66	36	51	14	0	0.20
21	66	36	51	14	0	0.20
22	67	37	52	13	0	0.20
23	67	37	52	13	0	0.20
24	67	37	52	13	0	0.19
25	67	37	52	13	0	0.19
26	68	38	53	12	0	0.19
27	68	38	53	12	0	0.19
28	68	38	53	12	0	0.18
29	68	38	53	12	0	0.18
30	69	38	54	11	0	0.18
31	69	38	54	11	0	0.17
MTH	65.0	35.3	50.2	462	2	6.24

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	39	54	11	0	0.17
2	70	39	54	11	0	0.16
3	70	40	55	10	0	0.16
4	70	40	55	10	0	0.16
5	71	40	55	10	0	0.15
6	71	40	55	10	0	0.15
7	71	40	56	9	0	0.15
8	71	40	56	9	0	0.15
9	72	40	56	9	0	0.14
10	72	41	56	9	0	0.14
11	72	41	57	8	0	0.14
12	73	41	57	8	0	0.14
13	73	41	57	8	0	0.14
14	73	41	57	8	0	0.14
15	73	42	58	7	0	0.14
16	74	42	58	7	0	0.14
17	74	42	58	7	0	0.13
18	74	42	58	7	0	0.13
19	74	43	59	6	0	0.14
20	75	43	59	6	0	0.14
21	75	43	59	6	0	0.14
22	75	43	59	6	0	0.14
23	75	44	60	6	1	0.14
24	76	44	60	6	1	0.14
25	76	44	60	6	1	0.14
26	76	45	61	5	1	0.14
27	76	46	61	5	1	0.15
28	76	46	61	5	1	0.15
29	76	46	61	5	1	0.15
30	77	47	62	4	1	0.15
MTH	73.4	42.2	57.8	224	8	4.35

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	48	62	4	1	0.16
2	77	48	62	4	1	0.16
3	78	48	63	4	2	0.16
4	78	49	63	4	2	0.17
5	78	49	63	4	2	0.17
6	78	49	64	3	2	0.17
7	78	49	64	3	2	0.17
8	79	49	64	3	2	0.17
9	79	49	64	3	2	0.18
10	79	50	65	3	3	0.18
11	79	51	65	3	3	0.18
12	79	51	65	3	3	0.18
13	80	51	66	2	3	0.18
14	80	52	66	2	3	0.18
15	80	52	66	2	3	0.18
16	80	52	66	2	3	0.18
17	81	53	67	2	4	0.18
18	81	53	67	2	4	0.18
19	81	53	67	2	4	0.18
20	81	53	67	2	4	0.18
21	82	54	68	1	4	0.18
22	82	54	68	1	4	0.18
23	82	54	68	1	4	0.18
24	82	55	69	1	5	0.18
25	83	55	69	1	5	0.18
26	83	55	69	1	5	0.18
27	83	55	69	1	5	0.18
28	83	55	69	1	5	0.18
29	83	56	70	1	6	0.17
30	84	56	70	1	6	0.17
31	84	56	70	1	6	0.17
MTH	80.5	52.1	66.3	68	108	5.44

SPRING SEASON: 72.9 43.2 58.1 754 118 16.03

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WALHALLA SOUTH CAROLINA Station Number: 388887

Latitude: 34 B 44 * 54 (Longitude: -083 B 05 * 03 (Elevation (feet): 980

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	57	70	1	6	0.17
2	84	57	70	1	6	0.17
3	84	57	71	1	7	0.16
4	85	58	71	1	7	0.16
5	86	58	72	0	7	0.16
6	86	58	72	0	7	0.16
7	86	59	72	0	7	0.16
8	86	59	72	0	7	0.16
9	86	59	73	0	8	0.15
10	87	59	73	0	8	0.15
11	87	59	73	0	8	0.15
12	87	59	73	0	8	0.15
13	87	59	73	0	8	0.15
14	87	59	73	0	8	0.15
15	87	60	74	0	9	0.15
16	87	60	74	0	9	0.15
17	87	60	74	0	9	0.15
18	87	61	74	0	9	0.15
19	87	61	74	0	9	0.15
20	87	61	74	0	9	0.14
21	87	61	74	0	9	0.14
22	88	61	75	0	10	0.14
23	88	62	75	0	10	0.14
24	88	62	75	0	10	0.14
25	88	62	75	0	10	0.14
26	88	62	75	0	10	0.14
27	88	62	75	0	10	0.14
28	89	62	76	0	11	0.14
29	89	62	76	0	11	0.14
30	89	63	76	0	11	0.14
MTH	86.9	60.0	73.5	4	258	4.49

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	63	76	0	11	0.14
2	90	63	76	0	11	0.14
3	90	63	76	0	11	0.14
4	90	63	76	0	11	0.15
5	90	63	77	0	12	0.15
6	90	63	77	0	12	0.15
7	90	63	77	0	12	0.15
8	90	64	77	0	12	0.15
9	90	64	77	0	12	0.15
10	90	64	77	0	12	0.15
11	90	64	77	0	12	0.15
12	90	64	77	0	12	0.15
13	90	64	77	0	12	0.15
14	90	64	77	0	12	0.15
15	90	64	77	0	12	0.15
16	91	64	77	0	12	0.15
17	91	64	77	0	12	0.15
18	91	64	77	0	12	0.15
19	91	64	77	0	12	0.16
20	91	64	77	0	12	0.16
21	91	64	78	0	13	0.16
22	91	64	78	0	13	0.16
23	91	64	78	0	13	0.16
24	91	64	78	0	13	0.16
25	91	64	78	0	13	0.16
26	91	64	78	0	13	0.16
27	91	64	78	0	13	0.16
28	91	64	78	0	13	0.16
29	91	64	78	0	13	0.16
30	90	64	77	0	12	0.17
31	90	64	77	0	12	0.17
MTH	90.5	63.8	77.2	0	377	4.77
SUMMER SEASON:	88.7	62.4	75.6	4	978	14.62

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	64	77	0	12	0.17
2	90	64	77	0	12	0.17
3	90	64	77	0	12	0.17
4	90	64	77	0	12	0.17
5	90	64	77	0	12	0.17
6	90	64	77	0	12	0.17
7	90	64	77	0	12	0.17
8	90	64	77	0	12	0.17
9	90	64	77	0	12	0.17
10	90	64	77	0	12	0.17
11	90	64	77	0	12	0.17
12	89	64	77	0	12	0.17
13	89	64	77	0	12	0.17
14	89	64	77	0	12	0.18
15	89	64	76	0	11	0.18
16	89	64	76	0	11	0.18
17	89	64	76	0	11	0.18
18	89	64	76	0	11	0.18
19	89	64	76	0	11	0.18
20	88	64	76	0	11	0.18
21	88	63	76	0	11	0.18
22	88	63	76	0	11	0.18
23	88	62	75	0	10	0.17
24	88	62	75	0	10	0.17
25	88	62	75	0	10	0.17
26	88	62	75	0	10	0.17
27	87	62	75	0	10	0.17
28	87	62	75	0	10	0.17
29	87	62	74	0	9	0.17
30	87	62	74	0	9	0.17
31	87	62	74	0	9	0.17
MTH	88.8	63.4	76.1	0	343	5.36

