



# JUNE 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	86	61	74	3	56	64	0	9	TSRA RA FG+ BR HZ	0		0.0	0.00	29.37	29.83	5.0	27	6.1	25	26	20	26	01	
02	91	58*	75	4	57	64	0	10		0		0.0	0.00	29.50	29.96	5.2	23	5.8	25	23	22	23	02	
03	89	63	76	4	57	64	0	11		0		0.0	0.00	29.60	30.06	2.7	03	3.4	14	04	12	04	03	
04	75	65	70	-2	64	66	0	5		0		0.0	1.29	29.56	30.02	4.7	04	6.4	17	05	15	05	04	
05	81	62	72	0	61	64	0	7		0		0.0	0.00	29.54	30.00	2.1	35	5.0	14	27	10	03	05	
06	76	60	68*	-5	61	64	0	3	BR	0		0.0	0.00	29.60	30.07	3.7	06	4.2	18	09	10	09	06	
07	84	65	75	2	68	70	0	10	BR	0		0.0	0.00	29.67	30.13	3.7	08	5.0	18	12	14	12	07	
08	86	70	78	5	69	71	0	13	TS RA FG BR HZ	0		0.0	T	29.75	30.21	3.4	10	4.9	22	09	18	09	08	
09	89	67	78	4	69	71	0	13	TS MIFG BR HZ	0		0.0	0.00	29.69	30.16	5.9	23	6.6	25	23	21	22	09	
10	91	69	80	6	70	72	0	15	TS TSRA BR SQ	0		0.0	0.78	29.52	29.98	7.1	23	7.8	40	23	31*	23	10	
11	93	70	82	8	68	72	0	17	TS TSRA MIFG BR	0		0.0	0.24	29.45	29.90	4.1	24	5.2	41*	28	30	29	11	
12	74	65	70	-4	65	67	0	5	BR	0		0.0	0.00	29.60	30.06	5.3	05	6.7	20	04	17	04	12	
13	78	62	70	-4	61	65	0	5	RA	0		0.0	0.05	29.71	30.17	6.2	15	7.6	24	21	17	20	13	
14	85	70	78	3	67	70	0	13	RA	0		0.0	0.04	29.65	30.11	7.9	20	8.3	20	21	16	22	14	
15	84	73	79	4	71	73	0	14	RA BR	0		0.0	0.28	29.65	30.11	7.3	20	7.9	20	23	17	22	15	
16	90	74	82	7	73	75	0	17	TSRA RA BR	0		0.0	T	29.68	30.14	9.1	20	9.7	26	22	24	21	16	
17	92	75	84	9	74	76	0	19	BR HZ	0		0.0	0.00	29.63	30.09	8.6	23	9.0	18	23	16	23	17	
18	96*	74	85*	10	72	76	0	20	BR HZ	0		0.0	0.00	29.54	30.00	5.0	24	6.3	29	23	18	24	18	
19	90	71	81	5	69	72	0	16	TS TSRA RA BR HZ	0		0.0	0.04	29.49	29.95	2.6	34	3.6	22	36	16	01	19	
20	81	62	72	-4	55	62	0	7	BR	0		0.0	0.00	29.57	30.03	4.9	03	5.4	21	04	17	04	20	
21	80	61	71	-5	60	65	0	6		0		0.0	0.00	29.55	30.01	5.2	15	6.2	15	16	13	17	21	
22	90	68	79	3	67	71	0	14	RA BR HZ	0		0.0	T	29.46	29.92	7.5	24	7.9	23	22	17	24	22	
23	93	69	81	5	70	72	0	16	TS TSRA RA BR HZ	0		0.0	0.62	29.51	29.96	3.6	25	5.8	17	34	12	35	23	
24	85	71	78	2	71	72	0	13	RA BR HZ	0		0.0	T	29.59	30.05	1.7	20	3.1	13	18	9	19	24	
25	88	73	81	4	72	74	0	16	RA BR HZ	0		0.0	0.09	29.56	30.02	5.8	23	6.3	24	23	20	23	25	
26	83	69	76	-1	68	70	0	11	RA BR	0		0.0	0.47	29.52	29.98	1.9	28	5.2	20	23	16	23	26	
27	78	65	72	-5	62	66	0	7	RA BR	0		0.0	0.05	29.68	30.14	3.8	02	4.8	14	04	12	03	27	
28	79	68	74	-3	70	71	0	9	RA BR HZ	0		0.0	0.22	29.60	30.06	0.8	31	3.5	12	29	9	30	28	
29	85	65	75	-2	64	68	0	10	RA MIFG BR HZ	0		0.0	0.05	29.66	30.12	1.1	06	2.1	14	05	12	05	29	
30	86	66	76	-1	67	70	0	11	RA MIFG BR HZ	0		0.0	T	29.69	30.16	2.0	20	3.2	25	23	23	24	30	
85.3 67.0 76.2 ■■ 65.9 69.2 0.0 11.4 < MONTHLY AVERAGES TOTALS->											0.0	4.22	29.59	30.05	0.7	20	5.8	<- MONTHLY AVERAGES						
- .2 3.2 1.5 ■■ <-----DEPARTURE FROM NORMAL----->											0.80	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.29 DATE :04				SEA LEVEL PRESSURE DATE TIME											
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0 DATE :				MAXIMUM				: 30.26 08 0751							
TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM				: 29.74 01 0151							
HEATING: 0 -5 3317 -148									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 9		MINIMUM TEMP ≤ 32 : 0		PRECIPITATION ≥ 0.01 INCH : 13									
COOLING: 342 49 704 244											MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 7									
											THUNDERSTORMS : 8		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH : 0									

