

2003

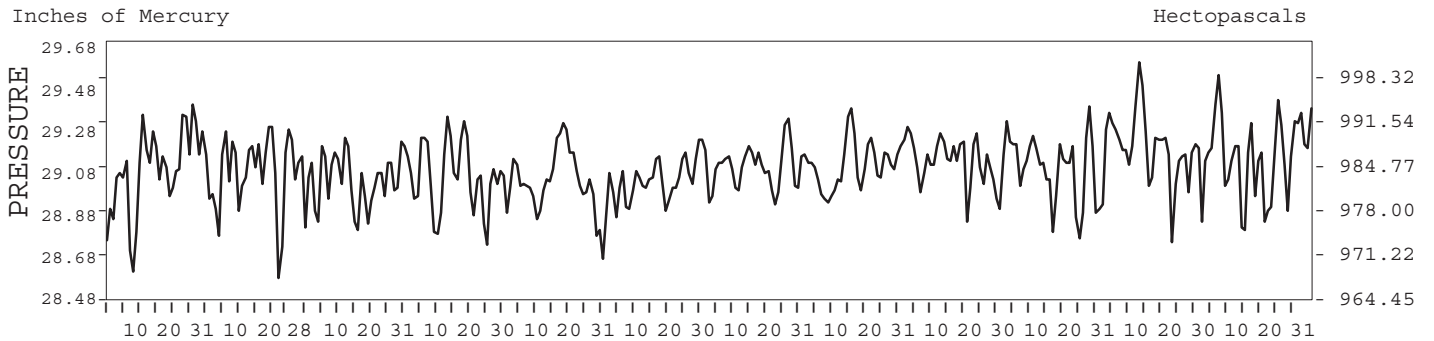
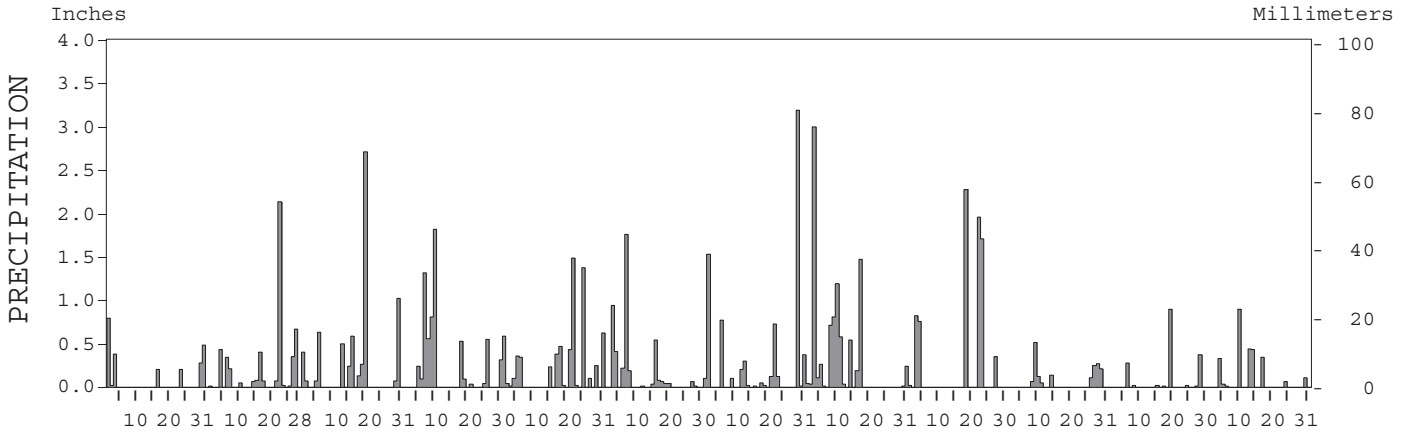
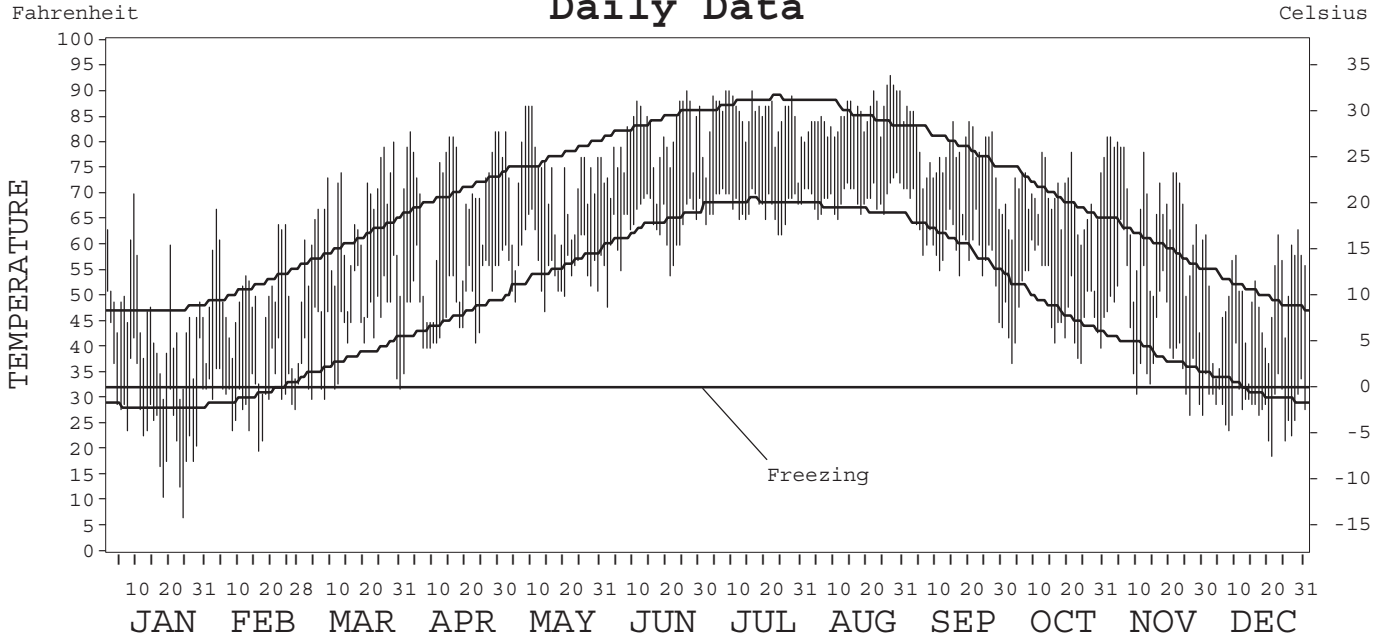
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-375X