SEPTEMBER

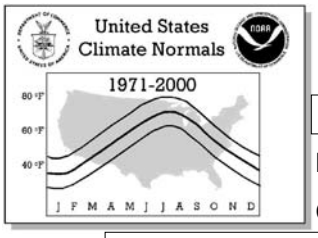
Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	62	74	0	9	0.17
2	87	62	74	0	9	0.17
3	86	61	74	0	9	0.17
4	86	61	74	0	9	0.17
5	86	61	74	0	9	0.17
6	86	61	74	0	9	0.17
7	85	60	72	0	7	0.16
8	85	60	72	0	7	0.16
9	85	60	72	0	7	0.16
10	85	60	72	0	7	0.16
11	85	60	72	0	7	0.16
12	85	58	71	0	6	0.16
13	84	58	71	0	6	0.16
14	84	58	71	0	6	0.16
15	84	58	71	0	6	0.16
16	83	58	71	0	6	0.16
17	83	58	71	0	6	0.16
18	83	57	70	0	5	0.16
19	83	57	70	0	5	0.15
20	82	56	69	1	5	0.15
21	82	56	69	1	5	0.15
22	82	56	69	1	5	0.15
23	81	55	68	1	4	0.15
24	81	55	68	1	4	0.15
25	80	54	67	2	4	0.15
26	80	54	67	2	4	0.15
27	80	53	67	2	4	0.15
28	80	52	66	2	3	0.15
29	79	52	66	2	3	0.14
30	79	51	65	3	3	0.14
MTH	83.3	57.5	70.4	18	179	4.72

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	51	65	3	3	0.14
2	79	51	65	3	3	0.14
3	79	51	65	3	3	0.14
4	78	49	63	3	1	0.14
5	78	49	63	4	2	0.14
6	77	48	62	4	1	0.14
7	77	48	62	5	2	0.14
8	76	48	62	5	2	0.14
9	76	47	62	5	2	0.14
10	75	47	61	5	1	0.14
11	75	47	61	5	1	0.14
12	74	46	60	6	1	0.14
13	74	46	60	6	1	0.14
14	74	45	60	6	1	0.14
15	73	45	59	7	1	0.14
16	73	45	59	7	1	0.14
17	73	44	59	7	1	0.14
18	72	44	58	8	1	0.14
19	72	43	58	8	1	0.14
20	72	43	58	8	1	0.14
21	71	43	57	8	0	0.14
22	71	42	57	8	0	0.14
23	70	42	56	9	0	0.14
24	70	42	56	9	0	0.14
25	70	42	56	9	0	0.14
26	70	41	56	9	0	0.15
27	69	41	55	10	0	0.15
28	69	41	55	10	0	0.15
29	69	40	55	10	0	0.15
30	68	40	54	11	0	0.15
31	68	40	54	11	0	0.15
MTH	73.3	44.9	59.1	212	30	4.40
AUTUMN SEASON:	73.3	46.1	59.7	691	211	14.04
ANNUAL:	72.4	45.1	58.8	3566	1309	60.65

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	40	54	11	0	0.15
2	68	40	54	11	*	0.16
3	67	40	53	12	*	0.16
4	67	40	53	13	*	0.16
5	67	39	53	13	*	0.16
6	67	38	52	13	*	0.16
7	66	38	52	13	*	0.16
8	66	38	52	13	*	0.16
9	66	38	52	13	0	0.16
10	65	37	51	14	0	0.16
11	65	37	51	14	0	0.17
12	65	37	51	14	0	0.17
13	64	36	50	15	0	0.17
14	64	36	50	15	0	0.17
15	64	36	50	15	0	0.17
16	63	36	50	15	0	0.17
17	63	35	49	16	0	0.17
18	63	35	49	16	0	0.17
19	62	35	49	16	0	0.17
20	62	34	48	17	0	0.17
21	62	34	48	17	0	0.17
22	61	34	48	17	0	0.17
23	61	34	48	17	0	0.17
24	60	34	47	18	0	0.16
25	60	34	47	18	0	0.16
26	60	33	47	18	0	0.16
27	59	33	46	19	0	0.16
28	59	33	46	19	0	0.16
29	59	33	46	19	0	0.16
30	58	32	45	20	0	0.16
MTH	63.4	36.0	49.7	461	2	4.92



CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WALHALLA SOUTH CAROLINA Station Number: 388887

Latitude: 34B 44* 54(Longitude: -083B 05* 03(Elevation (feet): 980

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	1.10	0.68	0.77	0.42	0.36	0.48	0.57	0.29	0.13	0.06	0.99	0.53	35.17
0.010	1.33	0.86	0.98	0.55	0.49	0.63	0.73	0.41	0.20	0.10	1.19	0.68	37.18
0.050	2.13	1.54	1.79	1.09	1.10	1.19	1.34	0.98	0.59	0.38	1.87	1.30	43.09
0.100	2.68	2.03	2.38	1.49	1.59	1.61	1.80	1.45	0.96	0.69	2.32	1.76	46.49
0.200	3.47	2.78	3.28	2.13	2.39	2.26	2.48	2.24	1.63	1.27	2.98	2.47	50.84
0.300	4.14	3.42	4.05	2.69	3.12	2.84	3.08	2.97	2.29	1.88	3.53	3.09	54.15
0.400	4.77	4.05	4.81	3.24	3.86	3.40	3.66	3.71	2.98	2.55	4.05	3.70	57.09
0.500	5.42	4.70	5.60	3.83	4.65	3.99	4.27	4.52	3.76	3.32	4.58	4.34	59.93
0.600	6.13	5.42	6.47	4.48	5.55	4.64	4.95	5.43	4.65	4.22	5.15	5.05	62.86
0.700	6.95	6.26	7.50	5.26	6.62	5.42	5.74	6.54	5.76	5.36	5.82	5.89	66.10
0.800	8.00	7.36	8.84	6.27	8.05	6.43	6.77	8.01	7.27	6.93	6.66	6.99	70.04
0.900	9.61	9.07	10.93	7.88	10.32	8.02	8.40	10.39	9.74	9.55	7.97	8.71	75.74
0.950	11.10	10.66	12.88	9.38	12.48	9.50	9.91	12.65	12.14	12.12	9.16	10.33	80.68
0.990	14.25	14.09	17.08	12.66	17.25	12.73	13.17	17.66	17.53	17.99	11.68	13.83	90.49
0.995	15.52	15.50	18.81	14.01	19.23	14.06	14.51	19.75	19.81	20.50	12.70	15.27	94.27

