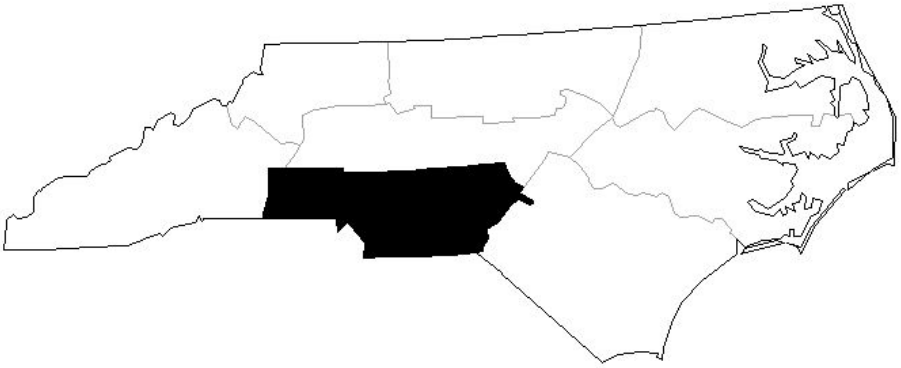
CLIMATOGRAPHY OF THE UNITED STATES NO. 84

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



Division 05 Southern Piedmont

31
NORTH 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: ALBEMARLE NORTH CAROLINA Station Number: 310090

Latitude: 35° 23* 57 (Longitude: -080° 11* 58 (Elevation (feet): 610

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	34	46	20	1	0.10
2	57	34	45	20	0	0.10
3	57	33	45	20	*	0.10
4	57	33	45	21	*	0.10
5	57	32	44	21	*	0.10
6	57	32	44	21	*	0.10
7	56	32	44	21	*	0.10
8	55	31	43	22	*	0.10
9	55	31	43	22	0	0.10
10	55	31	43	22	0	0.10
11	54	31	43	22	0	0.10
12	54	30	42	23	0	0.10
13	54	30	42	23	0	0.10
14	54	30	42	23	0	0.10
15	53	30	42	23	0	0.10
16	53	30	42	23	0	0.10
17	52	30	41	24	0	0.10
18	52	30	41	24	0	0.10
19	52	30	41	24	0	0.11
20	52	30	41	24	0	0.11
21	52	29	41	24	0	0.11
22	52	29	41	24	0	0.11
23	51	29	40	25	0	0.11
24	51	29	40	25	0	0.11
25	51	29	40	25	0	0.11
26	51	29	40	25	0	0.12
27	51	29	40	25	0	0.12
28	51	29	40	25	0	0.12
29	51	29	40	25	0	0.12
30	51	28	40	25	0	0.12
31	51	28	40	25	0	0.13
MTH	53.5	30.4	42.0	716	2	3.30

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	51	28	40	25	0	0.13
2	51	28	39	26	0	0.13
3	50	28	39	26	0	0.13
4	50	28	39	26	0	0.13
5	50	28	39	26	0	0.13
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	28	39	26	0	0.14
11	50	28	39	26	0	0.14
12	50	28	39	26	0	0.14
13	50	28	39	26	0	0.14
14	50	28	39	26	0	0.15
15	50	28	39	26	0	0.15
16	50	28	39	26	0	0.15
17	50	28	39	26	0	0.15
18	50	28	39	26	0	0.15
19	50	28	39	26	0	0.15
20	50	27	39	26	0	0.15
21	50	27	39	26	0	0.15
22	51	27	39	26	0	0.15
23	51	27	39	26	0	0.14
24	51	27	39	26	0	0.14
25	51	27	39	26	0	0.14
26	51	27	39	26	0	0.14
27	51	28	40	25	0	0.14
28	51	28	40	25	0	0.14
29	51	28	40	25	0	0.14
30	52	28	40	25	0	0.14
31	52	28	40	25	0	0.13
MTH	50.5	27.8	39.2	800	0	4.37
WINTER SEASON:	52.9	29.2	41.1	2154	2	11.31

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	28	40	25	0	0.13
2	52	28	40	25	0	0.13
3	52	28	40	25	0	0.13
4	53	28	40	25	0	0.13
5	53	28	40	25	0	0.13
6	53	28	41	24	0	0.13
7	53	29	41	24	0	0.13
8	53	29	41	24	0	0.13
9	53	29	41	24	0	0.12
10	53	29	41	24	0	0.12
11	53	29	41	24	0	0.12
12	54	29	42	23	0	0.12
13	54	29	42	23	0	0.12
14	54	29	42	23	0	0.12
15	55	29	42	23	0	0.13
16	55	29	42	23	0	0.13
17	55	30	43	22	0	0.13
18	55	30	43	22	0	0.13
19	56	30	43	22	0	0.13
20	56	30	43	22	0	0.13
21	56	30	43	22	0	0.13
22	56	31	44	21	0	0.13
23	57	31	44	21	0	0.13
24	57	31	44	21	0	0.14
25	57	31	44	21	0	0.14
26	58	32	45	20	0	0.14
27	58	32	45	20	0	0.14
28	58	32	45	20	0	0.15
MTH	54.7	29.6	42.2	638	0	3.64

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	33	46	19	0	0.15
2	59	33	46	19	0	0.15
3	60	33	46	19	0	0.15
4	60	34	47	18	0	0.16
5	60	34	47	18	0	0.16
6	60	34	47	18	*	0.16
7	60	34	47	18	*	0.16
8	61	35	48	17	*	0.16
9	61	35	48	17	*	0.16
10	61	36	49	17	*	0.16
11	61	36	49	16	*	0.16
12	62	36	49	16	*	0.16
13	62	36	49	16	*	0.16
14	62	36	49	16	*	0.16
15	63	37	50	15	0	0.16
16	63	37	50	15	0	0.16
17	63	37	50	15	0	0.16
18	63	37	50	15	0	0.16
19	64	38	51	14	0	0.16
20	64	38	51	14	0	0.16
21	64	38	51	14	0	0.16
22	64	38	51	14	0	0.16
23	65	38	52	13	0	0.16
24	65	39	52	13	0	0.16
25	65	39	52	13	0	0.15
26	65	39	52	13	0	0.15
27	66	39	53	12	0	0.15
28	66	39	53	12	0	0.15
29	67	39	53	12	0	0.14
30	67	39	53	12	0	0.14
31	67	40	54	11	0	0.14
MTH	62.9	36.7	49.8	471	1	4.83
SPRING SEASON:	71.0	45.0	58.1	760	121	12.40

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	41	54	11	0	0.13
2	68	41	54	11	*	0.13
3	69	41	55	11	*	0.13
4	69	41	55	10	*	0.12
5	69	41	55	10	*	0.12
6	69	41	55	10	*	0.12
7	69	41	55	10	*	0.12
8	70	42	56	9	0	0.11
9	70	42	56	9	0	0.11
10	70	42	56	9	0	0.11
11	70	43	57	8	0	0.11
12	71	43	57	8	0	0.11
13	71	43	57	8	0	0.11
14	71	43	57	8	0	0.11
15	72	44	58	7	0	0.10
16	72	44	58	7	0	0.10
17	72	44	58	7	0	0.10
18	72	44	58	7	0	0.10
19	72	44	58	7	0	0.10
20	72	44	58	7	0	0.10
21	73	45	59	7	1	0.10
22	73	46	60	6	1	0.10
23	74	46	60	6	1	0.11
24	74	46	60	6	1	0.11
25	74	46	60	6	1	0.11
26	74	47	61	5	1	0.11
27	74	47	61	5	1	0.11
28	75	47	61	5	1	0.11
29	75	48	62	4	1	0.11
30	75	49	62	4	1	0.12
MTH	71.6	43.9	57.8	228	11	3.33

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	75	50	62	4	1	0.12
2	75	51	63	4	2	0.12
3	76	51	63	4	2	0.12
4	76	51	63	4	2	0.12
5	76	51	63	4	2	0.13
6	76	51	64	3	2	0.13
7	77	52	64	3	2	0.13
8	77	52	64	3	2	0.13
9	77	52	65	2	2	0.13
10	78	53	66	2	3	0.13
11	78	53	66	2	3	0.14
12	78	53	66	2	3	0.14
13	78	53	66	2	3	0.14
14	78	54	66	2	3	0.14
15	78	54	66	2	3	0.14
16	78	54	66	2	3	0.14
17	78	54	66	2	3	0.14
18	79	55	67	2	4	0.14
19	79	56	68	1	4	0.14
20	80	56	68	1	4	0.14
21	80	56	68	1	4	0.14
22	80	56	68	1	4	0.14
23	80	56	68	1	4	0.15
24	81	57	69	1	5	0.15
25	81	57	69	1	5	0.15
26	81	57	69	1	5	0.15
27	81	57	69	1	5	0.14
28	81	58	70	1	6	0.14
29	82	58	70	1	6	0.14
30	82	58	70	1	6	0.14
31	82	59	71	0	6	0.14
MTH	78.7	54.4	66.6	61	109	4.24

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Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	83	59	71	0	6	0.14
2	83	59	71	*	7	0.14
3	83	60	71	*	7	0.14
4	83	60	72	*	7	0.14
5	83	61	72	*	7	0.14
6	84	61	72	*	7	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	86	63	75	0	10	0.14
18	86	64	75	0	10	0.15
19	86	64	75	0	10	0.15
20	86	64	75	0	10	0.15
21	86	64	75	0	10	0.15
22	87	65	76	0	11	0.15
23	87	65	76	0	11	0.15
24	87	65	76	0	11	0.15
25	87	65	76	0	11	0.15
26	87	65	76	0	11	0.16
27	87	65	76	0	11	0.16
28	88	66	77	0	12	0.16
29	88	66	77	0	12	0.16
30	88	66	77	0	12	0.16
MTH	85.4	63.0	74.2	2	279	4.38

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	67	77	0	12	0.16
2	88	67	77	0	12	0.17
3	88	67	77	0	12	0.17
4	88	67	77	0	12	0.17
5	89	67	78	0	13	0.17
6	89	67	78	0	13	0.17
7	89	67	78	0	13	0.17
8	89	67	78	0	13	0.17
9	89	67	78	0	13	0.17
10	89	67	78	0	13	0.17
11	89	67	78	0	13	0.17
12	89	67	78	0	13	0.18
13	89	67	78	0	13	0.18
14	89	67	78	0	13	0.18
15	89	67	78	0	13	0.18
16	89	67	78	0	13	0.17
17	89	67	78	0	13	0.17
18	89	68	79	0	14	0.17
19	89	68	79	0	14	0.17
20	89	68	79	0	14	0.17
21	89	68	79	0	14	0.17
22	89	68	79	0	14	0.17
23	89	68	79	0	14	0.17
24	89	68	79	0	14	0.17
25	89	68	79	0	14	0.17
26	89	68	79	0	14	0.16
27	89	68	79	0	14	0.16
28	89	68	78	0	13	0.16
29	89	68	78	0	13	0.16
30	89	68	78	0	13	0.16
31	89	68	78	0	13	0.15
MTH	88.9	67.5	78.2	0	409	5.23
SUMMER SEASON:	87.2	65.5	76.4	2	1049	13.74

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	68	78	0	13	0.15
2	89	68	78	0	13	0.15
3	89	68	78	0	13	0.14
4	89	68	78	0	13	0.14
5	89	68	78	0	13	0.14
6	89	68	78	0	13	0.14
7	88	68	78	0	13	0.13
8	88	68	78	0	13	0.13
9	88	67	78	0	13	0.13
10	88	67	78	0	13	0.13
11	88	67	78	0	13	0.13
12	88	66	77	0	12	0.13
13	88	66	77	0	12	0.13
14	88	66	77	0	12	0.13
15	88	66	77	0	12	0.13
16	87	66	77	0	12	0.13
17	87	66	77	0	12	0.13
18	87	66	77	0	12	0.13
19	87	65	76	0	11	0.13
20	87	65	76	0	11	0.13
21	87	65	76	0	11	0.13
22	87	65	76	0	11	0.13
23	86	65	76	0	11	0.13
24	86	65	76	0	11	0.13
25	86	64	75	0	10	0.13
26	86	64	75	0	10	0.13
27	86	64	75	0	10	0.13
28	86	64	75	0	10	0.13
29	85	64	75	0	10	0.13
30	85	64	74	0	9	0.14
31	85	64	74	0	9	0.14
MTH	87.3	66.0	76.7	0	361	4.13

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	84	64	74	0	9	0.15
4	84	63	73	0	8	0.15
5	84	63	73	0	8	0.15
6	84	63	73	0	8	0.15
7	84	63	73	0	8	0.15
8	83	62	72	0	7	0.15
9	83	62	72	0	7	0.15
10	83	62	72	0	7	0.15
11	83	61	72	0	7	0.15
12	82	61	72	0	7	0.15
13	82	60	71	0	6	0.15
14	82	60	71	0	6	0.16
15	82	60	71	0	6	0.15
16	81	60	71	0	6	0.15
17	81	60	71	0	6	0.15
18	81	59	70	0	5	0.15
19	81	58	70	0	5	0.15
20	80	58	69	1	5	0.15
21	80	58	69	1	5	0.15
22	80	57	69	1	5	0.15
23	80	56	68	1	4	0.15
24	79	56	68	1	4	0.15
25	79	55	67	2	4	0.15
26	79	55	67	2	4	0.15
27	78	55	67	2	4	0.14
28	78	54	66	2	3	0.14
29	78	54	66	2	3	0.14
30	77	54	66	2	3	0.14
MTH	81.4	59.4	70.4	17	178	4.45

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	53	65	3	3	0.13
2	77	53	65	3	3	0.13
3	76	53	64	3	2	0.13
4	76	51	63	3	1	0.13
5	76	51	63	4	2	0.12
6	75	51	63	4	2	0.12
7	75	50	63	4	2	0.12
8	75	49	62	5	2	0.12
9	74	49	62	5	2	0.12
10	74	49	62	5	2	0.12
11	74	48	61	5	1	0.12
12	74	48	61	5	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	72	46	59	7	1	0.11
17	72	46	59	7	1	0.11
18	72	46	59	7	1	0.11
19	71	45	58	8	1	0.11
20	71	45	58	8	1	0.11
21	71	45	58	8	1	0.11
22	70	45	58	8	1	0.11
23	70	44	57	8	0	0.11
24	70	43	57	8	0	0.11
25	69	43	56	9	0	0.11
26	69	43	56	9	0	0.11
27	69	43	56	9	0	0.11
28	68	42	55	10	0	0.11
29	68	42	55	10	0	0.11
30	68	42	55	10	0	0.11
31	68	41	55	10	0	0.11
MTH	72.3	46.7	59.5	203	33	3.56
AUTUMN SEASON:	72.1	47.8	60.0	670	212	11.31
ANNUAL:	70.8	46.9	58.9	3586	1384	48.76

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	41	55	11	1	0.11
2	68	41	54	11	0	0.11
3	67	41	54	11	0	0.11
4	66	41	53	12	0	0.11
5	66	41	53	12	0	0.11
6	66	41	53	12	0	0.11
7	65	41	53	12	0	0.11
8	65	40	52	13	0	0.11
9	65	39	52	13	0	0.11
10	64	39	52	13	0	0.11
11	64	38	51	14	0	0.11
12	64	38	51	14	0	0.11
13	63	38	51	14	0	0.11
14	63	37	50	15	0	0.11
15	63	37	50	15	0	0.11
16	63	37	50	15	0	0.11
17	62	37	50	15	0	0.11
18	62	36	49	16	0	0.11
19	62	36	49	16	0	0.11
20	61	36	49	16	0	0.11
21	61	35	48	17	0	0.11
22	61	35	48	17	0	0.11
23	60	35	48	17	0	0.11
24	59	35	47	18	0	0.11
25	59	35	47	18	0	0.11
26	59	35	47	18	0	0.11
27	59	34	47	18	0	0.11
28	58	34	46	19	0	0.11
29	58	34	46	19	0	0.11
30	58	34	46	19	0	0.11
MTH	62.6	37.4	50.0	450	1	3.30

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PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.57	0.46	0.67	0.26	0.57	0.15	0.27	0.41	0.11	0.00	0.33	0.38	31.27
0.010	0.73	0.58	0.84	0.35	0.72	0.23	0.39	0.54	0.17	0.00	0.43	0.49	32.71
0.050	1.30	1.06	1.48	0.74	1.27	0.63	0.92	1.05	0.53	0.26	0.84	0.91	36.86
0.100	1.71	1.40	1.94	1.05	1.68	1.00	1.39	1.44	0.87	0.64	1.15	1.23	39.22
0.200	2.33	1.92	2.62	1.54	2.28	1.63	2.15	2.04	1.50	1.21	1.63	1.70	42.21
0.300	2.87	2.37	3.21	1.98	2.80	2.24	2.87	2.57	2.12	1.73	2.05	2.11	44.45
0.400	3.39	2.81	3.78	2.42	3.30	2.87	3.60	3.09	2.78	2.28	2.47	2.52	46.44
0.500	3.94	3.27	4.37	2.88	3.83	3.57	4.39	3.64	3.51	2.88	2.91	2.94	48.34
0.600	4.53	3.78	5.02	3.41	4.41	4.37	5.29	4.26	4.37	3.56	3.40	3.41	50.30
0.700	5.24	4.38	5.78	4.04	5.09	5.36	6.38	4.99	5.43	4.40	3.99	3.97	52.45
0.800	6.15	5.15	6.77	4.86	5.97	6.68	7.84	5.94	6.87	5.53	4.75	4.69	55.05
0.900	7.57	6.36	8.31	6.18	7.34	8.84	10.19	7.45	9.25	7.37	5.95	5.82	58.79
0.950	8.90	7.49	9.74	7.42	8.61	10.93	12.43	8.85	11.56	9.15	7.08	6.88	61.99
0.990	11.75	9.92	12.81	10.13	11.36	15.59	17.40	11.92	16.77	13.13	9.54	9.16	68.32
0.995	12.92	10.91	14.07	11.26	12.49	17.55	19.49	13.18	18.98	14.80	10.55	10.10	70.74

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: CARTHAGE WATER TR PLT NORTH CAROLINA Station Number: 311515

Latitude: 35° 19* 53 (Longitude: -079° 24* 28 (Elevation (feet): 440

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
3						0.10
4						0.10
5						0.10
6						0.10
7						0.10
8						0.10
9						0.10
10						0.10
11						0.10
12						0.10
13						0.10
14						0.10
15						0.10
16						0.10
17						0.10
18						0.11
19						0.11
20						0.11
21						0.11
22						0.11
23						0.11
24						0.11
25						0.12
26						0.12
27						0.12
28						0.12
29						0.12
30						0.13
31						0.13
MTH						3.35
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.14
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						0.15
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						0.15
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						4.51
						11.40

FEBRUARY

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						0.13
21						0.13
22						0.13
23						0.13
24						0.13
25						0.13
26						0.14
27						0.14
28						0.14
MTH						3.54

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.15
3						0.15
4						0.15
5						0.15
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						0.15
24						0.15
25						0.15
26						0.15
27						0.14
28						0.14
29						0.14
30						0.13
31						0.13
MTH						4.74
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.12
3						0.12
4						0.12
5						0.11
6						0.11
7						0.11
8						0.10
9						0.10
10						0.10
11						0.10
12						0.10
13						0.10
14						0.09
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						0.10
24						0.10
25						0.10
26						0.10
27						0.10
28						0.10
29						0.10
30						0.11
MTH						3.04
						11.84

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
3						0.11
4						0.12
5						0.12
6						0.12
7						0.12
8						0.12
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						0.14
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						0.14
29						0.14
30						0.14
31						0.14
MTH						4.06

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

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

Station Name: CARTHAGE WATER TR PLT NORTH CAROLINA Station Number: 311515

Latitude: 35B 19* 53 (Longitude: -079B 24* 28 (Elevation (feet): 440

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.14
3						0.14
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						0.14
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
29						0.15
30						0.16
MTH						4.17
					SUMMER SEASON:	

JULY

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						0.18
16						0.18
17						0.18
18						0.18
19						0.18
20						0.18
21						0.17
22						0.17
23						0.17
24						0.17
25						0.17
26						0.17
27						0.17
28						0.17
29						0.17
30						0.16
31						0.16
MTH						5.27
						13.99

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.16
2						0.16
3						0.16
4						0.16
5						0.16
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						0.14
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						0.14
29						0.14
30						0.14
31						0.15
MTH						4.55

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.14
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						0.14
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
MTH						4.31
					AUTUMN SEASON:	
					ANNUAL:	

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
2						0.13
3						0.13
4						0.13
5						0.13
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						0.11
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
31						0.12
MTH						3.62
						11.37
						48.60

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
3						0.11
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						0.11
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						3.44

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

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

Station Name: CARTHAGE WATER TR PLT NORTH CAROLINA Station Number: 311515

Latitude: 35° 19* 53(Longitude: -079° 24* 28(Elevation (feet): 440

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	1.04	0.51	1.07	0.19	0.52	0.24	0.29	0.66	0.09	0.00	0.26	0.48	31.43
0.010	1.23	0.64	1.26	0.26	0.66	0.34	0.41	0.83	0.15	0.00	0.35	0.60	32.84
0.050	1.85	1.11	1.92	0.59	1.19	0.78	0.97	1.44	0.47	0.35	0.75	1.05	36.93
0.100	2.26	1.45	2.35	0.87	1.57	1.15	1.43	1.87	0.79	0.77	1.06	1.37	39.25
0.200	2.85	1.95	2.97	1.31	2.15	1.76	2.21	2.51	1.39	1.37	1.57	1.84	42.18
0.300	3.33	2.37	3.47	1.72	2.65	2.33	2.92	3.06	1.99	1.89	2.02	2.24	44.38
0.400	3.78	2.78	3.95	2.14	3.14	2.90	3.65	3.59	2.64	2.43	2.48	2.63	46.33
0.500	4.23	3.21	4.44	2.59	3.65	3.52	4.44	4.14	3.36	3.01	2.97	3.04	48.20
0.600	4.73	3.68	4.96	3.10	4.21	4.23	5.34	4.74	4.21	3.67	3.52	3.48	50.11
0.700	5.29	4.23	5.57	3.71	4.88	5.08	6.42	5.44	5.27	4.47	4.17	4.00	52.22
0.800	6.01	4.94	6.34	4.52	5.73	6.21	7.86	6.35	6.71	5.53	5.04	4.68	54.76
0.900	7.11	6.04	7.51	5.82	7.07	8.02	10.18	7.77	9.09	7.25	6.42	5.73	58.41
0.950	8.11	7.06	8.58	7.05	8.32	9.75	12.39	9.08	11.42	8.89	7.73	6.70	61.55
0.990	10.21	9.26	10.83	9.78	11.01	13.58	17.29	11.90	16.68	12.53	10.59	8.78	67.72
0.995	11.06	10.16	11.74	10.92	12.11	15.18	19.33	13.05	18.91	14.05	11.78	9.63	70.09

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
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Abbreviations:

MAX = Maximum Temperature (degrees Fahrenheit)
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Daily Normals Tables:

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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: CASAR NORTH CAROLINA Station Number: 311538

Latitude: 35 B 30 * 03 (Longitude: -081 B 38 * 22 (Elevation (feet): 1120

Climate Division: NC 05 Southern Piedmont

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						0.12
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						3.77
					WINTER SEASON:	

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.13
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						0.15
21						0.15
22						0.15
23						0.14
24						0.14
25						0.14
26						0.14
27						0.14
28						0.14
29						0.14
30						0.14
31						0.14
MTH						4.36
						12.12

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						0.14
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						0.15
23						0.15
24						0.15
25						0.15
26						0.15
27						0.15
28						0.15
MTH						3.99

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.15
2						0.16
3						0.16
4						0.16
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						0.15
25						0.15
26						0.15
27						0.15
28						0.15
29						0.15
30						0.14
31						0.14
MTH						4.85
					SPRING SEASON:	

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.14
3						0.13
4						0.13
5						0.13
6						0.13
7						0.13
8						0.13
9						0.13
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						0.13
26						0.13
27						0.13
28						0.13
29						0.13
30						0.13
MTH						3.77
						13.28

MAY

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						0.15
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						0.16
23						0.16
24						0.16
25						0.16
26						0.15
27						0.15
28						0.15
29						0.15
30						0.15
31						0.15
MTH						4.66