GREENSBORO,
NORTH CAROLINA (GSO)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2003

GREENSBORO, NC (GSO)

LATITUDE: 36° 05' 51" N LONGITUDE: 79° 56' 37" W ELEVATION (FT): GRND: 904 BARO: 907 TIME ZONE: EASTERN (UTC + 5) WBAN: 13723

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	45.3	48.9	63.0	68.6	72.3	80.6	84.8	85.5	77.7	68.6	66.2	49.5	67.6	
	HIGHEST DAILY MAXIMUM	70	67	80	82	87	90	90	93	87	78	81	63	93	
	DATE OF OCCURRENCE	09	03	29	30+	10+	26	16+	27	01	21+	02+	29	AUG 27	
	MEAN DAILY MINIMUM	27.4	31.0	42.9	48.3	56.3	63.2	67.4	69.3	59.8	47.9	42.5	28.9	48.7	
	LOWEST DAILY MINIMUM	7	20	30	35	47	48	62	65	44	37	27	19	7	
	DATE OF OCCURRENCE	24	16	08+	01	14	02	25+	11+	30	24+	30+	21	JAN 24	
	AVERAGE DRY BULB	36.4	40.0	53.0	58.5	64.3	71.9	76.1	77.4	68.8	58.3	54.4	39.2	58.2	
	MEAN WET BULB	31.2	35.9	47.4	52.4	59.9	66.3	70.7	72.2	63.1	53.8	48.9	34.4	53.0	
	MEAN DEW POINT	20.8	29.3	41.7	46.7	56.9	62.6	68.5	70.3	60.0	49.3	42.2	25.7	47.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	1	3	6	0	0	0	0	0	10
	MAXIMUM ≤ 32°	3	1	0	0	0	0	0	0	0	0	0	0	0	4
	MINIMUM ≤ 32°	24	18	6	0	0	0	0	0	0	0	5	27	80	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	877	692	369	207	85	5	0	0	22	206	331	792	3586	
	COOLING DEGREE DAYS	0	0	6	18	69	221	350	394	142	6	17	0	1223	
RH	MEAN (PERCENT)	58	70	70	68	80	75	81	83	77	74	67	61	72	
	HOUR 01 LST	63	77	75	75	88	85	92	94	88	84	76	68	80	
	HOUR 07 LST	65	80	82	81	89	85	93	95	90	89	80	73	84	
	HOUR 13 LST	49	61	61	57	70	63	65	67	59	57	52	49	59	
	HOUR 19 LST	54	65	64	62	76	68	76	80	74	73	64	56	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	3	6	1	4	1	4	2	1	1	1	0	27	
	THUNDERSTORMS	1	1	5	2	6	7	12	17	3	0	0	0	54	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.10	29.08	29.04	29.07	29.04	29.05	29.11	29.13	29.13	29.11	29.19	29.17	29.10	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.04	29.98	30.01	29.96	29.97	30.03	30.05	30.06	30.05	30.13	30.13	30.04	
WINDS	RESULTANT SPEED (MPH)	3.9	2.0	0.8	2.3	1.8	1.0	0.5	1.2	0.6	1.1	2.4	3.4	1.4	
	RES. DIR. (TENS OF DEGS.)	27	29	36	01	26	26	24	23	32	29	24	27	28	
	MEAN SPEED (MPH)	8.2	7.8	8.1	8.8	7.5	6.4	6.6	4.1	4.6	6.4	7.0	7.5	6.9	
	PREVAIL. DIR. (TENS OF DEGS.)	22	05	04	21	22	22	22	22	01	02	20	29	22	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	26	38	28	33	29	28	30	35	30	30	33	28	38	
	DIR. (TENS OF DEGS.)	29	28	30	05	27	28	05	20	21	28	28	29	28	
	DATE OF OCCURRENCE	23	23	13	10	29+	12	13	11	03	14	13	17	FEB 23	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	32	46	36	41	36	33	40	40	46	36	48	32	48	
DIR. (TENS OF DEGS.)	28	28	29	03	27	28	30	18	31	29	24	29	24		
DATE OF OCCURRENCE	23	23+	13	10	29+	12	09	11	18	14	19	17+	NOV 19		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.35	4.91	6.69	6.39	6.83	4.39	7.64	9.22	7.90	1.72	1.63	2.65	62.32	
	GREATEST 24-HOUR (IN.)	0.79	2.21	2.97	2.19	1.51	1.98	3.20	3.00	3.67	0.57	0.90	0.90	3.67	
	DATE OF OCCURRENCE	01	21-22	19-20	09-10	22-23	06-07	29-30	03	22-23	08-09	19	10	SEP 22-23	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	15	12	12	17	14	16	16	7	9	8	9	142	
PRECIPITATION ≥ 0.10	6	7	9	8	13	6	11	11	6	7	3	6	93		
PRECIPITATION ≥ 1.00	0	1	2	2	2	1	2	3	3	0	0	0	16		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	5.3	4.0	1.2	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.5	
	GREATEST 24-HOUR (IN.)	3.1	2.3	1.2	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	
	DATE OF OCCURRENCE	23	06	30		31							13	JAN 23	
	MAXIMUM SNOW DEPTH (IN.)	2	2	0	0	0	0	0	0	0	0	0	1	2	
	DATE OF OCCURRENCE	23+	17										14	FEB 17	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	2	2	1	0	0	0	0	0	0	0	0	1	6		

