



JUNE 2005

# 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	71	59	65	-6	56	59	0	0	RA BR	0		0.0	0.09	29.63	30.10	7.9	08	8.3	20	09	16	08	01	
02	65	59	62*	-9	61	61	3	0	RA DZ BR	0		0.0	0.38	29.54	30.01	9.7	07	9.9	22	08	17	08	02	
03	73	62	68	-4	63	65	0	3	RA FG BR	0		0.0	0.01	29.51	29.98	2.5	02	3.1	12	01	10	05	03	
04	86	64	75	3	65	68	0	10	BR	0		0.0	0.00	29.50	29.96	0.6	22	2.0	13	24	9	24	04	
05	90	63	77	5	67	70	0	12	BCFG BR HZ	0		0.0	0.00	29.53	29.99	0.4	17	1.4	13	20	10	19	05	
06	95	67	81	8	69	73	0	16	RA BR HZ	0		0.0	0.02	29.52	29.97	4.4	21	5.5	20	22	16	23	06	
07	93	68	81	8	70	72	0	16	TS TSRA RA BR HZ	0		0.0	0.51	29.49	29.95	3.3	22	5.8	31*	09	25*	09	07	
08	88	65	77	4	68	71	0	12	FG MIFG BCFG BR	0		0.0	0.00	29.53	29.98	2.4	16	3.5	20	18	15	18	08	
09	90	71	81	7	71	73	0	16	RA FG BR	0		0.0	0.05	29.61	30.07	6.3	17	6.8	22	18	18	17	09	
10	89	72	81	7	69	72	0	16	RA BR	0		0.0	0.24	29.65	30.11	6.6	17	7.0	17	17	16	22	10	
11	86	67	77	3	65	69	0	12	BR	0		0.0	0.00	29.63	30.09	4.9	16	6.1	15	16	13	15	11	
12	90	72	81	7	70	73	0	16	RA	0		0.0	T	29.59	30.04	7.2	18	8.1	23	23	21	23	12	
13	91	74	83	9	72	75	0	18	RA	0		0.0	T	29.47	29.93	9.4	22	9.7	22	23	20	23	13	
14	95	76	86*	11	70	75	0	21	BR HZ	0		0.0	0.00	29.38	29.83	5.2	24	6.3	16	22	13	22	14	
15	96*	71	84	9	66	71	0	19	BR HZ	0		0.0	0.00	29.29	29.74	4.0	27	5.9	20	31	15	30	15	
16	89	65	77	2	59	66	0	12		0		0.0	0.00	29.27	29.72	3.9	30	5.4	20	25	16	25	16	
17	86	59	73	-2	51	60	0	8		0		0.0	0.00	29.34	29.80	1.0	32	2.7	15	33	12	31	17	
18	88	57	73	-2	54	62	0	8		0		0.0	0.00	29.43	29.89	1.8	07	3.4	15	14	10	14	18	
19	82	61	72	-4	60	64	0	7	TS TSRA RA BR	0		0.0	0.04	29.59	30.05	5.4	05	5.8	18	35	15	05	19	
20	78	58	68	-8	56	61	0	3		0		0.0	0.00	29.70	30.17	7.3	06	8.6	25	04	18	09	20	
21	86	53*	70	-6	57	63	0	5		0		0.0	0.00	29.65	30.11	3.2	25	4.5	18	24	15	23	21	
22	91	63	77	1	61	67	0	12	TS RA BR HZ	0		0.0	T	29.54	30.00	2.9	26	5.5	20	23	16	23	22	
23	89	63	76	0	61	66	0	11	BR HZ	0		0.0	0.00	29.64	30.10	4.1	07	5.8	17	13	14	12	23	
24	91	60	76	0	58	65	0	11	HZ	0		0.0	0.00	29.69	30.16	3.4	11	4.3	17	11	14	13	24	
25	88	62	75	-2	61	67	0	10	BR HZ	0		0.0	0.00	29.66	30.12	4.4	07	5.4	22	09	16	08	25	
26	87	72	80	3	70	73	0	15	RA BR	0		0.0	0.01	29.63	30.09	7.0	04	7.9	26	05	22	05	26	
27	92	70	81	4	70	73	0	16	TS RA BR	0		0.0	T	29.68	30.14	2.1	07	3.6	18	19	15	20	27	
28	84	73	79	2	72	74	0	14	RA BR	0		0.0	0.10	29.66	30.12	2.8	19	3.9	17	15	15	15	28	
29	87	72	80	3	71	73	0	15	RA BR	0		0.0	0.05	29.56	30.02	3.3	22	4.4	14	16	9	22	29	
30	94	70	82	5	69	73	0	17	BR HZ	0		0.0	0.00	29.45	29.91	0.7	33	3.9	14	09	10	04	30	
87.0 65.6 76.3 ■■ 64.4 68.5 0.1 11.7 < MONTHLY AVERAGES TOTALS->												0.0	1.50	29.54	30.00	1.1	05	5.5	<- MONTHLY AVERAGES					
1.5 1.8 1.6 ■■ <-----DEPARTURE FROM NORMAL----->												-1.92	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.51 DATE :07				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE :				MAXIMUM : 30.21 24 0851											
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.66 16 1651											
HEATING: 3 -2 3167 -298									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 12		MINIMUM TEMP ≤ 32 : 0		PRECIPITATION ≥ 0.01 INCH : 11									
COOLING: 351 58 460 0											MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 4									
											THUNDERSTORMS : 4		HEAVY FOG : 0		SNOWFALL ≥ 1.0 INCH : 0									