JUNE 2004  
RALEIGH/DURHAM, NC

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

JUNE 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			0.00
02													02												02			0.00
03													03												03			0.00
04													04	0.01	0.04	T	T								04			1.29
05										T	0.01	0.64	0.59	05											05			0.00
06													06												06			0.00
07													07												07			0.00
08													08						T						08			T
09													09												09			0.00
10													10						0.34				T		10	0.34		0.78
11													11									0.24			11			0.24
12													12												12			0.00
13											0.05		13												13			0.05
14													14												14			0.04
15													15		T	0.21	T							T	15	0.00	0.21	0.28
16													16		T				T						16			T
17													17												17			0.00
18													18												18			0.00
19													19						0.01	0.02	0.01				19			0.04
20													20											T	20			0.00
21													21												21			0.00
22													22												22			T
23													23				T	0.25	0.37	T					23			0.62
24													24	T	T										24			T
25													25			T	0.03	T	T			0.06	T	T	25			0.09
26													26	T	T										26			0.47
27					0.01	T	T	0.07	0.06	0.27	0.06		27											0.01	27	0.04		0.05
28	0.02	T	0.01						0.03	T			28	T	0.07	0.01	0.04						0.04	28	0.19		0.22	
29	0.08	T											29												29	0.09		0.05
30													30				T	T							30			T

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

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**  
**JUNE 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							8.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							.50	10.00	
05							7.00	10.00	
06							6.00	10.00	
07							5.00	10.00	
08							.25	10.00	
09							3.00	10.00	
10							1.00	10.00	
11							1.75	10.00	
12							5.00	10.00	
13							1.50	10.00	
14							10.00	10.00	
15							1.00	10.00	
16							6.00	10.00	
17							4.00	10.00	
18							2.50	10.00	
19							2.50	10.00	
20							5.00	10.00	
21							9.00	10.00	
22							5.00	10.00	
23							.75	10.00	
24							2.50	8.00	
25							3.00	10.00	
26							1.25	10.00	
27							5.00	10.00	
28							1.50	6.00	
29							2.00	10.00	
30							3.00	8.00	
<b>MONTHLY AVGS</b>							4.32	9.73	
<p align="center"><b>SUNSHINE (MINUTES)</b></p> <p>Total:                  Possible:</p> <p>                              Percent Possible:</p>									
<p align="center"><b>NUMBER OF DAYS WITH:</b></p> <p align="center"><b>SKY CONDITION</b></p> <p align="center">CLR   PTLY CLDY   CLOUDY   MISSING</p> <p align="center">30</p> <p align="center"><b>MINIMUM VISIBILITY (MILES)</b></p> <p align="center">&lt;=0.25      &lt;=3.0      &gt;=7.0</p> <p align="center">1                      16                      6</p>									

