



FEBRUARY 2004

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RALEIGH/DURHAM, NC

RALEIGH-DURHAM INTL ARPT (RDU)

Lat: 35° 52' N Long: 78° 47' W Elev (Ground): 427 Feet

Time Zone: EASTERN WBAN: 13722 ISSN #:0198-3784

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM					
																			5-SEC		2-MIN			
																			SPEED	DIR	SPEED	DIR		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	41	19*	30	-11	15	25	35	0		0		0.0	0.00	29.87	30.36	4.7	05	5.1	15	01	12	03	01	
02	49	21	35	-6	21	30	30	0		0		0.0	0.00	29.90	30.39	6.2	06	6.8	20	09	15	09	02	
03	51	35	43	2	38	39	22	0	RA BR	0		0.0	0.62	29.59	30.07	2.9	25	8.3	22	11	17	09	03	
04	50	27	39	-2	30	35	26	0	MIFG BR	0		0.0	0.00	29.86	30.34	1.2	02	2.2	15	03	13	04	04	
05	45	28	37	-4	26	34	28	0	RA	0		0.0	T	29.98	30.47	7.5	07	7.9	23	09	18	09	05	
06	63	41	52	10	43	45	13	0	RA FG BR	0		0.0	0.95	29.50	29.98	1.0	11	4.9	26	26	17	20	06	
07	50	34	42	0	32	40	23	0	FG+ BR	0		0.0	0.00	29.41	29.88	8.5	29	9.2	22	29	17	29	07	
08	46	28	37	-5	17	29	28	0		0		0.0	0.00	29.97	30.46	1.6	32	4.3	22	04	16	04	08	
09	46	29	38	-4	27	34	27	0	RA HZ	0		0.0	T	29.96	30.45	3.9	21	4.7	12	17	10	17	09	
10	54	35	45	3	38	41	20	0	RA BR HZ	0		0.0	0.01	29.66	30.14	5.1	24	5.8	13	23	12	23	10	
11	51	38	45	3	27	37	20	0		0		0.0	0.00	29.71	30.19	2.5	30	3.1	15	30	10	30	11	
12	44	32	38	-4	34	36	27	0	RA SN PL FG+ BR	0		T	0.51	29.72	30.20	2.2	05	3.8	12	02	9	02	12	
13	57	30	44	2	33	38	21	0	FG+ FZFG BR	0		0.0	0.00	29.70	30.18	2.6	27	3.2	15	25	12	27	13	
14	53	38	46	3	38	42	19	0	RA BR	0		0.0	0.08	29.58	30.06	2.8	23	3.0	13	22	10	21	14	
15	45	32	39	-4	34	38	26	0	RA SN PL FG BR	0		2.0	0.38	29.54	30.02	8.9	05	9.3	28	05	22	06	15	
16	35	23	29	-14	19	26	36	0	SN BR	1		0.2	0.04	29.96	30.45	7.0	03	7.3	22	04	18	05	16	
17	32	25	29*	-14	25	28	36	0	RA SN PL BR	T		0.5	0.06	29.95	30.44	3.9	02	6.2	18	03	16	04	17	
18	50	27	39	-4	22	32	26	0		0		0.0	0.00	29.74	30.23	2.7	32	4.7	20	32	13	29	18	
19	65	28	47	3	25	37	18	0		0		0.0	0.00	29.59	30.06	4.3	25	5.4	21	25	15	25	19	
20	68*	36	52	8	35	45	13	0		0		0.0	0.00	29.39	29.86	11.1	22	11.2	33	23	30*	23	20	
21	64	45	55*	11	37	48	10	0	RA	0		0.0	T	29.32	29.78	9.1	26	11.2	33*	26	23	27	21	
22	57	36	47	3	29	38	18	0		0		0.0	0.00	29.67	30.15	1.6	36	4.3	20	35	13	36	22	
23	53	32	43	-2	32	39	22	0	RA	0		0.0	T	29.74	30.22	3.2	09	4.7	16	09	13	08	23	
24	58	43	51	6	40	45	14	0		0		0.0	0.00	29.51	29.98	3.7	05	5.3	22	02	15	04	24	
25	51	34	43	-2	22	34	22	0		0		0.0	0.00	29.66	30.14	11.5	04	11.9	28	04	22	04	25	
26	38	31	35	-10	23	30	30	0	SN PL FG+ FZFG BR	0		2.0	0.12	29.71	30.19	12.0	04	12.3	29	02	21	04	26	
27	46	30	38	-7	26	33	27	0	RA FZRA SN PL FG+ FZFG BR	2		4.5	0.55	29.70	30.19	8.6	02	9.0	26	02	18	03	27	
28	59	27	43	-3	23	34	22	0		0		0.0	0.00	29.90	30.39	2.8	02	3.4	16	03	14	05	28	
29	67	26	47	1	30	38	18	0		0		0.0	0.00	29.90	30.39	4.6	22	4.9	17	23	15	23	29	
51.3 31.4 41.4 ■■ 29.0 36.2 23.3 0.0 < MONTHLY AVERAGES TOTALS-->												9.2	3.32	29.71	30.19	1.5	01	6.3	<-- MONTHLY AVERAGES					
-2.7 -.5 -1.6 ■■ <-----DEPARTURE FROM NORMAL----->													-.15	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.95 DATE :06				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 4.5 DATE :27				MAXIMUM : 30.59 08 2251											
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 2 DATE : 27				MINIMUM : 29.65 21 0351											
HEATING: 677 31 2714 -34									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 18				PRECIPITATION ≥ 0.01 INCH : 10							
COOLING: 0 -1 0 -1									MAXIMUM TEMP ≤ 32 : 1				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 6							
									THUNDERSTORMS : 0				HEAVY FOG : 5				SNOWFALL ≥ 1.0 INCH : 3							