NORMALS, MEANS, AND EXTREMES

GREENSBORO-WNSTN-SAL, NC (GSO)

LATITUDE: 36° 05' 51" N LONGITUDE: 79° 56' 37" W ELEVATION (FT): GRND: 904 BARO: 907 TIME ZONE: EASTERN (UTC + 5) WBAN: 13723

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	47.2	51.7	60.3	69.7	76.9	83.8	87.6	85.7	79.4	69.6	59.9	50.6	68.5
	MEAN DAILY MAXIMUM	56	48.0	51.7	60.0	70.3	77.5	84.2	87.5	85.8	79.8	70.1	60.0	50.4	68.8
	HIGHEST DAILY MAXIMUM	75	78	81	90	94	98	102	102	103	100	95	85	78	103
	YEAR OF OCCURRENCE		2002	1977	1945	1930	1941	1954	1977	1988	1954	1954	1974	1998	AUG 1988
	MEAN OF EXTREME MAXS.	56	67.9	70.3	78.7	85.8	89.2	94.1	95.4	94.4	91.0	83.7	76.2	68.6	82.9
	NORMAL DAILY MINIMUM	30	28.2	30.6	37.8	45.5	54.7	63.5	68.1	66.8	60.1	47.5	38.6	31.4	47.7
	MEAN DAILY MINIMUM	56	28.1	30.4	37.1	45.9	55.0	63.2	67.5	66.4	59.4	47.0	37.7	30.4	47.3
	LOWEST DAILY MINIMUM	75	-8	-4	5	21	32	42	48	45	35	20	10	0	-8
	YEAR OF OCCURRENCE		1985	1936	1960	1943	1989	1977	1933	1986	1942	1962	1970	1962	JAN 1985
	MEAN OF EXTREME MINS.	56	10.1	14.3	20.7	29.9	40.4	51.0	58.4	56.4	44.9	31.7	21.8	13.8	32.8
	NORMAL DRY BULB	30	37.7	41.2	49.1	57.6	65.8	73.6	77.9	76.2	69.8	58.5	49.2	41.0	58.1
	MEAN DRY BULB	56	38.1	41.2	48.5	58.1	66.2	73.7	77.5	76.1	69.6	58.6	48.9	40.5	58.1
	MEAN WET BULB	18	34.0	37.2	42.8	50.9	59.2	66.9	70.5	69.5	63.6	53.3	44.6	36.7	52.4
	MEAN DEW POINT	18	26.1	29.0	34.2	43.3	54.0	62.6	67.3	66.4	60.1	48.3	38.3	29.3	46.6
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	0.8	5.6	11.8	8.4	2.2	0.2	0.0	0.0	29.3	
MAXIMUM ≤ 32°	30	2.6	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.4	
MINIMUM ≤ 32°	30	21.3	17.6	9.2	2.0	*	0.0	0.0	0.0	0.0	1.1	9.5	18.4	79.1	
MINIMUM ≤ 0°	30	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
H/C	NORMAL HEATING DEG. DAYS	30	851	679	501	245	77	8	0	1	32	232	480	742	3848
	NORMAL COOLING DEG. DAYS	30	0	0	4	25	97	263	398	345	172	24	3	1	1332
RH	NORMAL (PERCENT)	30	67	64	62	61	70	72	74	76	77	73	69	68	69
	HOUR 01 LST	30	74	70	70	70	81	84	86	87	88	84	78	75	79
	HOUR 07 LST	30	78	77	77	77	82	84	87	90	90	88	83	79	83
	HOUR 13 LST	30	56	53	50	47	54	56	58	59	60	54	54	56	55
	HOUR 19 LST	30	64	57	54	52	61	65	67	69	72	72	66	65	64
S	PERCENT POSSIBLE SUNSHINE	67	51	56	60	63	63	64	62	61	62	64	57	53	60
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	76	4.7	3.3	2.8	1.6	1.9	1.4	1.8	2.3	3.0	2.5	3.2	3.8	32.3
	THUNDERSTORMS	76	0.5	0.7	2.0	3.4	6.7	8.3	10.4	8.0	3.3	1.0	0.5	0.3	45.1
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1					4.0	4.0							