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

JUNE 2004

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0500 JUN 01						SUNSET: 1926						SUNRISE: 0459 JUN 07						SUNSET: 1929											
01	FEW	NC			10.00	70	63	66	79	5	VR	29.28	29.74	01	OVC	110			10.00	70	66	67	87	5	09	29.62	30.08		
04	CLR	NC			10.00	63	62	62	97	0	00	29.30	29.76	04	SCT	NC			6.00	66	65	65	96	5	04	29.62	30.09		
07	SCT	NC			10.00	68	62	64	81	3	VR	29.37	29.83	07	OVC	200			5.00	69	66	67	90	0	00	29.65	30.11		
10	BKN	250			10.00	80	51	63	37	15	27	29.39	29.85	10	OVC	100			9.00	78	68	71	71	7	03	29.69	30.15		
13	BKN	070			10.00	84	51	64	32	12	26	29.37	29.83	13	OVC	038			8.00	80	67	71	64	6	08	29.68	30.14		
16	BKN	200			10.00	83	50	64	32	9	29	29.38	29.84	16	OVC	200			8.00	79	68	72	69	13	13	29.66	30.12		
19	BKN	150			10.00	76	55	63	48	7	24	29.39	29.85	19	BKN	250			7.00	78	70	73	76	5	15	29.68	30.14		
22	SCT	NC			10.00	68	57	62	68	3	20	29.44	29.90	22	CLR	NC			6.00	71	68	69	90	3	09	29.72	30.18		
SUNRISE: 0460 JUN 02						SUNSET: 1926						SUNRISE: 0459 JUN 08						SUNSET: 1930											
01	BKN	200			10.00	63	57	60	81	0	00	29.45	29.91	01	CLR	NC			6.00	72	69	70	91	8	12	29.72	30.18		
04	SCT	NC			10.00	60	57	58	90	0	00	29.46	29.92	04	OVC	003			0.50	70	69	69	97	7	16	29.74	30.20		
07	BKN	200			10.00	67	59	62	76	5	24	29.51	29.97	07	OVC	002			0.25	71	70	70	96	5	07	29.78	30.24		
10	SCT	NC			10.00	81	59	67	47	7	VR	29.52	29.98	10	BKN	035			7.00	79	70	73	74	7	07	29.78	30.24		
13	OVC	250			10.00	88	55	68	33	12	26	29.51	29.97	13	BKN	032			7.00	83	69	74	63	6	VR	29.77	30.23		
16	SCT	NC			10.00	89	54	67	30	15	24	29.48	29.94	16	OVC	150			7.00	82	69	73	65	7	04	29.74	30.20		
19	BKN	250			10.00	80	56	65	44	7	25	29.49	29.95	19	OVC	150			9.00	75	68	70	79	0	00	29.73	30.19		
22	SCT	NC			10.00	68	58	62	70	0	00	29.55	30.01	22	BKN	250			8.00	73	68	70	84	0	00	29.75	30.21		
SUNRISE: 0460 JUN 03						SUNSET: 1927						SUNRISE: 0459 JUN 09						SUNSET: 1930											
01	BKN	120			10.00	70	55	61	59	0	00	29.57	30.03	01	BKN	250			8.00	72	69	70	91	6	26	29.74	30.20		
04	OVC	200			10.00	65	57	60	76	0	00	29.58	30.04	04	BKN	250			4.00	69	68	68	96	0	00	29.73	30.19		
07	OVC	120			10.00	68	61	64	78	0	00	29.62	30.08	07	OVC	250			4.00	74	68	70	82	0	00	29.75	30.21		
10	BKN	250			10.00	81	54	65	39	7	34	29.64	30.10	10	OVC	150			10.00	83	70	74	65	6	22	29.75	30.21		
13	BKN	250			10.00	87	57	68	36	6	03	29.62	30.08	13	BKN	036			10.00	88	69	75	54	6	VR	29.69	30.14		
16	SCT	NC			10.00	88	55	68	33	9	01	29.57	30.03	16	BKN	150			10.00	83	71	75	67	16	21	29.66	30.11		
19	SCT	NC			10.00	81	60	68	49	3	03	29.60	30.06	19	BKN	200			10.00	74	68	70	82	12	24	29.63	30.09		