JUNE 2005  
RALEIGH/DURHAM, NC

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

JUNE 2005

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	T			T	T		0.01	T	T	0.03	0.02	0.03	01		0.09	
02	0.03	0.04	0.03	0.04	0.01	0.05	0.03	0.04	T	0.01	0.06	0.03	02	T			T	T		0.01						02		0.38	
03													03													03		0.01	
04													04													04		0.00	
05													05													05		0.00	
06													06													06		0.02	
07													07				0.20	0.01	0.01							07		0.51	
08													08					0.02	T	0.11	0.16	0.02	T	T		08		0.00	
09													09													09		0.05	
10													10													10		0.24	
11													11													11		0.00	
12													12	T												12		T	
13													13		T											13		T	
14													14													14		0.00	
15													15													15		0.00	
16													16													16		0.00	
17													17													17		0.00	
18													18													18		0.00	
19													19				0.04	T								19		0.04	
20													20													20		0.00	
21													21													21		0.00	
22													22													22		T	
23													23													23		0.00	
24													24													24		0.00	
25													25													25		0.00	
26	T	T				T	T	0.01	T	T	T	T	26				T	T								26		0.01	
27													27													27		T	
28													28	T	0.03	0.05	0.02	T								28		0.10	
29	0.01	0.01	T	T	T	0.01	0.01	0.01	T	T	T		29													29		0.05	
30													30													30		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)	.18	.20	.20	.22	.22	.25	.26	.27	.27	.28	.29	.29
Ending Date	07	07	07	07	07	07	07	07	07	07	07	07
Ending Time (Hour/Min)	1540	1542	1542	1554	1911	1918	1918	1940	1940	2023	2042	2042

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 2005**

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							2.50	10.00	
02							2.00	10.00	
03							.50	10.00	
04							2.00	10.00	
05							4.00	9.00	
06							3.00	8.00	
07							2.50	10.00	
08							.50	10.00	
09							.13	10.00	
10							6.00	10.00	
11							5.00	10.00	
12							8.00	10.00	
13							8.00	10.00	
14							5.00	10.00	
15							4.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							8.00	10.00	
19							4.00	10.00	
20							10.00	10.00	
21							7.00	10.00	
22							4.00	10.00	
23							5.00	10.00	
24							6.00	10.00	
25							2.50	10.00	
26							2.50	10.00	
27							5.00	10.00	
28							2.00	10.00	
29							1.50	10.00	
30							3.00	9.00	
MONTHLY AVGS							4.45	9.87	

SUNSHINE (MINUTES)

Total: Possible:

Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR PTLY CLDY CLOUDY MISSING

30

MINIMUM VISIBILITY (MILES)