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR	1	1.0	2.0	6.0		10.0	12.0							
	PARTLY CLOUDY	1	1.0	3.0	3.0		4.0	3.0							
	CLOUDY	1	3.0	4.0	8.0		6.0	4.0							
PR	MEAN STATION PRESSURE (IN)	30	29.20	29.10	29.10	29.10	29.09	29.10	29.10	29.10	29.18	29.20	29.19	29.19	29.14
	MEAN SEA-LEVEL PRES. (IN)	19	30.12	30.11	30.05	30.00	30.01	30.00	30.04	30.05	30.07	30.12	30.14	30.15	30.07
WINDS	MEAN SPEED (MPH)	50	8.1	8.5	9.0	8.9	7.5	6.9	6.5	6.2	6.6	7.0	7.4	7.5	7.5
	PREVAIL. DIR (TENS OF DEGS)	34	21	22	21	21	22	23	22	23	03	03	21	21	21
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	8	41	38	49	37	62	43	33	35	46	31	37	34	62
	DIR. (TENS OF DEGS)		19	28	30	30	27	27	09	20	26	09	26	24	27
	YEAR OF OCCURRENCE		1996	2003	1997	2001	2000	2002	1997	2003	2000	1996	2002	2000	MAY 2000
	MAXIMUM 5-SECOND:														
SPEED (MPH)	8	54	47	58	47	82	59	44	41	60	39	48	47	82	
DIR. (TENS OF DEGS)		22	32	31	25	26	25	09	17	25	28	24	24	26	
YEAR OF OCCURRENCE		1996	1998	1997	1996	2000	2002	1997	1997	2000	2001	2003	2000	MAY 2000	
PRECIPITATION	NORMAL (IN)	30	3.54	3.10	3.85	3.43	3.95	3.53	4.44	3.71	4.30	3.27	2.96	3.06	43.14
	MAXIMUM MONTHLY (IN)	75	8.24	7.04	8.76	8.03	8.35	9.53	12.72	12.53	13.26	12.59	8.26	6.44	13.26
	YEAR OF OCCURRENCE		1937	1929	1975	1987	1982	1995	1984	1939	1947	1990	1985	1973	SEP 1947
	MINIMUM MONTHLY (IN)	75	0.66	0.73	0.67	0.41	0.37	T	0.98	0.71	T	0.26	0.34	0.33	T
	YEAR OF OCCURRENCE		1981	1978	1985	1995	1936	1990	1953	1972	1985	2000	2001	1955	JUN 1990
	MAXIMUM IN 24 HOURS (IN)	75	3.06	3.00	3.62	4.42	3.25	4.91	4.43	4.60	7.49	6.24	3.32	3.60	7.49
	YEAR OF OCCURRENCE		1936	1934	1991	1987	1989	1972	1944	1995	1947	1954	1962	1958	SEP 1947
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.6	9.3	10.9	9.3	10.0	9.9	11.1	9.5	7.9	7.1	8.1	10.0	113.7	
PRECIPITATION ≥ 1.00	30	0.8	0.7	0.7	0.6	1.0	0.8	1.2	1.2	1.4	1.1	0.8	0.7	11.0	
SNOWFALL	NORMAL (IN)	30	3.0	3.5	1.4	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	8.9
	MAXIMUM MONTHLY (IN)	75	22.9	16.3	21.3	T	T	T	T	0.0	0.0	0.0	5.9	14.3	22.9
	YEAR OF OCCURRENCE		1966	1979	1960	1993	1993	2001	1995				1968	1930	JAN 1966
	MAXIMUM IN 24 HOURS (IN)	75	14.0	9.3	11.1	T	T	T	T	0.0	0.0	0.0	5.0	14.3	14.3
	YEAR OF OCCURRENCE		1940	1979	1960	1993	1993	2001	1995				1968	1930	DEC 1930
	MAXIMUM SNOW DEPTH (IN)	55	15	13	14	0	0	0	0	0	0	0	4	6	15
	YEAR OF OCCURRENCE		1966	1966	1960								1968	1973	JAN 1966
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.8	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	