FEBRUARY 2004
RALEIGH/DURHAM, NC

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

FEBRUARY 2004

RDU

WBAN # 13722

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01	0.33	0.00		
02													02												02		0.00		
03	T	0.03	0.03	0.01	0.03	0.27	0.18	0.07		T			03												03		0.62		
04													04												04		0.00		
05													05								T				05		T		
06												0.02	06	T	0.10	0.02	0.01	0.12	0.15	0.06	0.08	0.01	0.13	0.25	06		0.95		
07													07												07		0.00		
08													08		T	T	T	T	T						08		0.00		
09													09								T				09		T		
10													10		T	T	T	T			0.01	T	T		10		0.01		
11													11												11	0.00			
12					T	0.03	0.04	0.11	0.14	0.08	0.05	0.01	12	0.01	T	0.02	0.01	T	0.01	T					12	0.51			
13													13												13	0.00			
14													14			T	0.02	0.04	0.01	T	0.01	T	T		14	0.08			
15													15			T	0.06	0.05	0.01	0.02	0.05	T	0.06	0.06	0.02	15	0.38		
16	0.03	0.01	T										16												16	0.04			
17													17	0.01	T	0.02	0.01	0.01							17	0.06			
18								T	T	T	0.01	T	18												18	0.00			
19													19												19	0.00			
20													20												20	0.00			
21													21												21	T			
22													22												22	0.00			
23													23											T	23	T			
24													24												24	0.00			
25													25												25	0.00			
26													26	T	0.02	0.02	T	T	0.01	T				T	26	0.05			
27	0.03	0.05	0.03	0.02	0.01	0.04	0.03	0.04	0.03	0.02	0.01	0.01	27										T	T	27	0.32			
28													28												28	0.00			
29													29												29	0.00			

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.12	.20	.22	.23	.25	.36	.38	.41	.45	.51	.53	.54
Ending Date	06	06	06	06	06	06	06	03	03	03	03	03
Ending Time (Hour/Min)	2221	2221	2222	2224	2224	2222	2224	0629	0641	0709	0709	0709

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

* = Extreme for the month (last occurrence if more than one)
T = Trace precipitation amount
+ = also occurs on earlier date
FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

WEATHER NOTATIONS

**RALEIGH/DURHAM, NC
FEBRUARY 2004**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							1.50	10.00	
04							4.00	10.00	
05							7.00	10.00	
06							.50	10.00	
07							<.25	10.00	
08							10.00	10.00	
09							5.00	10.00	
10							3.00	10.00	
11							10.00	10.00	
12							.25	10.00	
13							.13	10.00	
14							4.00	10.00	
15							.50	10.00	
16							.75	10.00	
17							1.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							8.00	10.00	
22							10.00	10.00	
23							7.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							.25	10.00	
27							.25	10.00	
28							10.00	10.00	
29							10.00	10.00	
MONTHLY AVGS							5.65	10.00	

SUNSHINE (MINUTES)

Total: Possible:

 Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR	PTLY CLDY	CLOUDY	MISSING
29			

MINIMUM VISIBILITY (MILES)