<=0.25 <=3.0 >=7.0

1 13 7

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

JUNE 2005

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> s		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> s	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0500						JUN 01	SUNSET: 1926						SUNRISE: 0459						JUN 07	SUNSET: 1929									
01	SCT	NC			10.00	66	55	60	68	9	12	29.62	30.08	01	FEW	NC				8.00	75	71	72	88	9	23	29.48	29.94	
04	SCT	NC			10.00	61	53	57	75	6	08	29.60	30.06	04	FEW	NC				5.00	71	70	70	96	5	23	29.46	29.91	
07	OVC	150			10.00	63	52	57	68	7	08	29.64	30.10	07	OVC	005				2.50	74	72	73	94	9	23	29.48	29.94	
10	OVC	080			10.00	64	56	59	75	5	07	29.67	30.14	10	SCT	NC				5.00	84	73	76	70	5	VR	29.51	29.96	
13	OVC	080			10.00	71	57	63	61	12	09	29.64	30.10	13	BKN	100				6.00	90	70	76	52	8	17	29.49	29.94	
16	OVC	028			7.00	66	61	63	84	10	08	29.62	30.09	16	BKN	050				3.00	76	68	71	77	12	08	29.43	29.89	
19	OVC	025			4.00	61	59	60	93	10	06	29.62	30.09	19	OVC	030				3.00	70	68	69	93	0	00	29.52	29.98	
22	OVC	018			3.00	59	58	58	96	7	06	29.64	30.10	22	OVC	090				7.00	68	67	67	96	6	23	29.54	29.99	
SUNRISE: 0460						JUN 02	SUNSET: 1926						SUNRISE: 0459						JUN 08	SUNSET: 1930									
01	OVC	005			4.00	59	58	58	96	9	06	29.59	30.05	01	OVC	150				5.00	68	67	67	96	3	04	29.51	29.96	
04	OVC	007			7.00	60	58	59	93	10	06	29.55	30.01	04	BKN	001				0.50	66	65	65	96	0	00	29.50	29.96	
07	OVC	007			5.00	61	59	60	93	10	07	29.56	30.02	07	BKN	120				6.00	69	67	68	93	0	00	29.54	30.00	
10	OVC	009			8.00	63	61	62	93	12	07	29.55	30.02	10	BKN	200				10.00	79	68	72	69	6	15	29.54	30.00	
13	OVC	009			10.00	65	62	63	90	9	07	29.53	30.00	13	BKN	035				9.00	85	70	75	61	6	VR	29.53	29.99	
16	OVC	006			2.00	64	62	63	93	14	05	29.51	29.98	16	BKN	150				10.00	84	69	74	61	6	17	29.50	29.96	
19	OVC	007			2.00	63	62	62	97	8	06	29.52	29.99	19	OVC	065				10.00	81	69	73	67	13	17	29.51	29.97	
22	OVC	005			8.00	62	61	61	96	9	06	29.54	30.00	22	SCT	NC				10.00	75	70	72	84	3	17	29.56	30.01	
SUNRISE: 0460						JUN 03	SUNSET: 1927						SUNRISE: 0459						JUN 09	SUNSET: 1930									
01	OVC	003			5.00	62	61	61	96	6	03	29.52	29.98	01	BKN	150				10.00	73	70	71	90	3	18	29.56	30.02	
04	OVC	001			0.50	62	61	61	96	6	01	29.49	29.96	04	OVC	003				2.00	73	71	72	94	5	22	29.56	30.02	
07	OVC	003			1.00	63	61	62	93	0	00	29.53	30.00	07	OVC	003				0.50	73	71	72	94	5	17	29.62	30.08	
10	OVC	006			10.00	65	62	63	90	5	VR	29.54	30.00	10	BKN	014				8.00	79	73	75	82	7	14	29.63	30.09	
13	OVC	010			10.00	71	64	67	79	0	00	29.51	29.98	13	BKN	150				10.00	87	71	76	59	7	16	29.61	30.06	
16	OVC	017			10.00	72	65	67	79	3	31	29.48	29.94	16	BKN	250				10.00	87	71	76	59	15	16	29.57	30.03	