PRECIPITATION (inches) 2003 GREENSBORO, NC (GSO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	4.58	3.13	3.32	2.15	5.69	2.72	1.71	7.14	7.57	0.81	2.42	4.23	45.47
1975	5.31	3.15	8.76	2.00	6.23	1.71	12.35	1.48	7.29	2.62	1.81	3.80	56.51
1976	2.25	1.47	2.42	0.62	2.94	3.91	1.87	2.63	2.35	8.61	1.69	3.92	34.68
1977	2.27	1.69	2.79	2.25	0.70	1.54	1.52	4.03	6.35	4.67	3.11	3.30	34.22
1978	7.70	0.73	4.38	4.13	5.09	3.72	9.23	9.60	2.70	1.25	3.17	4.45	56.15
1979	5.87	5.03	2.95	3.21	4.46	2.72	4.30	1.13	13.08	2.64	4.78	1.12	51.29
1980	4.00	1.77	5.04	3.24	3.23	3.44	2.68	2.14	2.95	2.13	2.58	0.78	33.98
1981	0.66	3.61	2.59	1.13	2.78	2.92	8.99	2.60	6.35	3.63	0.35	5.60	41.21
1982	2.91	4.64	2.39	2.72	8.35	7.28	3.46	1.46	1.22	4.65	2.73	3.56	45.37
1983	1.31	3.82	5.75	5.16	4.12	5.15	2.78	1.44	2.68	4.09	5.37	4.38	46.05
1984	3.51	5.25	5.31	2.77	5.83	3.10	12.72	5.55	1.12	1.16	2.02	1.90	50.24
1985	4.34	3.77	0.67	0.94	4.32	2.25	4.31	4.86	T	1.92	8.26	1.46	37.10
1986	0.74	1.61	2.00	0.47	1.12	1.10	3.21	8.03	1.05	3.24	3.50	3.60	29.67
1987	3.77	4.72	3.24	8.03	2.48	1.20	5.80	3.55	7.22	0.71	3.66	3.38	47.76
1988	2.35	1.27	1.86	2.55	3.97	3.19	4.47	3.50	3.24	4.09	3.55	1.19	35.23
1989	0.93	4.48	5.71	3.23	6.36	7.09	2.96	2.31	6.08	5.04	2.92	3.53	50.64
1990	3.76	4.32	2.64	2.90	6.54	T	1.50	2.01	1.16	12.59	1.93	4.17	43.52
1991	4.53	1.15	7.75	6.66	3.89	1.96	3.95	1.91	3.66	1.90	1.67	2.80	41.83
1992	3.54	3.02	2.74	5.83	2.34	2.92	5.43	2.97	3.06	3.66	6.05	2.48	44.04
1993	3.65	3.40	7.61	6.08	2.95	3.14	3.28	2.31	2.82	1.25	2.58	3.28	42.35
1994	3.66	2.49	5.04	1.45	1.71	3.92	4.51	5.84	1.61	1.13	2.55	0.60	34.51
1995	2.94	3.59	1.84	0.41	2.15	9.53	2.39	5.41	2.26	5.98	3.49	1.36	41.35
1996	4.49	2.38	4.29	3.67	3.84	1.93	4.71	5.22	10.82	4.21	2.57	3.87	52.00
1997	2.89	3.43	4.06	7.22	1.79	3.33	3.03	1.97	3.88	2.38	2.65	2.17	38.80
1998	6.88	4.39	3.65	5.52	5.04	3.53	3.86	5.63	2.34	0.62	1.55	5.22	48.23
1999	5.39	1.50	1.96	4.37	1.00	4.26	4.14	5.00	8.62	2.32	1.28	2.04	41.88
2000	4.03	1.54	2.95	4.47	2.31	4.05	2.18	3.97	9.98	T	1.95	1.14	38.57
2001	2.53	2.51	5.05	1.81	2.69	3.09	4.06	3.08	2.05	0.41	0.34	2.21	29.83
2002	4.47	1.05	3.13	0.55	2.99	3.73	3.10	4.42	3.75	5.75	4.29	4.45	41.68
2003	2.35	4.91	6.69	6.39	6.83	4.39	7.64	9.22	7.90	1.72	1.63	2.65	62.32
POR= 75 YRS	3.39	3.25	3.82	3.34	3.59	3.71	4.48	4.19	3.71	3.02	2.74	3.09	42.33

