

June 2005

June was warm and for the most part dry (only 0.09 inches of rain occurred from June 14th to 28th a 15 day period) except for the 29th and 30th. June's mean average temperature (75.4°F) was the third hottest on record with a +1.9° F departure from average. The 3.29 inches of rain was a little below average but without the rainfall of the 29th, June would have been the fourth driest on record in the last 25 years. The most rain in a calendar day was 1.68 inches on the 29th when 0.53 inches of rain fell in only 5 minutes. This was the most rainfall in a 5 minute period since June 15, 1998 when 0.56 inches rain fell in 5 minutes. A total of 1.50 inches was recorded in one hour in this same storm. This sets a new record for the most rain to occur in one hour's time in the month of June since rainfall intensity records were started in 1991. The old record was 1.41 inches on June 8, 1992.

It was the driest June since 2002. June was also the clearest June since 2002.

June had 13 days with 90°F or above temperatures which ties the old 25 year record set in 1994. June's highest maximum temperature was 95° F on June 28th which was the highest June monthly maximum since June 2002.

June's average temperature range was only 20.7° F and highest daily temperature range since 2002.

The maximum gust of 26 mph from the west on the 16th at 1720 was the lowest maximum wind gust recorded for June since 1999.

The maximum barometric reading for the month was 30.30 inches on the 20th which was the highest pressure recorded in June since 2002.

There were 10 daily records set!

June DAILY Records Tied or Broken- (25-Years of records)

June had 2 daily **HIGH** maximum 25-year temperature records for the date. June – 5, 28

June had 1 daily **LOW** maximum 25-year temperature record for the date. June – 2,

June had 2 daily **HIGH** minimum 25-year temperature records for the date. June – 10, 13

June had 0 daily **LOW** minimum 25-year temperature records for the date.

June had 2 daily **HIGH** range 25-year temperature records for the date. June – 21, 23

June had 1 daily **LOW** range 25-year temperature record for the date. June – 2

June had 2 daily **HIGH** 25-year precipitation records for the date. June – 3, 29