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

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

Station Name: CASAR NORTH CAROLINA Station Number: 311538

Latitude: 35 B 30 * 03 (Longitude: -081 B 38 * 22 (Elevation (feet): 1120

Climate Division: NC 05 Southern Piedmont

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						0.15	1						0.13	1						0.15
2						0.15	2						0.13	2						0.15
3						0.15	3						0.13	3						0.15
4						0.15	4						0.13	4						0.15
5						0.15	5						0.13	5						0.15
6						0.15	6						0.13	6						0.15
7						0.15	7						0.13	7						0.15
8						0.14	8						0.13	8						0.15
9						0.14	9						0.13	9						0.15
10						0.14	10						0.14	10						0.15
11						0.14	11						0.14	11						0.15
12						0.14	12						0.14	12						0.15
13						0.14	13						0.14	13						0.15
14						0.14	14						0.14	14						0.15
15						0.14	15						0.14	15						0.15
16						0.14	16						0.14	16						0.15
17						0.14	17						0.14	17						0.15
18						0.14	18						0.14	18						0.15
19						0.14	19						0.14	19						0.15
20						0.14	20						0.14	20						0.15
21						0.14	21						0.14	21						0.15
22						0.14	22						0.14	22						0.15
23						0.14	23						0.14	23						0.15
24						0.14	24						0.14	24						0.15
25						0.14	25						0.14	25						0.15
26						0.14	26						0.14	26						0.15
27						0.13	27						0.14	27						0.15
28						0.13	28						0.14	28						0.14
29						0.13	29						0.15	29						0.14
30						0.13	30						0.15	30						0.14
							31						0.15	31						0.14
MTH						4.23	MTH						4.28	MTH						4.61
						SUMMER SEASON:							13.12							

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						0.13	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						0.13	5						0.13
6						0.13	6						0.13	6						0.13
7						0.13	7						0.13	7						0.13
8						0.13	8						0.13	8						0.13
9						0.13	9						0.13	9						0.12
10						0.13	10						0.13	10						0.12
11						0.12	11						0.13	11						0.12
12						0.12	12						0.13	12						0.12
13						0.12	13						0.13	13						0.12
14						0.12	14						0.13	14						0.12
15						0.12	15						0.14	15						0.12
16						0.12	16						0.14	16						0.12
17						0.12	17						0.14	17						0.12
18						0.12	18						0.14	18						0.12
19						0.12	19						0.14	19						0.12
20						0.12	20						0.14	20						0.12
21						0.12	21						0.14	21						0.12
22						0.12	22						0.14	22						0.12
23						0.12	23						0.14	23						0.12
24						0.12	24						0.13	24						0.12
25						0.12	25						0.13	25						0.12
26						0.12	26						0.13	26						0.12
27						0.12	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						3.74	MTH						4.12	MTH						3.68
						AUTUMN SEASON:							11.54							
						ANNUAL:							50.06							

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

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

Station Name: CASAR NORTH CAROLINA Station Number: 311538

Latitude: 35B 30* 03(Longitude: -081B 38* 22(Elevation (feet): 1120

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.70	0.39	0.75	0.24	0.42	0.42	0.45	0.47	0.04	0.03	0.60	0.59	27.89
0.010	0.86	0.52	0.93	0.33	0.56	0.55	0.58	0.61	0.07	0.05	0.74	0.72	29.61
0.050	1.45	1.01	1.58	0.74	1.13	1.07	1.12	1.18	0.28	0.25	1.24	1.23	34.70
0.100	1.86	1.38	2.04	1.08	1.56	1.47	1.52	1.62	0.52	0.49	1.59	1.59	37.64
0.200	2.47	1.97	2.71	1.64	2.24	2.09	2.15	2.29	1.00	1.00	2.09	2.12	41.43
0.300	2.98	2.48	3.29	2.14	2.85	2.63	2.69	2.88	1.51	1.56	2.53	2.56	44.31
0.400	3.48	2.99	3.85	2.66	3.45	3.17	3.23	3.46	2.08	2.19	2.94	2.99	46.88
0.500	3.99	3.52	4.42	3.21	4.09	3.73	3.80	4.08	2.74	2.93	3.37	3.44	49.37
0.600	4.55	4.12	5.05	3.83	4.80	4.36	4.42	4.76	3.53	3.83	3.84	3.93	51.95
0.700	5.20	4.82	5.79	4.59	5.65	5.11	5.17	5.57	4.54	4.98	4.38	4.50	54.81
0.800	6.04	5.75	6.73	5.58	6.76	6.09	6.14	6.63	5.93	6.59	5.08	5.23	58.28
0.900	7.34	7.21	8.20	7.18	8.52	7.63	7.67	8.30	8.27	9.33	6.17	6.37	63.32
0.950	8.54	8.58	9.56	8.70	10.17	9.08	9.11	9.87	10.58	12.05	7.16	7.42	67.70
0.990	11.10	11.56	12.47	12.05	13.77	12.23	12.22	13.27	15.89	18.33	9.30	9.68	76.44
0.995	12.15	12.78	13.66	13.45	15.27	13.52	13.50	14.67	18.17	21.03	10.17	10.60	79.81

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: CHARLOTTE DGLAS INTL AP NORTH CAROLINA Station Number: 311690

Latitude: 35 B 13 * 21 (Longitude: -080 B 57 * 15 (Elevation (feet): 728

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	38	48	18	1	0.10
2	57	38	48	18	1	0.10
3	57	38	47	18	0	0.10
4	57	38	47	18	0	0.10
5	57	38	47	18	0	0.10
6	56	37	47	18	0	0.10
7	56	37	46	19	0	0.10
8	56	37	46	19	0	0.10
9	55	36	46	19	0	0.10
10	55	36	46	19	0	0.10
11	55	36	46	19	0	0.10
12	55	36	45	20	0	0.10
13	54	35	45	20	0	0.10
14	54	35	45	20	0	0.10
15	54	35	45	20	0	0.10
16	54	35	45	20	0	0.10
17	53	35	44	21	0	0.10
18	53	34	44	21	0	0.10
19	53	34	43	22	0	0.10
20	53	34	43	22	0	0.10
21	53	34	43	22	0	0.10
22	52	33	42	23	0	0.10
23	52	33	42	23	0	0.10
24	52	33	42	23	0	0.11
25	52	33	42	23	0	0.11
26	52	33	42	23	0	0.11
27	52	32	42	23	0	0.11
28	52	32	42	23	0	0.11
29	52	32	42	23	0	0.11
30	51	32	42	23	0	0.11
31	51	32	41	24	0	0.11
MTH	54.0	34.9	44.4	642	2	3.18

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	51	32	41	24	0	0.12
2	51	32	41	24	0	0.12
3	51	32	41	24	0	0.12
4	51	32	41	24	0	0.12
5	51	32	41	24	0	0.12
6	51	32	41	24	0	0.13
7	51	32	41	24	0	0.13
8	51	32	41	24	0	0.13
9	51	32	41	24	0	0.13
10	51	32	41	24	0	0.13
11	51	32	41	24	0	0.13
12	51	32	42	23	0	0.13
13	51	32	42	23	0	0.13
14	51	32	42	23	0	0.13
15	51	32	42	23	0	0.13
16	51	32	42	23	0	0.13
17	51	32	42	23	0	0.13
18	51	32	42	23	0	0.13
19	51	32	42	23	0	0.13
20	51	32	42	23	0	0.14
21	51	32	42	23	0	0.14
22	51	32	42	23	0	0.13
23	51	32	42	23	0	0.13
24	52	32	42	23	0	0.13
25	52	32	42	23	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	33	42	23	0	0.13
30	52	33	42	23	0	0.13
31	52	33	42	23	0	0.13
MTH	51.3	32.1	41.7	724	0	4.00

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	53	33	43	22	0	0.13
2	54	33	43	22	0	0.13
3	54	33	44	21	0	0.13
4	54	33	44	21	0	0.13
5	54	33	44	21	0	0.12
6	54	33	44	21	0	0.12
7	54	33	44	21	0	0.12
8	54	33	44	21	0	0.12
9	55	34	44	21	0	0.12
10	55	34	44	21	0	0.12
11	55	34	44	21	0	0.12
12	55	34	44	21	0	0.12
13	55	34	45	20	*	0.12
14	56	34	45	20	*	0.12
15	56	34	45	20	*	0.12
16	56	34	45	20	*	0.12
17	56	35	46	20	*	0.13
18	57	35	46	19	*	0.13
19	57	35	46	19	*	0.13
20	57	35	46	19	*	0.13
21	57	35	46	19	*	0.13
22	57	35	46	19	0	0.13
23	58	36	47	18	0	0.13
24	58	36	47	18	0	0.13
25	58	36	47	18	0	0.13
26	58	36	47	18	0	0.14
27	58	36	47	18	0	0.14
28	59	37	48	18	1	0.14
MTH	55.9	34.4	45.2	557	2	3.55

WINTER SEASON: 53.7 33.8 43.7 1923 4 10.73

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	37	49	16	0	0.14
2	61	38	50	15	0	0.14
3	61	38	50	15	0	0.14
4	62	39	50	15	0	0.14
5	62	39	50	15	0	0.14
6	62	39	50	15	0	0.15
7	62	39	50	15	0	0.15
8	62	39	50	15	0	0.15
9	62	41	51	14	0	0.15
10	62	41	51	14	0	0.15
11	62	41	51	14	0	0.15
12	63	41	52	13	0	0.15
13	63	41	52	13	0	0.15
14	63	41	52	13	0	0.15
15	63	41	52	13	0	0.15
16	64	42	53	12	0	0.15
17	64	42	53	12	0	0.15
18	64	42	53	12	0	0.15
19	65	42	54	11	0	0.14
20	65	43	54	11	0	0.14
21	65	43	54	11	0	0.14
22	65	43	54	11	0	0.14
23	65	43	54	11	0	0.14
24	65	43	54	11	0	0.14
25	66	44	55	11	1	0.14
26	67	44	56	10	1	0.13
27	67	44	56	10	1	0.13
28	68	44	56	10	1	0.13
29	68	44	56	10	1	0.13
30	68	45	57	9	1	0.12
31	69	45	57	9	1	0.12
MTH	64.1	41.6	52.8	386	7	4.39

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	45	58	8	1	0.12
2	70	47	58	8	1	0.12
3	70	47	58	8	1	0.11
4	70	47	58	8	1	0.11
5	70	47	58	8	1	0.11
6	70	47	59	7	1	0.11
7	71	47	59	7	1	0.10
8	71	47	59	7	1	0.10
9	71	48	59	7	1	0.10
10	71	48	59	7	1	0.10
11	72	48	60	6	1	0.10
12	72	48	60	6	1	0.10
13	72	48	60	6	1	0.09
14	73	49	61	5	1	0.09
15	73	49	61	5	1	0.09
16	73	49	61	5	1	0.09
17	73	49	61	5	1	0.09
18	73	49	61	5	1	0.09
19	73	49	61	5	1	0.09
20	73	49	61	5	1	0.09
21	74	50	62	5	2	0.09
22	74	51	63	4	2	0.09
23	75	51	63	4	2	0.09
24	75	51	63	4	2	0.09
25	75	51	63	4	2	0.09
26	75	52	64	3	2	0.10
27	76	52	64	3	2	0.10
28	76	52	64	3	2	0.10
29	76	52	64	3	2	0.10
30	76	53	64	3	2	0.10
MTH	72.8	49.1	60.9	164	40	2.95

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	54	65	3	3	0.11
2	77	54	66	2	3	0.11
3	77	54	66	2	3	0.11
4	77	54	66	2	3	0.11
5	77	55	66	2	3	0.11
6	77	55	66	2	3	0.11
7	78	55	67	1	3	0.11
8	78	57	67	1	3	0.12
9	78	57	67	1	3	0.12
10	78	57	68	1	4	0.12
11	79	57	68	1	4	0.12
12	79	58	68	1	4	0.12
13	79	58	68	1	4	0.12
14	79	58	69	1	5	0.12
15	79	58	69	1	5	0.12
16	79	58	69	1	5	0.12
17	80	58	69	1	5	0.12
18	80	59	70	0	5	0.12
19	80	59	70	0	5	0.12
20	81	59	70	0	5	0.12
21	81	59	70	0	5	0.12
22	81	59	70	0	5	0.13
23	81	60	71	0	6	0.12
24	82	60	71	0	6	0.12
25	82	60	71	0	6	0.12
26	82	61	72	0	7	0.12
27	82	62	72	0	7	0.12
28	82	62	72	0	7	0.12
29	82	62	72	0	7	0.12
30	82	62	72	0	7	0.12
31	83	62	72	0	7	0.12
MTH	79.7	58.2	69.0	24	148	3.66

SPRING SEASON: 72.2 49.6 60.9 574 195 11.00

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

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

Station Name: CHARLOTTE DGLAS INTL AP NORTH CAROLINA Station Number: 311690

Latitude: 35 B 13 * 21 (Longitude: -080 B 57 * 15 (Elevation (feet): 728

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	83	62	72	0	7	0.12
2	83	63	73	0	8	0.12
3	84	63	73	0	8	0.12
4	84	63	73	0	8	0.12
5	84	65	74	0	9	0.12
6	84	65	74	0	9	0.12
7	85	66	75	0	10	0.12
8	85	66	75	0	10	0.11
9	86	66	76	0	11	0.11
10	86	66	76	0	11	0.11
11	86	66	76	0	11	0.11
12	86	66	76	0	11	0.11
13	86	66	76	0	11	0.11
14	87	67	77	0	12	0.11
15	87	67	77	0	12	0.11
16	87	67	77	0	12	0.11
17	87	67	77	0	12	0.11
18	87	67	77	0	12	0.11
19	88	68	78	0	13	0.11
20	88	68	78	0	13	0.11
21	88	68	78	0	13	0.11
22	88	68	78	0	13	0.11
23	88	68	78	0	13	0.11
24	88	68	78	0	13	0.11
25	89	68	79	0	14	0.11
26	89	68	79	0	14	0.12
27	89	68	79	0	14	0.12
28	89	68	79	0	14	0.12
29	89	68	79	0	14	0.12
30	89	68	79	0	14	0.12
MTH	86.6	66.5	76.5	0	346	3.42

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	69	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	90	70	80	0	15	0.12
8	91	70	80	0	15	0.12
9	91	70	80	0	15	0.12
10	91	70	80	0	15	0.12
11	90	70	80	0	15	0.12
12	90	70	80	0	15	0.12
13	90	70	80	0	15	0.12
14	90	71	80	0	15	0.12
15	90	71	80	0	15	0.12
16	90	71	80	0	15	0.12
17	90	71	80	0	15	0.13
18	90	71	80	0	15	0.13
19	90	71	80	0	15	0.13
20	90	71	80	0	15	0.13
21	90	71	80	0	15	0.13
22	90	71	81	0	16	0.13
23	90	71	81	0	16	0.13
24	90	71	81	0	16	0.12
25	90	71	81	0	16	0.12
26	90	71	81	0	16	0.12
27	90	71	81	0	16	0.12
28	90	71	81	0	16	0.12
29	90	71	81	0	16	0.12
30	90	71	81	0	16	0.12
31	90	71	80	0	15	0.12
MTH	90.1	70.6	80.3	0	474	3.79
SUMMER SEASON:	88.4	68.8	78.6	0	1250	10.93

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	71	80	0	15	0.12
2	90	71	80	0	15	0.12
3	90	71	80	0	15	0.12
4	90	71	80	0	15	0.12
5	90	71	80	0	15	0.12
6	90	71	80	0	15	0.12
7	90	71	80	0	15	0.12
8	90	71	80	0	15	0.12
9	90	70	80	0	15	0.12
10	90	70	80	0	15	0.12
11	90	70	80	0	15	0.12
12	89	70	80	0	15	0.12
13	89	70	80	0	15	0.12
14	89	70	80	0	15	0.12
15	89	70	80	0	15	0.12
16	89	69	79	0	14	0.12
17	88	69	79	0	14	0.12
18	88	69	79	0	14	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	87	68	78	0	13	0.12
23	87	68	78	0	13	0.12
24	87	68	78	0	13	0.12
25	87	68	78	0	13	0.12
26	86	68	77	0	12	0.12
27	86	68	77	0	12	0.12
28	86	68	77	0	12	0.12
29	86	68	77	0	12	0.12
30	86	67	77	0	12	0.12
31	86	67	77	0	12	0.12
MTH	88.4	69.3	78.9	0	430	3.72

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	67	77	0	12	0.12
2	86	67	77	0	12	0.12
3	86	67	77	0	12	0.12
4	86	67	77	0	12	0.13
5	86	67	76	0	11	0.13
6	86	67	76	0	11	0.13
7	86	67	76	0	11	0.13
8	85	66	75	0	10	0.13
9	84	65	75	0	10	0.13
10	84	65	75	0	10	0.13
11	84	65	75	0	10	0.13
12	83	64	74	0	9	0.13
13	83	64	74	0	9	0.13
14	83	64	74	0	9	0.13
15	83	64	74	0	9	0.13
16	82	63	73	0	8	0.13
17	82	63	73	0	8	0.13
18	82	63	72	0	7	0.13
19	81	62	71	1	7	0.13
20	80	61	70	1	6	0.13
21	80	61	70	1	6	0.13
22	80	61	70	1	6	0.13
23	80	60	70	1	6	0.13
24	80	60	70	1	6	0.13
25	79	59	69	1	5	0.13
26	79	59	69	1	5	0.13
27	79	59	69	1	5	0.12
28	78	58	68	1	4	0.12
29	78	57	67	2	4	0.12
30	78	57	67	2	4	0.12
MTH	82.3	63.0	72.7	14	244	3.83

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	57	67	2	4	0.12
2	78	57	67	2	4	0.12
3	78	57	67	2	4	0.12
4	78	57	67	2	4	0.12
5	78	56	67	2	4	0.12
6	77	55	66	2	3	0.12
7	76	55	65	3	3	0.12
8	75	54	65	3	3	0.12
9	75	54	64	3	2	0.12
10	75	54	64	3	2	0.12
11	74	53	64	3	2	0.12
12	74	52	63	4	2	0.12
13	73	52	63	4	2	0.12
14	73	51	62	4	1	0.12
15	73	51	62	4	1	0.12
16	72	50	61	5	1	0.12
17	72	50	61	5	1	0.12
18	72	50	61	5	1	0.12
19	71	49	60	6	1	0.12
20	71	49	60	6	1	0.12
21	71	49	60	6	1	0.12
22	70	48	59	6	0	0.12
23	69	47	58	7	0	0.12
24	69	47	58	7	0	0.12
25	69	47	58	7	0	0.11
26	69	47	58	7	0	0.11
27	68	46	57	8	0	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	67	46	56	9	0	0.12
MTH	72.6	50.9	61.7	151	47	3.66
AUTUMN SEASON:	72.6	51.9	62.2	556	301	10.85
ANNUAL:	71.7	51.0	61.4	3053	1750	43.51

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	67	46	56	9	0	0.12
2	67	46	56	9	0	0.12
3	67	46	56	9	0	0.12
4	67	45	56	9	0	0.12
5	67	44	56	9	0	0.12
6	67	44	56	9	0	0.12
7	67	44	55	10	0	0.12
8	66	44	55	10	0	0.12
9	66	43	55	10	0	0.11
10	66	43	55	11	1	0.11
11	65	42	54	12	1	0.11
12	64	42	53	13	1	0.11
13	64	42	53	13	1	0.11
14	63	42	53	13	1	0.11
15	63	42	52	14	1	0.11
16	63	42	52	14	1	0.11
17	62	41	52	14	1	0.11
18	62	41	51	14	0	0.11
19	62	41	51	14	0	0.11
20	61	40	51	14	0	0.11
21	60	40	50	15	0	0.11
22	60	40	50	15	0	0.11
23	60	40	50	15	0	0.11
24	59	40	50	15	0	0.11
25	59	40	49	16	0	0.11
26	59	40	49	16	0	0.11
27	58	39	49	16	0	0.11
28	58	39	48	17	0	0.11
29	58	38	48	18	1	0.10
30	58	38	48	18	1	0.10
MTH	62.8	41.8	52.3	391	10	3.36

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

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

Station Name: CHARLOTTE DGLAS INTL AP NORTH CAROLINA Station Number: 311690

Latitude: 35° 13* 21(Longitude: -080° 57* 15(Elevation (feet): 728

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.70	0.40	0.53	0.30	0.42	0.26	0.39	0.35	0.15	0.00	0.54	0.41	26.30
0.010	0.85	0.52	0.68	0.40	0.54	0.35	0.51	0.46	0.23	0.00	0.67	0.52	27.68
0.050	1.40	0.97	1.25	0.76	1.01	0.75	0.98	0.91	0.59	0.27	1.12	0.94	31.71
0.100	1.78	1.31	1.66	1.04	1.35	1.06	1.34	1.26	0.91	0.65	1.44	1.24	34.02
0.200	2.33	1.82	2.29	1.47	1.88	1.56	1.89	1.80	1.47	1.24	1.91	1.69	36.97
0.300	2.79	2.27	2.84	1.85	2.34	2.02	2.38	2.29	2.00	1.77	2.30	2.09	39.19
0.400	3.23	2.71	3.38	2.22	2.79	2.47	2.85	2.76	2.55	2.34	2.69	2.47	41.17
0.500	3.68	3.17	3.93	2.61	3.27	2.96	3.36	3.27	3.14	2.95	3.08	2.86	43.07
0.600	4.18	3.68	4.55	3.05	3.79	3.50	3.92	3.83	3.83	3.65	3.51	3.30	45.03
0.700	4.76	4.28	5.28	3.57	4.41	4.16	4.58	4.51	4.68	4.52	4.01	3.81	47.19
0.800	5.49	5.06	6.22	4.24	5.21	5.02	5.45	5.38	5.80	5.68	4.66	4.48	49.81
0.900	6.64	6.29	7.71	5.30	6.48	6.39	6.81	6.78	7.64	7.58	5.66	5.52	53.60
0.950	7.69	7.44	9.08	6.30	7.66	7.69	8.09	8.08	9.40	9.41	6.58	6.49	56.86
0.990	9.92	9.92	12.07	8.46	10.22	10.53	10.87	10.93	13.34	13.52	8.56	8.58	63.33
0.995	10.83	10.94	13.29	9.35	11.27	11.71	12.02	12.11	14.99	15.24	9.36	9.43	65.82

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: CONCORD NORTH CAROLINA Station Number: 311975

Latitude: 35 B 25 * 00 (Longitude: -080 B 36 * 00 (Elevation (feet): 690

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	34	46	19	0	0.11
2	58	34	46	20	*	0.10
3	57	34	45	20	*	0.10
4	57	33	45	20	*	0.10
5	57	33	45	20	*	0.10
6	57	33	45	21	*	0.10
7	57	32	44	21	*	0.10
8	57	32	44	21	*	0.10
9	56	31	43	22	*	0.10
10	55	31	43	22	*	0.10
11	55	31	43	22	0	0.10
12	55	31	43	22	0	0.10
13	54	31	43	22	0	0.10
14	54	30	42	23	0	0.10
15	54	30	42	23	0	0.10
16	54	30	42	23	0	0.10
17	53	30	42	23	0	0.10
18	53	29	41	24	0	0.10
19	53	29	41	24	0	0.10
20	53	29	41	24	0	0.11
21	53	29	41	24	0	0.11
22	52	29	41	24	0	0.11
23	52	29	41	24	0	0.11
24	52	29	41	24	0	0.11
25	51	29	40	25	0	0.11
26	51	29	40	25	0	0.11
27	51	29	40	25	0	0.12
28	51	29	40	25	0	0.12
29	51	29	40	25	0	0.12
30	51	28	40	25	0	0.12
31	51	28	40	25	0	0.12
MTH	54.0	30.5	42.3	707	2	3.28

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	51	28	40	25	0	0.13
2	51	28	40	25	0	0.13
3	51	28	40	25	0	0.13
4	51	28	39	26	0	0.13
5	51	28	39	26	0	0.13
6	50	28	39	26	0	0.13
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	28	39	26	0	0.14
11	50	28	39	26	0	0.14
12	50	28	39	26	0	0.14
13	50	28	39	26	0	0.14
14	50	28	39	26	0	0.14
15	50	28	39	26	0	0.14
16	50	28	39	26	0	0.14
17	50	28	39	26	0	0.14
18	51	28	39	26	0	0.14
19	51	27	39	26	0	0.14
20	51	27	39	26	0	0.14
21	51	27	39	26	0	0.14
22	51	27	39	26	0	0.14
23	51	28	40	25	0	0.14
24	51	28	40	25	0	0.14
25	51	28	40	25	0	0.14
26	51	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	0.13
31	52	28	40	25	0	0.13
MTH	50.8	27.9	39.4	794	0	4.26