19	BKN	047			7.00	69	64	66	84	7	04	29.49	29.95	19	BKN	200				10.00	78	70	73	76	9	18	29.62	30.08	
22	OVC	022			4.00	68	64	66	87	0	00	29.53	29.99	22	SCT	NC				10.00	75	71	72	88	6	15	29.65	30.11	
SUNRISE: 0459						JUN 04	SUNSET: 1927						SUNRISE: 0458						JUN 10	SUNSET: 1931									
01	BKN	014			3.00	66	65	65	96	0	00	29.49	29.96	01	FEW	NC				10.00	74	71	72	91	5	17	29.65	30.11	
04	BKN	035			3.00	65	64	64	97	0	00	29.48	29.94	04	BKN	007				8.00	73	71	72	94	7	17	29.64	30.10	
07	OVC	012			2.50	67	65	66	93	0	00	29.51	29.98	07	BKN	008				9.00	76	72	73	88	6	18	29.69	30.15	
10	BKN	042			10.00	76	65	69	69	0	00	29.53	29.99	10	BKN	040				6.00	74	71	72	91	3	23	29.70	30.16	
13	BKN	048			10.00	81	65	70	58	7	VR	29.50	29.96	13	BKN	150				10.00	84	68	73	59	10	14	29.66	30.12	
16	BKN	055			10.00	85	64	71	50	6	27	29.47	29.93	16	BKN	070				10.00	85	69	74	59	8	17	29.60	30.06	
19	FEW	NC			9.00	78	67	71	69	0	00	29.49	29.95	19	BKN	250				10.00	81	67	72	62	9	17	29.60	30.06	
22	CLR	NC			7.00	69	66	67	90	0	00	29.52	29.98	22	CLR	NC				10.00	75	64	68	69	7	18	29.64	30.10	
SUNRISE: 0459						JUN 05	SUNSET: 1928						SUNRISE: 0458						JUN 11	SUNSET: 1931									
01	CLR	NC			5.00	66	65	65	96	0	00	29.50	29.96	01	FEW	NC				10.00	71	66	68	84	5	16	29.65	30.11	
04	CLR	NC			5.00	64	63	63	96	0	00	29.50	29.96	04	BKN	250				7.00	68	66	67	93	5	16	29.64	30.09	
07	FEW	NC			4.00	71	68	69	90	3	24	29.56	30.02	07	BKN	250				8.00	71	66	68	84	7	16	29.67	30.13	
10	BKN	200			8.00	84	69	74	61	5	31	29.57	30.02	10	BKN	250				10.00	79	65	70	62	9	20	29.67	30.13	
13	BKN	050			9.00	87	66	73	50	0	00	29.54	30.00	13	BKN	250				10.00	84	63	70	49	7	13	29.64	30.10	
16	BKN	200			7.00	86	69	74	57	3	VR	29.51	29.97	16	OVC	200				10.00	84	63	70	49	6	16	29.59	30.05	
19	BKN	090			6.00	83	69	74	63	3	07	29.52	29.98	19	BKN	200				10.00	80	65	70	60	5	12	29.58	30.04	
22	CLR	NC			7.00	74	69	71	85	0	00	29.54	30.00	22	SCT	NC				10.00	75	68	70	79	7	16	29.63	30.09	
SUNRISE: 0459						JUN 06	SUNSET: 1929						SUNRISE: 0458						JUN 12	SUNSET: 1932									
01	CLR	NC			5.00	70	68	69	93	0	00	29.53	29.99	01	BKN	080				8.00	73	68	70	84	6	16	29.62	30.08	
04	CLR	NC			5.00	70	67	68	90	3	18	29.54	29.99	04	BKN	008				8.00	72	70	71	94	8	16	29.61	30.07	
07	CLR	NC			4.00	74	71	72	91	7	23	29.56	30.02	07	BKN	070				10.00	74	69	71	85	6	17	29.63	30.09	
10	CLR	NC			7.00	86	70	75	59	6	VR	29.56	30.02	10	BKN	025				10.00	82	69	73	65	9	17	29.62	30.08	
13	SCT	NC			7.00	94	68	76	43	10	26	29.51	29.97	13	BKN	038				10.00	77	71	73	82	6	VR	29.58	30.04	
16	SCT	NC			6.00	90	67	74	47	7	18	29.46	29.91	16	BKN	050				10.00	81	69	73	67	10	22	29.56	30.01	
19	BKN	250			7.00	84</																							