<=0.25	<=3.0	>=7.0
4	11	15

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

FEBRUARY 2004

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <i>Okta</i>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <i>Okta</i>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0716 FEB 01						SUNSET: 1742						SUNRISE: 0711 FEB 07						SUNSET: 1748											
01	SCT	NC			10.00	25	13	21	60	0	00	29.78	30.27	01	VV	001			<.25	FG	46	46	46	100	5	24	29.21	29.68	
04	CLR	NC			10.00	21	17	20	85	0	00	29.79	30.27	04	OVC	003			3.00	BR	47	47	47	100	10	24	29.24	29.72	
07	SCT	NC			10.00	22	16	20	78	6	04	29.80	30.28	07	CLR	NC			8.00		42	42	42	100	5	25	29.33	29.80	
10	BKN	200			10.00	29	13	24	51	9	06	29.89	30.39	10	FEW	NC			10.00		46	34	41	63	12	28	29.41	29.88	
13	SCT	NC			10.00	37	14	29	39	6	05	29.88	30.38	13	SCT	NC			10.00		50	30	41	46	9	30	29.39	29.86	
16	SCT	NC			10.00	40	15	31	36	7	03	29.87	30.36	16	BKN	055			10.00		47	25	38	42	13	29	29.39	29.87	
19	CLR	NC			10.00	33	14	27	45	7	04	29.90	30.40	19	OVC	080			10.00		42	21	34	43	9	30	29.51	29.98	
22	CLR	NC			10.00	29	17	25	61	8	06	29.93	30.43	22	CLR	NC			10.00		36	18	30	48	12	31	29.61	30.09	
SUNRISE: 0715 FEB 02						SUNSET: 1743						SUNRISE: 0710 FEB 08						SUNSET: 1749											
01	CLR	NC			10.00	26	17	23	69	5	03	29.94	30.43	01	CLR	NC			10.00		33	17	28	52	6	28	29.69	30.17	
04	CLR	NC			10.00	25	17	23	72	0	00	29.94	30.43	04	CLR	NC			10.00		31	18	27	59	6	29	29.78	30.26	
07	FEW	NC			10.00	22	17	20	82	3	36	29.98	30.47	07	CLR	NC			10.00		30	19	26	64	0	00	29.91	30.40	
10	SCT	NC			10.00	33	19	28	56	8	06	29.98	30.47	10	CLR	NC			10.00		36	17	30	46	12	36	30.03	30.52	
13	FEW	NC			10.00	44	19	35	37	10	07	29.93	30.42	13	CLR	NC			10.00		41	15	32	35	8	02	30.03	30.53	
16	BKN	200			10.00	48	21	38	34	10	05	29.86	30.35	16	FEW	NC			10.00		44	13	33	28	5	21	30.04	30.53	
19	BKN	250			10.00	43	25	36	49	7	05	29.85	30.33	19	FEW	NC			10.00		36	19	30	50	0	00	30.06	30.55	
22	BKN	250			10.00	40	28	35	63	14	09	29.78	30.26	22	CLR	NC			10.00		30	19	26	64	0	00	30.09	30.58	
SUNRISE: 0714 FEB 03						SUNSET: 1744						SUNRISE: 0709 FEB 09						SUNSET: 1750											
01	OVC	090			10.00	38	32	36	79	5	32	29.75	30.23	01	CLR	NC			10.00		33	17	28	52	6	16	30.06	30.55	
04	OVC	046			6.00	38	37	38	97	12	10	29.56	30.03	04	CLR	NC			10.00		30	19	26	64	5	21	30.07	30.57	
07	OVC	003			2.00	39	38	39	96	3	VR	29.59	30.06	07	FEW	NC			10.00		30	23	28	75	3	25	30.06	30.56	
10	OVC	004			3.00	38	37	38	97	6	29	29.56	30.03	10	OVC	060			10.00		40	26	35	58	5	17	30.03	30.53	
13	OVC	011			10.00	44	40	42	85	10	27	29.53	30.01	13	OVC	046			10.00		45	25	37	46	6	22	29.95	30.44	
16	FEW	NC			10.00	50	40	45	68	9	28	29.54	30.01	16	OVC	037			10.00	-RA	41	32	37	70	3	26	29.88	30.37	
19	CLR	NC			10.00	41	37	39	86	8	23	29.60	30.08	19	OVC	013			8.00		40	32	37	73	0	00	29.86	30.35	
22	CLR	NC			8.00	39	37	38	93	7	25	29.66	30.14	22	OVC	009			8.00		40	32	37	73	5	23	29.83	30.31	
SUNRISE: 0713 FEB 04						SUNSET: 1745						SUNRISE: 0708 FEB 10						SUNSET: 1751											
01	CLR	NC			4.00	35	34	35	96	3	29	29.71	30.19	01	OVC	005			4.00	BR	39	37	38	94	5	VR	29.78	30.26	
04	CLR	NC			8.00	32	30	31	92	3	24	29.72	30.20	04	BKN	150			3.00	BR	36	36	36	99	3	23	29.73	30.21	
07	FEW	NC			5.00	28	27	28	96	0	00	29.80	30.28	07	BKN	150			5.00	BR	36	36	36	99	3	24	29.71	30.19	
10	OVC	250			10.00	39	29	35	67	7	VR	29.89	30.37	10	OVC	150			7.00		41	34	38	76	5	26	29.73	30.21	
13	BKN	200			10.00	46	29	39	51	8	01	29.86	30.35	13	OVC	150			10.00		51	35	44	54	7	25	29.66	30.14	
16	OVC	250			10.00	49	28	40	45	0	00	29.86	30.35	16	OVC	150			10.00		54	37	46	53	8	24	29.59	30.06	
19	OVC	200			10.00	42	31	37	65	0	00	29.95	30.44	19	OVC	075			10.00		49	42	46	77	7	22	29.57	30.05	
22	SCT	NC			8.00	33	30	32	89	0	00	29.97	30.46	22	OVC	130			10.00		45	43	44	93	5	26	29.60	30.08	
SUNRISE: 0713 FEB 05						SUNSET: 1746						SUNRISE: 0707 FEB 11						SUNSET: 1752											
01	CLR	NC			10.00	36	28	33	73	9	08	29.98	30.47	01	OVC	250			10.00		47	41	44	81	9	29	29.61	30.09	
04	CLR	NC			8.00	34	29	32	82	7	08	29.97	30.46	04	OVC	250			10.00		43	34	39	70	3	27	29.65	30.12	
07	BKN	200			9.00	30	25	28	82	7	08	30.04	30.53	07	OVC	200			10.00		38	27	34	64	0	00	29.69	30.16	
10	BKN	250			10.00	37	21	31	52	14	10	30.08	30.58	10	OVC	150			10.00		44	24	36	45	9	30	29.75	30.23	
13	OVC	150			10.00	42	21	34	43	9	04	30.02	30.51	13	OVC	150			10.00		49	20	38	32	5	30	29.72	30.19	
16	OVC	060			10.00	44	21	35	40	8	07	29.96	30.45	16	OVC	150			10.00		50	19	38	29	5	36	29.72	30.19	
19	OVC	065			10.00	43	30	38	60	7	07	29.92	30.41	19	OVC	130			10.00		43	25	36	49	0	00	29.76	30.24	
22	OVC	021			10.00	42	32	38	68	6	05	29.88	30.37	22	OVC	130			10.00		40	28	35	63	0	00	29.78	30.26	
SUNRISE: 0712 FEB 06						SUNSET: 1747						SUNRISE: 0706 FEB 12						SUNSET: 1753											
01	OVC	026			10.00	43	32	38	65	8	08	29.82	30.30	01	OVC	110			10.00		41	30	37	65	0	00	29.76	30.24	
04	OVC	013			10.00	42	37	40	82	5	04	29.73	30.21	04	OVC	048			10.00		41	28	36	60	6	21	29.74	30.22	
07	OVC	010			10.00	43	39	41	86	7	12	29.66	30.14	07	OVC	015			6.00	RA BR	38	35	37	89	3	07	29.76	30.24	
10	OVC	021			9.00	56	51	53	84	8	19	29.59	30.06	10	OVC	005			1.50	RA BR	35	34	35	96	5	07	29.74	30.22	
13	OVC	018			6.00	49	46	47	90	3	03	29.48	29.95	13	OVC	006			2.50	-RA BR	37	36	37	96	6	03	29.70	30.17	
16	OVC	002			0.50	44	43	44	96	3	VR	29.37	29.85	16	OVC	007			2.00	-RA BR	38	37	38	97	6	VR	29.69	30.17	
19	OVC	002			0.50	41	41	41	10																				