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WEST PELZER 2 W SOUTH CAROLINA Station Number: 389122

Latitude: 34 B 39 * 11 (Longitude: -082 B 29* 14 (Elevation (feet): 862

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	36	47	18	0	0.13
2	58	36	47	18	0	0.13
3	57	36	46	19	0	0.13
4	57	36	46	19	0	0.13
5	57	35	46	19	0	0.13
6	57	35	46	19	0	0.13
7	57	34	45	20	0	0.13
8	56	34	45	20	0	0.13
9	55	34	45	20	0	0.13
10	55	34	45	20	0	0.13
11	54	34	44	21	0	0.13
12	54	34	44	21	0	0.13
13	54	33	44	21	0	0.13
14	54	33	44	21	0	0.13
15	53	33	43	22	0	0.13
16	53	33	43	22	0	0.13
17	53	33	43	22	0	0.13
18	53	32	43	22	0	0.13
19	53	32	43	22	0	0.14
20	52	32	42	23	0	0.14
21	52	32	42	23	0	0.14
22	52	32	42	23	0	0.14
23	52	32	42	23	0	0.14
24	52	32	42	23	0	0.14
25	52	32	42	23	0	0.14
26	52	31	42	23	0	0.14
27	51	31	41	24	0	0.15
28	51	31	41	24	0	0.15
29	51	31	41	24	0	0.15
30	51	31	41	24	0	0.15
31	51	31	41	24	0	0.15
MTH	53.8	33.1	43.5	667	0	4.21

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	51	31	41	24	0	0.16
2	51	31	41	24	0	0.16
3	51	31	41	24	0	0.16
4	51	31	41	24	0	0.16
5	51	31	41	24	0	0.16
6	51	31	41	24	0	0.16
7	51	31	41	24	0	0.17
8	51	31	41	24	0	0.17
9	51	31	41	24	0	0.17
10	51	31	41	24	0	0.17
11	51	30	40	25	0	0.17
12	51	30	40	25	0	0.17
13	51	30	41	24	0	0.17
14	51	30	41	24	0	0.17
15	51	30	41	24	0	0.17
16	51	30	41	24	0	0.17
17	51	30	41	24	0	0.17
18	51	30	41	24	0	0.17
19	51	30	41	24	0	0.17
20	51	31	41	24	0	0.17
21	51	31	41	24	0	0.17
22	51	31	41	24	0	0.17
23	51	31	41	24	0	0.17
24	51	31	41	24	0	0.17
25	52	31	41	24	0	0.17
26	52	31	41	24	0	0.17
27	52	31	41	24	0	0.17
28	52	31	41	24	0	0.17
29	52	31	41	24	0	0.16
30	52	31	42	23	0	0.16
31	53	31	42	23	0	0.16
MTH	51.3	30.7	41.0	744	0	5.18

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	31	42	23	0	0.16
2	54	31	42	23	0	0.16
3	54	31	42	23	0	0.16
4	54	31	42	23	0	0.16
5	54	31	43	22	0	0.16
6	54	32	43	22	0	0.15
7	54	32	43	22	0	0.15
8	54	32	43	22	0	0.15
9	54	32	43	22	0	0.15
10	54	32	43	22	0	0.15
11	55	32	44	21	0	0.15
12	56	32	44	21	0	0.15
13	56	32	44	21	0	0.15
14	56	32	44	21	0	0.15
15	56	32	44	21	0	0.15
16	56	33	45	20	0	0.15
17	57	33	45	20	0	0.15
18	57	33	45	20	0	0.16
19	57	33	45	20	*	0.16
20	57	34	46	19	*	0.16
21	58	34	46	19	*	0.16
22	58	34	46	19	*	0.16
23	58	35	47	19	*	0.16
24	59	35	47	18	*	0.16
25	59	35	47	18	*	0.16
26	59	35	47	18	*	0.17
27	59	36	48	18	*	0.17
28	60	36	48	17	0	0.17
MTH	56.2	32.9	44.6	574	2	4.39

WINTER SEASON: 53.7 32.2 43.0 1985 2 13.78

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	60	36	48	17	0	0.17
2	60	36	48	17	0	0.17
3	60	36	48	17	0	0.18
4	61	36	48	17	0	0.18
5	61	37	49	16	0	0.18
6	61	37	49	16	0	0.18
7	62	37	49	16	0	0.18
8	62	38	50	15	0	0.18
9	62	38	50	15	0	0.18
10	62	38	50	15	0	0.19
11	63	38	50	15	0	0.19
12	63	39	51	14	0	0.19
13	63	40	52	14	1	0.19
14	63	40	52	14	1	0.19
15	64	40	52	14	1	0.18
16	64	40	52	14	1	0.18
17	65	40	53	13	1	0.18
18	65	40	53	13	1	0.18
19	65	40	53	12	0	0.18
20	65	41	53	12	0	0.18
21	65	41	53	12	0	0.18
22	66	41	54	11	0	0.18
23	66	41	54	11	0	0.17
24	66	42	54	11	0	0.17
25	66	42	54	11	0	0.17
26	67	42	55	10	0	0.17
27	67	42	55	10	0	0.16
28	67	43	55	10	0	0.16
29	67	43	55	10	0	0.16
30	67	43	55	10	0	0.15
31	68	43	56	9	0	0.15
MTH	64.0	39.7	51.9	411	6	5.45

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	44	56	9	0	0.15
2	69	44	56	9	0	0.14
3	69	44	56	9	0	0.14
4	69	45	57	8	0	0.14
5	69	45	57	8	0	0.13
6	70	45	57	8	0	0.13
7	70	45	57	8	0	0.13
8	70	45	58	7	0	0.13
9	71	45	58	7	0	0.12
10	71	46	58	7	0	0.12
11	71	46	58	7	0	0.12
12	71	46	59	6	0	0.12
13	72	46	59	6	0	0.12
14	72	46	59	6	0	0.11
15	72	46	59	6	0	0.11
16	72	46	59	6	0	0.11
17	73	47	60	6	1	0.11
18	73	47	60	6	1	0.11
19	73	48	61	5	1	0.11
20	73	48	61	5	1	0.11
21	74	48	61	5	1	0.11
22	74	48	61	5	1	0.11
23	74	49	62	4	1	0.11
24	74	49	62	4	1	0.11
25	75	49	62	4	1	0.11
26	75	49	62	4	1	0.11
27	75	50	63	3	1	0.11
28	75	51	63	3	1	0.11
29	76	51	64	3	2	0.12
30	76	51	64	3	2	0.12
MTH	72.2	47.0	59.6	177	16	3.58