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

JUNE 2005

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 Oktas		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 Oktas	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	BKN	070			10.00		74	70	71	88	7	17	29.54	30.00	01	SCT	NC			10.00		67	60	63	79	7	05	29.50	29.96
04	OVC	080			10.00		74	71	72	91	10	21	29.53	29.99	04	FEW	NC			9.00		63	59	61	87	3	04	29.51	29.97
07	BKN	012			9.00		76	71	73	85	12	22	29.54	30.00	07	SCT	NC			9.00		68	61	64	78	5	01	29.57	30.03
10	BKN	035			10.00		84	71	75	65	13	21	29.51	29.97	10	BKN	080			10.00		78	57	65	48	9	04	29.60	30.06
13	BKN	035			10.00		85	71	75	63	9	24	29.46	29.92	13	BKN	080			10.00		78	59	66	52	9	05	29.59	30.05
16	BKN	200			10.00		88	72	77	59	12	24	29.41	29.86	16	BKN	060		TS	7.00		68	61	64	78	9	01	29.60	30.06
19	SCT	NC			10.00		83	73	76	72	12	23	29.38	29.84	19	OVC	120			8.00		70	61	64	73	7	04	29.62	30.08
22	FEW	NC			10.00		78	73	75	85	7	22	29.41	29.87	22	BKN	100			10.00		68	60	63	76	7	04	29.66	30.12
			SUNRISE: 0458			JUN 14			SUNSET: 1932									SUNRISE: 0459			JUN 20			SUNSET: 1934					
01	BKN	090			10.00		76	73	74	91	7	23	29.40	29.85	01	BKN	110			10.00		66	59	62	78	7	07	29.66	30.12
04	OVC	008			7.00		76	73	74	91	7	24	29.40	29.85	04	FEW	NC			10.00		62	58	60	86	6	03	29.67	30.14
07	BKN	009			5.00	HZ	78	73	75	85	7	28	29.42	29.88	07	FEW	NC			10.00		64	58	60	81	12	05	29.71	30.17
10	SCT	NC			10.00		86	70	75	59	0	00	29.42	29.87	10	BKN	030			10.00		71	56	62	59	12	04	29.75	30.21
13	SCT	NC			10.00		92	67	75	44	5	VR	29.37	29.82	13	BKN	040			10.00		77	55	64	47	12	05	29.72	30.18
16	SCT	NC			10.00		94	69	77	44	9	24	29.33	29.79	16	BKN	047			10.00		75	55	63	50	18	10	29.69	30.16
19	CLR	NC			10.00		86	70	75	59	6	24	29.32	29.78	19	BKN	055			10.00		71	53	61	53	7	07	29.69	30.16
22	CLR	NC			10.00		80	71	74	74	5	23	29.36	29.81	22	CLR	NC			10.00		63	56	59	78	0	00	29.71	30.18
			SUNRISE: 0458			JUN 15			SUNSET: 1933									SUNRISE: 0459			JUN 21			SUNSET: 1935					
01	CLR	NC			8.00		75	70	72	84	7	23	29.32	29.78	01	CLR	NC			10.00		58	56	57	93	0	00	29.71	30.18
04	CLR	NC			6.00	BR	73	70	71	90	7	23	29.30	29.75	04	CLR	NC			8.00		55	54	54	96	0	00	29.69	30.15
07	CLR	NC			5.00	HZ	78	72	74	82	6	23	29.32	29.78	07	CLR	NC			9.00		62	58	60	86	0	00	29.71	30.17
10	FEW	NC			10.00		87	64	72	46	10	30	29.32	29.78	10	FEW	NC			10.00		75	56	64	52	6	30	29.70	30.16
13	SCT	NC			10.00		89	65	73	45	8	29	29.28	29.74	13	SCT	NC			10.00		83	58	67	43	8	22	29.66	30.12
16	SCT	NC			10.00		91	63	72	39	7	30	29.24	29.70	16	SCT	NC			10.00		83	57	67	41	3	VR	29.59	30.06
19	FEW	NC			10.00		86	62	70	45	5	VR	29.25	29.70	19	FEW	NC			10.00		79	58	66	49	7	24	29.57	30.03
22	SCT	NC			10.00		75	63	67	66	0	00	29.29	29.75	22	BKN	130			10.00		73	60	65	64	7	24	29.60	30.06
			SUNRISE: 0459			JUN 16			SUNSET: 1933									SUNRISE: 0460			JUN 22			SUNSET: 1935					
01	FEW	NC			10.00		72	63	66	73	3	23	29.28	29.74	01	CLR	NC			9.00		67	61	63	81	6	23	29.58	30.04
04	SCT	NC			10.00		67	63	64	87	0	00	29.26	29.72	04	CLR	NC			6.00	BR	64	61	62	90	6	24	29.55	30.01
07	FEW	NC			10.00		74	62	66	67	3	30	29.28	29.74	07	CLR	NC			6.00	HZ	70	64	66	82	6	VR	29.57	30.03
10	SCT	NC			10.00		84	58	68	41	9	31	29.29	29.74	10	FEW	NC			7.00		83	62	69	49	9	29	29.57	30.02
13	BKN	065			10.00		85	57	67	39	13	29	29.25	29.71	13	SCT	NC			10.00		89	53	67	29	7	VR	29.52	29.98
16	SCT	NC			10.00		86	56	67	36	9	27	29.22	29.68	16	BKN	085			8.00		87	59	69	39	8	32	29.50	29.95
19	SCT	NC			10.00		84	56	67	38	7	29	29.22	29.68	19	BKN	120			7.00	TS	78	63	68	60	7	08	29.52	29.98
22	FEW	NC			10.00		75	58	65	55	5	02	29.29	29.74	22	SCT	NC			7.00		73	65	68	76	0	00	29.56	30.01
			SUNRISE: 0459			JUN 17			SUNSET: 1933									SUNRISE: 0460			JUN 23			SUNSET: 1935					
01	CLR	NC			10.00		67	53	59	61	0	00	29.31	29.77	01	FEW	NC			7.00		68	63	65	84	3	36	29.58	30.04
04	FEW	NC			10.00		64	51	57	63	0	00	29.31	29.78	04	CLR	NC			7.00		64	60	62	87	0	00	29.58	30.04
07	BKN	070			10.00		66	53	59	63	5	VR	29.34	29.80	07	CLR	NC			5.00	HZ	69	63	65	81	6	02	29.65	30.11
10	BKN	070			10.00		75	54	63	48	7	VR	29.37	29.83	10	CLR	NC			6.00	HZ	78	65	70	64	3	VR	29.68	30.14
13	SCT	NC			10.00		81	49	62	33	5	VR	29.33	29.79	13	SCT	NC			8.00		86	60	69	42	3	VR	29.65	30.11
16	FEW	NC			10.00		85	48	63	28	6	VR	29.30	29.76	16	SCT	NC			10.00		88	56	68	34	9	10	29.62	30.08
19	SCT	NC			10.00		79	49	62	35	0	00	29.33	29.79	19	FEW	NC			9.00		82	60	68	47	6	06	29.63	30.08
22	CLR	NC			10.00		64	52	57	65	3	03	29.37	29.83	22	CLR	NC			9.00		77	60	66	56	10	12	29.68	30.14
			SUNRISE: 0459			JUN 18			SUNSET: 1934									SUNRISE: 0500			JUN 24			SUNSET: 1935					
01	BKN	200			10.00		61	53	57	75	0	00	29.38	29.84	01	CLR	NC			10.00		72	56	62	57	5	14	29.68	30.14
04	BKN	200			10.00		58	56	57	93	3	36	29.38	29.85	04	CLR	NC			9.00		64	58	60	81	5	08	29.69	30.15
07	BKN	200			10.00		67	58	62	73	0	00	29.42	29.88	07	BKN	200			6.00	HZ	71	60	64	68	3	03	29.	