WBAN : 13723

AVERAGE TEMPERATURE (°F) 2003 GREENSBORO, NC (GSO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	45.8	41.1	52.0	58.0	66.1	70.7	76.6	75.5	67.9	57.5	49.5	41.8	58.5
1975	42.9	44.1	46.2	56.7	69.1	75.2	77.1	80.0	70.1	62.0	52.0	40.1	59.6
1976	35.9	49.3	53.8	60.5	64.2	71.2	75.9	73.1	66.9	53.2	41.8	37.0	56.9
1977	26.7	39.1	53.3	61.2	69.1	73.6	80.4	78.2	71.7	55.1	49.8	38.2	58.0
1978	31.3	31.6	45.2	57.0	63.1	73.4	76.4	77.1	71.4	57.2	52.1	42.2	56.5
1979	35.1	32.8	50.9	59.1	66.2	69.8	75.7	76.5	69.1	58.0	52.3	41.5	57.3
1980	38.4	36.0	46.5	58.2	66.0	70.8	78.4	78.7	73.1	56.1	46.6	40.2	57.4
1981	33.5	42.3	45.7	61.9	63.2	77.9	78.5	73.6	68.1	55.6	48.9	36.4	57.1
1982	32.7	42.8	49.2	54.9	70.1	72.1	77.1	75.0	68.0	57.6	49.1	45.5	57.8
1983	36.0	38.6	48.4	53.0	63.8	71.6	78.0	78.2	69.1	58.3	48.7	36.5	56.7
1984	35.2	44.1	46.0	54.3	63.5	75.0	74.2	75.4	65.7	65.5	45.5	48.3	57.7
1985	32.8	40.6	51.7	61.0	66.8	73.1	75.7	73.4	67.9	61.1	56.2	37.6	58.2
1986	37.1	42.3	49.7	60.5	66.5	77.3	80.8	73.6	71.1	61.3	50.7	40.2	59.3
1987	36.4	38.8	47.9	55.6	68.9	75.9	80.1	78.9	71.6	53.1	50.6	42.2	58.3
1988	33.0	40.4	49.4	57.0	65.2	72.4	78.1	79.7	68.5	53.2	49.6	39.5	57.2
1989	42.2	40.4	49.4	56.8	63.2	75.4	77.5	74.8	69.5	59.4	48.8	32.7	57.5
1990	45.3	48.5	52.7	58.1	66.0	75.2	79.3	77.3	70.5	61.2	52.4	46.3	61.1
1991	40.8	45.2	52.4	60.7	71.5	75.0	79.5	76.2	70.6	60.3	48.5	44.9	60.5
1992	42.1	45.2	48.5	57.5	62.4	71.1	79.5	73.0	69.3	56.6	48.9	39.7	57.8
1993	40.4	38.2	45.4	56.9	69.1	75.5	82.0	78.2	72.2	58.3	49.0	39.0	58.7
1994	34.2	42.3	50.2	61.2	63.1	75.5	77.7	74.1	67.5	57.8	51.6	45.2	58.4
1995	40.0	39.5	51.9	60.1	67.3	72.9	79.4	79.4	68.8	60.1	44.5	36.9	58.4
1996	35.5	40.4	44.2	56.3	66.4	74.7	77.0	74.3	68.5	58.4	43.9	41.9	56.8
1997	37.1	43.9	53.0	53.2	62.0	70.3	77.8	74.7	68.9	58.3	45.0	38.9	56.9
1998	42.6	44.2	47.9	57.7	68.3	75.5	78.7	76.6	73.3	60.5	50.8	45.0	60.1
1999	42.7	43.3	45.5	59.9	66.1	72.8	78.6	77.5	67.9	57.5	53.4	43.2	59.0
2000	37.2	44.9	53.6	56.2	68.8	75.0	75.5	75.4	67.2	60.3	46.6	33.0	57.8
2001	38.7	45.1	45.9	59.8	66.3	75.3	74.6	77.0	67.3	57.4	54.8	46.1	59.0
2002	41.5	42.5	49.6	62.1	65.5	75.6	78.9	76.9	71.8	60.2	48.2	39.5	59.4
2003	36.4	40.0	53.0	58.5	64.3	71.9	76.1	77.4	68.8	58.3	54.4	39.2	58.2
POR= 75 YRS	38.5	41.0	48.5	57.8	66.4	74.0	77.4	76.0	70.0	58.7	48.8	40.2	58.1

HEATING DEGREE DAYS (base 65°F) 2003 GREENSBORO, NC (GSO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0	0	53	244	477	711	676	579	578	256	26	0	3600
1975-76	0	0	31	121	391	765	895	454	357	199	74	20	3307
1976-77	0	1	19	370	687	860	1184	723	358	159	42	11	4414
1977-78	0	0	7	307	459	821	1039	927	605	245	131	4	4545
1978-79	0	0	16	238	381	700	921	896	440	198	52	8	3850
1979-80	1	2	25	239	377	719	817	834	565	212	65	7	3863
1980-81	0	0	31	278	544	762	970	630	590	135	116	0	4056
1981-82	0	1	39	299	477	879	997	616	484	304	14	0	4110
1982-83	0	0	38	253	467	602	894	734	505	358	97	9	3957
1983-84	0	0	74	222	482	876	913	600	580	331	107	4	4189
1984-85	0	0	96	53	580	512	992	679	425	160	50	6	3553
1985-86	1	0	65	151	263	843	857	629	472	176	68	0	3525
1986-87	0	17	13	174	426	761	880	724	524	291	34	0	3844
1987-88	0	0	4	361	422	699	984	705	478	241	56	23	3973
1988-89	0	0	24	368	455	781	702	685	492	279	133	0	3919
1989-90	0	1	48	206	481	994	601	458	397	237	51	4	3478
1990-91	0	0	31	161	371	573	739	546	391	167	24	2	3005
1991-92	0	0	29	171	495	619	703	567	505	255	132	8	3484
1992-93	0	0	38	258	474	777	756	746	600	244	18	0	3911
1993-94	0	0	23	232	482	803	949	630	452	154	125	0	3850
1994-95	0	0	19	227	392	608	769	709	397	182	47	0	3350
1995-96	0	0	33	185	609	863	904	705	636	266	86	2	4289
1996-97	0	0	18	208	628	709	856	584	365	351	124	53	3896
1997-98	0	0	23	241	593	799	686	575	533	225	33	13	3721
1998-99	0	0	7	153	420	617	684	601	596	187	38	6	3309
1999-00	6	0	31	236	341	671	856	575	354	264	29	5	3368
2000-01	0	0	62	165	546	984	809	553	584	209	39	0	3951
2001-02	0	0	61	248	303	582	720	624	471	162	105	0	3276
2002-03	0	0	1	217	495	782	877	692	369	207	85	5	3730
2003-	0	0	22	206	331	792							