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	76	52	64	3	2	0.12
2	76	52	64	3	2	0.12
3	76	53	64	3	2	0.12
4	78	53	65	2	2	0.12
5	78	53	65	2	2	0.12
6	78	53	65	2	2	0.13
7	78	54	66	2	3	0.13
8	78	54	66	2	3	0.13
9	78	54	66	2	3	0.13
10	78	54	66	2	3	0.13
11	78	55	67	1	3	0.13
12	79	55	67	1	3	0.13
13	79	56	68	1	4	0.13
14	79	56	68	1	4	0.13
15	79	56	68	1	4	0.14
16	79	56	68	1	4	0.14
17	80	56	68	1	4	0.14
18	80	56	68	1	4	0.14
19	80	57	69	1	5	0.14
20	80	58	69	1	5	0.14
21	80	58	69	1	5	0.14
22	80	58	69	1	5	0.14
23	80	58	69	1	5	0.14
24	81	59	70	1	6	0.14
25	81	59	70	1	6	0.14
26	82	59	71	0	6	0.14
27	82	60	71	0	6	0.14
28	82	60	71	0	6	0.14
29	82	61	72	0	7	0.14
30	83	61	72	0	7	0.14
31	83	61	72	0	7	0.14
MTH	79.5	56.4	68.0	38	130	4.15

SPRING SEASON: 71.9 47.7 59.9 626 152 13.18

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WEST PELZER 2 W SOUTH CAROLINA Station Number: 389122

Latitude: 34 B 39 * 11 (Longitude: -082 B 29 * 14 (Elevation (feet): 862

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	83	62	72	0	7	0.14
2	84	62	73	0	8	0.14
3	84	63	73	0	8	0.13
4	84	63	73	0	8	0.13
5	84	63	73	0	8	0.13
6	84	63	74	0	9	0.13
7	85	63	74	0	9	0.13
8	85	63	74	0	9	0.13
9	85	63	74	0	9	0.13
10	85	63	74	0	9	0.13
11	85	64	75	0	10	0.13
12	86	64	75	0	10	0.13
13	86	64	75	0	10	0.13
14	86	64	75	0	10	0.13
15	86	64	75	0	10	0.13
16	86	65	76	0	11	0.13
17	87	65	76	0	11	0.13
18	87	65	76	0	11	0.13
19	87	65	76	0	11	0.13
20	87	65	76	0	11	0.13
21	87	66	77	0	12	0.13
22	87	66	77	0	12	0.13
23	88	66	77	0	12	0.13
24	88	66	77	0	12	0.13
25	88	66	77	0	12	0.13
26	88	66	77	0	12	0.13
27	88	67	78	0	13	0.13
28	88	67	78	0	13	0.13
29	89	67	78	0	13	0.13
30	89	67	78	0	13	0.13
MTH	86.2	64.6	75.4	0	313	3.92

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	68	78	0	13	0.13
2	89	68	78	0	13	0.13
3	89	68	78	0	13	0.13
4	89	68	79	0	14	0.13
5	89	68	79	0	14	0.13
6	89	68	79	0	14	0.13
7	90	68	79	0	14	0.13
8	90	69	79	0	14	0.13
9	90	69	79	0	14	0.14
10	90	69	79	0	14	0.14
11	90	69	79	0	14	0.14
12	90	69	79	0	14	0.14
13	90	69	79	0	14	0.14
14	90	69	79	0	14	0.14
15	90	69	79	0	14	0.13
16	90	69	79	0	14	0.13
17	90	69	80	0	15	0.13
18	90	69	80	0	15	0.13
19	90	69	80	0	15	0.13
20	90	69	80	0	15	0.13
21	90	69	80	0	15	0.13
22	90	69	80	0	15	0.13
23	90	69	80	0	15	0.13
24	90	70	80	0	15	0.13
25	90	70	80	0	15	0.13
26	90	70	80	0	15	0.13
27	90	69	80	0	15	0.13
28	90	69	80	0	15	0.13
29	90	69	80	0	15	0.13
30	90	69	80	0	15	0.13
31	90	69	79	0	14	0.13
MTH	89.8	68.9	79.4	0	445	4.09
SUMMER SEASON:	88.0	67.1	77.6	0	1160	11.91

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	69	79	0	14	0.13
2	90	69	79	0	14	0.13
3	89	69	79	0	14	0.12
4	89	69	79	0	14	0.12
5	89	69	79	0	14	0.12
6	89	69	79	0	14	0.12
7	89	69	79	0	14	0.12
8	89	69	79	0	14	0.12
9	89	69	79	0	14	0.12
10	89	69	79	0	14	0.12
11	89	69	79	0	14	0.12
12	89	69	79	0	14	0.12
13	88	69	79	0	14	0.12
14	88	68	78	0	13	0.12
15	88	68	78	0	13	0.12
16	88	68	78	0	13	0.12
17	88	68	78	0	13	0.12
18	88	68	78	0	13	0.12
19	88	68	78	0	13	0.13
20	88	68	78	0	13	0.13
21	87	68	78	0	13	0.13
22	87	67	77	0	12	0.13
23	87	67	77	0	12	0.13
24	87	67	77	0	12	0.13
25	87	67	77	0	12	0.13
26	87	67	77	0	12	0.13
27	87	67	77	0	12	0.13
28	86	66	76	0	11	0.13
29	86	66	76	0	11	0.14
30	86	66	76	0	11	0.14
31	86	66	76	0	11	0.14
MTH	88.0	68.0	78.0	0	402	3.90

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	66	76	0	11	0.14
2	86	66	76	0	11	0.14
3	85	66	75	0	10	0.14
4	85	66	75	0	10	0.14
5	85	66	75	0	10	0.14
6	85	66	75	0	10	0.15
7	85	64	74	0	9	0.15
8	84	64	74	0	9	0.15
9	84	64	74	0	9	0.15
10	84	64	74	0	9	0.15
11	83	64	74	0	9	0.15
12	83	63	73	0	8	0.15
13	83	63	73	0	8	0.15
14	83	63	73	0	8	0.15
15	83	62	73	0	8	0.15
16	82	62	72	0	7	0.15
17	82	62	72	0	7	0.15
18	82	61	72	0	7	0.15
19	82	61	72	0	7	0.15
20	81	61	71	0	6	0.15
21	81	60	71	0	6	0.15
22	81	59	70	1	6	0.15
23	80	59	70	1	6	0.15
24	80	58	69	1	5	0.14
25	80	58	69	1	5	0.14
26	79	58	69	1	5	0.14
27	79	58	69	1	5	0.14
28	79	57	68	1	4	0.14
29	78	56	67	2	4	0.14
30	78	56	67	2	4	0.14
MTH	82.3	61.8	72.1	11	223	4.38
AUTUMN SEASON:	72.6	50.4	61.5	586	270	12.09
ANNUAL:	71.6	49.3	60.5	3197	1584	50.96