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

FEBRUARY 2004

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Oktas</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Oktas</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0705 FEB 13 SUNSET: 1754						SUNRISE: 0658 FEB 19 SUNSET: 1800																							
01	BKN	001			0.75	BR	32	32	32	100	0	00	29.71	30.19	01	SCT	NC			10.00		34	20	29	56	3	24	29.67	30.15
04	VV	001			0.13	FZFG	31	31	31	100	0	00	29.69	30.17	04	CLR	NC			10.00		30	22	27	72	0	00	29.65	30.13
07	FEW	NC			2.50	BR	30	30	30	100	0	00	29.72	30.20	07	SCT	NC			10.00		29	22	27	75	7	23	29.65	30.13
10	FEW	NC			9.00		44	38	41	79	3	28	29.76	30.24	10	SCT	NC			10.00		47	27	39	46	7	28	29.65	30.13
13	BKN	200			10.00		53	34	44	49	8	28	29.72	30.20	13	FEW	NC			10.00		60	22	44	23	9	27	29.55	30.03
16	BKN	250			10.00		56	29	44	36	9	27	29.68	30.16	16	BKN	250			10.00		64	23	46	21	10	27	29.53	30.00
19	BKN	130			10.00		47	32	41	56	0	00	29.69	30.17	19	FEW	NC			10.00		53	28	42	38	3	15	29.53	30.01
22	BKN	250			10.00		40	34	37	79	5	23	29.68	30.16	22	CLR	NC			10.00		45	30	39	56	5	24	29.53	30.00
SUNRISE: 0704 FEB 14 SUNSET: 1755						SUNRISE: 0657 FEB 20 SUNSET: 1801																							
01	CLR	NC			10.00		41	34	38	76	0	00	29.66	30.14	01	CLR	NC			10.00		44	27	37	51	6	22	29.50	29.97
04	OVC	250			10.00		39	34	37	82	5	23	29.63	30.10	04	CLR	NC			10.00		41	28	36	60	0	00	29.49	29.96
07	OVC	095			10.00		41	36	39	82	0	00	29.65	30.13	07	FEW	NC			10.00		40	28	35	63	0	00	29.49	29.97
10	OVC	110			9.00		46	39	43	77	5	24	29.63	30.11	10	BKN	250			10.00		56	33	46	42	10	22	29.48	29.95
13	OVC	080			10.00		51	33	43	50	6	25	29.58	30.06	13	SCT	NC			10.00		65	34	50	32	16	21	29.36	29.83
16	OVC	040			6.00	-RA BR	47	40	44	77	8	21	29.56	30.03	16	BKN	200			10.00		67	35	51	31	23	22	29.28	29.75
19	OVC	015			4.00	-RA BR	44	44	44	100	3	27	29.54	30.02	19	BKN	250			10.00		59	41	50	51	17	22	29.28	29.75
22	OVC	006			5.00	BR	44	44	44	100	3	18	29.51	29.98	22	BKN	250			10.00		56	44	50	65	16	23	29.27	29.74
SUNRISE: 0703 FEB 15 SUNSET: 1756						SUNRISE: 0656 FEB 21 SUNSET: 1802																							
01	OVC	100			1.50	BR	43	43	43	100	0	00	29.50	29.97	01	BKN	250			10.00		56	47	51	72	17	23	29.24	29.71
04	OVC	085			0.50	FG	42	42	42	100	0	00	29.48	29.95	04	BKN	100			10.00		56	48	52	75	15	21	29.18	29.65
07	OVC	075			2.50	BR	42	42	42	100	5	01	29.49	29.96	07	OVC	050			10.00		56	52	54	87	9	24	29.21	29.67
10	OVC	070			10.00		43	29	37	58	16	05	29.53	30.01	10	BKN	035			10.00		59	44	51	58	12	30	29.25	29.72
13	OVC	070			10.00		45	24	37	44	15	07	29.51	29.99	13	FEW	NC			10.00		63	24	46	23	14	29	29.29	29.75
16	OVC	060			7.00	RA	39	33	37	79	9	09	29.53	30.01	16	CLR	NC			10.00		62	29	47	29	9	29	29.33	29.80
19	OVC	050			5.00	-RA BR	35	33	34	93	16	04	29.56	30.04	19	CLR	NC			10.00		54	31	44	42	6	31	29.42	29.89