## OBSERVATIONS AT 3-HOURLY INTERVALS

## RALEIGH/DURHAM, NC

JUNE 2005

RDU

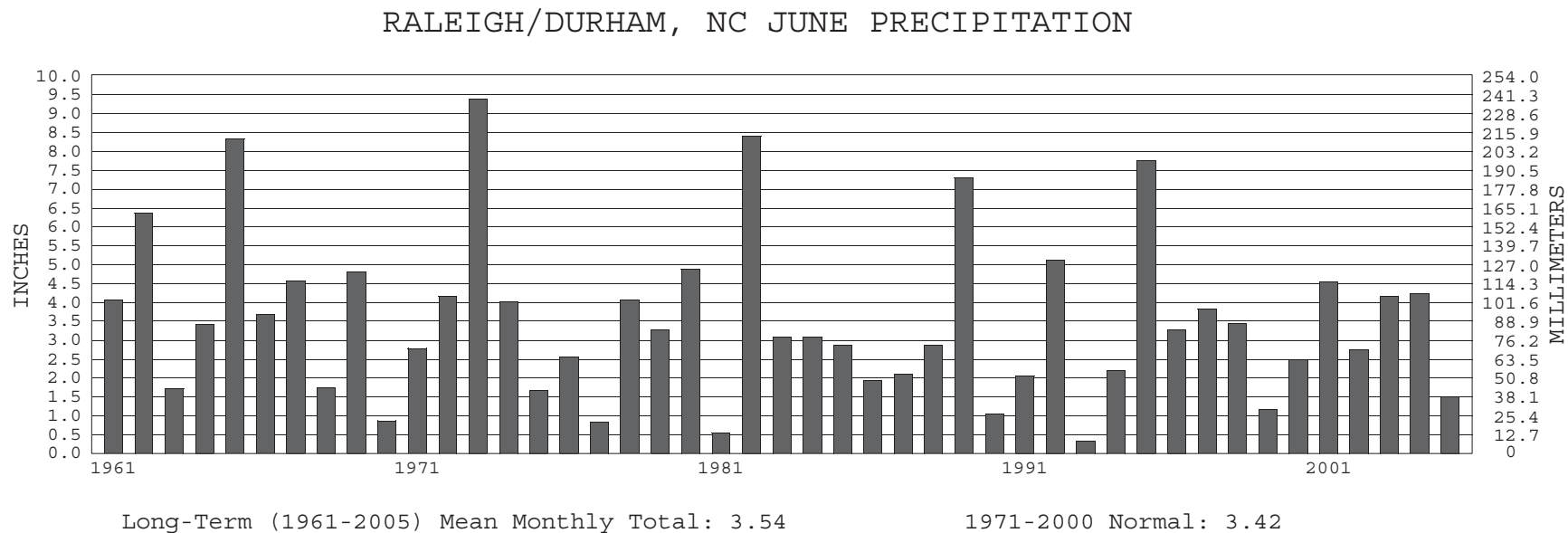
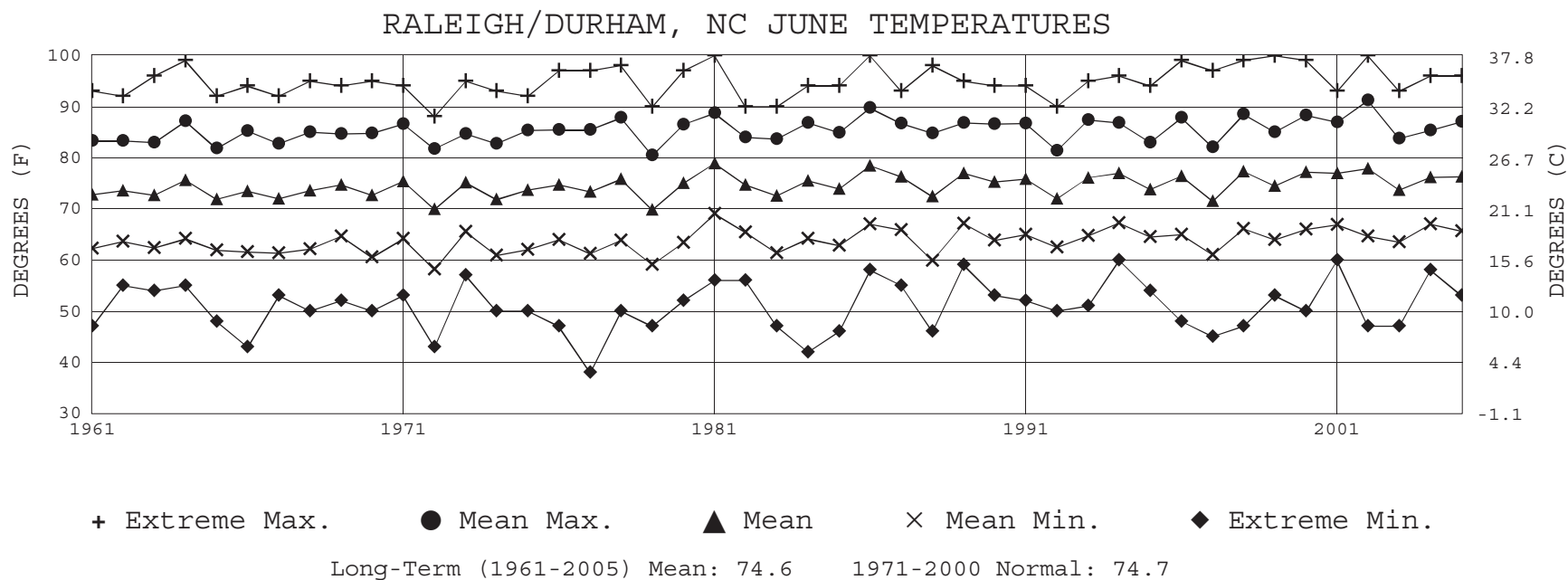
WBAN # 13722