22	SCT	NC			10.00	76	56	64	50	7	08	29.62	30.07	22	BKN	130			10.00	71	68	69	90	8	24	29.65	30.11		
SUNRISE: 0459 JUN 04						SUNSET: 1928						SUNRISE: 0458 JUN 10						SUNSET: 1931											
01	OVC	110			10.00	73	58	64	59	3	04	29.61	30.06	01	BKN	130			10.00	71	68	69	90	6	23	29.62	30.08		
04	OVC	100			10.00	70	61	64	73	6	03	29.60	30.06	04	SCT	NC			8.00	70	68	69	93	12	22	29.58	30.03		
07	OVC	012			8.00	70	64	66	82	8	07	29.59	30.04	07	SCT	NC			10.00	74	69	71	85	12	24	29.58	30.03		
10	OVC	009			2.00	71	68	69	90	8	03	29.57	30.03	10	BKN	250			10.00	82	70	74	67	9	23	29.56	30.02		
13	OVC	005			4.00	66	65	65	96	10	05	29.55	30.01	13	BKN	031			10.00	89	71	76	55	8	24	29.50	29.96		
16	OVC	005			7.00	67	65	66	93	6	07	29.51	29.98	16	OVC	150			9.00	86	70	75	59	8	25	29.44	29.90		
19	OVC	003			2.00	67	65	66	93	3	VR	29.50	29.96	19	BKN	130			7.00	76	71	73	85	0	00	29.45	29.91		
22	OVC	002			0.75	65	64	64	97	3	27	29.53	30.00	22	BKN	130			6.00	72	71	71	97	0	00	29.50	29.95		
SUNRISE: 0459 JUN 05						SUNSET: 1928						SUNRISE: 0458 JUN 11						SUNSET: 1931											
01	OVC	006			7.00	64	63	63	96	6	29	29.52	29.98	01	OVC	110			3.00	72	71	71	97	0	00	29.49	29.95		
04	BKN	008			10.00	62	60	61	93	0	00	29.51	29.97	04	OVC	120			4.00	71	70	70	96	3	25	29.47	29.93		
07	BKN	014			10.00	64	60	62	87	5	34	29.55	30.01	07	BKN	250			4.00	73	71	72	94	0	00	29.48	29.94		
10	BKN	022			10.00	70	60	64	71	5	VR	29.56	30.02	10	BKN	200			10.00	85	65	72	51	6	30	29.48	29.94		
13	BKN	032			10.00	77	61	67	58	7	VR	29.54	30.01	13	BKN	250			10.00	90	63	72	41	5	VR	29.44	29.89		
16	BKN	080			10.00	79	61	68	54	8	01	29.52	29.98	16	BKN	250			10.00	90	68	75	49	12	22	29.39	29.84		
19	SCT	NC			10.00	73	63	67	71	5	03	29.53	29.99	19	BKN	250			10.00	85	69	74	59	7	24	29.39	29.84		
22	FEW	NC			10.00	67	62	64	84	6	06	29.57	30.03	22	BKN	130			9.00	73	70	71	90	12	23	29.46	29.91		
SUNRISE: 0459 JUN 06						SUNSET: 1929						SUNRISE: 0458 JUN 12						SUNSET: 1932											
01	BKN	200			10.00	64	61	62	90	8	04	29.57	30.03	01	BKN	090			5.00	72	71	71	97	0	00	29.44	29.89		
04	FEW	NC			10.00	61	57	59	87	7	06	29.58	30.04	04	FEW	NC			10.00	71	68	69	90	8	02	29.47	29.93		
07	BKN	048			10.00	62	57	59	84	6	07	29.62	30.08	07	BKN	008			10.00	68	65	66	90	12	04	29.56	30.02		
10	OVC	026			10.00	68	58	62	70	6	09	29.64	30.11	10	BKN	018			10.00	70	63	66	79	8	04	29.63	30.09		
13	OVC	027			10.00	73	61	66	66	3	VR	29.62	30.08	13	OVC	018			10.00	72	64	67	76	10	03	29.64	30.10		
16	OVC	023			10.00	76	64	68	67	0	00	29.59	30.05	16	OVC	038			8.00	72	62	66	71	7	06	29.61	30.07		
19	OVC	120			10.00	73	65	68	76	6	08	29.59	30.05	19	BKN	039			10.00	72	64	67	76	5	16	29.66	30.12		
22	BKN	100			6.00	68	65	66	90	0	00	29.61	30.08	22	SCT	NC			9.00	66	64	65	93	0	00	29.71	30.18		