22	OVC	011			1.00	-SN	33	32	33	96	8	03	29.66	30.14	22	CLR	NC			10.00		49	30	41	48	5	VR	29.50	29.97
SUNRISE: 0702 FEB 16 SUNSET: 1757						SUNRISE: 0655 FEB 22 SUNSET: 1803																							
01	OVC	008			0.75	-SN BR	30	30	30	100	10	03	29.75	30.22	01	CLR	NC			10.00		43	29	37	58	5	VR	29.55	30.02
04	OVC	060			10.00		28	24	27	85	10	04	29.80	30.28	04	CLR	NC			10.00		38	27	34	65	0	00	29.59	30.06
07	FEW	NC			10.00		25	20	23	81	8	01	29.89	30.38	07	SCT	NC			10.00		36	26	32	67	5	31	29.66	30.14
10	CLR	NC			10.00		26	16	23	66	9	01	30.00	30.49	10	SCT	NC			10.00		46	28	39	50	7	VR	29.72	30.19
13	CLR	NC			10.00		31	17	26	56	8	04	30.00	30.50	13	BKN	250			10.00		54	28	43	37	6	VR	29.69	30.16
16	CLR	NC			10.00		35	17	29	48	10	05	29.99	30.48	16	SCT	NC			10.00		56	29	44	36	7	VR	29.66	30.13
19	CLR	NC			10.00		30	17	26	59	5	01	30.02	30.52	19	SCT	NC			10.00		48	31	41	52	0	00	29.70	30.17
22	CLR	NC			10.00		25	19	23	78	0	00	30.07	30.56	22	FEW	NC			10.00		39	33	37	79	3	03	29.74	30.21
SUNRISE: 0701 FEB 17 SUNSET: 1758						SUNRISE: 0653 FEB 23 SUNSET: 1804																							
01	BKN	200			10.00		27	18	24	69	6	03	30.04	30.54	01	CLR	NC			10.00		39	27	34	62	7	06	29.75	30.22
04	BKN	200			10.00		27	20	25	75	3	VR	30.02	30.52	04	CLR	NC			10.00		34	26	31	73	6	03	29.75	30.23
07	OVC	100			10.00		29	20	26	69	5	06	30.00	30.50	07	SCT	NC			9.00		33	31	32	92	6	06	29.79	30.27
10	OVC	015			1.50	-SN BR	29	25	28	85	7	34	30.01	30.51	10	BKN	200			10.00		43	28	37	56	8	07	29.82	30.29
13	OVC	009			4.00	-FZRAPL BR	30	28	29	92	12	02	29.94	30.44	13	OVC	150			10.00		50	32	42	50	3	07	29.77	30.25
16	OVC	008			1.50	-SNPL BR	30	28	29	92	7	01	29.90	30.39	16	OVC	150			10.00		52	33	44	49	5	16	29.73	30.20
19	OVC	018			10.00		31	28	30	89	7	35	29.87	30.37	19	OVC	120			10.00		49	35	43	59	0	00	29.69	30.16
22	OVC	031			10.00		32	28	31	85	7	VR	29.84	30.33	22	OVC	130			10.00		47	36	42	66	7	15	29.68	30.15
SUNRISE: 0659 FEB 18 SUNSET: 1759						SUNRISE: 0652 FEB 24 SUNSET: 1805																							
01	OVC	020			10.00		32	26	30	79	5	VR	29.82	30.31	01	OVC	200			10.00		45	38	42	77	0	00	29.64	30.11
04	FEW	NC			10.00		29	23	27	78	3	VR	29.77	30.25	04	OVC	120			10.00		46	35	41	66	7	14	29.56	30.03
07	FEW	NC			10.00		27	22	25	81	3	VR	29.80	30.28	07	OVC	100			10.00		45	36	41	71	3	12	29.54	30.01
10	CLR	NC			10.00		35	21	30	57	6	VR	29.81	30.30	10	OVC	013			10.00		48	39	44	71	0	00	29.52	29.99
13	FEW	NC			10.00		44	23	36	43	7	VR	29.75	30.23	13	OVC	070			10.00		55	47	51	74	0	00	29.46	29.93
16	FEW	NC			10.00		50	22	39	33	8	33	29.71	30.19	16	OVC	075			10.00		56	44	50	65	9	03	29.42	29.89
19	FEW	NC			10.00		43	20	34	40	0	00	29.66	30.15	19	OVC	130			10.00		53	39	46	59	10	02	29.45	29.92
22	CLR	NC			10.00		38	21	32	51	5	29	29.68	30.16	22	OVC	060			10.00		47	39	43	74	9	04	29.52	29.99