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	56	67	2	4	0.13
2	78	56	67	2	4	0.13
3	77	56	66	2	3	0.13
4	77	54	65	3	3	0.13
5	76	54	65	3	3	0.13
6	76	52	64	4	3	0.13
7	75	52	64	4	3	0.13
8	75	51	63	4	2	0.12
9	75	51	63	4	2	0.12
10	74	51	63	4	2	0.12
11	74	50	62	5	2	0.12
12	74	50	62	5	2	0.12
13	73	49	61	5	1	0.12
14	73	49	61	5	1	0.12
15	73	49	61	5	1	0.12
16	72	49	61	5	1	0.12
17	72	48	60	6	1	0.12
18	72	48	60	6	1	0.12
19	71	47	59	7	1	0.12
20	71	47	59	7	1	0.12
21	71	47	59	7	1	0.12
22	70	47	59	7	1	0.12
23	70	46	58	7	0	0.12
24	70	46	58	7	0	0.12
25	70	46	58	7	0	0.12
26	69	45	57	8	0	0.12
27	69	45	57	8	0	0.12
28	69	45	57	8	0	0.12
29	68	44	56	9	0	0.12
30	68	44	56	9	0	0.12
31	68	44	56	9	0	0.12
MTH	72.5	49.0	60.8	174	43	3.79

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	44	56	9	0	0.13
2	67	44	55	10	0	0.13
3	67	44	55	10	*	0.13
4	67	44	55	11	*	0.13
5	67	44	55	11	*	0.13
6	66	44	55	11	*	0.13
7	66	43	55	11	*	0.13
8	65	42	54	11	*	0.13
9	65	42	54	11	0	0.13
10	65	41	53	12	0	0.13
11	65	41	53	12	0	0.13
12	64	41	53	12	0	0.13
13	64	41	53	12	0	0.13
14	63	41	52	13	0	0.13
15	63	41	52	13	0	0.13
16	63	40	52	13	0	0.13
17	62	40	51	14	0	0.13
18	62	40	51	14	0	0.13
19	62	40	51	14	0	0.13
20	61	39	50	15	0	0.14
21	61	39	50	15	0	0.14
22	61	39	50	15	0	0.13
23	61	39	50	15	0	0.13
24	60	38	49	16	0	0.13
25	60	38	49	16	0	0.13
26	60	38	49	16	0	0.13
27	59	37	48	17	0	0.13
28	59	37	48	17	0	0.13
29	58	37	48	17	0	0.13
30	58	36	47	18	0	0.13
MTH	63.0	40.5	51.8	401	4	3.92

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Station Name: WEST PELZER 2 W SOUTH CAROLINA Station Number: 389122

Latitude: 34° 39* 11(Longitude: -082° 29* 14(Elevation (feet): 862

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.80	0.58	0.82	0.32	0.07	0.24	0.25	0.21	0.00	0.00	0.73	0.54	27.93
0.010	0.99	0.73	1.02	0.42	0.11	0.34	0.35	0.29	0.00	0.00	0.88	0.68	29.71
0.050	1.69	1.30	1.75	0.86	0.39	0.76	0.80	0.70	0.51	0.29	1.41	1.23	34.97
0.100	2.18	1.72	2.26	1.19	0.69	1.11	1.17	1.05	1.05	0.69	1.78	1.63	38.02
0.200	2.90	2.35	3.03	1.71	1.25	1.69	1.77	1.62	1.78	1.30	2.31	2.23	41.95
0.300	3.52	2.89	3.68	2.18	1.83	2.22	2.32	2.15	2.41	1.86	2.76	2.75	44.95
0.400	4.11	3.41	4.31	2.64	2.46	2.75	2.88	2.69	3.05	2.44	3.19	3.26	47.62
0.500	4.72	3.96	4.96	3.13	3.17	3.33	3.48	3.28	3.72	3.07	3.62	3.79	50.22
0.600	5.40	4.56	5.67	3.68	4.01	3.98	4.16	3.95	4.49	3.79	4.10	4.37	52.91
0.700	6.18	5.27	6.51	4.33	5.06	4.77	4.98	4.75	5.40	4.68	4.65	5.06	55.89
0.800	7.20	6.18	7.58	5.19	6.50	5.81	6.07	5.83	6.62	5.87	5.35	5.95	59.51
0.900	8.77	7.61	9.26	6.54	8.90	7.49	7.81	7.57	8.56	7.81	6.44	7.34	64.79
0.950	10.22	8.94	10.81	7.82	11.26	9.08	9.47	9.22	10.41	9.68	7.44	8.63	69.37
0.990	13.33	11.81	14.12	10.60	16.61	12.59	13.13	12.89	14.48	13.86	9.56	11.42	78.52
0.995	14.60	12.98	15.48	11.75	18.89	14.05	14.65	14.43	16.18	15.62	10.42	12.56	82.06

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WHITMIRE 4 NE SOUTH CAROLINA Station Number: 389218

Latitude: 34 B 32 * 00 (Longitude: -081 B 33* 00 (Elevation (feet): 400

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.12
4						0.12
5						0.12
6						0.12
7						0.12
8						0.12
9						0.12
10						0.12
11						0.12
12						0.13
13						0.13
14						0.13
15						0.13
16						0.13
17						0.13
18						0.13
19						0.13
20						0.13
21						0.13
22						0.13
23						0.13
24						0.13
25						0.14
26						0.14
27						0.14
28						0.14
29						0.14
30						0.14
31						0.14
MTH						3.99
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.15
3						0.15
4						0.15
5						0.15
6						0.15
7						0.15
8						0.15
9						0.15
10						0.15
11						0.15
12						0.15
13						0.15
14						0.15
15						0.15
16						0.15
17						0.15
18						0.15
19						0.16
20						0.16
21						0.16
22						0.15
23						0.15
24						0.15
25						0.15
26						0.15
27						0.15
28						0.15
29						0.15
30						0.15
31						0.15
MTH						4.67
						12.91

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15
2						0.15
3						0.15
4						0.15
5						0.15
6						0.15
7						0.15
8						0.14
9						0.15
10						0.15
11						0.15
12						0.15
13						0.15
14						0.15
15						0.15
16						0.15
17						0.15
18						0.15
19						0.15
20						0.15
21						0.15
22						0.15
23						0.16
24						0.16
25						0.16
26						0.16
27						0.16
28						0.16
MTH						4.25