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

JUNE 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>Okta</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>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0458 JUN 13 SUNSET: 1932						SUNRISE: 0459 JUN 19 SUNSET: 1934																							
01	FEW	NC			10.00		65	57	60	76	10	11	29.72	30.18	01	CLR	NC			8.00	75	72	73	90	0	00	29.51	29.96	
04	BKN	080			10.00		63	53	57	70	8	13	29.70	30.16	04	FEW	NC			7.00	73	70	71	90	3	24	29.49	29.94	
07	BKN	070			10.00		64	53	58	68	5	11	29.76	30.22	07	FEW	NC			6.00	76	70	72	82	3	VR	29.51	29.96	
10	BKN	100			10.00		69	58	62	68	8	11	29.75	30.21	10	BKN	070			10.00	84	67	73	57	8	31	29.52	29.97	
13	OVC	055			10.00		76	64	68	67	8	16	29.72	30.19	13	BKN	060			10.00	88	65	73	46	8	35	29.48	29.94	
16	OVC	050			10.00		77	66	70	69	6	16	29.67	30.13	16	BKN	075			10.00	89	66	74	47	8	03	29.43	29.89	
19	OVC	028			10.00		75	67	70	76	8	16	29.66	30.12	19	OVC	100			4.00	75	72	73	90	5	31	29.49	29.95	
22	OVC	029			10.00		74	64	68	71	9	19	29.69	30.15	22	BKN	075			4.00	73	72	72	96	0	00	29.52	29.97	
SUNRISE: 0458 JUN 14 SUNSET: 1933						SUNRISE: 0459 JUN 20 SUNSET: 1934																							
01	OVC	035			10.00		72	62	66	71	9	19	29.68	30.14	01	FEW	NC			6.00	71	69	70	94	6	02	29.52	29.98	
04	OVC	037			10.00		71	63	66	76	7	20	29.67	30.13	04	FEW	NC			6.00	68	65	66	90	5	36	29.54	30.00	
07	OVC	031			10.00		70	65	67	84	6	17	29.69	30.15	07	SCT	NC			10.00	68	59	63	73	13	05	29.59	30.05	
10	OVC	027			10.00		78	66	70	67	9	18	29.68	30.14	10	SCT	NC			10.00	74	53	62	48	9	06	29.61	30.07	
13	OVC	027			10.00		80	69	73	69	7	VR	29.65	30.11	13	SCT	NC			10.00	77	49	61	37	7	05	29.58	30.04	
16	BKN	050			10.00		83	70	74	65	9	19	29.60	30.06	16	SCT	NC			10.00	80	45	60	29	7	VR	29.55	30.01	
19	BKN	130			10.00		80	69	73	69	15	21	29.60	30.06	19	FEW	NC			10.00	77	49	61	37	6	03	29.55	30.01	
22	OVC	033			10.00	-RA	76	70	72	82	8	19	29.65	30.11	22	CLR	NC			10.00	64	53	58	68	5	06	29.57	30.03	
SUNRISE: 0458 JUN 15 SUNSET: 1933						SUNRISE: 0459 JUN 21 SUNSET: 1935																							
01	OVC	130			10.00		74	69	71	85	6	20	29.64	30.10	01	CLR	NC			10.00	64	53	58	68	5	11	29.55	30.01	
04	OVC	037			10.00		73	68	70	84	8	19	29.64	30.09	04	CLR	NC			10.00	63	60	61	90	6	15	29.56	30.02	
07	BKN	090			10.00		74	68	70	82	10	20	29.66	30.12	07	BKN	200			10.00	66	61	63	84	5	15	29.60	30.06	
10	OVC	020			10.00		81	71	74	72	10	22	29.67	30.13	10	BKN	200			10.00	76	63	68	64	10	13	29.59	30.05	
13	OVC	030			10.00		84	72	76	67	7	19	29.65	30.11	13	OVC	055			10.00	80	59	67	49	9	20	29.56	30.02	
16	BKN	055			9.00		78	74	75	87	10	20	29.63	30.09	16	OVC	130			10.00	78	60	67	54	6	14	29.53	29.99	