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
				OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0500      JUN 25      SUNSET: 1935															
01	CLR	NC				6.00	HZ	69	61	64	76	0	00	29.69	30.15
04	CLR	NC				3.00	BR	67	63	64	87	0	00	29.67	30.12
07	BKN	050				2.50	BR	69	65	66	87	3	01	29.70	30.15
10	BKN	150				8.00		81	64	70	57	6	VR	29.68	30.14
13	BKN	150				10.00		84	58	68	41	7	08	29.67	30.13
16	OVC	150				10.00		84	55	66	37	8	10	29.63	30.09
19	BKN	200				10.00		80	60	67	51	6	04	29.61	30.08
22	OVC	200				10.00		77	65	69	66	6	07	29.63	30.09
SUNRISE: 0501      JUN 26      SUNSET: 1935															
01	OVC	090				8.00	-RA	74	68	70	82	6	07	29.62	30.07
04	OVC	110				6.00	BR	73	69	70	87	7	05	29.60	30.06
07	OVC	005				2.50	BR	73	70	71	90	6	03	29.62	30.07
10	OVC	012				7.00		78	71	73	79	7	35	29.64	30.10
13	BKN	030				10.00		84	69	74	61	12	06	29.62	30.08
16	BKN	150				10.00		78	71	73	79	9	03	29.62	30.07
19	BKN	120				10.00		78	71	73	79	7	02	29.63	30.09
22	CLR	NC				10.00		74	71	72	91	7	05	29.66	30.11
SUNRISE: 0501      JUN 27      SUNSET: 1935															
01	BKN	200				10.00		73	71	72	94	0	00	29.67	30.13
04	SCT	NC				7.00		72	70	71	94	3	05	29.66	30.12
07	BKN	045				9.00		75	72	73	90	5	05	29.71	30.17
10	BKN	025				10.00		81	72	75	74	3	02	29.72	30.18
13	BKN	120				10.00		90	71	77	54	6	11	29.69	30.14
16	BKN	050				10.00	TS	89	70	76	53	7	16	29.64	30.10
19	BKN	250				10.00		79	68	72	69	3	01	29.64	30.10
22	OVC	250				10.00		74	69	71	85	3	08	29.69	30.15
SUNRISE: 0501      JUN 28      SUNSET: 1935															
01	BKN	250				10.00		77	71	73	82	8	22	29.68	30.14
04	BKN	120				10.00		74	71	72	91	0	00	29.67	30.13
07	OVC	120				9.00		76	74	75	94	5	23	29.69	30.15
10	OVC	015				8.00	-RA	80	73	75	79	3	15	29.69	30.14
13	OVC	100				5.00	-RA BR	76	71	73	85	5	30	29.68	30.14
16	OVC	007				2.00	-RA BR	78	76	77	93	8	24	29.64	30.09
19	OVC	110				10.00		74	71	72	91	5	14	29.64	30.11
22	BKN	009				10.00		73	71	72	94	0	00	29.65	30.11
SUNRISE: 0502      JUN 29      SUNSET: 1935															
01	OVC	070				8.00	-RA	73	71	72	94	5	17	29.63	30.09
04	OVC	065				10.00	-RA	72	71	71	97	6	20	29.59	30.06
07	OVC	070				1.50	-RA BR	73	71	72	94	5	19	29.61	30.07
10	OVC	010				10.00		77	72	74	85	6	24	29.59	30.06
13	BKN	035				10.00		84	71	75	65	3	VR	29.55	30.01
16	BKN	250				10.00		86	70	75	59	7	17	29.51	29.97
19	SCT	NC				10.00		83	70	74	65	6	20	29.50	29.96
22	FEW	NC				10.00		75	71	72	88	5	24	29.53	29.98
SUNRISE: 0502      JUN 30      SUNSET: 1935															
01	SCT	NC				7.00		72	70	71	94	0	00	29.52	29.98
04	CLR	NC				5.00	BR	70	69	69	97	5	24	29.47	29.93
07	CLR	NC				4.00	BR	75	72	73	90	3	29	29.49	29.94
10	FEW	NC				9.00		86	70	75	59	5	VR	29.49	29.95
13	SCT	NC				8.00		92	68	75	46	7	VR	29.45	29.91
16	SCT	NC				7.00		93	65	74	40	5	29	29.40	29.85
19	FEW	NC				6.00	HZ	88	67	74	50	5	03	29.40	29.85
22	CLR	NC				5.00	HZ	78	70	73	76	0	00	29.43	29.88