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.17
2						0.17
3						0.17
4						0.17
5						0.17
6						0.17
7						0.17
8						0.17
9						0.18
10						0.18
11						0.18
12						0.18
13						0.17
14						0.17
15						0.17
16						0.17
17						0.17
18						0.17
19						0.17
20						0.17
21						0.17
22						0.16
23						0.16
24						0.16
25						0.16
26						0.15
27						0.15
28						0.15
29						0.14
30						0.14
31						0.14
MTH						5.12
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.12
4						0.12
5						0.12
6						0.11
7						0.11
8						0.11
9						0.11
10						0.10
11						0.10
12						0.10
13						0.10
14						0.10
15						0.09
16						0.09
17						0.09
18						0.09
19						0.09
20						0.09
21						0.09
22						0.09
23						0.09
24						0.09
25						0.08
26						0.08
27						0.09
28						0.09
29						0.09
30						0.09
MTH						2.98
						11.52

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.09
2						0.09
3						0.09
4						0.09
5						0.09
6						0.09
7						0.09
8						0.10
9						0.10
10						0.10
11						0.10
12						0.10
13						0.10
14						0.10
15						0.11
16						0.11
17						0.11
18						0.11
19						0.11
20						0.12
21						0.12
22						0.12
23						0.12
24						0.12
25						0.13
26						0.13
27						0.13
28						0.13
29						0.14
30						0.14
31						0.14
MTH						3.42

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WHITMIRE 4 NE SOUTH CAROLINA Station Number: 389218

Latitude: 34 B 32 * 00 (Longitude: -081 B 33 * 00 (Elevation (feet): 400

Climate Division: SC 02 Northwest

JUNE							JULY							AUGUST						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14	1						0.16	1						0.12
2						0.15	2						0.15	2						0.12
3						0.15	3						0.15	3						0.12
4						0.15	4						0.15	4						0.12
5						0.15	5						0.15	5						0.12
6						0.16	6						0.15	6						0.12
7						0.16	7						0.14	7						0.13
8						0.16	8						0.14	8						0.13
9						0.16	9						0.14	9						0.13
10						0.16	10						0.14	10						0.13
11						0.16	11						0.14	11						0.13
12						0.16	12						0.14	12						0.13
13						0.17	13						0.14	13						0.13
14						0.17	14						0.14	14						0.13
15						0.17	15						0.13	15						0.13
16						0.17	16						0.13	16						0.13
17						0.17	17						0.13	17						0.13
18						0.17	18						0.13	18						0.13
19						0.17	19						0.13	19						0.13
20						0.17	20						0.13	20						0.13
21						0.17	21						0.13	21						0.13
22						0.17	22						0.13	22						0.13
23						0.17	23						0.13	23						0.13
24						0.16	24						0.13	24						0.14
25						0.16	25						0.13	25						0.14
26						0.16	26						0.13	26						0.14
27						0.16	27						0.13	27						0.14
28						0.16	28						0.13	28						0.14
29						0.16	29						0.12	29						0.14
30						0.16	30						0.12	30						0.14
							31						0.12	31						0.14
MTH						4.85	MTH						4.21	MTH						4.05
						SUMMER SEASON:							13.11							

SEPTEMBER							OCTOBER							NOVEMBER						
Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP	Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15	1						0.14	1						0.11
2						0.15	2						0.14	2						0.11
3						0.15	3						0.13	3						0.11
4						0.15	4						0.13	4						0.11
5						0.15	5						0.13	5						0.11
6						0.15	6						0.13	6						0.11
7						0.15	7						0.13	7						0.12
8						0.15	8						0.13	8						0.12
9						0.15	9						0.13	9						0.12
10						0.15	10						0.12	10						0.12
11						0.15	11						0.12	11						0.12
12						0.15	12						0.12	12						0.12
13						0.15	13						0.12	13						0.12
14						0.16	14						0.12	14						0.12
15						0.15	15						0.12	15						0.12
16						0.15	16						0.12	16						0.12
17						0.15	17						0.12	17						0.12
18						0.15	18						0.12	18						0.12
19						0.15	19						0.12	19						0.12
20						0.15	20						0.12	20						0.12
21						0.15	21						0.12	21						0.12
22						0.15	22						0.12	22						0.12
23						0.15	23						0.12	23						0.12
24						0.15	24						0.12	24						0.12
25						0.15	25						0.11	25						0.12
26						0.15	26						0.11	26						0.12
27						0.15	27						0.11	27						0.12
28						0.14	28						0.11	28						0.12
29						0.14	29						0.11	29						0.12
30						0.14	30						0.11	30						0.12
							31						0.11							
MTH						4.48	MTH						3.76	MTH						3.54
						AUTUMN SEASON:							11.78							
						ANNUAL:							49.32							

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WHITMIRE 4 NE SOUTH CAROLINA Station Number: 389218

Latitude: 34° 32* 00(Longitude: -081° 33* 00(Elevation (feet): 400

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.86	0.50	0.73	0.36	0.52	0.94	0.41	0.58	0.26	0.05	0.60	0.43	32.26
0.010	1.04	0.64	0.91	0.46	0.65	1.13	0.53	0.73	0.36	0.08	0.74	0.55	33.67
0.050	1.68	1.19	1.59	0.85	1.11	1.80	1.05	1.26	0.84	0.32	1.22	1.06	37.75
0.100	2.12	1.59	2.08	1.13	1.43	2.26	1.45	1.65	1.24	0.57	1.55	1.43	40.05
0.200	2.76	2.20	2.80	1.56	1.91	2.91	2.06	2.22	1.90	1.07	2.04	2.01	42.97
0.300	3.29	2.73	3.42	1.93	2.32	3.45	2.61	2.71	2.50	1.59	2.45	2.52	45.16
0.400	3.80	3.25	4.02	2.29	2.71	3.97	3.14	3.19	3.12	2.16	2.84	3.02	47.09
0.500	4.32	3.80	4.64	2.67	3.12	4.50	3.71	3.68	3.79	2.82	3.25	3.54	48.94
0.600	4.88	4.40	5.32	3.09	3.56	5.07	4.34	4.22	4.55	3.60	3.69	4.12	50.84
0.700	5.54	5.11	6.13	3.59	4.08	5.74	5.09	4.85	5.46	4.58	4.21	4.81	52.93
0.800	6.38	6.03	7.16	4.23	4.75	6.59	6.08	5.67	6.67	5.93	4.87	5.71	55.44
0.900	7.67	7.48	8.78	5.23	5.79	7.90	7.63	6.94	8.63	8.20	5.89	7.13	59.06
0.950	8.86	8.83	10.27	6.17	6.75	9.10	9.09	8.12	10.48	10.43	6.83	8.45	62.16
0.990	11.39	11.76	13.49	8.19	8.81	11.65	12.26	10.66	14.59	15.53	8.84	11.32	68.26
0.995	12.41	12.96	14.80	9.02	9.66	12.68	13.57	11.70	16.31	17.71	9.66	12.51	70.59