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	29	40	25	0	0.13
2	52	29	40	25	0	0.13
3	53	29	41	24	0	0.13
4	53	29	41	24	0	0.13
5	53	29	41	24	0	0.13
6	53	29	41	24	0	0.12
7	54	29	41	24	0	0.12
8	54	29	41	24	0	0.12
9	54	29	42	23	0	0.12
10	54	29	42	23	0	0.12
11	54	29	42	23	0	0.12
12	55	29	42	23	0	0.12
13	55	29	42	23	0	0.12
14	55	30	42	23	0	0.12
15	55	30	43	22	0	0.12
16	56	30	43	22	0	0.12
17	56	30	43	22	0	0.12
18	56	30	43	22	0	0.12
19	56	31	44	21	0	0.12
20	57	31	44	21	0	0.12
21	57	31	44	21	0	0.12
22	57	31	44	21	0	0.13
23	57	32	45	20	0	0.13
24	58	32	45	20	0	0.13
25	58	32	45	20	0	0.13
26	58	32	45	20	0	0.13
27	59	33	46	19	0	0.13
28	59	33	46	19	0	0.13
MTH	55.4	30.2	42.8	622	0	3.48

WINTER SEASON: 53.4 29.5 41.5 2123 2 11.02

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	34	46	19	0	0.14
2	59	35	47	18	0	0.14
3	60	35	47	18	0	0.14
4	60	35	47	18	0	0.14
5	60	35	48	17	0	0.14
6	61	35	48	17	0	0.14
7	61	35	48	17	0	0.14
8	61	36	48	17	0	0.15
9	61	36	49	16	0	0.15
10	62	36	49	16	0	0.15
11	62	36	49	16	0	0.15
12	62	37	50	15	0	0.15
13	63	37	50	15	0	0.15
14	63	37	50	15	0	0.15
15	63	38	51	14	0	0.15
16	64	38	51	14	0	0.15
17	64	38	51	14	0	0.15
18	64	38	51	14	0	0.15
19	65	39	52	13	0	0.15
20	65	39	52	13	0	0.15
21	65	39	52	13	0	0.15
22	66	40	53	12	0	0.15
23	66	40	53	12	0	0.15
24	66	40	53	12	0	0.14
25	66	40	53	12	0	0.14
26	67	41	54	11	0	0.14
27	67	41	54	11	0	0.14
28	67	41	54	11	0	0.14
29	68	41	55	10	0	0.14
30	68	41	55	10	0	0.13
31	69	41	55	10	0	0.13
MTH	63.7	37.9	50.8	440	0	4.48

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	42	56	10	1	0.13
2	70	43	56	9	0	0.13
3	70	43	56	9	0	0.13
4	70	43	56	9	0	0.13
5	70	43	57	9	1	0.12
6	70	44	57	8	0	0.12
7	71	44	57	8	0	0.12
8	71	44	57	8	0	0.12
9	71	44	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	72	45	58	7	0	0.12
14	72	45	59	7	1	0.11
15	73	45	59	7	1	0.11
16	73	46	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	74	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	75	48	62	4	1	0.11
26	76	48	62	4	1	0.11
27	76	48	62	4	1	0.11
28	76	49	63	4	2	0.11
29	76	50	63	4	2	0.12
30	76	50	63	4	2	0.12
MTH	73.0	45.7	59.4	191	22	3.49

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	76	51	63	4	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	0.12
5	77	52	64	3	2	0.12
6	79	52	65	2	2	0.12
7	79	52	65	2	2	0.12
8	79	53	66	2	3	0.12
9	79	53	66	2	3	0.12
10	79	53	66	2	3	0.12
11	79	53	66	2	3	0.13
12	79	53	66	2	3	0.13
13	79	53	66	2	3	0.13
14	79	54	67	2	4	0.13
15	79	55	67	2	4	0.13
16	79	55	67	2	4	0.13
17	80	55	68	1	4	0.13
18	80	56	68	1	4	0.13
19	80	56	68	1	4	0.13
20	80	57	69	1	5	0.13
21	81	57	69	1	5	0.13
22	81	57	69	1	5	0.13
23	81	57	69	1	5	0.13
24	81	57	69	1	5	0.13
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	82	58	70	1	6	0.14
29	82	58	70	1	6	0.14
30	83	59	71	1	7	0.14
31	83	60	72	0	7	0.14
MTH	79.8	55.0	67.4	52	125	4.00

SPRING SEASON: 72.1 46.2 59.2 683 147 11.97

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

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Station Name: CONCORD NORTH CAROLINA Station Number: 311975

Latitude: 35 B 25 * 00 (Longitude: -080 B 36 * 00 (Elevation (feet): 690

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	61	72	0	7	0.14
2	84	61	72	*	7	0.14
3	84	61	72	*	8	0.14
4	85	62	73	*	8	0.14
5	85	62	73	*	8	0.14
6	85	62	73	*	8	0.14
7	85	62	74	*	9	0.14
8	85	62	74	0	9	0.14
9	85	62	74	0	9	0.14
10	86	62	74	0	9	0.14
11	86	63	74	0	9	0.14
12	86	63	75	0	10	0.14
13	86	63	75	0	10	0.14
14	87	63	75	0	10	0.14
15	87	63	75	0	10	0.15
16	87	64	76	0	11	0.15
17	87	64	76	0	11	0.15
18	87	64	76	0	11	0.15
19	88	64	76	0	11	0.15
20	88	64	76	0	11	0.15
21	88	64	76	0	11	0.15
22	88	65	77	0	12	0.15
23	88	65	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	88	66	77	0	12	0.15
28	89	66	78	0	13	0.15
29	89	67	78	0	13	0.15
30	89	67	78	0	13	0.15
MTH	86.7	63.7	75.2	1	308	4.36

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	67	78	0	13	0.15
2	89	67	78	0	13	0.15
3	90	67	78	0	13	0.15
4	90	67	78	0	13	0.16
5	90	67	79	0	14	0.16
6	90	68	79	0	14	0.16
7	90	68	79	0	14	0.16
8	90	68	79	0	14	0.16
9	90	68	79	0	14	0.16
10	90	68	79	0	14	0.16
11	90	68	79	0	14	0.16
12	90	68	79	0	14	0.15
13	90	68	79	0	14	0.15
14	90	68	79	0	14	0.15
15	90	68	79	0	14	0.15
16	90	68	79	0	14	0.15
17	90	68	79	0	14	0.15
18	90	68	79	0	14	0.15
19	91	69	80	0	15	0.15
20	91	69	80	0	15	0.15
21	91	69	80	0	15	0.15
22	91	69	80	0	15	0.15
23	91	69	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	0.13
29	90	68	79	0	14	0.13
30	90	68	79	0	14	0.13
31	90	68	79	0	14	0.13
MTH	90.3	68.1	79.2	0	440	4.60
SUMMER SEASON:	88.6	66.1	77.4	1	1142	12.54

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	68	79	0	14	0.13
2	90	68	79	0	14	0.12
3	90	68	79	0	14	0.12
4	90	68	79	0	14	0.12
5	90	68	79	0	14	0.12
6	90	68	79	0	14	0.12
7	90	68	79	0	14	0.12
8	90	68	79	0	14	0.11
9	90	68	79	0	14	0.11
10	90	67	79	0	14	0.11
11	90	67	79	0	14	0.11
12	90	67	78	0	13	0.11
13	89	67	78	0	13	0.11
14	89	67	78	0	13	0.11
15	89	67	78	0	13	0.11
16	89	67	78	0	13	0.11
17	89	67	78	0	13	0.11
18	89	67	78	0	13	0.11
19	88	67	78	0	13	0.11
20	88	66	77	0	12	0.11
21	88	66	77	0	12	0.11
22	88	66	77	0	12	0.11
23	88	66	77	0	12	0.11
24	88	66	77	0	12	0.12
25	88	65	77	0	12	0.12
26	87	65	76	0	11	0.12
27	87	65	76	0	11	0.12
28	87	65	76	0	11	0.12
29	87	65	76	0	11	0.12
30	87	64	75	0	10	0.12
31	87	64	75	0	10	0.13
MTH	88.8	66.6	77.7	0	394	3.58

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	87	64	75	0	10	0.13
4	87	64	75	0	10	0.13
5	86	63	74	0	9	0.14
6	86	63	74	0	9	0.14
7	85	63	74	0	9	0.14
8	84	63	74	0	9	0.14
9	84	62	73	0	8	0.14
10	84	62	73	0	8	0.14
11	84	62	73	0	8	0.14
12	84	61	73	0	8	0.15
13	84	60	72	0	7	0.15
14	84	60	72	0	7	0.15
15	83	60	72	0	7	0.15
16	83	60	72	0	7	0.15
17	83	59	71	0	6	0.15
18	82	59	71	0	6	0.15
19	82	59	71	0	6	0.15
20	82	58	70	1	6	0.15
21	82	58	70	1	6	0.15
22	81	58	70	1	6	0.15
23	81	57	69	1	5	0.15
24	81	57	69	1	5	0.15
25	80	57	69	2	6	0.15
26	80	56	68	2	5	0.15
27	79	55	67	2	4	0.15
28	79	55	67	2	4	0.15
29	79	54	67	2	4	0.14
30	79	53	66	3	4	0.14
MTH	83.0	59.7	71.4	18	209	4.33

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	53	66	3	4	0.14
2	78	53	65	3	3	0.14
3	78	53	65	3	3	0.14
4	77	52	64	4	3	0.14
5	77	52	64	4	3	0.14
6	77	52	64	4	3	0.14
7	76	51	63	4	2	0.14
8	76	51	63	4	2	0.13
9	75	49	62	5	2	0.13
10	75	49	62	5	2	0.13
11	75	48	62	5	2	0.13
12	74	48	61	6	2	0.13
13	74	47	61	6	2	0.13
14	73	47	60	6	1	0.13
15	73	47	60	6	1	0.13
16	73	46	60	6	1	0.13
17	73	45	59	7	1	0.13
18	72	45	59	7	1	0.13
19	72	45	59	7	1	0.13
20	72	44	58	8	1	0.12
21	72	44	58	8	1	0.12
22	71	44	58	8	1	0.12
23	71	43	57	9	1	0.12
24	71	43	57	9	1	0.12
25	70	43	57	9	1	0.12
26	70	42	56	9	0	0.12
27	70	42	56	9	0	0.12
28	69	42	56	9	0	0.12
29	69	41	55	10	0	0.12
30	69	41	55	10	0	0.12
31	68	41	55	10	0	0.12
MTH	73.2	46.6	59.9	203	45	3.98
AUTUMN SEASON:	73.2	47.9	60.6	657	257	11.77
ANNUAL:	71.8	47.4	59.7	3464	1548	47.30

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	41	55	11	1	0.12
2	68	41	55	11	1	0.12
3	68	41	55	11	1	0.12
4	68	41	54	11	0	0.12
5	68	41	54	11	0	0.12
6	66	41	53	12	0	0.12
7	66	40	53	12	0	0.12
8	66	40	53	12	0	0.12
9	66	39	52	13	0	0.12
10	65	39	52	13	0	0.12
11	65	39	52	13	0	0.12
12	65	39	52	13	0	0.12
13	64	38	51	14	0	0.12
14	64	38	51	14	0	0.12
15	64	38	51	14	0	0.12
16	63	37	50	15	0	0.12
17	63	37	50	15	0	0.12
18	63	37	50	15	0	0.11
19	62	37	50	15	0	0.11
20	62	36	49	16	0	0.11
21	62	36	49	16	0	0.11
22	61	36	49	16	0	0.11
23	61	35	48	17	0	0.11
24	61	35	48	17	0	0.11
25	60	35	48	17	0	0.11
26	60	34	47	18	0	0.11
27	60	34	47	18	0	0.11
28	59	34	47	18	0	0.11
29	58	34	46	19	0	0.11
30	58	34	46	19	0	0.10
MTH	63.5	37.6	50.6	436	3	3.46

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Latitude: 35° 25* 00(Longitude: -080° 30* 00(Elevation (feet): 690

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.75	0.37	0.72	0.47	0.38	0.37	0.35	0.33	0.00	0.00	0.54	0.41	29.50
0.010	0.91	0.48	0.88	0.59	0.50	0.50	0.47	0.44	0.00	0.00	0.67	0.52	30.95
0.050	1.49	0.91	1.49	1.05	0.99	1.02	1.00	0.88	0.21	0.34	1.14	0.95	35.14
0.100	1.89	1.24	1.91	1.38	1.36	1.43	1.42	1.22	0.60	0.79	1.47	1.26	37.53
0.200	2.48	1.75	2.54	1.87	1.94	2.06	2.10	1.74	1.25	1.44	1.95	1.73	40.57
0.300	2.97	2.19	3.06	2.30	2.46	2.63	2.71	2.20	1.89	2.02	2.36	2.14	42.87
0.400	3.44	2.63	3.57	2.72	2.97	3.20	3.32	2.66	2.57	2.62	2.75	2.53	44.89
0.500	3.92	3.08	4.10	3.15	3.51	3.80	3.97	3.15	3.33	3.27	3.16	2.95	46.84
0.600	4.45	3.59	4.67	3.62	4.12	4.48	4.70	3.69	4.22	4.01	3.61	3.40	48.85
0.700	5.06	4.20	5.34	4.18	4.83	5.28	5.58	4.34	5.33	4.92	4.13	3.94	51.06
0.800	5.85	4.98	6.20	4.91	5.77	6.34	6.74	5.18	6.84	6.13	4.80	4.64	53.73
0.900	7.06	6.22	7.53	6.03	7.26	8.01	8.58	6.52	9.35	8.09	5.84	5.74	57.58
0.950	8.18	7.38	8.76	7.08	8.65	9.59	10.32	7.78	11.79	9.96	6.80	6.75	60.89
0.990	10.56	9.90	11.40	9.34	11.69	13.04	14.14	10.52	17.33	14.15	8.86	8.95	67.44
0.995	11.52	10.93	12.47	10.27	12.95	14.46	15.73	11.65	19.68	15.91	9.70	9.85	69.95

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: GASTONIA NORTH CAROLINA Station Number: 313356

Latitude: 35° 15* 38 (Longitude: -081° 07* 53 (Elevation (feet): 700

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	57	35	46	19	0	0.11
2	57	35	46	19	0	0.11
3	57	35	46	19	0	0.11
4	56	35	45	20	0	0.11
5	56	35	45	20	0	0.11
6	56	34	45	20	0	0.11
7	56	34	45	20	0	0.11
8	56	33	44	21	0	0.11
9	56	33	44	21	0	0.11
10	55	33	44	21	0	0.11
11	54	33	44	21	0	0.11
12	54	32	43	22	0	0.11
13	54	32	43	22	0	0.11
14	53	32	43	22	0	0.11
15	53	32	43	22	0	0.11
16	53	31	42	23	0	0.11
17	53	31	42	23	0	0.11
18	53	31	42	23	0	0.12
19	52	31	42	23	0	0.12
20	52	31	42	23	0	0.12
21	52	31	42	23	0	0.12
22	51	31	41	24	0	0.12
23	51	31	41	24	0	0.12
24	51	31	41	24	0	0.12
25	51	30	41	24	0	0.12
26	51	30	41	24	0	0.12
27	51	30	41	24	0	0.12
28	50	30	40	25	0	0.12
29	50	30	40	25	0	0.12
30	50	30	40	25	0	0.13
31	50	29	40	25	0	0.13
MTH	53.3	32.0	42.7	691	0	3.57

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	50	29	40	25	0	0.13
2	50	29	40	25	0	0.13
3	50	29	40	25	0	0.13
4	50	29	40	25	0	0.13
5	50	29	39	26	0	0.13
6	50	29	39	26	0	0.13
7	50	29	39	26	0	0.13
8	50	29	39	26	0	0.13
9	50	29	39	26	0	0.13
10	50	28	39	26	0	0.13
11	50	28	39	26	0	0.13
12	50	28	39	26	0	0.14
13	50	28	39	26	0	0.14
14	50	28	39	26	0	0.14
15	50	28	39	26	0	0.14
16	50	28	39	26	0	0.14
17	50	28	39	26	0	0.14
18	50	28	39	26	0	0.14
19	50	28	39	26	0	0.14
20	50	28	39	26	0	0.14
21	50	28	39	26	0	0.14
22	50	28	39	26	0	0.14
23	50	28	39	26	0	0.14
24	50	29	40	25	0	0.14
25	50	29	40	25	0	0.14
26	51	29	40	25	0	0.14
27	51	29	40	25	0	0.14
28	51	29	40	25	0	0.14
29	51	29	40	25	0	0.14
30	51	29	40	25	0	0.13
31	51	29	40	25	0	0.13
MTH	50.2	28.6	39.4	794	0	4.21

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	29	40	25	0	0.14
2	52	29	41	24	0	0.14
3	52	29	41	24	0	0.13
4	52	29	41	24	0	0.13
5	53	29	41	24	0	0.13
6	53	30	41	24	0	0.13
7	53	30	41	24	0	0.13
8	53	30	42	23	0	0.13
9	54	30	42	23	0	0.13
10	54	30	42	23	0	0.13
11	54	30	42	23	0	0.13
12	54	30	42	23	0	0.13
13	55	31	43	22	0	0.13
14	55	31	43	22	0	0.13
15	55	31	43	22	0	0.13
16	55	31	43	22	0	0.13
17	56	32	44	21	0	0.13
18	56	32	44	21	0	0.13
19	56	32	44	21	0	0.13
20	56	32	44	21	0	0.14
21	56	32	44	21	0	0.14
22	57	33	45	20	0	0.14
23	57	33	45	20	0	0.14
24	57	33	45	20	0	0.14
25	58	33	46	19	0	0.14
26	58	34	46	19	0	0.14
27	58	34	46	19	0	0.14
28	58	34	46	19	0	0.14
MTH	55.0	31.2	43.1	613	0	3.75

WINTER SEASON: 52.8 30.6 41.7 2098 0 11.53

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	34	46	19	0	0.14
2	59	35	47	18	0	0.14
3	59	35	47	18	0	0.14
4	59	36	47	18	0	0.14
5	61	36	48	17	0	0.14
6	61	36	48	17	0	0.14
7	61	36	48	17	0	0.15
8	61	36	49	16	0	0.15
9	61	37	49	16	0	0.15
10	61	37	49	16	0	0.15
11	62	37	49	16	*	0.15
12	62	37	50	16	*	0.14
13	63	38	51	15	*	0.14
14	63	38	51	15	*	0.14
15	63	38	51	15	*	0.14
16	63	39	51	14	*	0.14
17	63	39	51	14	0	0.14
18	63	39	51	14	0	0.14
19	64	39	52	13	0	0.14
20	64	40	52	13	0	0.14
21	64	40	52	13	0	0.14
22	64	40	52	13	0	0.14
23	65	40	53	12	0	0.13
24	65	41	53	12	0	0.13
25	65	41	53	12	0	0.13
26	66	41	54	11	0	0.13
27	66	41	54	11	0	0.13
28	67	41	54	11	0	0.12
29	67	41	54	11	0	0.12
30	67	42	55	10	0	0.12
31	67	42	55	10	0	0.12
MTH	63.1	38.5	50.8	443	4	4.26

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	43	55	10	0	0.11
2	68	43	55	10	0	0.11
3	68	44	56	9	0	0.11
4	69	44	56	9	0	0.11
5	69	44	56	9	0	0.10
6	69	44	57	8	0	0.10
7	69	45	57	8	0	0.10
8	70	45	57	8	0	0.10
9	70	45	57	8	0	0.10
10	70	45	58	7	0	0.10
11	70	45	58	7	0	0.10
12	71	45	58	7	0	0.09
13	71	46	59	6	0	0.09
14	71	46	59	6	0	0.09
15	71	46	59	6	0	0.09
16	72	46	59	6	0	0.09
17	72	47	60	6	1	0.09
18	72	47	60	6	1	0.09
19	73	47	60	6	1	0.09
20	73	47	60	6	1	0.09
21	73	48	61	5	1	0.09
22	73	49	61	5	1	0.09
23	73	49	61	5	1	0.09
24	74	49	62	4	1	0.09
25	74	49	62	4	1	0.09
26	74	50	62	4	1	0.09
27	75	50	63	4	2	0.10
28	75	50	63	4	2	0.10
29	75	51	63	4	2	0.10
30	75	51	63	4	2	0.10
MTH	71.6	46.7	59.2	191	18	2.89

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	76	52	64	3	2	0.10
2	76	52	64	3	2	0.10
3	76	52	64	3	2	0.10
4	76	53	64	3	2	0.11
5	77	53	65	3	3	0.11
6	77	53	65	3	3	0.11
7	77	53	65	3	3	0.11
8	77	53	65	3	3	0.11
9	78	54	66	2	3	0.11
10	78	54	66	2	3	0.11
11	78	55	67	2	4	0.11
12	78	55	67	2	4	0.12
13	78	55	67	2	4	0.12
14	79	55	67	2	4	0.12
15	79	55	67	2	4	0.12
16	79	56	67	2	4	0.12
17	79	57	68	2	5	0.12
18	79	57	68	2	5	0.12
19	79	57	68	2	5	0.12
20	80	58	69	1	5	0.12
21	80	58	69	1	5	0.12
22	80	59	70	1	6	0.12
23	80	59	70	1	6	0.12
24	81	59	70	1	6	0.12
25	81	59	70	1	6	0.12
26	81	59	70	1	6	0.13
27	81	59	70	1	6	0.13
28	82	60	71	1	7	0.13
29	82	60	71	1	7	0.13
30	82	60	71	1	7	0.13
31	82	60	71	1	7	0.13
MTH	79.0	56.2	67.6	58	139	3.64

SPRING SEASON: 71.2 47.1 59.2 692 161 10.79

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

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

Station Name: GASTONIA NORTH CAROLINA Station Number: 313356

Latitude: 35 B 15 * 38 (Longitude: -081 B 07 * 53 (Elevation (feet): 700

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	82	61	71	1	7	0.13
2	83	61	72	1	8	0.13
3	83	62	72	1	8	0.13
4	84	62	73	0	8	0.13
5	84	62	73	0	8	0.13
6	84	62	73	0	8	0.13
7	85	63	74	0	9	0.13
8	85	63	74	0	9	0.13
9	85	63	74	0	9	0.12
10	85	63	74	0	9	0.12
11	85	63	74	0	9	0.12
12	85	64	75	0	10	0.12
13	85	64	75	0	10	0.12
14	85	64	75	0	10	0.12
15	85	65	75	0	10	0.12
16	85	65	75	0	10	0.12
17	85	65	75	0	10	0.12
18	86	65	76	0	11	0.12
19	86	66	76	0	11	0.12
20	86	66	76	0	11	0.12
21	86	66	76	0	11	0.12
22	86	66	76	0	11	0.12
23	86	66	76	0	11	0.12
24	87	67	77	0	12	0.12
25	87	67	77	0	12	0.12
26	87	67	77	0	12	0.12
27	87	67	77	0	12	0.12
28	87	67	77	0	12	0.12
29	87	67	77	0	12	0.12
30	88	68	78	0	13	0.12
MTH	85.4	64.6	75.0	3	303	3.68

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	68	78	0	13	0.12
2	89	68	78	0	13	0.12
3	89	68	78	0	13	0.12
4	89	68	78	0	13	0.12
5	89	68	78	0	13	0.11
6	89	68	78	0	13	0.11
7	89	69	79	0	14	0.11
8	89	69	79	0	14	0.11
9	89	69	79	0	14	0.11
10	89	69	79	0	14	0.11
11	89	69	79	0	14	0.11
12	89	69	79	0	14	0.11
13	89	69	79	0	14	0.11
14	89	69	79	0	14	0.11
15	89	69	79	0	14	0.11
16	89	69	79	0	14	0.11
17	89	69	79	0	14	0.11
18	89	69	79	0	14	0.11
19	89	69	79	0	14	0.11
20	89	69	79	0	14	0.11
21	90	69	80	0	15	0.11
22	90	69	80	0	15	0.11
23	90	70	80	0	15	0.11
24	90	70	80	0	15	0.12
25	90	70	80	0	15	0.12
26	90	69	80	0	15	0.12
27	90	69	80	0	15	0.12
28	90	69	80	0	15	0.12
29	89	69	79	0	14	0.12
30	89	69	79	0	14	0.12
31	89	69	79	0	14	0.12
MTH	89.3	68.9	79.1	0	436	3.53
SUMMER SEASON:	87.5	67.1	77.3	3	1135	11.30

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	69	79	0	14	0.12
2	89	69	79	0	14	0.12
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	0.13
8	89	69	79	0	14	0.13
9	89	69	79	0	14	0.13
10	89	68	79	0	14	0.13
11	89	68	79	0	14	0.13
12	88	68	78	0	13	0.13
13	88	68	78	0	13	0.13
14	88	68	78	0	13	0.13
15	88	68	78	0	13	0.13
16	88	68	78	0	13	0.13
17	88	68	78	0	13	0.13
18	88	68	78	0	13	0.13
19	88	67	78	0	13	0.13
20	87	67	77	0	12	0.14
21	87	67	77	0	12	0.14
22	87	67	77	0	12	0.14
23	87	67	77	0	12	0.14
24	87	67	77	0	12	0.14
25	87	67	77	0	12	0.14
26	86	66	76	0	11	0.14
27	86	66	76	0	11	0.14
28	86	66	76	0	11	0.14
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	87.8	67.7	77.8	0	396	4.09