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COOLING DEGREE DAYS (base 65°F) 2003 GREENSBORO, NC (GSO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0	0	8	28	101	176	366	333	144	15	18	0	1189
1975	0	0	1	15	159	313	379	473	192	37	7	0	1576
1976	0	4	14	71	55	212	344	257	82	9	0	0	1048
1977	0	2	1	50	175	275	483	417	214	9	10	0	1636
1978	0	0	0	11	80	263	364	384	216	4	0	0	1322
1979	0	0	6	26	95	159	340	365	157	28	4	0	1180
1980	0	0	0	16	102	189	424	434	281	12	0	0	1458
1981	0	0	0	47	69	394	427	276	141	15	0	0	1369
1982	0	0	0	7	179	216	382	317	136	33	0	2	1272
1983	0	0	0	5	68	210	409	415	202	20	0	0	1329
1984	0	0	0	16	66	309	292	328	122	79	0	0	1212
1985	0	1	18	47	109	259	339	268	159	36	7	0	1243
1986	0	0	3	49	123	376	496	291	202	67	5	0	1612
1987	0	0	0	13	162	333	473	438	212	0	0	0	1631
1988	0	0	2	10	71	249	411	461	137	8	0	0	1349
1989	0	3	13	39	79	320	392	313	189	40	0	0	1388
1990	0	0	23	37	86	317	451	390	202	47	0	0	1553
1991	0	0	9	46	232	310	454	352	202	33	5	5	1648
1992	0	0	0	37	58	198	457	252	175	6	0	0	1183
1993	0	0	0	9	154	321	530	414	247	34	10	0	1719
1994	0	0	1	47	71	326	399	292	101	11	0	0	1248
1995	0	0	0	41	128	244	454	451	153	39	0	0	1510
1996	0	0	0	13	140	301	378	294	132	11	0	0	1269
1997	0	0	2	2	39	219	406	306	146	38	0	0	1158
1998	0	0	9	14	144	332	432	363	265	18	0	6	1583
1999	0	0	0	40	79	251	434	396	124	13	0	0	1337
2000	0	0	6	9	152	314	329	331	134	24	2	0	1301
2001	0	0	0	57	87	315	304	379	137	18	5	0	1302
2002	1	0	2	82	127	325	440	375	214	72	0	0	1638
2003	0	0	6	18	69	221	350	394	142	6	17	0	1223