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

Release Date: December 1, 2001 **National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WOODRUFF 5 NW SOUTH CAROLINA Station Number: 389412

Latitude: 34 B 46 * 35 (Longitude: -082 B 06* 38 (Elevation (feet): 740

Climate Division: SC 02 Northwest

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.12
4						0.12
5						0.11
6						0.12
7						0.12
8						0.12
9						0.12
10						0.12
11						0.12
12						0.12
13						0.12
14						0.12
15						0.12
16						0.12
17						0.12
18						0.12
19						0.12
20						0.12
21						0.12
22						0.13
23						0.13
24						0.13
25						0.13
26						0.13
27						0.13
28						0.14
29						0.14
30						0.14
31						0.14
MTH						3.85
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.15
3						0.15
4						0.15
5						0.15
6						0.15
7						0.15
8						0.16
9						0.16
10						0.16
11						0.16
12						0.16
13						0.16
14						0.16
15						0.16
16						0.16
17						0.16
18						0.16
19						0.16
20						0.16
21						0.16
22						0.16
23						0.16
24						0.16
25						0.16
26						0.16
27						0.16
28						0.16
29						0.15
30						0.15
31						0.15
MTH						4.85
						12.77

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15
2						0.15
3						0.15
4						0.14
5						0.14
6						0.14
7						0.14
8						0.14
9						0.14
10						0.14
11						0.14
12						0.14
13						0.14
14						0.14
15						0.14
16						0.14
17						0.14
18						0.14
19						0.14
20						0.15
21						0.15
22						0.15
23						0.15
24						0.15
25						0.15
26						0.16
27						0.16
28						0.16
MTH						4.07

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.16
2						0.16
3						0.17
4						0.17
5						0.17
6						0.17
7						0.17
8						0.17
9						0.17
10						0.18
11						0.18
12						0.18
13						0.18
14						0.18
15						0.18
16						0.17
17						0.17
18						0.17
19						0.17
20						0.17
21						0.17
22						0.17
23						0.16
24						0.16
25						0.16
26						0.16
27						0.15
28						0.15
29						0.15
30						0.14
31						0.14
MTH						5.15
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.13
3						0.13
4						0.13
5						0.12
6						0.12
7						0.12
8						0.12
9						0.11
10						0.11
11						0.11
12						0.11
13						0.11
14						0.11
15						0.11
16						0.11
17						0.10
18						0.10
19						0.10
20						0.10
21						0.11
22						0.11
23						0.11
24						0.11
25						0.11
26						0.11
27						0.11
28						0.12
29						0.12
30						0.12
MTH						3.42
						12.87

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.13
3						0.13
4						0.13
5						0.13
6						0.13
7						0.14
8						0.14
9						0.14
10						0.14
11						0.14
12						0.14
13						0.14
14						0.14
15						0.15
16						0.15
17						0.15
18						0.15
19						0.15
20						0.15
21						0.14
22						0.14
23						0.14
24						0.14
25						0.14
26						0.14
27						0.14
28						0.14
29						0.13
30						0.13
31						0.13
MTH						4.30

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WOODRUFF 5 NW SOUTH CAROLINA Station Number: 389412

Latitude: 34 B 46 * 35 (Longitude: -082 B 06* 38 (Elevation (feet): 740

Climate Division: SC 02 Northwest

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.12
4						0.12
5						0.12
6						0.12
7						0.12
8						0.11
9						0.11
10						0.11
11						0.11
12						0.11
13						0.11
14						0.11
15						0.11
16						0.11
17						0.11
18						0.11
19						0.11
20						0.11
21						0.11
22						0.11
23						0.11
24						0.11
25						0.11
26						0.11
27						0.11
28						0.11
29						0.11
30						0.11
MTH						3.39
					SUMMER SEASON:	

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.12
4						0.12
5						0.12
6						0.12
7						0.12
8						0.13
9						0.13
10						0.13
11						0.13
12						0.13
13						0.13
14						0.13
15						0.13
16						0.13
17						0.13
18						0.13
19						0.13
20						0.13
21						0.13
22						0.13
23						0.13
24						0.13
25						0.13
26						0.13
27						0.13
28						0.14
29						0.13
30						0.13
31						0.13
MTH						3.97
						11.30

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.13
4						0.13
5						0.13
6						0.13
7						0.13
8						0.13
9						0.13
10						0.13
11						0.13
12						0.13
13						0.13
14						0.13
15						0.13
16						0.13
17						0.13
18						0.13
19						0.13
20						0.13
21						0.13
22						0.13
23						0.12
24						0.12
25						0.12
26						0.12
27						0.12
28						0.12
29						0.12
30						0.12
31						0.12
MTH						3.94

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.12
4						0.12
5						0.11
6						0.11
7						0.11
8						0.11
9						0.11
10						0.11
11						0.11
12						0.11
13						0.11
14						0.11
15						0.11
16						0.11
17						0.11
18						0.11
19						0.11
20						0.11
21						0.11
22						0.11
23						0.11
24						0.11
25						0.11
26						0.11
27						0.12
28						0.12
29						0.12
30						0.12
MTH						3.38
					AUTUMN SEASON:	
					ANNUAL:	

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.12
2						0.12
3						0.12
4						0.12
5						0.12
6						0.12
7						0.12
8						0.12
9						0.12
10						0.12
11						0.12
12						0.12
13						0.12
14						0.12
15						0.12
16						0.12
17						0.12
18						0.12
19						0.13
20						0.13
21						0.13
22						0.13
23						0.13
24						0.13
25						0.13
26						0.13
27						0.13
28						0.13
29						0.13
30						0.13
31						0.13
MTH						3.85
						10.89
						47.83

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.13
4						0.13
5						0.13
6						0.13
7						0.12
8						0.12
9						0.12
10						0.12
11						0.12
12						0.12
13						0.12
14						0.12
15						0.12
16						0.12
17						0.12
18						0.12
19						0.12
20						0.12
21						0.12
22						0.12
23						0.12
24						0.12
25						0.12
26						0.12
27						0.12
28						0.12
29						0.12
30						0.12
MTH						3.66