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	66	76	0	11	0.14
2	85	66	75	0	10	0.14
3	85	66	75	0	10	0.14
4	85	65	75	0	10	0.14
5	85	64	74	0	9	0.14
6	85	64	74	0	9	0.14
7	84	64	74	0	9	0.14
8	84	64	74	0	9	0.15
9	83	64	74	0	9	0.15
10	83	63	73	0	8	0.15
11	83	63	73	0	8	0.15
12	83	63	73	0	8	0.15
13	83	63	73	0	8	0.15
14	82	63	73	0	8	0.14
15	82	62	72	0	7	0.14
16	82	61	72	0	7	0.14
17	82	61	72	0	7	0.14
18	81	61	71	0	6	0.14
19	81	60	71	0	6	0.14
20	81	59	70	1	6	0.14
21	81	59	70	1	6	0.14
22	80	59	70	1	6	0.14
23	80	58	69	1	5	0.14
24	80	58	69	1	5	0.14
25	79	58	69	1	5	0.14
26	79	57	68	2	5	0.14
27	79	57	68	2	5	0.14
28	78	56	67	2	4	0.14
29	78	56	67	2	4	0.14
30	77	55	66	3	4	0.14
MTH	81.9	61.2	71.6	17	214	4.26
AUTUMN SEASON:	72.2	49.4	60.8	643	262	11.18
ANNUAL:	70.9	48.6	59.8	3436	1558	44.80

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	55	66	3	4	0.13
2	77	54	65	3	3	0.13
3	77	53	65	3	3	0.13
4	77	53	65	3	3	0.13
5	77	52	64	4	3	0.13
6	77	52	64	4	3	0.13
7	76	52	64	4	3	0.13
8	75	51	63	4	2	0.13
9	74	51	63	4	2	0.13
10	74	50	62	5	2	0.13
11	74	50	62	5	2	0.13
12	73	50	62	5	2	0.12
13	73	50	62	5	2	0.12
14	73	49	61	5	1	0.12
15	72	48	60	6	1	0.12
16	72	48	60	6	1	0.12
17	72	47	60	6	1	0.12
18	71	47	59	7	1	0.12
19	71	47	59	7	1	0.12
20	71	46	59	7	1	0.12
21	70	46	58	8	1	0.12
22	70	46	58	8	1	0.12
23	70	45	58	8	1	0.12
24	69	45	57	8	0	0.12
25	69	45	57	8	0	0.11
26	68	44	56	9	0	0.11
27	68	44	56	9	0	0.11
28	68	44	56	9	0	0.11
29	68	43	56	9	0	0.11
30	67	43	55	10	0	0.11
31	67	43	55	10	0	0.11
MTH	72.2	48.2	60.2	192	44	3.76

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	67	43	55	11	1	0.11
2	67	43	55	11	1	0.11
3	67	42	54	11	0	0.11
4	67	42	54	11	0	0.11
5	67	42	54	11	*	0.11
6	66	42	54	12	*	0.11
7	65	41	53	12	*	0.11
8	65	41	53	12	*	0.11
9	64	41	53	13	*	0.11
10	64	40	52	13	*	0.11
11	64	40	52	13	*	0.11
12	64	40	52	13	*	0.11
13	63	39	51	14	*	0.10
14	63	39	51	14	0	0.10
15	63	39	51	14	0	0.10
16	62	38	50	15	0	0.10
17	62	38	50	15	0	0.10
18	62	38	50	15	0	0.10
19	61	38	50	15	0	0.10
20	61	37	49	16	0	0.10
21	61	37	49	16	0	0.10
22	60	37	49	16	0	0.10
23	60	36	48	17	0	0.10
24	60	36	48	17	0	0.10
25	59	36	48	17	0	0.10
26	59	36	48	17	0	0.10
27	58	36	47	18	0	0.11
28	58	36	47	18	0	0.11
29	58	35	47	18	0	0.11
30	57	35	46	19	0	0.11
MTH	62.5	38.8	50.7	434	4	3.16

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

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

Station Name: GASTONIA NORTH CAROLINA Station Number: 313356

Latitude: 35° 15* 38(Longitude: -081° 07* 53(Elevation (feet): 700

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.75	0.60	0.33	0.23	0.15	0.08	0.31	0.35	0.20	0.00	0.27	0.47	25.97
0.010	0.91	0.74	0.45	0.31	0.22	0.12	0.41	0.47	0.29	0.00	0.36	0.59	27.46
0.050	1.48	1.25	0.95	0.65	0.57	0.40	0.84	0.96	0.72	0.00	0.74	1.06	31.82
0.100	1.88	1.60	1.34	0.91	0.88	0.68	1.17	1.34	1.09	0.79	1.03	1.40	34.34
0.200	2.46	2.12	1.97	1.34	1.41	1.19	1.68	1.94	1.71	1.56	1.50	1.91	37.56
0.300	2.94	2.57	2.53	1.72	1.91	1.70	2.14	2.48	2.29	2.16	1.91	2.35	40.00
0.400	3.41	2.99	3.09	2.10	2.43	2.25	2.60	3.01	2.90	2.72	2.32	2.78	42.17
0.500	3.88	3.43	3.69	2.51	3.00	2.87	3.08	3.57	3.55	3.31	2.76	3.22	44.27
0.600	4.40	3.91	4.36	2.96	3.65	3.60	3.63	4.21	4.29	3.96	3.25	3.71	46.44
0.700	5.00	4.47	5.16	3.51	4.44	4.50	4.27	4.96	5.20	4.70	3.83	4.29	48.84
0.800	5.78	5.19	6.22	4.22	5.51	5.73	5.12	5.95	6.41	5.70	4.60	5.04	51.75
0.900	6.97	6.30	7.90	5.37	7.24	7.76	6.46	7.51	8.37	7.28	5.82	6.20	55.96
0.950	8.07	7.33	9.49	6.44	8.90	9.74	7.72	8.99	10.25	8.76	6.96	7.29	59.61
0.990	10.41	9.53	12.97	8.80	12.60	14.23	10.48	12.21	14.41	12.01	9.47	9.62	66.87
0.995	11.36	10.43	14.41	9.78	14.16	16.13	11.62	13.55	16.16	13.35	10.51	10.58	69.66

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: HAMLET NORTH CAROLINA Station Number: 313784

Latitude: 34 B 53 * 14 (Longitude: -079 B 41 * 32 (Elevation (feet): 350

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	60	33	47	18	0	0.10
2	60	33	46	19	0	0.10
3	60	33	46	19	0	0.10
4	60	33	46	19	0	0.10
5	58	33	45	20	0	0.10
6	58	32	45	20	0	0.10
7	58	32	45	20	0	0.10
8	58	31	45	20	0	0.10
9	58	31	44	21	0	0.10
10	57	31	44	21	0	0.10
11	57	31	44	21	0	0.10
12	57	31	44	21	0	0.10
13	56	30	43	22	0	0.10
14	56	30	43	22	0	0.10
15	56	30	43	22	0	0.10
16	56	30	43	22	0	0.10
17	55	30	43	22	0	0.10
18	55	29	42	23	0	0.10
19	55	29	42	23	0	0.10
20	55	29	42	23	0	0.10
21	55	29	42	23	0	0.10
22	54	29	42	23	0	0.11
23	54	29	42	23	0	0.11
24	53	29	41	24	0	0.11
25	53	29	41	24	0	0.11
26	53	29	41	24	0	0.11
27	53	29	41	24	0	0.11
28	53	29	41	24	0	0.12
29	53	29	41	24	0	0.12
30	53	28	41	24	0	0.12
31	53	28	41	24	0	0.12
MTH	55.9	30.3	43.1	679	0	3.24

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	53	29	41	24	0	0.12
2	53	29	41	24	0	0.13
3	53	28	41	24	0	0.13
4	53	28	40	25	0	0.13
5	52	28	40	25	0	0.13
6	52	28	40	25	0	0.14
7	52	28	40	25	0	0.14
8	52	28	40	25	0	0.14
9	52	28	40	25	0	0.14
10	52	28	40	25	0	0.14
11	52	28	40	25	0	0.14
12	52	28	40	25	0	0.14
13	52	28	40	25	0	0.14
14	52	28	40	25	0	0.15
15	52	28	40	25	0	0.15
16	52	28	40	25	0	0.15
17	52	28	40	25	0	0.15
18	52	28	40	25	0	0.15
19	52	28	40	25	0	0.15
20	52	28	40	25	0	0.15
21	52	28	40	25	0	0.15
22	52	28	40	25	0	0.15
23	53	28	41	24	0	0.15
24	53	28	41	24	0	0.14
25	53	28	41	24	0	0.14
26	53	28	41	24	0	0.14
27	53	28	41	24	0	0.14
28	54	28	41	24	0	0.14
29	54	28	41	24	0	0.14
30	54	28	41	24	0	0.14
31	54	28	41	24	0	0.14
MTH	52.6	28.1	40.4	763	0	4.38

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	29	41	24	0	0.14
2	55	29	42	23	0	0.13
3	55	29	42	23	0	0.13
4	55	29	42	23	0	0.13
5	55	29	42	23	0	0.13
6	55	29	42	23	0	0.13
7	55	29	42	23	0	0.13
8	56	29	43	22	0	0.13
9	56	29	43	22	0	0.13
10	56	29	43	22	0	0.13
11	57	29	43	22	0	0.12
12	57	29	43	22	0	0.12
13	57	29	43	22	0	0.12
14	57	30	44	21	0	0.12
15	58	30	44	21	0	0.12
16	58	30	44	21	0	0.12
17	58	30	44	21	0	0.12
18	58	31	45	20	0	0.12
19	59	31	45	20	0	0.13
20	59	31	45	20	0	0.13
21	59	31	45	20	0	0.13
22	60	32	46	19	0	0.13
23	60	32	46	19	0	0.13
24	60	32	46	19	0	0.13
25	60	32	46	19	0	0.13
26	61	32	47	18	0	0.13
27	61	33	47	18	0	0.14
28	61	33	47	18	0	0.14
MTH	57.6	30.3	44.0	588	0	3.59

WINTER SEASON: 55.3 29.5 42.5 2030 0 11.21

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	62	33	47	18	0	0.14
2	62	33	47	18	0	0.14
3	62	34	48	17	0	0.14
4	62	34	48	17	0	0.14
5	63	34	48	17	0	0.14
6	63	35	49	16	0	0.15
7	63	35	49	16	0	0.15
8	63	36	49	16	0	0.15
9	64	36	50	15	0	0.15
10	64	36	50	15	0	0.15
11	64	36	50	15	0	0.15
12	65	36	51	14	0	0.15
13	65	36	51	14	0	0.15
14	65	37	51	14	0	0.15
15	65	37	51	14	0	0.15
16	66	37	52	13	0	0.15
17	66	37	52	13	0	0.15
18	67	37	52	13	0	0.15
19	67	37	52	13	0	0.15
20	67	38	53	12	*	0.14
21	68	39	54	12	*	0.14
22	68	39	54	12	*	0.14
23	68	39	54	12	*	0.14
24	68	39	54	12	*	0.14
25	69	39	54	11	*	0.14
26	69	39	54	11	0	0.13
27	69	40	55	10	0	0.13
28	70	40	55	10	0	0.13
29	70	40	55	10	0	0.13
30	70	40	55	10	0	0.12
31	71	41	56	9	0	0.12
MTH	66.0	37.1	51.6	419	4	4.40

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	71	41	56	9	0	0.12
2	71	41	56	9	0	0.12
3	71	42	56	9	0	0.11
4	73	42	57	8	0	0.11
5	73	42	57	8	0	0.11
6	73	42	57	8	0	0.11
7	73	42	58	7	0	0.11
8	73	43	58	7	0	0.10
9	73	43	58	7	0	0.10
10	73	43	58	7	0	0.10
11	73	43	58	7	0	0.10
12	74	43	58	7	0	0.10
13	74	44	59	7	1	0.10
14	75	44	60	6	1	0.10
15	75	44	60	6	1	0.09
16	75	45	60	6	1	0.09
17	75	45	60	6	1	0.09
18	75	45	60	6	1	0.09
19	76	46	61	5	1	0.09
20	76	46	61	5	1	0.09
21	76	46	61	5	1	0.09
22	77	46	62	4	1	0.09
23	77	47	62	4	1	0.09
24	77	47	62	4	1	0.10
25	77	47	62	4	1	0.10
26	78	48	63	4	2	0.10
27	78	48	63	4	2	0.10
28	78	48	63	4	2	0.10
29	78	48	63	4	2	0.10
30	78	49	64	3	2	0.10
MTH	74.9	44.7	59.8	180	23	3.00

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	50	64	3	2	0.10
2	79	50	64	3	2	0.10
3	79	50	64	3	2	0.11
4	79	50	65	3	3	0.11
5	79	51	65	3	3	0.11
6	80	51	65	3	3	0.11
7	80	51	66	2	3	0.11
8	80	52	66	2	3	0.11
9	80	52	66	2	3	0.11
10	80	52	66	2	3	0.12
11	81	53	67	2	4	0.12
12	81	53	67	2	4	0.12
13	81	53	67	2	4	0.12
14	81	53	67	2	4	0.12
15	82	54	68	1	4	0.12
16	82	54	68	1	4	0.12
17	82	55	69	1	5	0.12
18	82	55	69	1	5	0.12
19	82	55	69	1	5	0.12
20	83	55	69	1	5	0.12
21	83	55	69	1	5	0.12
22	83	56	70	1	6	0.13
23	83	56	70	1	6	0.13
24	84	56	70	1	6	0.13
25	84	56	70	1	6	0.13
26	84	56	70	1	6	0.13
27	84	57	70	1	6	0.13
28	84	58	71	1	7	0.13
29	84	58	71	1	7	0.13
30	85	58	72	0	7	0.13
31	85	58	72	0	7	0.13
MTH	81.8	54.0	67.9	49	140	3.71

SPRING SEASON: 74.2 45.2 59.8 648 167 11.11

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

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

Station Name: HAMLET NORTH CAROLINA Station Number: 313784

Latitude: 34 B 53 * 14 (Longitude: -079 B 41* 32 (Elevation (feet): 350

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	85	59	72	0	7	0.13
2	85	59	72	*	8	0.13
3	86	59	72	*	8	0.13
4	86	59	72	*	7	0.13
5	86	61	73	*	8	0.13
6	86	61	74	*	9	0.13
7	86	61	74	0	9	0.13
8	87	61	74	0	9	0.13
9	87	61	74	0	9	0.13
10	87	61	74	0	9	0.13
11	87	61	74	0	9	0.13
12	88	62	75	0	10	0.14
13	88	62	75	0	10	0.14
14	88	62	75	0	10	0.14
15	88	62	75	0	10	0.14
16	88	62	75	0	10	0.14
17	88	63	76	0	11	0.14
18	89	63	76	0	11	0.15
19	89	63	76	0	11	0.15
20	89	63	76	0	11	0.15
21	89	63	76	0	11	0.15
22	89	63	76	0	11	0.16
23	89	64	77	0	12	0.16
24	89	64	77	0	12	0.16
25	90	64	77	0	12	0.17
26	90	64	77	0	12	0.17
27	90	64	77	0	12	0.17
28	90	64	77	0	12	0.18
29	90	65	78	0	13	0.18
30	90	65	78	0	13	0.18
MTH	88.0	62.2	75.1	2	306	4.40

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	91	66	78	0	13	0.19
2	91	66	78	0	13	0.19
3	91	66	78	0	13	0.20
4	91	66	78	0	13	0.20
5	91	66	78	0	13	0.20
6	91	66	79	0	14	0.20
7	91	66	79	0	14	0.21
8	91	67	79	0	14	0.21
9	91	67	79	0	14	0.21
10	91	67	79	0	14	0.21
11	91	67	79	0	14	0.21
12	91	67	79	0	14	0.22
13	91	67	79	0	14	0.22
14	91	67	79	0	14	0.22
15	91	67	79	0	14	0.22
16	91	67	79	0	14	0.22
17	91	67	79	0	14	0.22
18	91	67	79	0	14	0.21
19	92	68	80	0	15	0.21
20	92	68	80	0	15	0.21
21	91	68	80	0	15	0.21
22	91	68	80	0	15	0.21
23	91	68	80	0	15	0.21
24	91	68	80	0	15	0.20
25	91	68	80	0	15	0.20
26	91	67	79	0	14	0.20
27	91	67	79	0	14	0.20
28	91	67	79	0	14	0.19
29	91	67	79	0	14	0.19
30	91	67	79	0	14	0.18
31	91	67	79	0	14	0.18
MTH	91.1	67.0	79.1	0	436	6.35
SUMMER SEASON:	89.4	65.0	77.2	2	1128	15.13

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	91	67	79	0	14	0.18
2	91	67	79	0	14	0.17
3	91	67	79	0	14	0.17
4	90	67	79	0	14	0.16
5	90	67	79	0	14	0.16
6	90	67	79	0	14	0.16
7	90	67	79	0	14	0.15
8	90	67	79	0	14	0.15
9	90	67	78	0	13	0.15
10	90	67	78	0	13	0.14
11	90	67	78	0	13	0.14
12	90	67	78	0	13	0.14
13	90	67	78	0	13	0.14
14	89	67	78	0	13	0.14
15	89	67	78	0	13	0.13
16	89	67	78	0	13	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	89	65	77	0	12	0.13
22	88	65	77	0	12	0.13
23	88	65	77	0	12	0.13
24	88	64	76	0	11	0.13
25	88	64	76	0	11	0.13
26	88	64	76	0	11	0.13
27	88	64	76	0	11	0.13
28	88	64	76	0	11	0.13
29	87	64	76	0	11	0.13
30	87	64	75	0	10	0.14
31	87	64	75	0	10	0.14
MTH	89.1	65.8	77.5	0	386	4.38

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	64	75	0	10	0.14
2	87	64	75	0	10	0.14
3	87	64	75	0	10	0.14
4	86	64	75	0	10	0.15
5	86	63	74	0	9	0.15
6	86	63	74	0	9	0.15
7	86	63	74	0	9	0.15
8	86	63	74	0	9	0.15
9	85	62	74	0	9	0.15
10	85	61	73	0	8	0.15
11	85	61	73	0	8	0.15
12	85	61	73	0	8	0.16
13	85	61	73	0	8	0.16
14	84	60	72	0	7	0.16
15	84	60	72	0	7	0.16
16	84	60	72	0	7	0.16
17	84	59	72	0	7	0.16
18	84	59	72	0	7	0.16
19	83	59	71	0	6	0.15
20	83	58	71	0	6	0.15
21	82	58	70	1	6	0.15
22	82	58	70	1	6	0.15
23	82	57	70	1	6	0.15
24	82	56	69	1	5	0.15
25	81	56	69	1	5	0.15
26	81	55	68	2	5	0.15
27	81	55	68	2	5	0.15
28	80	55	68	2	5	0.14
29	80	54	67	2	4	0.14
30	80	54	67	2	4	0.14
MTH	83.8	59.6	71.7	15	215	4.51

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	80	53	66	3	4	0.14
2	80	53	66	3	4	0.14
3	78	53	66	3	4	0.14
4	78	52	65	3	3	0.13
5	78	51	64	4	3	0.13
6	78	50	64	4	3	0.13
7	77	50	64	4	3	0.13
8	77	50	64	4	3	0.13
9	76	49	63	4	2	0.12
10	76	48	62	5	2	0.12
11	76	48	62	5	2	0.12
12	75	48	62	5	2	0.12
13	75	47	61	6	2	0.12
14	75	47	61	6	2	0.12
15	75	47	61	6	2	0.12
16	74	46	60	6	1	0.12
17	74	46	60	6	1	0.12
18	73	45	59	7	1	0.12
19	73	45	59	7	1	0.11
20	73	45	59	7	1	0.11
21	72	44	58	8	1	0.11
22	72	44	58	8	1	0.11
23	72	44	58	8	1	0.11
24	72	43	58	8	1	0.11
25	71	43	57	9	1	0.11
26	71	43	57	9	1	0.11
27	71	42	57	9	1	0.11
28	71	42	57	9	1	0.11
29	70	42	56	9	0	0.11
30	70	42	56	9	0	0.11
31	69	41	55	10	0	0.11
MTH	74.3	46.6	60.5	194	54	3.70
AUTUMN SEASON:	74.3	47.8	61.1	629	273	11.62
ANNUAL:	73.3	46.9	60.2	3309	1568	49.07

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	41	55	11	1	0.11
2	69	41	55	11	1	0.11
3	69	41	55	11	1	0.11
4	69	41	55	11	1	0.11
5	68	41	54	11	0	0.12
6	68	41	54	11	0	0.12
7	68	39	54	11	0	0.12
8	67	39	53	12	0	0.12
9	67	39	53	12	0	0.12
10	67	39	53	12	0	0.12
11	66	38	52	13	0	0.12
12	66	38	52	13	0	0.12
13	66	38	52	13	0	0.12
14	65	38	52	13	0	0.12
15	65	37	51	14	0	0.12
16	65	37	51	14	0	0.12
17	64	37	51	14	0	0.11
18	64	36	50	15	0	0.11
19	64	36	50	15	0	0.11
20	64	36	50	15	0	0.11
21	63	36	50	15	0	0.11
22	63	35	49	16	0	0.11
23	63	35	49	16	0	0.11
24	62	35	49	16	0	0.11
25	62	34	48	17	0	0.11
26	62	34	48	17	0	0.11
27	61	34	48	17	0	0.11
28	61	33	47	18	0	0.11
29	61	33	47	18	0	0.11
30	60	33	47	18	0	0.10
MTH	64.9	37.2	51.1	420	4	3.41

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

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

Station Name: HAMLET NORTH CAROLINA Station Number: 313784

Latitude: 34B 53* 14(Longitude: -079B 41* 32(Elevation (feet): 350

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.84	0.63	0.74	0.16	0.69	0.00	0.94	0.63	0.17	0.00	0.31	0.46	34.61
0.010	1.01	0.77	0.90	0.23	0.84	0.00	1.17	0.79	0.26	0.00	0.42	0.58	35.84
0.050	1.61	1.25	1.50	0.54	1.34	0.90	2.01	1.37	0.68	0.36	0.83	1.01	39.36
0.100	2.02	1.59	1.92	0.81	1.69	1.52	2.62	1.79	1.06	0.78	1.15	1.32	41.33
0.200	2.61	2.09	2.52	1.25	2.20	2.26	3.51	2.40	1.71	1.40	1.65	1.78	43.80
0.300	3.11	2.50	3.04	1.66	2.62	2.85	4.27	2.93	2.33	1.93	2.09	2.17	45.65
0.400	3.58	2.90	3.53	2.07	3.02	3.42	5.01	3.44	2.98	2.49	2.53	2.55	47.26
0.500	4.06	3.31	4.04	2.53	3.43	4.00	5.77	3.97	3.69	3.08	2.99	2.94	48.81
0.600	4.58	3.75	4.59	3.04	3.88	4.64	6.61	4.56	4.50	3.75	3.51	3.37	50.39
0.700	5.19	4.27	5.24	3.66	4.40	5.38	7.60	5.24	5.50	4.57	4.12	3.88	52.11
0.800	5.97	4.93	6.07	4.49	5.06	6.34	8.86	6.12	6.85	5.66	4.93	4.54	54.18
0.900	7.16	5.96	7.36	5.82	6.09	7.85	10.83	7.49	9.03	7.42	6.20	5.56	57.14
0.950	8.26	6.90	8.54	7.09	7.03	9.24	12.66	8.75	11.13	9.10	7.40	6.50	59.66
0.990	10.59	8.91	11.07	9.91	9.03	12.24	16.57	11.48	15.82	12.83	10.02	8.53	64.59
0.995	11.53	9.73	12.09	11.08	9.84	13.47	18.17	12.59	17.79	14.39	11.10	9.36	66.46

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: JACKSON SPRINGS 5 WNW NORTH CAROLINA Station Number: 314464