19	BKN	150			10.00		77	70	72	79	10	19	29.63	30.09	19	OVC	130			10.00	77	60	66	56	5	16	29.52	29.98	
22	OVC	035			10.00		75	72	73	90	5	15	29.69	30.15	22	OVC	130			10.00	73	62	66	69	3	15	29.51	29.97	
SUNRISE: 0459 JUN 16 SUNSET: 1933						SUNRISE: 0460 JUN 22 SUNSET: 1935																							
01	OVC	050			10.00		74	72	73	94	8	19	29.68	30.14	01	BKN	200			10.00	69	60	64	73	6	21	29.49	29.95	
04	OVC	011			10.00		75	71	72	88	7	20	29.66	30.11	04	OVC	095			10.00	70	63	66	79	5	18	29.47	29.93	
07	OVC	007			7.00		76	73	74	91	9	20	29.69	30.15	07	OVC	008			8.00	71	67	68	87	0	00	29.48	29.94	
10	OVC	016			8.00		79	73	75	82	12	23	29.71	30.17	10	OVC	014			7.00	77	70	72	79	9	25	29.48	29.94	
13	OVC	038			7.00		83	74	77	74	12	20	29.70	30.15	13	BKN	032			10.00	86	70	75	59	14	23	29.45	29.91	
16	BKN	042			10.00		85	74	77	70	16	17	29.65	30.11	16	SCT	NC			10.00	89	68	75	50	12	25	29.40	29.85	
19	BKN				10.00		79	74	75	85	8	19	29.66	30.12	19	SCT	NC			9.00	83	69	74	63	9	23	29.42	29.88	
22	SCT	NC			10.00		76	74	75	94	12	20	29.69	30.15	22	BKN	130			10.00	79	65	70	62	10	24	29.48	29.93	
SUNRISE: 0459 JUN 17 SUNSET: 1934						SUNRISE: 0460 JUN 23 SUNSET: 1935																							
01	OVC	007			8.00		75	73	74	94	9	23	29.67	30.13	01	OVC	100			10.00	76	68	71	77	5	26	29.46	29.92	
04	OVC	009			7.00		76	73	74	91	7	23	29.66	30.12	04	BKN	200			10.00	72	67	69	84	5	27	29.45	29.91	
07	OVC	007			4.00	BR	76	74	75	94	10	23	29.68	30.14	07	BKN	200			7.00	74	70	71	88	10	23	29.51	29.96	
10	OVC	011			6.00	HZ	79	74	75	85	9	25	29.69	30.14	10	BKN	150			7.00	81	71	74	72	6	22	29.51	29.96	
13	BKN	024			7.00		89	76	80	65	7	22	29.65	30.10	13	BKN	200			9.00	89	70	76	53	8	23	29.49	29.94	
16	BKN	200			8.00		91	74	79	57	10	21	29.58	30.03	16	OVC	060			10.00	77	71	73	82	9	01	29.50	29.96	
19	SCT	NC			6.00	HZ	86	74	77	67	9	24	29.58	30.03	19	OVC	060			5.00	73	71	72	94	5	02	29.52	29.98	
22	CLR	NC			10.00		80	72	75	76	6	22	29.59	30.05	22	BKN	015			3.00	72	71	71	97	0	00	29.56	30.02	
SUNRISE: 0459 JUN 18 SUNSET: 1934						SUNRISE: 0500 JUN 24 SUNSET: 1935																							
01	BKN	180			6.00	BR	78	75	76	90	8	24	29.59	30.05	01	OVC	020			3.00	72	71	71	97	3	26	29.54	30.00	
04	CLR	NC			3.00	BR	75	74	74	96	6	23	29.56	30.01	04	OVC	015			4.00	71	70	70	96	5	VR	29.52	29.98	
07	FEW	NC			4.00	BR	78	75	76	90	8	24	29.58	30.04	07	BKN	012			2.50	72	69	70	91	0	00	29.59	30.05	
10	SCT	NC			10.00		88	73	77	61	7	VR	29.59	30.04	10	OVC	010			2.50	76	71	73	85	0	00	29.61	30.07	
13	BKN	050			10.00		94	71	78	48	9	25	29.54	30.00	13	BKN	040			5.00	77	72	74	85	3	34	29.61	30.07	
16	BKN	200			10.00		94	71	78	48	10	25	29.47	29.93	16	BKN	250			6.00	85	71	75	63	5	20	29.59	30.05	
19	SCT	NC			10.00		86	69	74	57	7	VR	29.48	29.94	19	BKN	250			7.00	80	72							