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

FEBRUARY 2004

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		
	SKY COVER	CEILING 100'S OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			
01	OVC	200			10.00		42	36	39	79	10	03	29.54	30.02
04	OVC	200			10.00		38	32	36	79	7	VR	29.61	30.09
07	BKN	250			10.00		35	25	31	67	13	04	29.66	30.14
10	SCT	NC			10.00		39	19	32	45	15	05	29.70	30.18
13	SCT	NC			10.00		48	19	37	32	15	03	29.67	30.15
16	BKN	250			10.00		50	19	38	29	16	04	29.64	30.11
19	SCT	NC			10.00		43	17	34	35	8	04	29.68	30.16
22	BKN	250			10.00		40	16	32	38	12	05	29.73	30.20
SUNRISE: 0651 FEB 25 SUNSET: 1806														
01	BKN	250			10.00		37	15	30	41	13	05	29.74	30.22
04	OVC	250			10.00		35	18	29	50	10	06	29.74	30.22
07	OVC	110			10.00		34	17	28	50	14	04	29.76	30.23
10	OVC	070			10.00		35	18	29	50	15	05	29.77	30.25
13	OVC	011			0.75	-SN BR	32	30	31	92	10	05	29.75	30.23
16	OVC	011			2.00	-SN BR	32	32	32	100	16	03	29.67	30.15
19	OVC	035			10.00		34	27	31	76	12	04	29.63	30.11
22	OVC	037			10.00		36	21	31	55	15	02	29.64	30.13
SUNRISE: 0650 FEB 26 SUNSET: 1807														
01	OVC	017			0.50	SN BR	31	31	31	100	14	02	29.68	30.16
04	OVC	008			0.50	-SN BR	31	31	31	100	14	02	29.64	30.12
07	OVC	026			3.00	-FZRA BR	32	31	32	96	12	03	29.66	30.14
10	OVC	032			8.00	-FZRAPL	33	30	32	89	9	02	29.68	30.16
13	OVC	060			10.00		41	25	35	53	7	VR	29.67	30.16
16	BKN	150			10.00		45	22	36	40	8	03	29.68	30.16
19	BKN	200			10.00		39	24	33	55	3	34	29.74	30.23
22	CLR	NC			10.00		38	19	31	47	5	02	29.81	30.29
SUNRISE: 0648 FEB 27 SUNSET: 1808														
01	CLR	NC			10.00		32	19	28	59	0	00	29.83	30.32
04	CLR	NC			10.00		32	18	27	56	6	36	29.84	30.32
07	CLR	NC			10.00		27	18	24	69	0	00	29.88	30.37
10	CLR	NC			10.00		42	19	34	40	7	02	29.93	30.42
13	CLR	NC			10.00		51	22	40	32	7	05	29.92	30.41
16	FEW	NC			10.00		58	25	44	28	5	06	29.89	30.38
19	FEW	NC			10.00		44	30	38	58	0	00	29.91	30.40
22	CLR	NC			10.00		34	28	32	79	0	00	29.93	30.42
SUNRISE: 0647 FEB 28 SUNSET: 1809														
01	CLR	NC			10.00		30	26	29	85	0	00	29.94	30.43
04	CLR	NC			10.00		27	27	27	100	0	00	29.92	30.41
07	FEW	NC			10.00		27	26	27	96	0	00	29.93	30.42
10	SCT	NC			10.00		49	34	42	57	7	21	29.95	30.45
13	BKN	250			10.00		64	31	49	29	9	22	29.91	30.40
16	OVC	200			10.00		62	32	48	32	12	22	29.85	30.34
19	BKN	200			10.00		50	30	41	46	8	21	29.85	30.35
22	FEW	NC			10.00		48	29	40	48	0	00	29.87	30.35
SUNRISE: 0646 FEB 29 SUNSET: 1810														
SUNRISE: FEB 30 SUNSET:														