Latitude: 35° 13* 00(Longitude: -079° 44* 00(Elevation (feet): 730

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	57	38	47	18	0	0.10
2	57	38	47	18	0	0.10
3	57	38	47	18	0	0.10
4	56	37	46	19	0	0.10
5	56	37	46	19	0	0.10
6	55	37	46	19	0	0.10
7	55	36	45	20	0	0.10
8	55	36	45	20	0	0.10
9	54	36	45	20	0	0.10
10	54	35	45	20	0	0.10
11	54	34	44	21	0	0.10
12	54	34	44	21	0	0.10
13	53	34	44	21	0	0.10
14	53	33	43	22	0	0.10
15	53	33	43	22	0	0.10
16	53	33	43	22	0	0.10
17	52	33	43	22	0	0.10
18	52	33	43	22	0	0.10
19	52	32	42	23	0	0.10
20	52	32	42	23	0	0.11
21	52	32	42	23	0	0.11
22	51	32	42	23	0	0.11
23	51	32	42	23	0	0.11
24	51	32	42	23	0	0.11
25	50	32	41	24	0	0.11
26	50	32	41	24	0	0.12
27	50	32	41	24	0	0.12
28	50	32	41	24	0	0.12
29	50	32	41	24	0	0.12
30	50	32	41	24	0	0.13
31	50	31	41	24	0	0.13
MTH	52.9	33.9	43.4	670	0	3.30

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	50	31	41	24	0	0.13
2	50	31	41	24	0	0.14
3	50	31	40	25	0	0.14
4	50	31	40	25	0	0.14
5	49	31	40	25	0	0.14
6	49	31	40	25	0	0.14
7	49	31	40	25	0	0.15
8	49	31	40	25	0	0.15
9	49	31	40	25	0	0.15
10	49	31	40	25	0	0.15
11	49	31	40	25	0	0.15
12	49	31	40	25	0	0.15
13	49	31	40	25	0	0.15
14	49	31	40	25	0	0.15
15	49	31	40	25	0	0.16
16	49	31	40	25	0	0.16
17	49	31	40	25	0	0.16
18	49	31	40	25	0	0.16
19	50	31	40	25	0	0.16
20	50	31	40	25	0	0.16
21	50	30	40	25	0	0.15
22	50	30	40	25	0	0.15
23	50	30	40	25	0	0.15
24	50	30	40	25	0	0.15
25	50	31	41	24	0	0.15
26	50	31	41	24	0	0.15
27	50	31	41	24	0	0.15
28	50	31	41	24	0	0.15
29	51	31	41	24	0	0.15
30	51	31	41	24	0	0.14
31	51	31	41	24	0	0.14
MTH	49.7	30.9	40.3	766	0	4.62

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	51	32	41	24	0	0.14
2	51	32	41	24	0	0.14
3	51	32	41	24	0	0.14
4	52	32	42	23	0	0.13
5	52	32	42	23	0	0.13
6	52	32	42	23	0	0.13
7	52	32	42	23	0	0.13
8	52	32	42	23	0	0.13
9	53	32	42	23	0	0.13
10	53	32	43	22	0	0.13
11	53	32	43	22	0	0.13
12	53	32	43	22	0	0.12
13	54	32	43	22	0	0.12
14	54	33	43	22	0	0.12
15	54	33	44	21	0	0.12
16	54	33	44	21	0	0.12
17	55	33	44	21	0	0.12
18	55	33	44	21	0	0.12
19	55	33	44	21	0	0.13
20	55	34	45	20	0	0.13
21	56	34	45	20	0	0.13
22	56	34	45	20	0	0.13
23	56	34	45	20	0	0.13
24	56	35	46	19	0	0.13
25	57	35	46	19	0	0.13
26	57	35	46	19	0	0.13
27	57	35	46	19	0	0.14
28	58	36	47	18	0	0.14
MTH	54.1	33.1	43.6	599	0	3.62

WINTER SEASON: 52.2 32.6 42.4 2035 0 11.54

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	37	47	18	0	0.14
2	58	37	47	18	0	0.14
3	58	37	47	18	0	0.15
4	59	37	48	17	0	0.15
5	59	37	48	17	0	0.15
6	60	38	49	16	0	0.15
7	60	38	49	16	0	0.15
8	60	38	49	16	0	0.15
9	60	38	49	16	0	0.15
10	61	39	50	15	0	0.15
11	61	39	50	15	0	0.15
12	61	39	50	15	0	0.15
13	62	40	51	14	0	0.16
14	62	40	51	14	0	0.16
15	62	40	51	14	0	0.16
16	63	40	52	13	0	0.16
17	63	41	52	13	0	0.15
18	63	41	52	13	0	0.15
19	63	41	52	13	0	0.15
20	64	41	53	12	0	0.15
21	64	42	53	12	0	0.15
22	64	42	53	12	0	0.15
23	65	42	54	11	0	0.15
24	65	42	54	11	0	0.15
25	66	42	54	11	0	0.15
26	66	42	54	11	0	0.14
27	66	43	55	10	0	0.14
28	67	43	55	10	0	0.14
29	67	44	56	10	1	0.14
30	67	44	56	10	1	0.13
31	68	44	56	10	1	0.13
MTH	62.7	40.3	51.5	421	3	4.59

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	45	56	9	0	0.13
2	68	45	57	8	0	0.13
3	69	45	57	8	0	0.12
4	69	45	57	8	0	0.12
5	69	46	57	8	0	0.12
6	70	46	58	7	0	0.12
7	70	46	58	7	0	0.11
8	70	46	58	7	0	0.11
9	70	46	58	7	0	0.11
10	71	47	59	7	1	0.11
11	71	47	59	7	1	0.11
12	71	48	60	6	1	0.10
13	72	48	60	6	1	0.10
14	72	48	60	6	1	0.10
15	72	48	60	6	1	0.10
16	72	48	60	6	1	0.10
17	73	49	61	5	1	0.10
18	73	49	61	5	1	0.10
19	73	49	61	5	1	0.10
20	73	49	61	5	1	0.10
21	74	50	62	4	1	0.10
22	74	50	62	4	1	0.10
23	74	50	62	4	1	0.10
24	74	50	62	4	1	0.10
25	74	50	62	4	1	0.10
26	75	51	63	4	2	0.10
27	75	51	63	4	2	0.10
28	75	52	64	3	2	0.10
29	75	52	64	3	2	0.10
30	76	52	64	3	2	0.10
MTH	72.1	48.3	60.2	170	26	3.19

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	76	53	64	3	2	0.10
2	76	53	64	3	2	0.10
3	76	54	65	2	2	0.10
4	77	54	65	2	2	0.10
5	77	54	65	2	2	0.10
6	77	54	66	2	3	0.11
7	77	54	66	2	3	0.11
8	77	55	66	2	3	0.11
9	77	55	66	2	3	0.11
10	77	55	66	2	3	0.11
11	78	56	67	1	3	0.11
12	78	56	67	1	3	0.11
13	78	57	68	1	4	0.11
14	78	57	68	1	4	0.11
15	79	57	68	1	4	0.11
16	79	57	68	1	4	0.11
17	79	57	68	1	4	0.11
18	79	57	68	1	4	0.12
19	80	58	69	1	5	0.12
20	80	58	69	1	5	0.12
21	80	58	69	1	5	0.12
22	80	58	69	1	5	0.12
23	80	58	69	1	5	0.12
24	81	59	70	1	6	0.12
25	81	59	70	1	6	0.12
26	81	60	71	0	6	0.12
27	81	60	71	0	6	0.12
28	82	60	71	0	6	0.12
29	82	61	72	0	7	0.12
30	82	61	72	0	7	0.13
31	83	61	72	0	7	0.13
MTH	79.0	57.0	68.0	37	131	3.52

SPRING SEASON: 71.2 48.5 59.9 628 160 11.30

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

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

Station Name: JACKSON SPRINGS 5 WNW NORTH CAROLINA Station Number: 314464

Latitude: 35° 13* 00 (Longitude: -079° 44* 00 (Elevation (feet): 730

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	83	62	72	0	7	0.13
2	83	62	72	*	8	0.13
3	84	63	73	*	8	0.13
4	84	63	73	*	8	0.13
5	84	63	73	*	8	0.13
6	85	63	74	*	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	64	75	0	10	0.13
11	85	64	75	0	10	0.14
12	85	64	75	0	10	0.14
13	86	64	75	0	10	0.14
14	86	64	75	0	10	0.14
15	86	65	76	0	11	0.14
16	86	65	76	0	11	0.14
17	86	66	76	0	11	0.14
18	86	66	76	0	11	0.14
19	86	66	76	0	11	0.14
20	87	66	77	0	12	0.15
21	87	66	77	0	12	0.15
22	87	67	77	0	12	0.15
23	87	67	77	0	12	0.15
24	87	67	77	0	12	0.15
25	87	67	77	0	12	0.15
26	87	67	77	0	12	0.15
27	88	68	78	0	13	0.15
28	88	68	78	0	13	0.16
29	88	68	78	0	13	0.16
30	88	68	78	0	13	0.16
MTH	85.9	65.1	75.5	1	316	4.24

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	68	78	0	13	0.16
2	88	68	78	0	13	0.16
3	88	69	78	0	13	0.16
4	89	69	79	0	14	0.16
5	89	69	79	0	14	0.16
6	89	69	79	0	14	0.16
7	89	69	79	0	14	0.17
8	89	69	79	0	14	0.17
9	89	69	79	0	14	0.17
10	89	69	79	0	14	0.17
11	89	69	79	0	14	0.17
12	89	69	79	0	14	0.17
13	89	69	79	0	14	0.17
14	89	69	79	0	14	0.17
15	90	69	79	0	14	0.17
16	90	69	80	0	15	0.17
17	90	70	80	0	15	0.17
18	90	70	80	0	15	0.17
19	90	70	80	0	15	0.17
20	90	70	80	0	15	0.17
21	90	70	80	0	15	0.17
22	90	70	80	0	15	0.16
23	89	70	80	0	15	0.16
24	89	70	80	0	15	0.16
25	89	70	80	0	15	0.16
26	89	70	80	0	15	0.16
27	89	69	79	0	14	0.16
28	89	69	79	0	14	0.16
29	89	69	79	0	14	0.16
30	89	69	79	0	14	0.16
31	89	69	79	0	14	0.15
MTH	89.2	69.3	79.3	0	442	5.10

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	69	79	0	14	0.15
2	89	69	79	0	14	0.15
3	89	69	79	0	14	0.15
4	89	69	79	0	14	0.15
5	89	69	79	0	14	0.15
6	88	69	79	0	14	0.14
7	88	69	79	0	14	0.14
8	88	69	79	0	14	0.14
9	88	69	79	0	14	0.14
10	88	69	78	0	13	0.14
11	88	69	78	0	13	0.14
12	88	69	78	0	13	0.14
13	88	69	78	0	13	0.14
14	88	69	78	0	13	0.14
15	88	69	78	0	13	0.14
16	87	68	78	0	13	0.14
17	87	68	78	0	13	0.14
18	87	68	78	0	13	0.14
19	87	67	77	0	12	0.14
20	87	67	77	0	12	0.14
21	87	67	77	0	12	0.14
22	87	67	77	0	12	0.14
23	87	67	77	0	12	0.14
24	86	67	77	0	12	0.14
25	86	67	77	0	12	0.14
26	86	66	76	0	11	0.14
27	86	66	76	0	11	0.14
28	86	66	76	0	11	0.14
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	87.4	67.9	77.7	0	393	4.39

SUMMER SEASON: 87.5 67.4 77.5 1 1151 13.73

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	66	76	0	11	0.14
2	85	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	84	65	75	0	10	0.15
8	84	65	74	0	9	0.15
9	84	65	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	82	63	73	0	8	0.15
16	82	62	72	0	7	0.15
17	82	62	72	0	7	0.15
18	82	62	72	0	7	0.15
19	81	62	72	0	7	0.14
20	81	61	71	0	6	0.14
21	81	60	71	0	6	0.14
22	80	60	70	1	6	0.14
23	80	60	70	1	6	0.14
24	80	59	69	1	5	0.14
25	80	58	69	1	5	0.14
26	79	58	69	1	5	0.14
27	79	57	68	2	5	0.14
28	78	57	68	2	5	0.14
29	78	56	67	2	4	0.14
30	78	56	67	2	4	0.13
MTH	82.1	62.0	72.1	13	225	4.32

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	55	66	3	4	0.13
2	78	55	66	3	4	0.13
3	77	54	65	3	3	0.13
4	76	54	65	3	3	0.13
5	76	54	65	3	3	0.13
6	75	53	64	4	3	0.13
7	75	53	64	4	3	0.13
8	74	52	63	4	2	0.13
9	74	52	63	4	2	0.13
10	74	52	63	4	2	0.12
11	73	51	62	5	2	0.12
12	73	51	62	5	2	0.12
13	73	50	62	5	2	0.12
14	73	50	62	5	2	0.12
15	72	50	61	5	1	0.12
16	72	49	61	5	1	0.12
17	71	49	60	6	1	0.12
18	71	49	60	6	1	0.12
19	71	48	60	6	1	0.12
20	70	48	59	7	1	0.12
21	70	48	59	7	1	0.12
22	70	47	59	7	1	0.12
23	70	47	59	7	1	0.12
24	70	47	59	7	1	0.12
25	69	47	58	7	0	0.12
26	68	46	57	8	0	0.12
27	68	46	57	8	0	0.11
28	68	46	57	8	0	0.11
29	68	46	57	8	0	0.11
30	67	45	56	9	0	0.11
31	67	45	56	9	0	0.11
MTH	72.0	49.7	60.9	175	47	3.76

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	67	45	56	10	1	0.12
2	67	45	56	10	1	0.12
3	67	45	56	10	1	0.12
4	66	45	55	11	1	0.12
5	66	44	55	11	1	0.12
6	66	44	55	11	1	0.12
7	66	44	55	11	1	0.11
8	65	43	54	11	0	0.11
9	65	43	54	11	0	0.11
10	64	43	54	11	0	0.11
11	63	43	53	12	0	0.11
12	63	43	53	12	0	0.11
13	63	43	53	12	0	0.11
14	63	42	53	12	0	0.11
15	62	42	52	13	0	0.11
16	62	42	52	13	0	0.11
17	62	42	52	13	0	0.11
18	61	41	51	14	0	0.11
19	61	41	51	14	0	0.11
20	61	41	51	14	0	0.11
21	61	41	51	14	0	0.11
22	60	40	50	15	0	0.11
23	60	40	50	15	0	0.11
24	60	40	50	15	0	0.11
25	59	39	49	16	0	0.11
26	59	39	49	16	0	0.11
27	59	39	49	16	0	0.10
28	58	38	48	17	0	0.10
29	58	38	48	17	0	0.10
30	57	38	48	17	0	0.10
MTH	62.4	41.8	52.1	394	7	3.32

AUTUMN SEASON: 72.1 51.2 61.7 582 279 11.40

ANNUAL: 70.8 49.9 60.4 3246 1590 47.97

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

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

Station Name: JACKSON SPRINGS 5 WNW NORTH CAROLINA Station Number: 314464

Latitude: 35° 13* 00(Longitude: -079° 44* 00(Elevation (feet): 730

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.89	0.68	0.78	0.13	0.55	0.31	0.46	0.50	0.06	0.00	0.35	0.50	31.86
0.010	1.07	0.82	0.96	0.19	0.68	0.42	0.61	0.65	0.10	0.00	0.46	0.62	33.20
0.050	1.71	1.31	1.58	0.49	1.16	0.90	1.22	1.21	0.38	0.46	0.88	1.06	37.06
0.100	2.14	1.65	2.01	0.76	1.49	1.29	1.70	1.63	0.68	0.93	1.19	1.38	39.24
0.200	2.76	2.14	2.65	1.23	1.98	1.92	2.45	2.26	1.25	1.56	1.67	1.84	42.00
0.300	3.28	2.55	3.18	1.67	2.40	2.48	3.11	2.81	1.85	2.10	2.09	2.23	44.06
0.400	3.78	2.94	3.69	2.12	2.80	3.05	3.77	3.35	2.51	2.64	2.51	2.61	45.88
0.500	4.29	3.34	4.22	2.62	3.21	3.65	4.47	3.92	3.26	3.21	2.95	3.01	47.62
0.600	4.84	3.78	4.79	3.19	3.67	4.33	5.25	4.55	4.15	3.86	3.43	3.44	49.41
0.700	5.47	4.29	5.46	3.89	4.20	5.15	6.18	5.29	5.27	4.63	4.01	3.94	51.37
0.800	6.29	4.93	6.32	4.83	4.88	6.22	7.40	6.26	6.81	5.66	4.75	4.59	53.73
0.900	7.54	5.93	7.65	6.36	5.94	7.94	9.33	7.78	9.38	7.29	5.93	5.60	57.12
0.950	8.69	6.84	8.87	7.82	6.92	9.56	11.14	9.19	11.91	8.84	7.04	6.54	60.02
0.990	11.13	8.78	11.48	11.09	9.01	13.13	15.10	12.26	17.69	12.25	9.43	8.54	65.72
0.995	12.12	9.57	12.54	12.46	9.87	14.61	16.74	13.52	20.15	13.67	10.41	9.35	67.90

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: LINCOLNTON 4 W NORTH CAROLINA Station Number: 314996

Latitude: 35 B 28 * 00 (Longitude: -081 B 20* 00 (Elevation (feet): 900

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	56	35	45	20	0	0.12
2	56	35	45	20	0	0.12
3	56	34	45	20	0	0.11
4	56	34	45	20	0	0.11
5	56	33	44	21	0	0.11
6	56	33	44	21	0	0.11
7	55	33	44	21	0	0.12
8	54	33	44	21	0	0.12
9	54	32	43	22	0	0.12
10	54	32	43	22	0	0.12
11	53	32	43	22	0	0.12
12	53	32	43	22	0	0.12
13	52	32	42	23	0	0.12
14	52	32	42	23	0	0.12
15	52	32	42	23	0	0.12
16	52	31	42	23	0	0.12
17	52	31	42	23	0	0.12
18	51	31	41	24	0	0.12
19	51	31	41	24	0	0.12
20	51	31	41	24	0	0.12
21	51	31	41	24	0	0.12
22	51	31	41	24	0	0.12
23	51	30	41	24	0	0.12
24	51	30	41	24	0	0.12
25	50	30	40	25	0	0.12
26	50	30	40	25	0	0.13
27	50	30	40	25	0	0.13
28	50	30	40	25	0	0.13
29	50	30	40	25	0	0.13
30	50	30	40	25	0	0.13
31	50	30	40	25	0	0.13
MTH	52.5	31.7	42.1	710	0	3.74

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	50	30	40	25	0	0.13
2	50	30	40	25	0	0.13
3	50	30	40	25	0	0.13
4	50	30	40	25	0	0.14
5	50	30	40	25	0	0.14
6	50	30	40	25	0	0.14
7	49	30	39	26	0	0.14
8	49	30	39	26	0	0.14
9	49	30	39	26	0	0.14
10	49	29	39	26	0	0.14
11	49	29	39	26	0	0.14
12	49	29	39	26	0	0.14
13	49	29	39	26	0	0.14
14	49	29	39	26	0	0.14
15	49	29	39	26	0	0.14
16	50	29	39	26	0	0.14
17	50	29	39	26	0	0.14
18	50	29	40	25	0	0.14
19	50	29	40	25	0	0.14
20	50	29	40	25	0	0.14
21	50	29	40	25	0	0.14
22	50	29	40	25	0	0.14
23	50	29	40	25	0	0.14
24	50	29	40	25	0	0.14
25	51	29	40	25	0	0.14
26	51	29	40	25	0	0.14
27	51	29	40	25	0	0.14
28	51	29	40	25	0	0.14
29	51	29	40	25	0	0.14
30	51	30	41	24	0	0.14
31	52	30	41	24	0	0.13
MTH	50.0	29.4	39.7	784	0	4.30

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	30	41	24	0	0.13
2	52	30	41	24	0	0.13
3	52	30	41	24	0	0.13
4	52	30	41	24	0	0.13
5	52	30	41	24	0	0.13
6	53	30	41	24	0	0.13
7	53	30	42	23	0	0.13
8	53	30	42	23	0	0.13
9	54	30	42	23	0	0.13
10	54	31	42	23	0	0.13
11	54	31	42	23	0	0.13
12	54	31	43	22	0	0.13
13	54	31	43	22	0	0.13
14	55	31	43	22	0	0.13
15	55	31	43	22	0	0.13
16	55	31	43	22	0	0.13
17	56	32	44	21	0	0.13
18	56	32	44	21	0	0.14
19	56	32	44	21	0	0.14
20	56	32	44	21	0	0.14
21	57	33	45	20	0	0.14
22	57	33	45	20	0	0.14
23	57	33	45	20	0	0.14
24	57	33	45	20	0	0.14
25	58	34	46	19	0	0.15
26	58	34	46	19	0	0.15
27	58	34	46	19	0	0.15
28	59	35	47	18	0	0.15
MTH	55.0	31.6	43.3	608	0	3.79

WINTER SEASON: 52.5 30.9 41.7 2102 0 11.83

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	35	47	18	0	0.15
2	59	35	47	18	0	0.16
3	59	36	47	18	0	0.16
4	60	36	48	17	0	0.16
5	61	36	48	17	0	0.16
6	61	36	48	17	0	0.16
7	61	37	49	16	0	0.16
8	61	37	49	16	0	0.16
9	61	37	49	16	0	0.16
10	61	37	49	16	*	0.16
11	62	38	50	15	*	0.16
12	62	38	50	15	*	0.16
13	62	39	51	15	*	0.17
14	63	39	51	15	*	0.16
15	63	39	51	14	*	0.16
16	63	39	51	14	*	0.16
17	63	39	51	14	*	0.16
18	64	39	52	13	0	0.16
19	64	40	52	13	0	0.16
20	64	40	52	13	0	0.16
21	65	40	53	12	0	0.16
22	65	40	53	12	0	0.16
23	66	40	53	12	0	0.16
24	66	40	53	12	0	0.15
25	66	41	54	11	0	0.15
26	66	41	54	11	0	0.15
27	67	41	54	11	0	0.15
28	67	41	54	11	0	0.14
29	67	42	55	10	0	0.14
30	68	42	55	10	0	0.14
31	68	42	55	10	0	0.13
MTH	63.4	38.8	51.1	432	2	4.83

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	42	55	10	0	0.13
2	70	43	56	9	0	0.13
3	70	43	56	9	0	0.12
4	70	43	56	9	0	0.12
5	70	43	56	9	0	0.12
6	70	43	57	8	0	0.12
7	70	44	57	8	0	0.11
8	70	44	57	8	0	0.11
9	70	44	57	8	0	0.11
10	71	44	58	7	0	0.11
11	71	44	58	7	0	0.11
12	71	45	58	7	0	0.11
13	71	45	58	7	0	0.11
14	72	45	59	6	0	0.11
15	72	45	59	6	0	0.11
16	72	46	59	6	0	0.10
17	72	46	59	6	0	0.10
18	73	46	60	6	1	0.10
19	73	46	60	6	1	0.11
20	73	47	60	6	1	0.11
21	74	47	61	5	1	0.11
22	74	47	61	5	1	0.11
23	74	48	61	5	1	0.11
24	74	48	61	5	1	0.11
25	74	48	61	5	1	0.11
26	75	48	62	4	1	0.11
27	75	49	62	4	1	0.12
28	75	49	62	4	1	0.12
29	75	49	62	4	1	0.12
30	75	49	62	4	1	0.12
MTH	72.2	45.7	59.0	193	13	3.39

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	75	51	63	4	2	0.13
2	76	51	63	4	2	0.13
3	76	52	64	3	2	0.13
4	76	52	64	3	2	0.13
5	76	52	64	3	2	0.14
6	77	52	64	3	2	0.14
7	77	52	64	3	2	0.14
8	77	53	65	2	2	0.14
9	77	53	65	2	2	0.15
10	77	54	65	2	2	0.15
11	78	54	66	2	3	0.15
12	78	54	66	2	3	0.15
13	78	54	66	2	3	0.15
14	78	54	66	2	3	0.15
15	78	54	66	2	3	0.15
16	78	55	67	2	4	0.15
17	79	55	67	2	4	0.15
18	79	55	67	2	4	0.15
19	79	56	68	1	4	0.16
20	79	56	68	1	4	0.16
21	80	56	68	1	4	0.16
22	80	56	68	1	4	0.16
23	80	57	69	1	5	0.15
24	80	57	69	1	5	0.15
25	81	57	69	1	5	0.15
26	81	57	69	1	5	0.15
27	81	57	69	1	5	0.15
28	81	58	70	1	6	0.15
29	82	58	70	1	6	0.15
30	82	58	70	1	6	0.15
31	82	59	71	0	6	0.15
MTH	78.7	54.8	66.8	57	112	4.57