## RALEIGH/DURHAM, NC

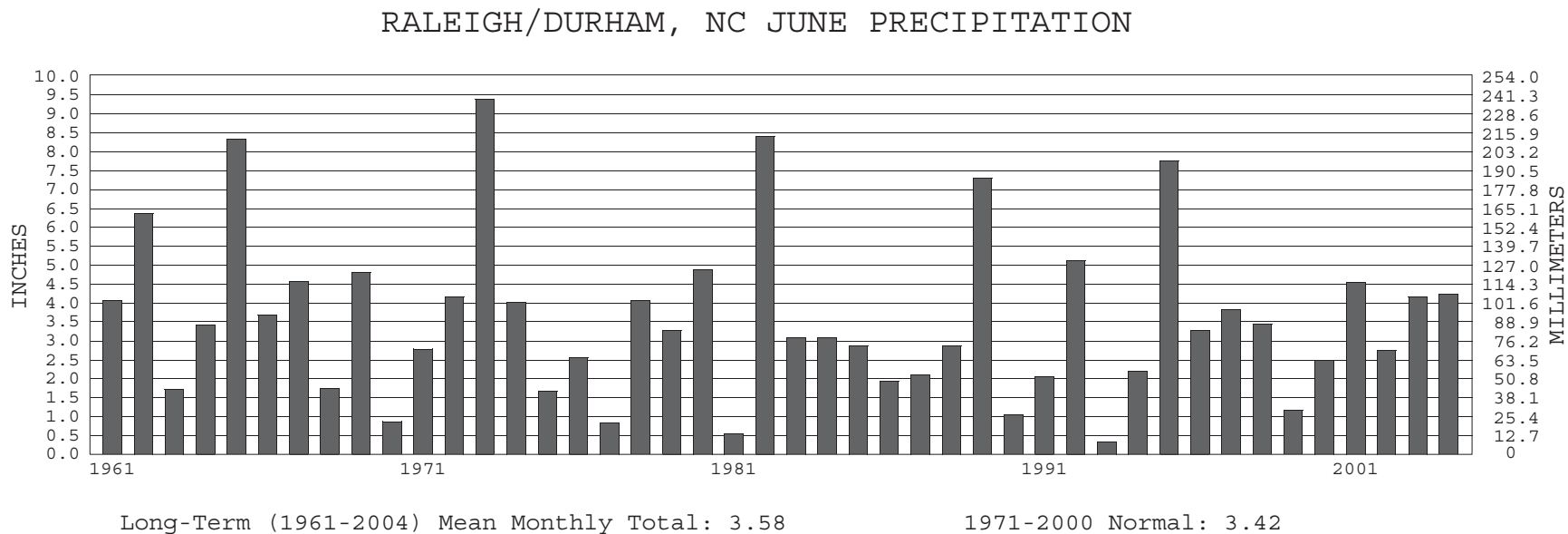
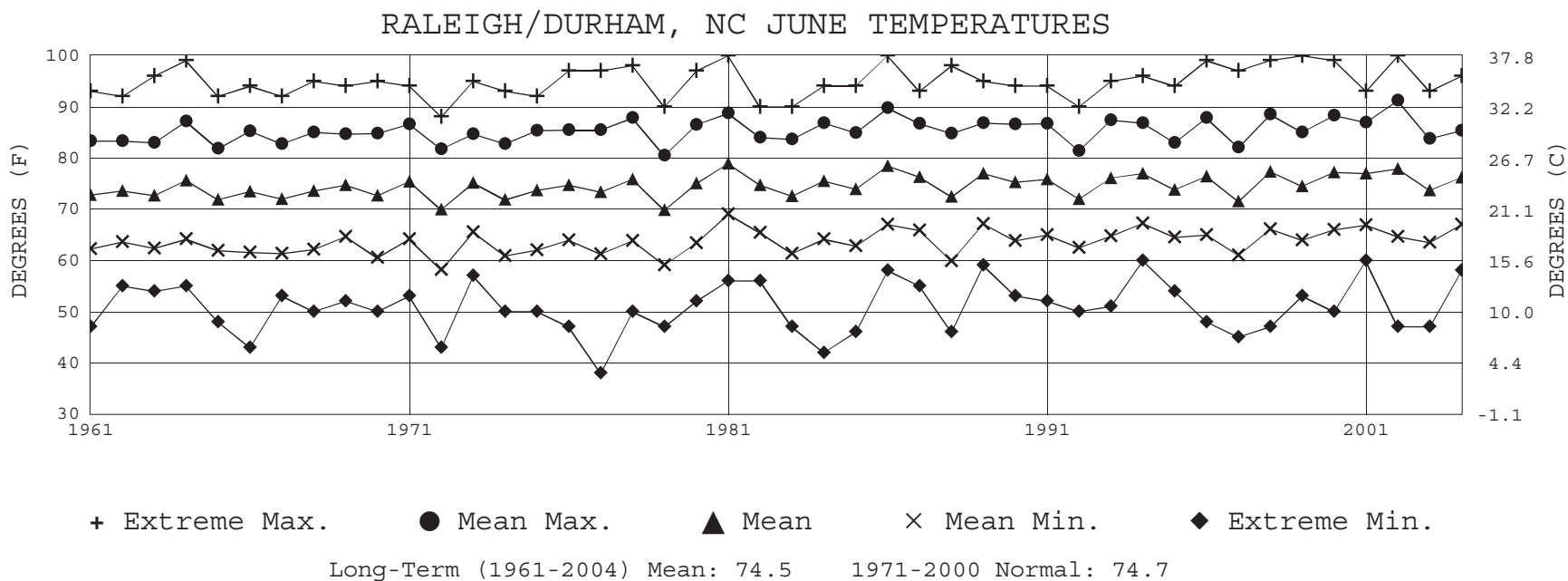
**JUNE 2004**