HOUR (LST)	SKY COVER	CEILING 100'S OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
							DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
3-HOURLY OBSERVATION NOTES														
Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.														
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.														
NC= No ceiling detected.														
& = Original observation contained additional weather elements.														
See page 3 for additional notes.														
SUMMARY BY HOUR														
HOUR (LST)	AVERAGES								RESULTANT					
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)			
							STATION	SEA LEVEL			SPEED	DIRECTION		
01			37	29	34	74	29.71	30.19	7.99	5	1	2		
02			36	29	34	77	29.71	30.19	8.05	5	2	3		
03			36	29	33	77	29.70	30.18	8.27	5	1	3		
04			35	29	33	79	29.70	30.18	8.25	5	0	0		
05			35	29	33	79	29.70	30.18	8.18	5	1	5		
06			34	29	32	81	29.72	30.20	8.23	4	1	33		
07			34	28	32	81	29.73	30.21	8.34	4	2	3		
08			35	29	33	79	29.74	30.22	8.21	5	2	4		
09			38	29	35	72	29.75	30.23	8.47	7	2	2		
10			41	28	36	63	29.75	30.24	8.90	8	2	1		
11			44	28	38	56	29.76	30.24	9.14	8	3	35		
12			46	28	39	52	29.74	30.22	9.02	7	2	35		
13			47	28	39	51	29.71	30.20	9.08	8	2	35		
14			48	28	40	50	29.69	30.17	8.83	8	2	34		
15			49	28	40	49	29.68	30.16	8.91	8	2	33		
16			49	28	40	50	29.68	30.16	8.59	8	2	33		
17			48	28	40	52	29.68	30.16	8.86	7	1	35		
18			45	29	39	56	29.69	30.17	9.02	6	1	36		
19			43	30	38	62	29.70	30.18	9.16	5	1	36		
20			41	30	37	67	29.70	30.18	9.05	4	1	2		
21			40	30	36	68	29.71	30.19	9.21	5	2	2		
22			39	30	36	71	29.72	30.20	8.77	5	1	1		
23			39	30	35	71	29.71	30.19	8.52	6	1	1		
24			39	29	35	71	29.71	30.19	8.41	5	1	2		

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

NC= No ceiling detected.

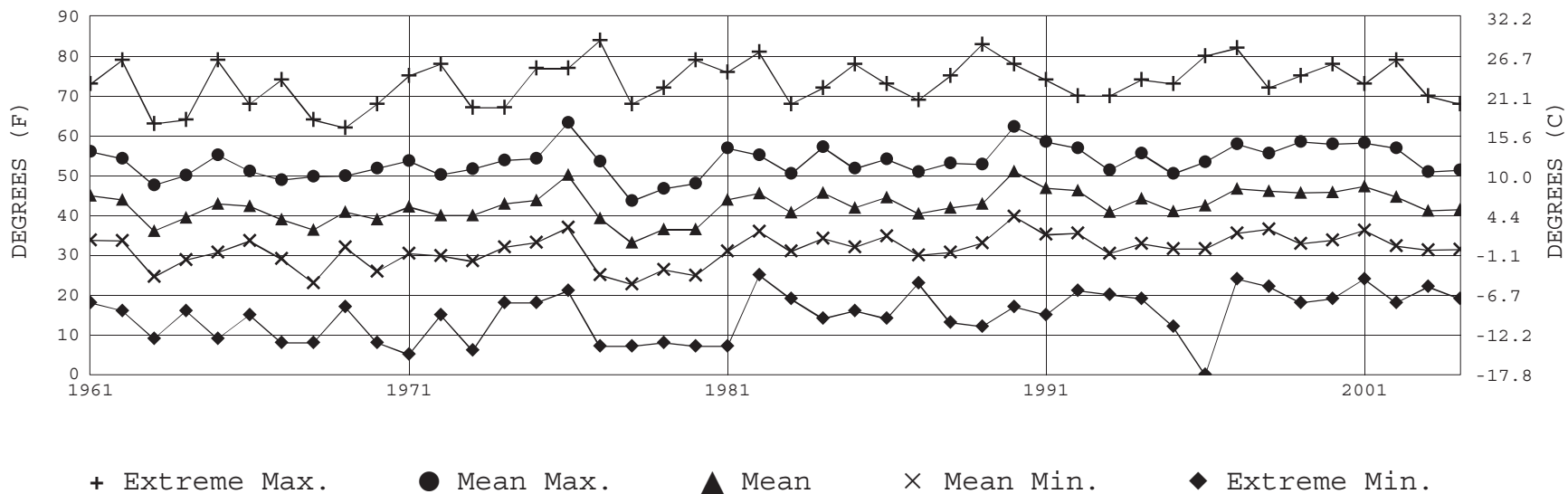
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