SPRING SEASON: 71.4 46.4 59.0 682 127 12.79

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

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

Station Name: LINCOLNTON 4 W NORTH CAROLINA Station Number: 314996

Latitude: 35 B 28 * 00 (Longitude: -081 B 20 * 00 (Elevation (feet): 900

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	82	59	71	0	6	0.14
2	83	60	71	*	7	0.14
3	83	60	71	*	7	0.14
4	83	60	72	*	7	0.14
5	83	61	72	*	7	0.14
6	83	61	72	*	7	0.14
7	84	61	73	0	8	0.14
8	84	61	73	0	8	0.14
9	84	62	73	0	8	0.13
10	84	62	73	0	8	0.13
11	84	62	73	0	8	0.13
12	85	62	74	0	9	0.13
13	85	62	74	0	9	0.13
14	85	63	74	0	9	0.13
15	85	63	74	0	9	0.13
16	85	63	74	0	9	0.13
17	85	63	74	0	9	0.13
18	86	63	75	0	10	0.13
19	86	64	75	0	10	0.13
20	86	64	75	0	10	0.13
21	86	64	75	0	10	0.13
22	86	64	75	0	10	0.13
23	86	64	75	0	10	0.13
24	87	65	76	0	11	0.13
25	87	65	76	0	11	0.13
26	87	65	76	0	11	0.13
27	87	65	76	0	11	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
MTH	85.1	62.8	74.0	2	272	3.98

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	66	77	0	12	0.13
2	88	66	77	0	12	0.13
3	88	66	77	0	12	0.13
4	88	66	77	0	12	0.13
5	88	67	77	0	12	0.13
6	88	67	77	0	12	0.13
7	88	67	77	0	12	0.13
8	88	67	77	0	12	0.13
9	88	67	77	0	12	0.13
10	88	67	77	0	12	0.13
11	88	67	78	0	13	0.13
12	88	67	78	0	13	0.13
13	89	67	78	0	13	0.13
14	89	67	78	0	13	0.13
15	89	67	78	0	13	0.13
16	89	67	78	0	13	0.13
17	89	67	78	0	13	0.13
18	89	67	78	0	13	0.13
19	89	67	78	0	13	0.13
20	89	67	78	0	13	0.13
21	89	67	78	0	13	0.13
22	89	67	78	0	13	0.13
23	89	67	78	0	13	0.12
24	89	67	78	0	13	0.12
25	89	67	78	0	13	0.12
26	89	67	78	0	13	0.12
27	89	67	78	0	13	0.12
28	89	67	78	0	13	0.12
29	88	67	78	0	13	0.12
30	88	67	78	0	13	0.12
31	88	67	78	0	13	0.12
MTH	88.5	66.9	77.7	0	393	3.94

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	67	78	0	13	0.13
2	88	67	78	0	13	0.13
3	88	67	78	0	13	0.13
4	88	67	78	0	13	0.12
5	88	67	78	0	13	0.12
6	88	67	78	0	13	0.12
7	88	67	77	0	12	0.12
8	88	67	77	0	12	0.12
9	88	67	77	0	12	0.12
10	88	67	77	0	12	0.12
11	88	67	77	0	12	0.12
12	88	67	77	0	12	0.12
13	88	67	77	0	12	0.12
14	88	67	77	0	12	0.12
15	87	66	77	0	12	0.12
16	87	65	76	0	11	0.12
17	87	65	76	0	11	0.12
18	87	65	76	0	11	0.12
19	87	65	76	0	11	0.12
20	86	65	76	0	11	0.12
21	86	65	76	0	11	0.12
22	86	65	76	0	11	0.12
23	86	64	75	0	10	0.12
24	86	64	75	0	10	0.12
25	86	64	75	0	10	0.13
26	86	64	75	0	10	0.13
27	85	64	75	0	10	0.13
28	84	64	74	0	9	0.13
29	84	64	74	0	9	0.13
30	84	64	74	0	9	0.13
31	84	64	74	0	9	0.13
MTH	86.8	65.7	76.3	0	349	3.82

SUMMER SEASON:	86.8	65.1	76.0	2	1014	11.74

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	64	74	0	9	0.13
2	84	63	73	0	8	0.13
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	73	0	8	0.13
7	84	63	73	0	8	0.13
8	83	62	72	0	7	0.13
9	83	61	72	0	7	0.13
10	83	61	72	0	7	0.13
11	82	61	72	0	7	0.13
12	82	60	71	0	6	0.13
13	82	60	71	0	6	0.13
14	82	60	71	0	6	0.13
15	81	60	71	0	6	0.13
16	81	60	71	0	6	0.13
17	81	59	70	0	5	0.13
18	81	59	70	0	5	0.13
19	80	59	70	1	6	0.13
20	80	58	69	1	5	0.13
21	80	58	69	1	5	0.13
22	79	58	69	1	5	0.13
23	79	57	68	1	4	0.13
24	79	57	68	1	4	0.13
25	78	56	67	2	4	0.14
26	78	56	67	2	4	0.14
27	78	55	67	2	4	0.14
28	78	55	67	2	4	0.14
29	77	54	66	2	3	0.14
30	77	54	66	2	3	0.14
MTH	81.1	59.4	70.3	18	176	3.96

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	54	65	3	3	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	75	52	63	4	2	0.14
6	75	52	63	4	2	0.14
7	75	51	63	4	2	0.14
8	74	50	62	5	2	0.14
9	74	50	62	5	2	0.14
10	74	49	62	5	2	0.14
11	74	49	62	5	2	0.14
12	73	48	61	5	1	0.14
13	73	47	60	6	1	0.14
14	73	47	60	6	1	0.14
15	72	47	60	6	1	0.14
16	72	46	59	7	1	0.14
17	72	46	59	7	1	0.14
18	71	46	59	7	1	0.13
19	71	45	58	8	1	0.13
20	71	45	58	8	1	0.13
21	70	45	58	8	1	0.13
22	70	45	58	8	1	0.13
23	70	45	58	8	1	0.13
24	69	44	57	8	0	0.13
25	68	44	56	9	0	0.13
26	68	44	56	9	0	0.13
27	68	44	56	9	0	0.13
28	68	43	56	9	0	0.13
29	67	43	55	10	0	0.13
30	67	43	55	10	0	0.13
31	67	42	55	10	0	0.13
MTH	71.8	47.3	59.6	202	35	4.20

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	67	42	55	11	1	0.13
2	67	42	54	11	0	0.13
3	66	42	54	11	0	0.13
4	65	42	54	11	0	0.13
5	65	42	53	12	0	0.12
6	65	42	53	12	0	0.12
7	64	41	53	12	0	0.12
8	64	40	52	13	0	0.12
9	64	40	52	13	0	0.12
10	63	40	52	13	0	0.12
11	63	39	51	14	0	0.12
12	63	39	51	14	0	0.12
13	62	39	51	14	0	0.12
14	62	39	51	14	0	0.12
15	61	39	50	15	0	0.12
16	61	39	50	15	0	0.12
17	61	38	50	15	0	0.12
18	60	38	49	16	0	0.12
19	60	38	49	16	0	0.12
20	60	38	49	16	0	0.12
21	59	37	48	17	0	0.12
22	59	37	48	17	0	0.12
23	59	37	48	17	0	0.12
24	59	37	48	17	0	0.12
25	58	36	47	18	0	0.12
26	58	36	47	18	0	0.12
27	58	36	47	18	0	0.12
28	57	35	46	19	0	0.12
29	57	35	46	19	0	0.12
30	57	35	46	19	0	0.12
MTH	61.5	38.7	50.1	447	1	3.64

AUTUMN SEASON:	71.5	48.4	60.0	667	212	11.80
ANNUAL:	70.6	47.7	59.2	3453	1353	48.16

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

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

Station Name: LINCOLNTON 4 W NORTH CAROLINA Station Number: 314996

Latitude: 35° 28* 00(Longitude: -081° 20* 00(Elevation (feet): 900

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.51	0.47	1.03	0.22	0.56	0.52	0.42	0.26	0.24	0.00	0.58	0.49	31.78
0.010	0.66	0.60	1.23	0.31	0.72	0.66	0.55	0.36	0.34	0.00	0.71	0.62	33.14
0.050	1.21	1.09	1.90	0.68	1.31	1.18	1.04	0.79	0.77	0.25	1.20	1.11	37.06
0.100	1.62	1.45	2.34	0.99	1.74	1.56	1.42	1.14	1.13	0.65	1.54	1.47	39.27
0.200	2.24	1.99	2.98	1.49	2.40	2.12	1.99	1.70	1.71	1.30	2.05	2.00	42.07
0.300	2.77	2.47	3.50	1.94	2.97	2.61	2.49	2.21	2.25	1.92	2.48	2.46	44.17
0.400	3.30	2.92	4.00	2.41	3.52	3.09	2.98	2.73	2.79	2.57	2.90	2.91	46.02
0.500	3.85	3.40	4.51	2.90	4.10	3.59	3.50	3.28	3.37	3.30	3.32	3.37	47.80
0.600	4.46	3.93	5.06	3.46	4.74	4.13	4.07	3.90	4.03	4.14	3.79	3.89	49.62
0.700	5.17	4.56	5.69	4.13	5.49	4.78	4.75	4.65	4.82	5.18	4.34	4.49	51.62
0.800	6.10	5.37	6.49	5.02	6.47	5.61	5.64	5.64	5.87	6.58	5.04	5.27	54.02
0.900	7.56	6.64	7.73	6.45	8.00	6.91	7.04	7.21	7.56	8.90	6.13	6.49	57.48
0.950	8.92	7.82	8.85	7.80	9.43	8.12	8.34	8.71	9.16	11.15	7.14	7.63	60.44
0.990	11.86	10.37	11.23	10.78	12.51	10.73	11.18	12.00	12.69	16.21	9.29	10.07	66.27
0.995	13.07	11.41	12.19	12.02	13.77	11.80	12.34	13.37	14.16	18.36	10.17	11.07	68.49

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: MONROE 4 SE NORTH CAROLINA Station Number: 315771

Latitude: 34 B 58 * 00 (Longitude: -080 B 30* 00 (Elevation (feet): 580

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	36	47	18	0	0.11
2	59	36	47	18	0	0.10
3	59	36	47	18	0	0.10
4	58	35	46	19	0	0.10
5	58	35	46	19	0	0.11
6	57	35	46	19	0	0.11
7	57	35	46	19	0	0.11
8	56	34	45	20	0	0.11
9	56	34	45	20	0	0.11
10	56	34	45	20	0	0.11
11	56	34	45	20	0	0.11
12	55	34	45	20	0	0.11
13	55	33	44	21	0	0.11
14	55	33	44	21	0	0.11
15	55	33	44	21	0	0.11
16	55	33	44	21	0	0.11
17	54	33	44	21	0	0.11
18	54	32	43	22	0	0.11
19	54	32	43	22	0	0.12
20	54	32	43	22	0	0.12
21	54	32	43	22	0	0.12
22	53	32	43	22	0	0.12
23	53	32	43	22	0	0.12
24	52	32	42	23	0	0.12
25	52	32	42	23	0	0.12
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	31	42	23	0	0.13
30	52	31	42	23	0	0.13
31	52	31	42	23	0	0.14
MTH	54.8	33.2	44.0	651	0	3.58
				WINTER SEASON:		

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	31	42	23	0	0.14
2	52	31	42	23	0	0.14
3	52	31	42	23	0	0.14
4	52	31	42	23	0	0.14
5	52	31	41	24	0	0.15
6	52	31	41	24	0	0.15
7	52	31	41	24	0	0.15
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	52	31	41	24	0	0.15
12	52	31	41	24	0	0.16
13	52	31	41	24	0	0.16
14	51	31	41	24	0	0.16
15	51	31	41	24	0	0.16
16	51	31	41	24	0	0.16
17	51	31	41	24	0	0.16
18	51	31	41	24	0	0.16
19	51	31	41	24	0	0.16
20	51	31	41	24	0	0.16
21	52	31	42	23	0	0.16
22	52	31	42	23	0	0.16
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	31	42	23	0	0.15
29	53	31	42	23	0	0.15
30	53	31	42	23	0	0.15
31	53	31	42	23	0	0.14
MTH	52.0	31.0	41.5	729	0	4.71
	54.5	32.5	43.5	1940	0	12.10

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	31	42	23	0	0.14
2	54	31	43	22	0	0.14
3	54	32	43	22	0	0.14
4	54	32	43	22	0	0.14
5	54	32	43	22	0	0.14
6	54	32	43	22	0	0.14
7	55	32	43	22	0	0.13
8	55	32	44	21	0	0.13
9	55	32	44	21	0	0.13
10	56	32	44	21	0	0.13
11	56	32	44	21	0	0.13
12	56	32	44	21	0	0.13
13	56	32	44	21	0	0.13
14	57	33	45	20	0	0.13
15	57	33	45	20	0	0.13
16	57	33	45	20	0	0.13
17	57	33	45	20	0	0.13
18	58	34	46	19	0	0.13
19	58	34	46	19	0	0.13
20	58	34	46	19	0	0.14
21	58	34	46	19	0	0.14
22	59	34	47	18	0	0.14
23	59	35	47	18	0	0.14
24	59	35	47	18	0	0.14
25	59	35	47	18	0	0.14
26	60	36	48	17	0	0.14
27	60	36	48	17	0	0.15
28	60	36	48	17	0	0.15
MTH	56.8	33.2	45.0	560	0	3.81

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	61	36	48	17	0	0.15
2	61	36	48	17	0	0.15
3	61	37	49	16	0	0.16
4	61	37	49	16	0	0.16
5	62	37	49	16	0	0.16
6	62	38	50	15	0	0.16
7	62	38	50	15	0	0.16
8	62	38	50	15	0	0.16
9	63	38	50	15	0	0.16
10	63	40	51	14	0	0.16
11	63	40	51	14	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	40	52	13	0	0.16
16	65	41	53	13	*	0.16
17	66	41	54	12	*	0.16
18	66	41	54	12	*	0.16
19	66	41	54	12	*	0.16
20	66	41	54	12	*	0.16
21	66	42	54	11	0	0.16
22	66	42	54	11	0	0.16
23	67	42	55	10	0	0.16
24	67	42	55	10	0	0.15
25	68	42	55	10	0	0.15
26	68	42	55	10	0	0.15
27	68	43	56	9	0	0.15
28	68	43	56	9	0	0.14
29	69	43	56	9	0	0.14
30	69	43	56	9	0	0.14
31	69	44	57	8	0	0.13
MTH	64.9	40.3	52.6	389	5	4.85
				SPRING SEASON:		

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	71	44	57	8	0	0.13
2	71	44	57	8	0	0.13
3	71	44	57	8	0	0.12
4	71	44	57	8	0	0.12
5	71	45	58	7	0	0.12
6	71	45	58	7	0	0.11
7	72	45	58	7	0	0.11
8	72	45	58	7	0	0.11
9	72	45	59	6	0	0.11
10	72	46	59	6	0	0.10
11	72	46	59	6	0	0.10
12	72	46	59	6	0	0.10
13	73	46	60	5	0	0.10
14	73	47	60	5	0	0.10
15	74	47	61	5	1	0.10
16	74	47	61	5	1	0.09
17	74	47	61	5	1	0.09
18	74	48	61	5	1	0.09
19	74	48	61	5	1	0.09
20	74	48	61	5	1	0.09
21	75	49	62	4	1	0.09
22	75	49	62	4	1	0.09
23	75	49	62	4	1	0.09
24	76	49	63	3	1	0.09
25	76	50	63	3	1	0.09
26	76	50	63	3	1	0.09
27	76	51	64	3	2	0.09
28	76	51	64	3	2	0.09
29	77	51	64	3	2	0.09
30	77	51	64	3	2	0.10
MTH	73.6	47.2	60.4	157	20	3.02
	72.8	47.9	60.4	585	160	11.40

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	52	64	3	2	0.10
2	77	52	64	3	2	0.10
3	78	53	65	2	2	0.10
4	78	53	65	2	2	0.10
5	78	53	65	2	2	0.10
6	78	53	66	2	3	0.10
7	78	54	66	2	3	0.10
8	78	54	66	2	3	0.10
9	78	54	66	2	3	0.11
10	78	54	66	2	3	0.11
11	79	54	66	2	3	0.11
12	79	55	67	2	4	0.11
13	79	56	68	1	4	0.11
14	80	56	68	1	4	0.11
15	80	56	68	1	4	0.11
16	80	56	68	1	4	0.11
17	80	56	68	1	4	0.11
18	80	57	69	1	5	0.12
19	81	57	69	1	5	0.12
20	81	57	69	1	5	0.12
21	81	57	69	1	5	0.12
22	81	57	69	1	5	0.12
23	82	58	70	1	6	0.12
24	82	58	70	1	6	0.12
25	82	58	70	1	6	0.12
26	82	59	71	0	6	0.13
27	83	59	71	0	6	0.13
28	83	60	72	0	7	0.13
29	83	60	72	0	7	0.13
30	83	60	72	0	7	0.13
31	83	60	72	0	7	0.13
MTH	80.1	56.1	68.1	39	135	3.53

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

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

Station Name: MONROE 4 SE NORTH CAROLINA Station Number: 315771

Latitude: 34 B 58 * 00 (Longitude: -080 B 30* 00 (Elevation (feet): 580

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	60	72	1	8	0.13
2	84	61	72	1	8	0.13
3	85	61	73	0	8	0.13
4	85	61	73	0	8	0.14
5	85	61	73	0	8	0.14
6	85	62	74	0	9	0.14
7	85	62	74	0	9	0.14
8	85	63	74	0	9	0.14
9	86	63	74	0	9	0.14
10	86	63	74	0	9	0.14
11	86	63	75	0	10	0.14
12	86	63	75	0	10	0.14
13	86	64	75	0	10	0.14
14	86	64	75	0	10	0.14
15	86	64	75	0	10	0.14
16	87	64	76	0	11	0.15
17	87	65	76	0	11	0.15
18	87	65	76	0	11	0.15
19	87	65	76	0	11	0.15
20	87	65	76	0	11	0.15
21	87	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	88	66	77	0	12	0.15
28	89	67	78	0	13	0.15
29	89	67	78	0	13	0.15
30	89	67	78	0	13	0.15
MTH	86.6	64.1	75.4	2	313	4.32

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	68	78	0	13	0.15
2	89	70	79	0	14	0.15
3	89	70	79	0	14	0.15
4	89	69	79	0	14	0.15
5	89	68	79	0	14	0.15
6	89	68	79	0	14	0.15
7	89	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	90	68	79	0	14	0.15
13	90	68	79	0	14	0.15
14	90	68	79	0	14	0.15
15	90	68	79	0	14	0.15
16	90	68	79	0	14	0.15
17	90	68	79	0	14	0.15
18	90	68	79	0	14	0.15
19	90	68	79	0	14	0.15
20	90	68	79	0	14	0.15
21	90	68	79	0	14	0.15
22	90	68	79	0	14	0.15
23	90	68	79	0	14	0.15
24	90	68	79	0	14	0.15
25	90	68	79	0	14	0.15
26	90	68	79	0	14	0.15
27	90	68	79	0	14	0.15
28	90	68	79	0	14	0.15
29	90	68	79	0	14	0.15
30	89	68	79	0	14	0.14
31	89	68	79	0	14	0.14
MTH	89.7	68.2	79.0	0	433	4.63
SUMMER SEASON:	88.1	66.3	77.2	2	1127	13.48

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	68	79	0	14	0.15
2	89	68	79	0	14	0.15
3	89	68	79	0	14	0.15
4	89	68	79	0	14	0.15
5	89	68	79	0	14	0.15
6	89	68	79	0	14	0.15
7	89	68	78	0	13	0.15
8	89	68	78	0	13	0.15
9	89	68	78	0	13	0.15
10	89	68	78	0	13	0.15
11	89	68	78	0	13	0.14
12	88	68	78	0	13	0.14
13	88	68	78	0	13	0.14
14	88	68	78	0	13	0.14
15	88	67	78	0	13	0.14
16	88	66	77	0	12	0.14
17	88	66	77	0	12	0.14
18	88	66	77	0	12	0.14
19	88	66	77	0	12	0.14
20	88	66	77	0	12	0.14
21	87	66	77	0	12	0.14
22	87	66	77	0	12	0.14
23	87	65	76	0	11	0.15
24	87	65	76	0	11	0.15
25	87	65	76	0	11	0.15
26	87	65	76	0	11	0.15
27	87	65	76	0	11	0.15
28	86	65	76	0	11	0.15
29	86	65	75	0	10	0.15
30	86	65	75	0	10	0.15
31	86	65	75	0	10	0.15
MTH	87.9	66.7	77.3	0	381	4.53

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	65	75	0	10	0.15
2	86	65	75	0	10	0.15
3	86	65	75	0	10	0.15
4	85	64	74	0	9	0.15
5	85	64	74	0	9	0.15
6	85	64	74	0	9	0.15
7	85	64	74	0	9	0.15
8	84	63	74	0	9	0.15
9	84	62	73	0	8	0.15
10	84	62	73	0	8	0.15
11	84	62	73	0	8	0.15
12	84	62	73	0	8	0.15
13	83	62	73	0	8	0.15
14	83	61	72	0	7	0.15
15	83	61	72	0	7	0.15
16	83	61	72	0	7	0.15
17	82	61	72	0	7	0.15
18	82	60	71	0	6	0.15
19	82	60	71	0	6	0.14
20	82	59	71	0	6	0.14
21	81	59	70	1	6	0.14
22	81	59	70	1	6	0.14
23	80	58	69	1	5	0.14
24	80	58	69	1	5	0.14
25	80	57	69	1	5	0.14
26	80	57	69	1	5	0.14
27	80	56	68	1	4	0.14
28	79	56	68	1	4	0.14
29	79	55	67	2	4	0.14
30	79	55	67	2	4	0.14
MTH	82.6	60.6	71.6	12	209	4.38
AUTUMN SEASON:	73.1	49.4	61.3	593	255	11.75
ANNUAL:	72.1	49.0	60.6	3120	1542	48.73

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	78	55	67	2	4	0.14
2	78	55	66	2	3	0.14
3	77	54	65	3	3	0.14
4	77	54	65	3	3	0.14
5	77	54	65	3	3	0.14
6	77	52	65	3	3	0.14
7	76	51	64	3	2	0.14
8	76	50	63	4	2	0.14
9	76	50	63	4	2	0.14
10	75	50	63	4	2	0.13
11	75	49	62	5	2	0.13
12	75	49	62	5	2	0.13
13	74	49	62	5	2	0.13
14	74	48	61	5	1	0.13
15	74	48	61	5	1	0.13
16	73	47	60	6	1	0.13
17	73	47	60	6	1	0.13
18	73	47	60	6	1	0.13
19	72	46	59	7	1	0.13
20	72	46	59	7	1	0.13
21	72	46	59	7	1	0.13
22	71	45	58	8	1	0.13
23	71	45	58	8	1	0.13
24	71	45	58	8	1	0.12
25	70	44	57	8	0	0.12
26	70	44	57	8	0	0.12
27	70	44	57	8	0	0.12
28	69	44	57	8	0	0.12
29	69	43	56	9	0	0.12
30	69	43	56	9	0	0.12
31	68	43	56	9	0	0.12
MTH	73.3	48.0	60.7	178	44	4.04

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	68	43	56	10	1	0.12
2	68	43	56	10	1	0.12
3	68	43	55	10	0	0.12
4	68	43	55	10	0	0.12
5	66	43	54	11	0	0.12
6	66	43	54	11	0	0.11
7	66	42	54	11	0	0.11
8	66	41	54	11	0	0.11
9	66	41	53	12	0	0.11
10	65	41	53	12	0	0.11
11	65	41	53	12	0	0.11
12	65	40	53	12	0	0.11
13	64	40	52	13	0	0.11
14	64	40	52	13	0	0.11
15	64	40	52	13	0	0.11
16	63	39	51	14	0	0.11
17	63	39	51	14	0	0.11
18	63	39	51	14	0	0.11
19	62	39	51	14	0	0.11
20	62	38	50	15	0	0.11
21	62	38	50	15	0	0.11
22	62	38	50	15	0	0.11
23	61	38	50	15	0	0.11
24	61	37	49	16	0	0.11
25	61	37	49	16	0	0.11
26	60	37	49	16	0	0.11
27	60	36	48	17	0	0.11
28	60	36	48	17	0	0.11
29	59	36	48	17	0	0.10
30	59	36	48	17	0	0.10
MTH	63.6	39.6	51.6	403	2	3.33