CLIMATOGRAPHY OF THE UNITED STATES NO. 84, 1971-2000

Daily Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

Station Name: WOODRUFF 5 NW SOUTH CAROLINA Station Number: 389412

Latitude: 34° 46* 35(Longitude: -082° 06* 38(Elevation (feet): 740

Climate Division: SC 02 Northwest

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.63	0.36	0.78	0.29	0.28	0.34	0.41	0.10	0.00	0.00	0.58	0.33	27.41
0.010	0.80	0.48	0.97	0.39	0.39	0.45	0.53	0.16	0.00	0.00	0.72	0.45	29.02
0.050	1.43	0.97	1.66	0.80	0.87	0.87	1.03	0.47	0.30	0.00	1.21	0.91	33.74
0.100	1.90	1.35	2.14	1.12	1.26	1.19	1.40	0.78	0.68	0.50	1.56	1.27	36.46
0.200	2.59	1.95	2.87	1.62	1.89	1.68	1.98	1.33	1.23	1.22	2.07	1.83	39.95
0.300	3.19	2.48	3.48	2.07	2.47	2.12	2.49	1.88	1.72	1.84	2.50	2.33	42.60
0.400	3.77	3.01	4.07	2.51	3.05	2.55	2.99	2.46	2.23	2.46	2.92	2.83	44.96
0.500	4.37	3.56	4.69	2.99	3.68	3.00	3.52	3.11	2.78	3.14	3.35	3.36	47.24
0.600	5.04	4.19	5.36	3.51	4.39	3.50	4.10	3.87	3.41	3.91	3.82	3.96	49.60
0.700	5.83	4.93	6.15	4.14	5.23	4.10	4.80	4.81	4.17	4.81	4.37	4.66	52.21
0.800	6.84	5.90	7.16	4.97	6.36	4.87	5.70	6.08	5.19	6.05	5.07	5.59	55.37
0.900	8.44	7.45	8.74	6.29	8.16	6.10	7.14	8.18	6.85	8.07	6.17	7.07	59.97
0.950	9.91	8.90	10.20	7.52	9.86	7.25	8.47	10.21	8.43	10.00	7.18	8.45	63.95
0.990	13.10	12.06	13.33	10.22	13.62	9.75	11.38	14.80	11.97	14.33	9.34	11.49	71.87
0.995	14.41	13.38	14.60	11.34	15.18	10.78	12.58	16.74	13.45	16.14	10.22	12.74	74.92

PRECIPITATION QUINTILES

Level	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 <	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
	0.13	0.31	0.23	0.05	0.00	0.00	0.73	0.97	0.15	0.30	0.03	0.13
2	0.14	0.32	0.24	0.06	0.01	0.00	0.74	0.98	0.16	0.31	0.04	0.14
	0.42	1.06	0.61	0.28	0.28	0.06	1.58	1.84	0.89	0.58	0.39	0.29
3	0.43	1.07	0.62	0.29	0.29	0.07	1.59	1.85	0.90	0.59	0.40	0.30
	1.19	1.43	1.19	0.47	0.59	0.15	2.07	2.43	1.68	1.01	0.64	0.72
4	1.20	1.44	1.20	0.48	0.60	0.16	2.08	2.44	1.69	1.02	0.65	0.73
	1.71	2.19	2.05	0.88	0.86	0.80	3.11	3.35	2.53	1.38	1.85	1.79
5	1.72	2.20	2.06	0.89	0.87	0.81	3.12	3.36	2.54	1.39	1.86	1.80
	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19
6 >	4.82	4.27	4.22	2.29	2.25	2.62	6.49	7.90	8.60	7.10	3.81	3.19

Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
MIN = Minimum Temperature (degrees Fahrenheit)
AVG = Average Temperature (degrees Fahrenheit)

NOTES

HDD = Heating Degree Days (base 65)
CDD = Cooling Degree Days (base 65)
PRCP = Precipitation Amount (inches)

MTH = Monthly Means / Totals
SEASON = Seasonal Means / Totals
ANNUAL = Annual Means / Totals

This publication presents daily temperature, precipitation, and heating and cooling degree day normals for stations based on the 1971-2000 record *adjusted* to the present station location. Stations contained in the monthly normals (Climatography of the United States No. 81) are included. Precipitation-only stations have no data in the temperature and degree day fields on Pages 1 and 2. Latitude and longitude values are presented in DD MM SS, where DD=Degrees, MM=Minutes, and SS=Seconds. Small differences between monthly values in this publication and the monthly normals presented in Climatography of the United States No.81 are attributable to smoothing techniques applied to this data set, as described below.

Daily Normals Tables:

The daily values presented in these tables are not simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function. The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, …, December, January, …, December, January, …, June), so that the interpolating function could adequately fit the end points in the annual series. This process was applied independently to all six elements. No normal values for February 29 are included; in common practice, the normal values for the 28th are used for the 29th in each leap year. Thus, for leap years, the February monthly total degree days or precipitation are calculated by adding the daily value for the 28th to the monthly total. February temperature averages are likewise not adjusted for leap years. For most stations, the monthly heating and cooling degree day normals (base 65 degrees Fahrenheit) are derived from monthly normal temperature using an estimation technique developed by H.C.S. Thom. An asterisk (*) for a daily degree day value indicates a daily normal of less than one degree day, but not equal to zero. Seasonal means / totals correspond to the three months listed immediately above.

Precipitation Probabilities and Quintiles Tables:

The precipitation probabilities are the monthly precipitation totals that correspond to the indicated probability levels. The probability levels are based on the 1971-2000 historical sequential monthly precipitation. The historical precipitation data are the adjusted values from the monthly normals (Climatography of the United States No. 81).

When historical climate data are accumulated and examined, they generally follow a certain pattern called a statistical distribution. While temperature usually follows a Gaussian or bell-shaped distribution, precipitation does not because it is zero-bounded. Precipitation generally follows a Gamma distribution, where most values are near zero with rapidly diminishing higher values. Thus, the Gamma distribution was used to estimate the precipitation values in the probability and quintile tables published above. The probability table shows the amount of precipitation expected at fifteen probability levels (0.005, 0.01, 0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 0.95, 0.99, and 0.995) for each month of the year and for the annual total. For example, if 1.77 inches corresponds to the 0.20 probability level, that means that on average, 2 out of 10 years will have 1.77 inches *or less* of precipitation in that month. It also means that, on average, 8 out of 10 years will have *more than* 1.77 inches of precipitation in that month.

The precipitation quintiles show the expected precipitation values at the five quintile levels for each of the twelve months: 1. First Quintile (0-20%); 2. Second Quintile (20-40%); 3. Third Quintile (40-60%); 4. Fourth Quintile (60-80%); 5. Fifth Quintile (80-100%). For example, if 2.91 and 4.07 inches are the bounds for the second quintile (level 2), then a monthly total precipitation amount for that month falling in the range 2.91 to 4.07 would be classified as a second quintile precipitation amount and that month would be considered relatively dry. The first line (level 0 <) in the table shows the minimum precipitation value derived from the historical record. Quintile level 0 would be used if a future precipitation observation is less than the 1971-2000 value. Level 6 > would be used if the observed value is more than the 1971-2000 maximum.

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