SNOWFALL (inches) 2003 GREENSBORO, NC (GSO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	0.0	0.0	0.0	T	T	2.0	2.0	0.0	0.0	0.0	4.0
1975-76	0.0	0.0	0.0	0.0	0.0	T	T	0.3	0.0	0.0	0.0	0.0	0.3
1976-77	0.0	0.0	0.0	0.0	0.0	T	1.2	8.1	1.2	0.0	0.0	0.0	10.5
1977-78	0.0	0.0	0.0	0.0	0.0	T	0.7	0.4	5.9	3.6	0.0	0.0	10.6
1978-79	0.0	0.0	0.0	0.0	0.0	T	T	T	16.3	0.0	0.0	0.0	16.3
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0	7.9	0.0	0.0	0.0	18.4
1980-81	0.0	0.0	0.0	0.0	0.0	T	0.5	2.4	0.0	7.6	0.0	0.0	10.5
1981-82	0.0	0.0	0.0	0.0	0.0	0.1	8.8	4.8	T	T	0.0	0.0	13.7
1982-83	0.0	0.0	0.0	0.0	0.0	0.2	0.4	5.7	T	T	0.0	0.0	6.3
1983-84	0.0	0.0	0.0	0.0	0.0	T	T	3.8	T	0.0	0.0	0.0	3.8
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	5.1	T	0.0	0.0	0.0	0.0	5.1
1985-86	0.0	0.0	0.0	0.0	0.0	0.3	T	1.1	0.0	0.0	0.0	0.0	1.4
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	14.2	9.0	0.2	T	0.0	0.0	23.4
1987-88	0.0	0.0	0.0	0.0	0.3	0.0	8.6	0.0	0.0	0.0	0.0	0.0	8.9
1988-89	0.0	0.0	0.0	0.0	0.0	0.3	T	13.3	T	T	0.0	0.0	13.6
1989-90	0.0	0.0	0.0	0.0	0.0	2.5	0.0	T	T	0.0	0.0	0.0	2.5
1990-91	0.0	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	T
1991-92	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	T	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	T	T	1.2	5.7	T	T	0.0	6.9
1993-94	0.0	0.0	0.0	0.0	0.0	1.0	1.1	1.2	0.2	0.0	0.0	0.0	3.5
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.1	T	0.4	0.0	0.0	0.0	0.5
1995-96	T	0.0	0.0	0.0	0.0	T	13.4						
1996-97						T	2.0	1.8	0.0	T	0.0	0.0	
1997-98	0.0	0.0	0.0	0.0	0.0	5.2	0.3	0.0	T	0.0	0.0	0.0	5.5
1998-99	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.1	T	0.0	0.0	0.0	2.3
1999-00	0.0	0.0	0.0	0.0	0.0	T	15.3	T	0.0	0.0	0.0	0.0	15.3
2000-01	0.0	0.0	0.0	0.0	1.7	0.3	0.1	2.4	T	T	0.0	T	4.5
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	8.2	T	0.0	0.0	0.0	0.0	8.2
2002-03	0.0	0.0	0.0	0.0	0.0	4.7	5.3	4.0	1.2	0.0	T	0.0	15.2
2003-	0.0	0.0	0.0	0.0	0.0	1.0							
POR= 74 YRS	T	0.0	0.0	0.0	0.1	1.3	3.5	2.4	1.7	T	T	0.0	9.0

WBAN : 13723

REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2003
GREENSBORO,
NORTH CAROLINA (GSO)

The Greensboro-High Point-Winston-Salem Regional Airport is located in the west-central part of Guilford County, in the northern Piedmont section of North Carolina. The location is near the headwaters of the Haw and Deep Rivers, both branches of the Cape Fear River system. A few miles west is a ridge beyond which lies the Yadkin River Basin. To the north, across a similar ridge, the waters of the Dan River flow northeastward into the Roanoke. West, beyond the Yadkin River Basin, the land gradually rises into the Brushy Mountains. To the northwest, other outcroppings southeast of the Blue Ridge rise into peaks occasionally exceeding 2,500 feet. The Blue Ridge proper forms a northeast-southwest barrier with heights occasionally exceeding 3,000 feet.

Winter temperatures and rainfall are both modified by the mountain barrier, but to a lesser extent than in areas closer to the Appalachian Range. Shallow cold air masses from the west tend to be stopped or turned aside by the mountains, while deeper masses are lifted over the range, losing moisture and warming during the passage. For this reason the lowest temperatures recorded in Forsyth and Guilford Counties usually occur when clear, cold air drifts southward, east of the Appalachian Range. The summer temperatures vary with the cloudiness and shower activity, but are generally mild.

Northwesterly winds seldom bring heavy or prolonged winter rain or snow. Flurries of light snow may fall when cold air blows across the mountains, but the heavier winter precipitation comes with winds blowing from northeast through east and south to southwest. When moist winds blowing from an easterly or southerly direction meet cold air moving out of the north or northwest in the vicinity of North Carolina, snow, sleet, or glaze may occur. Glazing is more common here than in most of North Carolina, but only occasionally becomes severe enough to do much damage in the northern Piedmont area.

Seasonal snowfall has a wide range and there have been a few winters with only a trace of snow. Snow seldom stays on the ground more than a few days.

Summer precipitation is largely from thunderstorms, mostly local in character. The frequency of these showers and the amount of rain received varies greatly from year to year and from place to place. Sizeable areas are sometimes without significant rain in late spring or early summer for two or more weeks, while other areas in the vicinity may be well watered.

Damaging storms are infrequent in the Northern Piedmont area. The highest winds to occur have been associated with thunderstorms, and were of brief duration. Hail is reported within Guilford and Forsyth Counties each year. The occurrence of tornadoes is rare. Hurricanes have produced heavy rainfall here, but no winds of destructive force.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 27 and the average last occurrence in the spring is April 11.

STATION LOCATION

GREENSBORO, NORTH CAROLINA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
						GROUND											
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	RAIN GAUGE	WINDHOLE GAUGE	8 INCH RAIN GAUGE		
*NOTE: <u>AIRPORT</u> National Weather Service Bldg., Regional AP+ +Piedmont Triad International AP effective 08/1988 Greensboro Regional Airport, NC	7/23/74 10/01/95	10/01/95 Present	0.75 mi. N NA	36°05' 36°06'	79°57' 79°57'	897 j904	f20 f22g22	5 5	5 3	4 3	3 f4h4i4	S	f. Not moved 7/23/74. g. Moved to new site 7/25/74. h. Type change 6/27/83. i. Type change 07/09/86. ASOS Commissioned 10/01/95 j. Ground elevation.				

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* NOTES: For earlier station history see previous editions.