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

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

Station Name: MONROE 4 SE NORTH CAROLINA Station Number: 315771

Latitude: 34° 58* 00(Longitude: -080° 30* 00(Elevation (feet): 580

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.72	0.48	0.79	0.21	0.48	0.47	0.38	0.21	0.07	0.00	0.46	0.35	33.63
0.010	0.90	0.61	0.97	0.28	0.61	0.61	0.51	0.30	0.11	0.00	0.57	0.46	34.91
0.050	1.53	1.10	1.63	0.62	1.07	1.15	1.06	0.75	0.40	0.00	1.01	0.90	38.56
0.100	1.98	1.46	2.09	0.90	1.41	1.56	1.49	1.15	0.71	0.63	1.33	1.24	40.61
0.200	2.63	2.01	2.76	1.34	1.91	2.19	2.17	1.81	1.30	1.43	1.80	1.76	43.19
0.300	3.19	2.48	3.33	1.75	2.34	2.73	2.78	2.43	1.90	2.08	2.21	2.22	45.12
0.400	3.73	2.94	3.88	2.16	2.76	3.27	3.39	3.07	2.57	2.72	2.60	2.68	46.81
0.500	4.29	3.42	4.44	2.59	3.19	3.84	4.03	3.76	3.32	3.40	3.01	3.16	48.44
0.600	4.90	3.95	5.06	3.09	3.67	4.47	4.75	4.56	4.22	4.16	3.46	3.69	50.09
0.700	5.62	4.58	5.78	3.68	4.23	5.21	5.62	5.53	5.34	5.06	3.99	4.33	51.91
0.800	6.54	5.39	6.70	4.46	4.95	6.18	6.76	6.82	6.87	6.27	4.67	5.16	54.09
0.900	7.97	6.66	8.14	5.71	6.08	7.70	8.56	8.92	9.44	8.23	5.74	6.47	57.21
0.950	9.29	7.84	9.46	6.89	7.13	9.13	10.26	10.92	11.96	10.09	6.73	7.70	59.87
0.990	12.12	10.40	12.28	9.50	9.38	12.22	13.99	15.38	17.70	14.22	8.87	10.37	65.09
0.995	13.28	11.44	13.43	10.58	10.31	13.49	15.53	17.25	20.14	15.95	9.74	11.47	67.07

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: MOUNT HOLLY 4 NE NORTH CAROLINA Station Number: 315913

Latitude: 35 B 19 * 58 (Longitude: -080 B 59* 14 (Elevation (feet): 610

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
3						0.11
4						0.11
5						0.11
6						0.11
7						0.10
8						0.10
9						0.10
10						0.10
11						0.10
12						0.10
13						0.10
14						0.10
15						0.10
16						0.10
17						0.10
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
31						0.11
MTH						3.30
					WINTER SEASON:	

JANUARY

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						0.13
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						0.13
29						0.13
30						0.13
31						0.13
MTH						3.93
						11.06

FEBRUARY

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						0.14
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						0.15
27						0.15
28						0.15
MTH						3.83

MARCH

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						0.15
9						0.15
10						0.16
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						0.14
23						0.14
24						0.14
25						0.14
26						0.14
27						0.13
28						0.13
29						0.13
30						0.13
31						0.12
MTH						4.50
					SPRING SEASON:	

APRIL

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						0.11
8						0.10
9						0.10
10						0.10
11						0.10
12						0.10
13						0.10
14						0.10
15						0.10
16						0.09
17						0.09
18						0.09
19						0.09
20						0.09
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						0.11
MTH						3.05
						11.43

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
3						0.11
4						0.11
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						0.13
26						0.13
27						0.13
28						0.13
29						0.13
30						0.13
31						0.13
MTH						3.88

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

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

Station Name: MOUNT HOLLY 4 NE NORTH CAROLINA Station Number: 315913

Latitude: 35 B 19 * 58 (Longitude: -080 B 59* 14 (Elevation (feet): 610

Climate Division: NC 05 Southern Piedmont

JUNE

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						0.12
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						0.13
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
MTH						3.81
					SUMMER SEASON:	

JULY

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						0.13
24						0.13
25						0.12
26						0.12
27						0.12
28						0.12
29						0.12
30						0.12
31						0.12
MTH						3.96
						10.91

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
3						0.11
4						0.10
5						0.10
6						0.10
7						0.10
8						0.10
9						0.10
10						0.10
11						0.10
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						0.10
24						0.10
25						0.10
26						0.10
27						0.10
28						0.10
29						0.10
30						0.10
31						0.11
MTH						3.14

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
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						0.13
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						0.12
30						0.12
MTH						3.63
					AUTUMN SEASON:	
					ANNUAL:	

OCTOBER

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						0.12
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
31						0.12
MTH						3.74
						10.81
						44.21

NOVEMBER

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						0.11
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						3.44

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

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

Station Name: MOUNT HOLLY 4 NE NORTH CAROLINA Station Number: 315913

Latitude: 35° 19* 58 (Longitude: -080° 59* 14(Elevation (feet): 610

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.89	0.57	0.60	0.33	0.30	0.43	0.31	0.11	0.13	0.00	0.75	0.51	27.85
0.010	1.04	0.71	0.75	0.43	0.41	0.56	0.42	0.16	0.20	0.00	0.89	0.63	29.19
0.050	1.59	1.22	1.35	0.81	0.86	1.04	0.88	0.44	0.53	0.29	1.37	1.07	33.06
0.100	1.95	1.59	1.77	1.10	1.22	1.40	1.25	0.70	0.83	0.69	1.68	1.39	35.26
0.200	2.46	2.12	2.41	1.54	1.79	1.95	1.83	1.15	1.35	1.30	2.13	1.85	38.05
0.300	2.88	2.58	2.97	1.93	2.30	2.43	2.35	1.59	1.86	1.85	2.51	2.24	40.16
0.400	3.28	3.03	3.50	2.31	2.81	2.90	2.88	2.05	2.38	2.42	2.86	2.62	42.02
0.500	3.68	3.48	4.06	2.71	3.36	3.39	3.43	2.55	2.96	3.04	3.22	3.01	43.82
0.600	4.12	3.98	4.68	3.15	3.98	3.94	4.06	3.13	3.62	3.75	3.61	3.44	45.66
0.700	4.62	4.57	5.40	3.68	4.71	4.59	4.81	3.84	4.43	4.62	4.05	3.94	47.68
0.800	5.26	5.33	6.34	4.36	5.68	5.43	5.79	4.80	5.53	5.79	4.62	4.58	50.13
0.900	6.23	6.51	7.80	5.44	7.23	6.75	7.36	6.36	7.31	7.69	5.49	5.58	53.66
0.950	7.12	7.60	9.16	6.44	8.69	7.98	8.83	7.87	9.03	9.52	6.29	6.51	56.69
0.990	8.99	9.93	12.09	8.63	11.89	10.65	12.07	11.25	12.87	13.61	7.96	8.49	62.68
0.995	9.74	10.88	13.29	9.53	13.21	11.75	13.41	12.67	14.49	15.33	8.64	9.30	64.97

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).

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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: NORWOOD 1 ENE NORTH CAROLINA Station Number: 316274

Latitude: 35° 14* 00(Longitude: -080° 06* 00(Elevation (feet): 290

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.10
2						0.10
3						0.10
4						0.10
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						0.12
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						0.13
26						0.13
27						0.13
28						0.13
29						0.13
30						0.13
31						0.13
MTH						3.61
					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						0.14
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						0.15
18						0.15
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						0.14
29						0.14
30						0.14
31						0.14
MTH						4.36
						11.70

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.14
2						0.14
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						0.14
23						0.14
24						0.14
25						0.14
26						0.14
27						0.14
28						0.14
MTH						3.73

MARCH

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						0.15
14						0.15
15						0.15
16						0.15
17						0.15
18						0.15
19						0.15
20						0.14
21						0.14
22						0.14
23						0.14
24						0.14
25						0.14
26						0.13
27						0.13
28						0.13
29						0.13
30						0.12
31						0.12
MTH						4.42
					SPRING SEASON:	

APRIL

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						0.11
8						0.10
9						0.10
10						0.10
11						0.10
12						0.10
13						0.10
14						0.10
15						0.10
16						0.09
17						0.09
18						0.09
19						0.09
20						0.09
21						0.09
22						0.09
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						3.02
						11.28

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1						0.11
2						0.11
3						0.11
4						0.11
5						0.11
6						0.11
7						0.11
8						0.12
9						0.12
10						0.12
11						0.12
12						0.12
13						0.12
14						0.12
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						0.13
29						0.13
30						0.14
31						0.14
MTH						3.84

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

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

Station Name: NORWOOD 1 ENE NORTH CAROLINA Station Number: 316274

Latitude: 35° 14* 00(Longitude: -080° 06* 00(Elevation (feet): 290

Climate Division: NC 05 Southern Piedmont

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						0.15	1						0.15
2						0.13	2						0.15	2						0.15
3						0.14	3						0.15	3						0.14
4						0.14	4						0.15	4						0.14
5						0.14	5						0.15	5						0.14
6						0.14	6						0.15	6						0.14
7						0.14	7						0.15	7						0.14
8						0.14	8						0.15	8						0.14
9						0.14	9						0.15	9						0.14
10						0.14	10						0.15	10						0.14
11						0.14	11						0.15	11						0.14
12						0.14	12						0.15	12						0.14
13						0.14	13						0.15	13						0.14
14						0.14	14						0.15	14						0.14
15						0.14	15						0.16	15						0.14
16						0.14	16						0.15	16						0.14
17						0.14	17						0.15	17						0.14
18						0.14	18						0.15	18						0.14
19						0.14	19						0.15	19						0.13
20						0.14	20						0.15	20						0.13
21						0.14	21						0.15	21						0.13
22						0.14	22						0.15	22						0.13
23						0.14	23						0.15	23						0.13
24						0.14	24						0.15	24						0.13
25						0.14	25						0.15	25						0.13
26						0.14	26						0.15	26						0.13
27						0.14	27						0.15	27						0.13
28						0.15	28						0.15	28						0.13
29						0.15	29						0.15	29						0.13
30						0.15	30						0.15	30						0.13
							31						0.15	31						0.13
MTH						4.21	MTH						4.66	MTH						4.23
						SUMMER SEASON:							13.10							

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						0.14	1						0.12
2						0.13	2						0.14	2						0.12
3						0.13	3						0.14	3						0.12
4						0.13	4						0.14	4						0.12
5						0.13	5						0.14	5						0.12
6						0.12	6						0.14	6						0.11
7						0.12	7						0.14	7						0.11
8						0.12	8						0.15	8						0.11
9						0.12	9						0.15	9						0.11
10						0.12	10						0.15	10						0.11
11						0.12	11						0.15	11						0.11
12						0.12	12						0.15	12						0.10
13						0.13	13						0.15	13						0.10
14						0.13	14						0.15	14						0.10
15						0.13	15						0.15	15						0.10
16						0.13	16						0.15	16						0.10
17						0.13	17						0.14	17						0.10
18						0.13	18						0.14	18						0.10
19						0.13	19						0.14	19						0.10
20						0.13	20						0.14	20						0.10
21						0.13	21						0.14	21						0.10
22						0.13	22						0.14	22						0.10
23						0.13	23						0.14	23						0.10
24						0.13	24						0.14	24						0.10
25						0.13	25						0.14	25						0.10
26						0.13	26						0.13	26						0.10
27						0.13	27						0.13	27						0.10
28						0.14	28						0.13	28						0.10
29						0.14	29						0.13	29						0.10
30						0.14	30						0.13	30						0.10
							31						0.13							
MTH						3.86	MTH						4.37	MTH						3.16
						AUTUMN SEASON:							11.39							
						ANNUAL:							47.47							

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

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

Station Name: NORWOOD 1 ENE NORTH CAROLINA Station Number: 316274

Latitude: 35° 14* 00(Longitude: -080° 06* 00(Elevation (feet): 290

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.59	0.51	0.78	0.30	0.61	0.56	0.44	0.64	0.00	0.04	0.33	0.63	31.09
0.010	0.74	0.64	0.95	0.40	0.75	0.70	0.58	0.79	0.00	0.08	0.43	0.77	32.44
0.050	1.31	1.13	1.55	0.77	1.26	1.25	1.15	1.36	0.47	0.31	0.82	1.26	36.36
0.100	1.73	1.49	1.97	1.05	1.63	1.65	1.58	1.76	0.95	0.59	1.12	1.60	38.57
0.200	2.35	2.02	2.57	1.49	2.16	2.25	2.26	2.35	1.60	1.15	1.58	2.10	41.37
0.300	2.88	2.47	3.08	1.88	2.62	2.77	2.87	2.86	2.15	1.75	1.98	2.51	43.47
0.400	3.40	2.91	3.57	2.26	3.05	3.27	3.46	3.34	2.70	2.42	2.38	2.91	45.32
0.500	3.94	3.37	4.07	2.66	3.50	3.80	4.10	3.85	3.29	3.19	2.80	3.33	47.10
0.600	4.53	3.88	4.62	3.11	4.00	4.38	4.80	4.40	3.96	4.12	3.27	3.77	48.92
0.700	5.23	4.47	5.26	3.64	4.58	5.05	5.64	5.05	4.76	5.30	3.82	4.30	50.93
0.800	6.13	5.24	6.07	4.34	5.32	5.93	6.74	5.88	5.81	6.94	4.54	4.97	53.34
0.900	7.54	6.44	7.34	5.44	6.47	7.31	8.47	7.18	7.49	9.70	5.68	6.00	56.81
0.950	8.85	7.55	8.50	6.46	7.53	8.58	10.10	8.38	9.09	12.43	6.74	6.96	59.78
0.990	11.67	9.94	10.97	8.70	9.81	11.33	13.66	10.95	12.61	18.70	9.06	8.99	65.63
0.995	12.82	10.92	11.97	9.62	10.74	12.46	15.12	12.00	14.07	21.39	10.01	9.82	67.86

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
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Abbreviations:

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NOTES

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PRCP = Precipitation Amount (inches)

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Daily Normals Tables:

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Precipitation Probabilities and Quintiles Tables:

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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: SHELBY 2 NNE NORTH CAROLINA Station Number: 317845

Latitude: 35 B 18 * 52 (Longitude: -081 B 32* 01 (Elevation (feet): 920

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	55	33	44	21	0	0.12
2	55	33	44	21	0	0.12
3	54	33	43	22	0	0.12
4	54	32	43	22	0	0.12
5	54	32	43	22	0	0.12
6	54	31	43	22	0	0.12
7	54	31	42	23	0	0.12
8	54	31	42	23	0	0.12
9	53	31	42	23	0	0.12
10	53	31	42	23	0	0.12
11	52	31	42	23	0	0.12
12	52	30	41	24	0	0.12
13	52	30	41	24	0	0.12
14	52	30	41	24	0	0.12
15	51	30	41	24	0	0.12
16	51	29	40	25	0	0.12
17	51	29	40	25	0	0.12
18	51	29	40	25	0	0.12
19	51	29	40	25	0	0.12
20	50	29	40	25	0	0.12
21	50	29	40	25	0	0.12
22	50	28	39	26	0	0.12
23	50	28	39	26	0	0.12
24	50	28	39	26	0	0.13
25	50	28	39	26	0	0.13
26	49	28	39	26	0	0.13
27	49	28	39	26	0	0.13
28	49	28	39	26	0	0.13
29	49	28	39	26	0	0.13
30	48	28	38	27	0	0.13
31	48	28	38	27	0	0.13
MTH	51.5	29.8	40.7	753	0	3.80
				WINTER SEASON:		

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	48	28	38	27	0	0.13
2	48	28	38	27	0	0.13
3	48	28	38	27	0	0.13
4	48	28	38	27	0	0.14
5	48	28	38	27	0	0.14
6	48	28	38	27	0	0.14
7	48	28	38	27	0	0.14
8	49	28	38	27	0	0.14
9	49	27	38	27	0	0.14
10	49	27	38	27	0	0.14
11	49	27	38	27	0	0.14
12	49	27	38	27	0	0.14
13	49	27	38	27	0	0.14
14	49	27	38	27	0	0.14
15	49	27	38	27	0	0.14
16	49	27	38	27	0	0.14
17	49	27	38	27	0	0.14
18	49	27	38	27	0	0.14
19	49	27	38	27	0	0.14
20	49	27	38	27	0	0.14
21	49	27	38	27	0	0.14
22	49	27	38	27	0	0.14
23	49	27	38	27	0	0.14
24	49	27	38	27	0	0.14
25	49	27	38	27	0	0.14
26	49	27	38	27	0	0.14
27	49	28	39	26	0	0.14
28	49	28	39	26	0	0.14
29	50	28	39	26	0	0.14
30	50	28	39	26	0	0.14
31	50	28	39	26	0	0.14
MTH	48.9	27.4	38.2	832	0	4.31
	51.3	28.9	40.2	2240	0	11.95

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	51	28	39	26	0	0.14
2	51	28	39	26	0	0.14
3	51	28	39	26	0	0.13
4	51	28	39	26	0	0.13
5	52	28	40	25	0	0.13
6	52	28	40	25	0	0.13
7	52	28	40	25	0	0.13
8	53	28	40	25	0	0.13
9	53	28	40	25	0	0.13
10	53	28	41	24	0	0.13
11	53	29	41	24	0	0.13
12	53	29	41	24	0	0.13
13	53	29	41	24	0	0.13
14	53	29	41	24	0	0.13
15	54	29	42	23	0	0.13
16	54	29	42	23	0	0.14
17	54	30	42	23	0	0.14
18	54	30	42	23	0	0.14
19	54	30	42	23	0	0.14
20	55	30	43	22	0	0.14
21	55	31	43	22	0	0.14
22	55	31	43	22	0	0.14
23	55	31	43	22	0	0.14
24	56	31	44	21	0	0.15
25	56	32	44	21	0	0.15
26	56	32	44	21	0	0.15
27	57	32	45	20	0	0.15
28	57	32	45	20	0	0.15
MTH	53.7	29.5	41.6	655	0	3.84

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	58	33	45	20	0	0.15
2	58	33	45	20	0	0.16
3	58	34	46	19	0	0.16
4	58	35	46	19	0	0.16
5	58	35	46	19	0	0.16
6	59	35	47	18	0	0.16
7	59	35	47	18	0	0.16
8	60	35	47	18	0	0.16
9	60	35	47	18	0	0.16
10	60	35	48	17	0	0.17
11	60	35	48	17	0	0.17
12	61	35	48	17	0	0.17
13	61	35	48	17	0	0.17
14	61	36	49	16	0	0.17
15	62	36	49	16	0	0.16
16	62	36	49	16	0	0.16
17	62	37	50	15	0	0.16
18	62	37	50	15	0	0.16
19	63	37	50	15	0	0.16
20	63	37	50	15	0	0.16
21	63	38	51	14	0	0.16
22	63	38	51	14	0	0.16
23	64	38	51	14	0	0.16
24	64	38	51	14	0	0.15
25	64	39	52	13	0	0.15
26	65	39	52	13	0	0.15
27	65	39	52	13	0	0.15
28	65	39	52	13	0	0.14
29	65	39	52	13	0	0.14
30	66	40	53	12	0	0.14
31	66	40	53	12	0	0.13
MTH	61.8	36.6	49.2	490	0	4.87
				SPRING SEASON:		

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	66	41	53	12	0	0.13
2	66	41	53	12	0	0.13
3	68	41	54	11	0	0.12
4	68	41	54	11	0	0.12
5	68	41	54	11	0	0.12
6	68	41	54	11	0	0.12
7	68	42	55	10	0	0.11
8	68	42	55	10	0	0.11
9	68	42	55	10	0	0.11
10	68	42	55	10	0	0.11
11	69	42	56	9	0	0.11
12	69	43	56	9	0	0.11
13	69	43	56	9	0	0.11
14	69	43	56	9	0	0.10
15	70	44	57	8	0	0.10
16	70	44	57	8	0	0.10
17	70	44	57	8	0	0.10
18	71	44	58	7	0	0.10
19	71	45	58	7	0	0.11
20	71	45	58	7	0	0.11
21	71	45	58	7	0	0.11
22	71	45	58	7	0	0.11
23	71	45	58	7	0	0.11
24	72	46	59	7	1	0.11
25	72	47	60	6	1	0.11
26	72	47	60	6	1	0.12
27	73	47	60	6	1	0.12
28	73	47	60	6	1	0.12
29	73	48	61	5	1	0.12
30	73	48	61	5	1	0.13
MTH	69.9	43.9	56.9	251	7	3.39
	69.5	44.7	57.1	817	94	13.01

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	74	49	61	5	1	0.13
2	74	49	61	5	1	0.13
3	74	50	62	4	1	0.14
4	75	50	62	4	1	0.14
5	75	50	62	4	1	0.14
6	75	50	62	4	1	0.14
7	75	51	63	4	2	0.15
8	75	51	63	4	2	0.15
9	75	52	64	3	2	0.15
10	76	52	64	3	2	0.15
11	76	52	64	3	2	0.15
12	76	52	64	3	2	0.16
13	76	53	65	2	2	0.16
14	76	53	65	2	2	0.16
15	77	54	66	2	3	0.16
16	77	54	66	2	3	0.16
17	77	54	66	2	3	0.16
18	77	54	66	2	3	0.16
19	78	54	66	2	3	0.16
20	78	54	66	2	3	0.16
21	78	55	66	2	3	0.16
22	78	56	67	2	4	0.16
23	78	56	67	2	4	0.16
24	79	56	68	1	4	0.16
25	79	57	68	1	4	0.16
26	79	57	68	1	4	0.16
27	79	57	68	1	4	0.16
28	80	57	69	1	5	0.16
29	80	58	69	1	5	0.16
30	80	58	69	1	5	0.15
31	80	58	69	1	5	0.15
MTH	77.0	53.7	65.4	76	87	4.75

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

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

Station Name: SHELBY 2 NNE NORTH CAROLINA Station Number: 317845

Latitude: 35 B 18 * 52 (Longitude: -081 B 32 * 01 (Elevation (feet): 920

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	81	59	70	1	6	0.15
2	81	59	70	1	6	0.15
3	81	59	70	1	6	0.15
4	81	59	70	1	6	0.15
5	81	59	70	1	6	0.15
6	82	59	70	1	6	0.14
7	82	60	71	1	7	0.14
8	83	60	72	0	7	0.14
9	83	60	72	0	7	0.14
10	83	61	72	0	7	0.14
11	83	61	72	0	7	0.14
12	83	61	72	0	7	0.14
13	83	62	73	0	8	0.14
14	84	62	73	0	8	0.13
15	84	62	73	0	8	0.13
16	84	62	73	0	8	0.13
17	84	62	73	0	8	0.13
18	84	62	73	0	8	0.13
19	85	63	74	0	9	0.13
20	85	63	74	0	9	0.13
21	85	63	74	0	9	0.13
22	85	63	74	0	9	0.13
23	85	63	74	0	9	0.13
24	85	63	74	0	9	0.13
25	86	64	75	0	10	0.13
26	86	64	75	0	10	0.13
27	86	64	75	0	10	0.13
28	86	64	75	0	10	0.13
29	86	64	75	0	10	0.13
30	86	64	75	0	10	0.13
MTH	83.8	61.7	72.8	7	240	4.08

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	86	65	76	0	11	0.13
2	87	66	76	0	11	0.13
3	87	66	76	0	11	0.13
4	87	66	76	0	11	0.13
5	87	66	76	0	11	0.13
6	87	66	76	0	11	0.13
7	87	66	77	0	12	0.13
8	87	66	77	0	12	0.13
9	87	66	77	0	12	0.13
10	87	66	77	0	12	0.13
11	87	66	77	0	12	0.13
12	88	66	77	0	12	0.13
13	88	66	77	0	12	0.13
14	88	66	77	0	12	0.13
15	88	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	0.13
20	88	66	77	0	12	0.13
21	88	66	77	0	12	0.13
22	88	66	77	0	12	0.14
23	88	66	77	0	12	0.14
24	88	66	77	0	12	0.14
25	88	66	77	0	12	0.14
26	88	66	77	0	12	0.14
27	88	66	77	0	12	0.14
28	88	66	77	0	12	0.14
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	87.6	66.0	76.8	0	366	4.13
SUMMER SEASON:	85.9	64.1	75.0	7	930	12.62

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	88	66	77	0	12	0.14
2	88	66	77	0	12	0.14
3	88	66	77	0	12	0.14
4	88	66	77	0	12	0.14
5	87	66	77	0	12	0.14
6	87	66	77	0	12	0.14
7	87	66	77	0	12	0.14
8	87	66	77	0	12	0.14
9	87	66	76	0	11	0.14
10	87	66	76	0	11	0.14
11	87	66	76	0	11	0.15
12	87	66	76	0	11	0.15
13	87	66	76	0	11	0.15
14	87	66	76	0	11	0.15
15	87	65	76	0	11	0.15
16	86	65	76	0	11	0.15
17	86	65	76	0	11	0.15
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	0.14
22	86	64	75	0	10	0.14
23	85	64	75	0	10	0.14
24	85	63	74	0	9	0.14
25	85	63	74	0	9	0.14
26	85	63	74	0	9	0.14
27	85	63	74	0	9	0.14
28	84	63	74	0	9	0.14
29	84	62	73	0	8	0.14
30	84	62	73	0	8	0.14
31	84	62	73	0	8	0.14
MTH	86.2	64.7	75.5	0	324	4.41