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
				OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE:      JUN 31      SUNSET:															
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.															

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)					
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION				
							STATION	SEA LEVEL								
01			69	64	66	85	29.55	30.01	8.20	4	1	16				
02			68	64	66	87	29.54	30.00	7.77	3	1	17				
03			68	64	66	89	29.54	30.00	7.47	3	1	18				
04			67	64	65	90	29.54	30.00	6.80	4	1	17				
05			67	64	65	91	29.55	30.01	6.32	3	1	17				
06			68	65	66	91	29.56	30.02	5.47	3	1	16				
07			71	66	68	85	29.57	30.03	6.17	5	0	0				
08			74	66	69	77	29.58	30.04	7.15	5	1	11				
09			76	66	69	70	29.58	30.04	7.78	5	1	18				
10			79	65	70	65	29.58	30.04	8.83	5	0	0				
11			81	64	70	58	29.57	30.03	9.23	5	2	9				
12			83	64	71	54	29.56	30.02	9.43	7	1	12				
13			83	63	70	53	29.55	30.00	9.40	5	1	11				
14			84	63	70	52	29.53	29.99	9.20	5	1	13				
15			84	64	71	53	29.52	29.98	8.67	6	1	10				
16			83	64	70	55	29.51	29.97	8.60	7	1	15				
17			82	64	70	57	29.51	29.97	8.73	8	2	15				
18			81	64	70	59	29.51	29.97	8.97	7	1	13				
19			78	64	69	64	29.52	29.98	8.53	6	2	12				
20			75	65	68	71	29.53	29.99	8.70	4	2	12				
21			73	65	68	76	29.54	30.00	8.73	4	2	14				
22			73	65	68	78	29.55	30.01	8.80	4	2	12				
23			72	65	67	80	29.55	30.01	8.72	4	2	12				
24			71	65	67	82	29.55	30.01	8.50	4	2	15				







JUNE 2005

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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