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 Offt	Observation Time (LST)	Eff Cl'd 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 Offt	Observation Time (LST)		Eff Cl'd Amt <small>Oktas</small>	Visibility (Miles)	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 Visibility = 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 (Mph)																		
	Ceilometer	Eff Cl'd Amt	Dry Bulb	Dew Point	Wet Bulb	Relative Humidity	Pressure (Inches,Hg)		Visibility (Miles)	Wind Speed (Mph)	Speed	Direction																	
							Station	Sea Level																					
01			71	66	68	86	29.58	30.04	7.93	5	2	20																	
02			70	66	67	87	29.57	30.03	7.59	4	2	21																	
03			70	66	67	87	29.57	30.03	7.57	4	2	21																	
04			69	65	67	89	29.57	30.03	7.48	4	1	20																	
05			68	65	66	90	29.58	30.04	6.81	4	1	20																	
06			69	66	67	90	29.59	30.05	6.39	5	1	19																	
07			71	66	68	86	29.61	30.07	6.94	5	1	17																	
08			73	66	69	79	29.62	30.08	7.52	6	1	23																	
09			75	66	69	75	29.62	30.08	7.75	6	1	25																	
10			78	65	70	68	29.62	30.08	8.23	6	1	25																	
11			79	65	70	64	29.61	30.07	8.85	7	2	25																	
12			81	65	71	61	29.61	30.07	9.03	6	1	24																	
13			82	65	71	59	29.59	30.05	8.93	6	2	24																	
14			83	65	71	58	29.58	30.04	8.93	7	3	23																	
15			82	65	71	58	29.57	30.03	8.90	7	4	22																	
16			81	66	71	62	29.56	30.02	8.93	8	3	22																	
17			80	65	71	63	29.56	30.02	8.88	7	2	21																	
18			79	66	70	67	29.56	30.02	8.30	7	3	21																	
19			77	67	70	72	29.56	30.02	8.37	5	2	21																	
20			75	67	70	78	29.57	30.03	8.26	4	2	21																	
21			73	67	69	82	29.59	30.05	8.22	4	2	21																	
22			72	67	69	84	29.60	30.06	7.83	4	2	20																	
23			72	67	69	84	29.60	30.06	7.90	3	2	19																	
24			72	66	68	84	29.60	30.06	7.90	4	2	21																	







JUNE 2004

RALEIGH/DURHAM, NC

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

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