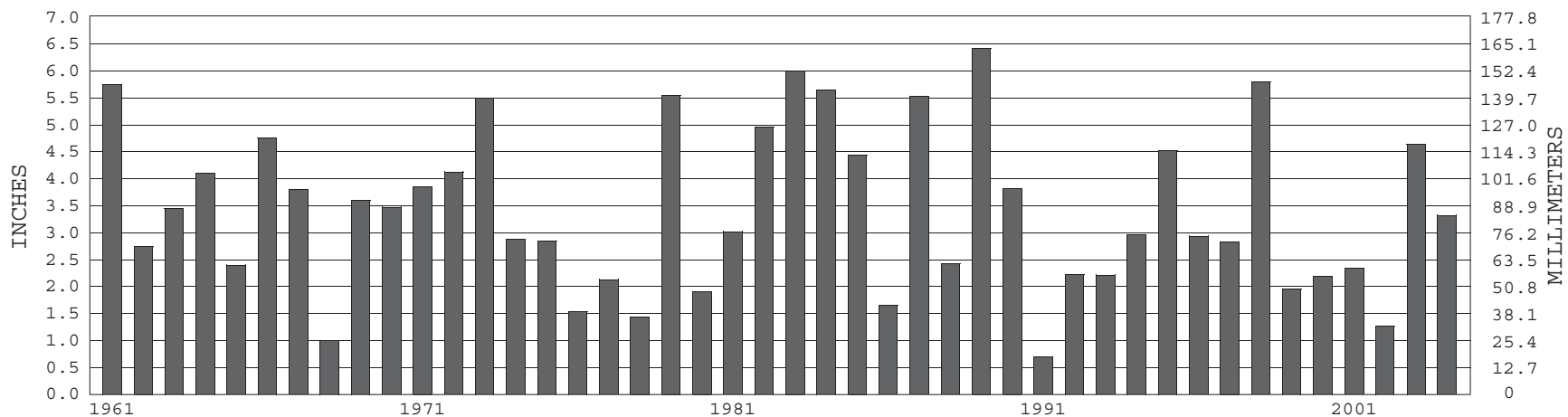
HOUR (LST)	AVERAGES									RESULTANT WIND		
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			37	29	34	74	29.71	30.19	7.99	5	1	2
02			36	29	34	77	29.71	30.19	8.05	5	2	3
03			36	29	33	77	29.70	30.18	8.27	5	1	3
04			35	29	33	79	29.70	30.18	8.25	5	0	0
05			35	29	33	79	29.70	30.18	8.18	5	1	5
06			34	29	32	81	29.72	30.20	8.23	4	1	33
07			34	28	32	81	29.73	30.21	8.34	4	2	3
08			35	29	33	79	29.74	30.22	8.21	5	2	4
09			38	29	35	72	29.75	30.23	8.47	7	2	2
10			41	28	36	63	29.75	30.24	8.90	8	2	1
11			44	28	38	56	29.76	30.24	9.14	8	3	35
12			46	28	39	52	29.74	30.22	9.02	7	2	35
13			47	28	39	51	29.71	30.20	9.08	8	2	35
14			48	28	40	50	29.69	30.17	8.83	8	2	34
15			49	28	40	49	29.68	30.16	8.91	8	2	33
16			49	28	40	50	29.68	30.16	8.59	8	2	33
17			48	28	40	52	29.68	30.16	8.86	7	1	35
18			45	29	39	56	29.69	30.17	9.02	6	1	36
19			43	30	38	62	29.70	30.18	9.16	5	1	36
20			41	30	37	67	29.70	30.18	9.05	4	1	2
21			40	30	36	68	29.71	30.19	9.21	5	2	2
22			39	30	36	71	29.72	30.20	8.77	5	1	1
23			39	30	35	71	29.71	30.19	8.52	6	1	1
24			39	29	35	71	29.71	30.19	8.41	5	1	2

RALEIGH/DURHAM, NC FEBRUARY TEMPERATURES



Long-Term (1961-2004) Mean: 42.4 1971-2000 Normal: 43.0

RALEIGH/DURHAM, NC FEBRUARY PRECIPITATION



Long-Term (1961-2004) Mean Monthly Total: 3.42

1971-2000 Normal: 3.47



FEBRUARY 2004

RALEIGH/DURHAM, NC

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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