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	62	73	0	8	0.13
2	83	62	72	0	7	0.13
3	83	62	72	0	7	0.13
4	83	61	72	0	7	0.13
5	83	61	72	0	7	0.13
6	83	61	72	0	7	0.13
7	83	60	71	0	6	0.13
8	82	60	71	0	6	0.13
9	82	60	71	0	6	0.13
10	82	60	71	0	6	0.13
11	81	60	71	0	6	0.13
12	81	59	70	0	5	0.13
13	81	59	70	0	5	0.13
14	81	59	70	0	5	0.13
15	80	59	70	0	5	0.13
16	80	59	70	0	5	0.13
17	80	58	69	0	4	0.13
18	79	57	68	1	4	0.13
19	79	57	68	1	4	0.13
20	79	57	68	1	4	0.13
21	78	57	68	1	4	0.13
22	78	56	67	1	3	0.13
23	78	55	67	1	3	0.13
24	78	54	66	2	3	0.13
25	78	54	66	2	3	0.13
26	77	54	66	2	3	0.13
27	77	53	65	3	3	0.13
28	77	53	65	3	3	0.13
29	76	52	64	3	2	0.13
30	76	52	64	3	2	0.13
MTH	80.1	57.8	69.0	24	143	3.90

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	76	51	63	3	1	0.13
2	75	51	63	4	2	0.13
3	75	50	62	4	1	0.13
4	75	49	62	5	2	0.13
5	74	49	62	5	2	0.13
6	74	49	62	5	2	0.13
7	74	48	61	5	1	0.13
8	73	48	61	5	1	0.13
9	73	47	60	6	1	0.13
10	73	47	60	6	1	0.13
11	72	47	60	6	1	0.13
12	72	46	59	7	1	0.13
13	72	46	59	7	1	0.13
14	71	45	58	8	1	0.13
15	71	45	58	8	1	0.13
16	71	45	58	8	1	0.13
17	70	45	58	8	1	0.13
18	70	45	58	8	1	0.13
19	70	44	57	8	0	0.13
20	69	43	56	9	0	0.13
21	69	43	56	9	0	0.13
22	69	43	56	9	0	0.13
23	68	42	55	10	0	0.13
24	68	42	55	10	0	0.13
25	68	42	55	10	0	0.13
26	67	41	54	11	0	0.13
27	67	41	54	11	0	0.13
28	67	41	54	11	0	0.13
29	67	40	54	11	0	0.13
30	66	40	53	12	0	0.13
31	66	40	53	12	0	0.13
MTH	70.7	45.0	57.9	241	22	4.03
AUTUMN SEASON:	70.5	46.3	58.5	760	167	11.62
ANNUAL:	69.3	46.0	57.7	3824	1191	49.20

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	66	40	53	12	0	0.13
2	66	40	53	13	*	0.13
3	65	40	52	13	*	0.13
4	65	40	52	13	*	0.13
5	65	40	52	13	*	0.13
6	65	38	51	14	*	0.13
7	64	38	51	14	0	0.13
8	63	38	51	14	0	0.13
9	63	37	50	15	0	0.13
10	63	37	50	15	0	0.12
11	62	37	50	15	0	0.12
12	62	37	50	15	0	0.12
13	61	37	49	16	0	0.12
14	61	37	49	16	0	0.12
15	61	36	49	16	*	0.12
16	60	36	48	17	*	0.12
17	60	36	48	17	*	0.12
18	60	36	48	17	*	0.12
19	59	36	48	18	*	0.12
20	59	35	47	18	*	0.12
21	59	35	47	18	*	0.12
22	59	35	47	18	*	0.12
23	58	34	46	19	*	0.12
24	58	34	46	19	0	0.12
25	58	34	46	19	0	0.12
26	57	33	45	20	0	0.12
27	57	33	45	20	0	0.12
28	56	33	45	20	0	0.12
29	56	33	45	20	0	0.12
30	55	33	44	21	0	0.12
MTH	60.8	36.3	48.6	495	2	3.69

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

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

Station Name: SHELBY 2 NNE NORTH CAROLINA Station Number: 317845

Latitude: 35B 18* 52(Longitude: -081B 32* 01(Elevation (feet): 920

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.41	0.61	0.79	0.17	0.56	0.00	0.18	0.22	0.19	0.00	0.43	0.52	29.04
0.010	0.54	0.75	0.97	0.25	0.72	0.00	0.26	0.31	0.28	0.00	0.55	0.65	30.65
0.050	1.06	1.27	1.63	0.60	1.33	0.63	0.67	0.76	0.67	0.11	1.03	1.15	35.34
0.100	1.47	1.64	2.09	0.89	1.79	1.17	1.02	1.15	1.01	0.39	1.38	1.51	38.04
0.200	2.10	2.17	2.77	1.39	2.47	1.87	1.62	1.79	1.58	0.94	1.91	2.05	41.48
0.300	2.65	2.62	3.34	1.85	3.06	2.43	2.19	2.40	2.12	1.52	2.37	2.51	44.10
0.400	3.20	3.06	3.89	2.33	3.64	3.00	2.78	3.01	2.67	2.16	2.82	2.96	46.41
0.500	3.79	3.51	4.46	2.84	4.25	3.59	3.42	3.69	3.26	2.90	3.30	3.43	48.65
0.600	4.44	4.00	5.08	3.42	4.92	4.24	4.15	4.45	3.94	3.79	3.82	3.95	50.96
0.700	5.21	4.58	5.80	4.13	5.72	5.02	5.05	5.39	4.76	4.92	4.45	4.55	53.51
0.800	6.22	5.32	6.73	5.08	6.75	6.03	6.24	6.63	5.86	6.50	5.25	5.33	56.60
0.900	7.83	6.47	8.17	6.61	8.37	7.64	8.18	8.64	7.63	9.15	6.52	6.55	61.08
0.950	9.33	7.53	9.50	8.06	9.87	9.14	10.04	10.55	9.33	11.78	7.70	7.68	64.95
0.990	12.60	9.79	12.33	11.29	13.13	12.43	14.18	14.81	13.09	17.81	10.26	10.12	72.64
0.995	13.96	10.72	13.49	12.65	14.47	13.79	15.92	16.60	14.66	20.39	11.31	11.11	75.59

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: WADESBORO NORTH CAROLINA Station Number: 318964

Latitude: 34 B 57 * 37 (Longitude: -080 B 04 * 38 (Elevation (feet): 480

Climate Division: NC 05 Southern Piedmont

DECEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	59	38	48	17	0	0.10
2	59	38	48	17	0	0.10
3	59	37	48	17	0	0.10
4	57	37	47	18	0	0.09
5	57	37	47	18	0	0.09
6	57	36	47	18	0	0.09
7	56	36	46	19	0	0.09
8	56	36	46	19	0	0.10
9	56	36	46	19	0	0.10
10	56	35	46	19	0	0.10
11	55	35	45	20	0	0.10
12	55	35	45	20	0	0.10
13	55	35	45	20	0	0.10
14	55	34	45	20	0	0.10
15	54	34	44	21	0	0.10
16	54	34	44	21	0	0.10
17	54	34	44	21	0	0.10
18	54	34	44	21	0	0.10
19	54	34	44	21	0	0.10
20	53	33	43	22	0	0.11
21	53	33	43	22	0	0.11
22	53	33	43	22	0	0.11
23	53	33	43	22	0	0.11
24	53	33	43	22	0	0.11
25	52	33	43	22	0	0.12
26	52	32	42	23	0	0.12
27	52	32	42	23	0	0.12
28	52	32	42	23	0	0.12
29	52	32	42	23	0	0.13
30	52	32	42	23	0	0.13
31	52	32	42	23	0	0.13
MTH	54.6	34.4	44.5	636	0	3.28

JANUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	52	32	42	23	0	0.13
2	52	32	42	23	0	0.14
3	52	32	42	23	0	0.14
4	51	32	42	23	0	0.14
5	51	32	42	23	0	0.14
6	51	32	42	23	0	0.15
7	51	32	41	24	0	0.15
8	51	31	41	24	0	0.15
9	51	31	41	24	0	0.15
10	51	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	0.16
14	51	31	41	24	0	0.16
15	51	31	41	24	0	0.16
16	51	31	41	24	0	0.16
17	51	31	41	24	0	0.16
18	51	31	41	24	0	0.16
19	51	32	42	23	0	0.16
20	51	32	42	23	0	0.16
21	52	32	42	23	0	0.16
22	52	32	42	23	0	0.15
23	52	32	42	23	0	0.15
24	52	32	42	23	0	0.15
25	52	32	42	23	0	0.15
26	52	32	42	23	0	0.15
27	52	32	42	23	0	0.15
28	52	32	42	23	0	0.15
29	52	32	42	23	0	0.15
30	52	32	42	23	0	0.14
31	52	32	42	23	0	0.14
MTH	51.5	31.7	41.6	725	0	4.66

FEBRUARY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	54	32	43	22	0	0.14
2	54	32	43	22	0	0.14
3	54	32	43	22	0	0.13
4	54	32	43	22	0	0.13
5	54	32	43	22	0	0.13
6	54	32	43	22	0	0.13
7	54	33	43	22	0	0.13
8	54	33	44	21	0	0.13
9	55	33	44	21	*	0.13
10	55	33	44	21	*	0.12
11	55	33	44	21	*	0.12
12	55	33	44	21	*	0.12
13	55	34	45	21	*	0.12
14	56	34	45	20	*	0.12
15	56	34	45	20	*	0.12
16	56	34	45	20	*	0.12
17	56	35	46	20	*	0.12
18	57	35	46	19	*	0.12
19	57	35	46	19	*	0.13
20	57	35	46	19	*	0.13
21	57	35	46	19	*	0.13
22	57	35	46	19	0	0.13
23	58	36	47	18	0	0.13
24	58	36	47	18	0	0.13
25	58	36	47	18	0	0.13
26	59	36	48	17	0	0.14
27	59	37	48	17	0	0.14
28	59	37	48	17	0	0.14
MTH	56.0	34.1	45.1	560	2	3.60

WINTER SEASON: 54.0 33.4 43.7 1921 2 11.54

MARCH

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	60	37	48	17	0	0.14
2	61	38	49	16	0	0.14
3	61	38	49	16	0	0.15
4	61	38	49	16	0	0.15
5	61	38	50	15	0	0.15
6	61	39	50	15	0	0.15
7	61	39	50	15	0	0.15
8	62	39	50	15	0	0.15
9	62	39	51	14	0	0.15
10	62	40	51	14	0	0.16
11	62	40	51	14	0	0.16
12	63	40	52	13	0	0.16
13	63	41	52	13	0	0.16
14	63	41	52	13	0	0.16
15	63	41	52	13	0	0.16
16	64	41	53	12	0	0.16
17	64	42	53	12	0	0.16
18	64	42	53	12	0	0.15
19	64	42	53	12	0	0.15
20	65	42	54	11	0	0.15
21	66	42	54	11	0	0.15
22	66	42	54	11	0	0.15
23	66	43	55	10	0	0.15
24	67	43	55	10	0	0.15
25	67	43	55	10	0	0.14
26	67	44	56	10	1	0.14
27	67	44	56	10	1	0.14
28	68	44	56	10	1	0.14
29	68	45	57	9	1	0.13
30	68	45	57	9	1	0.13
31	69	45	57	9	1	0.13
MTH	64.1	41.2	52.7	387	6	4.61

APRIL

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	70	45	57	8	0	0.12
2	70	45	57	8	0	0.12
3	70	45	57	8	0	0.12
4	70	46	58	7	0	0.12
5	70	46	58	7	0	0.11
6	70	46	58	7	0	0.11
7	71	46	59	7	1	0.11
8	71	47	59	7	1	0.10
9	72	47	59	7	1	0.10
10	72	47	60	6	1	0.10
11	72	47	60	6	1	0.10
12	72	47	60	6	1	0.10
13	73	47	60	6	1	0.10
14	73	48	61	5	1	0.09
15	73	48	61	5	1	0.09
16	73	49	61	5	1	0.09
17	73	49	61	5	1	0.09
18	74	49	62	4	1	0.09
19	74	49	62	4	1	0.09
20	75	49	62	4	1	0.09
21	75	49	62	4	1	0.09
22	75	50	62	4	1	0.09
23	75	51	63	4	2	0.09
24	75	51	63	4	2	0.09
25	75	52	64	3	2	0.09
26	76	52	64	3	2	0.09
27	76	52	64	3	2	0.09
28	76	52	64	3	2	0.09
29	77	53	65	2	2	0.09
30	77	53	65	2	2	0.09
MTH	73.2	48.6	60.9	154	32	2.94

MAY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	77	54	65	2	2	0.09
2	78	54	66	2	3	0.09
3	78	54	66	2	3	0.09
4	78	55	66	2	3	0.10
5	78	55	66	2	3	0.10
6	78	55	66	2	3	0.10
7	78	55	66	2	3	0.10
8	78	55	66	2	3	0.10
9	78	56	67	2	4	0.10
10	79	56	68	1	4	0.10
11	79	57	68	1	4	0.10
12	79	57	68	1	4	0.11
13	79	57	68	1	4	0.11
14	79	58	69	1	5	0.11
15	80	58	69	1	5	0.11
16	80	58	69	1	5	0.11
17	80	58	69	1	5	0.11
18	80	58	69	1	5	0.11
19	80	59	70	1	6	0.11
20	81	59	70	1	6	0.12
21	81	59	70	1	6	0.12
22	81	60	71	0	6	0.12
23	82	60	71	0	6	0.12
24	82	60	71	0	6	0.12
25	82	61	72	0	7	0.12
26	82	61	72	0	7	0.12
27	83	61	72	0	7	0.13
28	83	61	72	0	7	0.13
29	83	62	73	0	8	0.13
30	83	62	73	0	8	0.13
31	83	62	73	0	8	0.13
MTH	80.1	58.0	69.1	30	156	3.44

SPRING SEASON: 72.4 49.2 60.9 571 194 10.99

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

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

Station Name: WADESBORO NORTH CAROLINA Station Number: 318964

Latitude: 34 B 57 * 37 (Longitude: -080 B 04* 38 (Elevation (feet): 480

Climate Division: NC 05 Southern Piedmont

JUNE

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	84	63	73	0	8	0.13
2	85	63	74	0	9	0.13
3	85	63	74	0	9	0.14
4	85	64	74	0	9	0.14
5	85	64	74	0	9	0.14
6	85	64	74	0	9	0.14
7	85	64	75	0	10	0.14
8	85	64	75	0	10	0.14
9	86	64	75	0	10	0.14
10	86	64	75	0	10	0.15
11	86	65	76	0	11	0.15
12	86	65	76	0	11	0.15
13	86	66	76	0	11	0.15
14	86	66	76	0	11	0.15
15	86	66	76	0	11	0.15
16	87	66	77	0	12	0.15
17	87	67	77	0	12	0.15
18	87	67	77	0	12	0.16
19	87	67	77	0	12	0.16
20	87	67	77	0	12	0.16
21	88	67	78	0	13	0.16
22	88	68	78	0	13	0.16
23	88	68	78	0	13	0.16
24	88	68	78	0	13	0.16
25	88	68	78	0	13	0.16
26	88	68	78	0	13	0.16
27	89	69	79	0	14	0.17
28	89	69	79	0	14	0.17
29	89	69	79	0	14	0.17
30	89	69	79	0	14	0.17
MTH	86.7	66.1	76.4	0	342	4.56

JULY

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	89	69	79	0	14	0.17
2	89	70	79	0	14	0.17
3	89	70	79	0	14	0.17
4	90	70	80	0	15	0.17
5	90	70	80	0	15	0.17
6	90	70	80	0	15	0.17
7	90	70	80	0	15	0.17
8	90	70	80	0	15	0.17
9	90	70	80	0	15	0.17
10	90	70	80	0	15	0.18
11	90	70	80	0	15	0.18
12	90	70	80	0	15	0.18
13	90	70	80	0	15	0.18
14	90	70	80	0	15	0.17
15	90	70	80	0	15	0.17
16	90	71	81	0	16	0.17
17	91	71	81	0	16	0.17
18	91	71	81	0	16	0.17
19	91	71	81	0	16	0.17
20	91	71	81	0	16	0.17
21	91	71	81	0	16	0.17
22	91	71	81	0	16	0.17
23	91	71	81	0	16	0.17
24	91	71	81	0	16	0.17
25	90	71	81	0	16	0.17
26	90	71	81	0	16	0.17
27	90	71	81	0	16	0.16
28	90	70	80	0	15	0.16
29	90	70	80	0	15	0.16
30	90	70	80	0	15	0.16
31	90	70	80	0	15	0.16
MTH	90.2	70.4	80.3	0	474	5.26
SUMMER SEASON:	88.5	68.4	78.5	0	1240	14.23

AUGUST

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	90	70	80	0	15	0.15
2	90	70	80	0	15	0.15
3	90	70	80	0	15	0.15
4	90	70	80	0	15	0.15
5	90	70	80	0	15	0.15
6	90	70	80	0	15	0.15
7	90	70	80	0	15	0.15
8	89	70	80	0	15	0.14
9	89	70	80	0	15	0.14
10	89	70	80	0	15	0.14
11	89	70	79	0	14	0.14
12	89	70	79	0	14	0.14
13	89	70	79	0	14	0.14
14	89	69	79	0	14	0.14
15	89	69	79	0	14	0.14
16	89	69	79	0	14	0.14
17	88	69	79	0	14	0.14
18	88	69	79	0	14	0.14
19	88	68	78	0	13	0.14
20	88	68	78	0	13	0.14
21	88	68	78	0	13	0.14
22	88	68	78	0	13	0.14
23	88	68	78	0	13	0.14
24	88	68	78	0	13	0.14
25	87	67	77	0	12	0.14
26	87	67	77	0	12	0.14
27	87	67	77	0	12	0.14
28	87	67	77	0	12	0.14
29	87	67	77	0	12	0.14
30	87	67	77	0	12	0.14
31	87	67	77	0	12	0.14
MTH	88.5	68.8	78.7	0	424	4.41

SEPTEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	87	67	77	0	12	0.14
2	86	67	76	0	11	0.14
3	86	67	76	0	11	0.14
4	86	66	76	0	11	0.14
5	86	66	76	0	11	0.14
6	86	65	75	0	10	0.14
7	86	65	75	0	10	0.14
8	85	65	75	0	10	0.14
9	85	65	75	0	10	0.15
10	84	65	75	0	10	0.15
11	84	64	74	0	9	0.15
12	84	64	74	0	9	0.15
13	84	64	74	0	9	0.15
14	83	63	73	0	8	0.15
15	83	63	73	0	8	0.14
16	83	63	73	0	8	0.14
17	83	63	73	0	8	0.14
18	82	63	73	0	8	0.14
19	82	62	72	0	7	0.14
20	82	61	72	0	7	0.14
21	82	61	72	0	7	0.14
22	82	61	72	0	7	0.14
23	81	60	71	0	6	0.14
24	81	59	70	1	6	0.14
25	81	59	70	1	6	0.14
26	80	59	70	1	6	0.14
27	80	58	69	1	5	0.14
28	80	58	69	1	5	0.14
29	79	57	68	2	5	0.14
30	79	57	68	2	5	0.13
MTH	83.1	62.6	72.9	9	245	4.25
AUTUMN SEASON:	73.6	51.4	62.6	536	312	11.01
ANNUAL:	72.1	50.6	61.4	3028	1748	47.77

OCTOBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	79	57	68	2	5	0.13
2	78	57	67	2	4	0.13
3	78	56	67	3	5	0.13
4	77	54	66	3	4	0.13
5	77	53	65	3	3	0.13
6	77	53	65	3	3	0.13
7	76	53	65	3	3	0.13
8	76	52	64	4	3	0.12
9	76	52	64	4	3	0.12
10	75	51	63	4	2	0.12
11	75	51	63	4	2	0.12
12	75	51	63	4	2	0.12
13	74	50	62	5	2	0.12
14	74	50	62	5	2	0.12
15	74	50	62	5	2	0.12
16	73	50	62	5	2	0.12
17	73	49	61	5	1	0.12
18	73	49	61	5	1	0.12
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	71	47	59	7	1	0.11
23	71	47	59	7	1	0.11
24	71	47	59	7	1	0.11
25	71	47	59	7	1	0.11
26	70	46	58	8	1	0.11
27	70	46	58	8	1	0.11
28	70	46	58	8	1	0.11
29	69	45	57	8	0	0.11
30	69	45	57	8	0	0.11
31	69	45	57	8	0	0.11
MTH	73.5	49.8	61.7	163	59	3.66

NOVEMBER

Date	MAX	MIN	AVG	HDD	CDD	PRCP
1	69	45	57	9	1	0.11
2	69	45	57	9	1	0.11
3	68	45	56	10	1	0.11
4	68	45	56	10	1	0.11
5	68	45	56	10	1	0.11
6	67	45	56	10	1	0.11
7	67	44	56	10	1	0.11
8	67	44	56	10	1	0.11
9	66	44	55	10	0	0.11
10	66	43	55	10	0	0.11
11	65	43	54	11	0	0.10
12	65	43	54	11	0	0.10
13	65	43	54	11	0	0.10
14	65	43	54	11	0	0.10
15	64	42	53	12	0	0.10
16	64	42	53	12	0	0.10
17	64	42	53	12	0	0.10
18	64	42	53	12	0	0.10
19	63	41	52	13	0	0.10
20	63	41	52	13	0	0.10
21	62	41	52	13	0	0.10
22	62	40	51	14	0	0.10
23	62	40	51	14	0	0.10
24	61	40	51	14	0	0.10
25	61	39	50	15	0	0.10
26	61	39	50	15	0	0.10
27	60	39	50	15	0	0.10
28	60	38	49	16	0	0.10
29	60	38	49	16	0	0.10
30	59	38	49	16	0	0.10
MTH	64.2	42.0	53.1	364	8	3.10

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

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

Station Name: WADESBORO NORTH CAROLINA Station Number: 318964

Latitude: 34° 57* 37(Longitude: -080° 04* 38(Elevation (feet): 480

Climate Division: NC 05 Southern Piedmont

PRECIPITATION PROBABILITIES

Probability	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0.005	0.70	0.37	0.78	0.10	0.42	0.30	0.55	0.35	0.09	0.00	0.41	0.45	30.42
0.010	0.87	0.48	0.96	0.15	0.53	0.41	0.72	0.48	0.14	0.00	0.51	0.57	31.84
0.050	1.49	0.93	1.59	0.42	0.98	0.92	1.38	0.99	0.46	0.23	0.92	1.00	35.96
0.100	1.93	1.27	2.02	0.66	1.30	1.33	1.87	1.40	0.78	0.59	1.21	1.31	38.29
0.200	2.59	1.79	2.66	1.08	1.80	2.00	2.64	2.05	1.37	1.16	1.65	1.78	41.26
0.300	3.15	2.25	3.19	1.49	2.23	2.61	3.31	2.63	1.96	1.70	2.04	2.17	43.49
0.400	3.69	2.71	3.70	1.92	2.65	3.23	3.97	3.21	2.60	2.27	2.41	2.56	45.46
0.500	4.25	3.19	4.23	2.38	3.08	3.90	4.66	3.83	3.31	2.89	2.79	2.96	47.36
0.600	4.86	3.72	4.81	2.92	3.57	4.65	5.43	4.52	4.15	3.62	3.22	3.41	49.30
0.700	5.58	4.35	5.48	3.59	4.14	5.55	6.35	5.35	5.19	4.52	3.72	3.93	51.44
0.800	6.50	5.18	6.34	4.48	4.88	6.75	7.54	6.44	6.61	5.73	4.36	4.60	54.03
0.900	7.94	6.48	7.67	5.94	6.04	8.67	9.42	8.17	8.96	7.72	5.37	5.65	57.75
0.950	9.27	7.70	8.90	7.35	7.12	10.48	11.17	9.80	11.25	9.64	6.31	6.62	60.95
0.990	12.12	10.34	11.52	10.50	9.46	14.49	14.99	13.38	16.43	13.98	8.34	8.71	67.25
0.995	13.28	11.43	12.58	11.82	10.42	16.16	16.56	14.87	18.62	15.81	9.17	9.57	69.67

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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