PAGE #1 JUNE 2005 Annandale (Barcroft Hills Weather Center) 38° 50' 26" N 77° 09' 58" W Stat. # 21517 Koontz																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2005 JUNE	TEMP. MAX.	TIME MAX.	TEMP. MIN.	TIME MIN.	TEMP. RANGE	TEMP. MEAN	MEAN CHANGE	SOIL TEMP.	SKY AM	SKY PM	PRECIP MELTED	MAX.1HR PRECIP.	MAX.5M PRECIP.	FROZ. PRECIP.	SNOW ON GROUND	START TIME	END TIME
Jun-01	79	15:41	54	5:37	25	66.5	-2.0	65	0	1							
Jun-02	67	17:46	58	6:08	9	62.5	-4.0	65	2	2	0.01					1530	1650
Jun-03	65	18:11	59	3:42	6	62.0	-0.5	65	2	2	0.86	0.22	0.05			0005	1830
Jun-04	81	17:23	61	6:10	20	71.0	9.0	64	2	2							
Jun-05	90	16:36	62	6:01	28	76.0	5.0	66	0	1							
Jun-06	93	14:52	69	5:53	24	81.0	5.0	66	0	2	0.04	0.04	0.02			2029	2040
Jun-07	91	16:42	66	4:10	25	78.5	-2.5	68	0	1	0.41	0.41	0.12			0014	0040
Jun-08	93	13:52	67	5:58	26	80.0	1.5	69	0	0							
Jun-09	90	16:12	71	6:23	19	80.5	0.5	71	0	1	T					1828	1900
Jun-10	90	16:57	72	3:36	18	81.0	0.5	72	2	1							
Jun-11	90	15:12	71	5:38	19	80.5	-0.5	72	1	0							
Jun-12	89	17:25	68	5:22	21	78.5	-2.0	73	1	0							
Jun-13	92	17:23	74	5:59	18	83.0	4.5	73	1	1	0.20	0.19	0.05			1920	2040
Jun-14	93	17:13	71	6:12	22	82.0	-1.0	74	0	0							
Jun-15	89	17:01	73	6:07	16	81.0	-1.0	74	1	0							
Jun-16	85	13:12	66	23:48	19	75.5	-5.5	74	1	1	0.01	0.01	0.01			1415	1420
Jun-17	78	17:29	58	5:48	20	68.0	-7.5	73	1	0							
Jun-18	82	16:55	56	6:05	26	69.0	1.0	72	0	1							
Jun-19	79	15:00	62	3:33	17	70.5	1.5	72	1	1							
Jun-20	74	16:47	57	5:18	17	65.5	-5.0	71	2	2							
Jun-21	84	17:31	56	5:48	28	70.0	4.5	70	0	0							
Jun-22	84	17:47	66	6:10	18	75.0	5.0	71	2	1	0.04	0.03	0.01			1131	1255
Jun-23	86	17:10	58	6:04	28	72.0	-3.0	71	0	0							
Jun-24	90	16:25	63	5:43	27	76.5	4.5	71	0	0							
Jun-25	92	15:22	64	5:58	28	78.0	1.5	72	0	1							
Jun-26	92	15:54	66	5:58	26	79.0	1.0	73	1	1							
Jun-27	86	14:47	72	6:12	14	79.0	0.0	74	2	2	T					0826	0840
Jun-28	95	15:42	70	4:57	25	82.5	3.5	73	1	2	0.04	0.04	0.01			2108	2215
Jun-29	86	16:06	70	23:59	16	78.0	-4.5	74	2	1	1.68	1.50	0.53			0106	0109
Jun-30	89	16:09	67	5:50	22	78.0	0.0	74	1	1							
TOTAL	2574.0	48482	1947.0	19767	627.0	2260.5	9.5	2122.0	26.0	28.0	3.29	2.44	0.80	0.0	0.0	MAX.	TEMPS
NUM.	30	30	30	30	30	30	30	30	30	30	9	8	8	0	0	>=95	1
AVE.	85.80	16:21	64.90	6:48	20.90	75.35	0.32	70.73	0.87	0.93	0.37	0.31	0.10	0.00	0.00	>=85	20
MAX.	95	18:11	74	23:59	28	83.0	9.0	CLEAR	12	9	24 Hr.	1.50	0.53	0.0	0	>=80	24
MIN.	65	13:12	54	3:33	6	62.0	-7.5	PT.CLO.	10	14	1.68	>= 1.00	>= 2.00	Inches	THUNDER	>=75	27
	>=90°	13	<=32°	0				CLO.	8	7	1.68	1	0	Days	6	>=70	28
DATE	6-28	DATE	6-01	DATE OF	6-13	DATE OF	6-03			DATE	6-29					>=65	30
OF MAX.		OF MIN.		HOTTEST		COOLEST				MAX.						>=60	30
TEMP.		TEMP.		DAY		DAY				PREC.						>=55	30

PAGE #2 JUNE 2005 Annandale (Barcroft Hills Weather Center) 38° 50' 26" N 77° 09' 58" W Stat. # 21517 Koontz																		
19	20	21	22	23	24	25	26	27.00	28	29	30	31	32	33	34	35	36	37
2005 JUNE	START TIME	END TIME	WIND RUN	MAX. GUST	TIME GUST	MAX. RH	MIN. RH	MAX. BAR.	MIN. BAR.	AVE. BAR.	BAR. CHANGE	BAR.& PREC.	MAP FEAT.	FEAT. LOC.	HP.LP. TRACK	FRONT DIRCT.	FRONT INTEN.	FRONT PASSED
Jun-01			44.1	17	1751	88	35	30.22	30.11	30.17	0.11		23			WEST	AVE.	
Jun-02	2100	2340	62.0	16	0936	91	67	30.23	30.14	30.19	0.02	30.18	8	GA	WEST			
Jun-03	2140	2320	38.0	14	0336	100	91	30.15	29.94	30.05	-0.14	30.13						
Jun-04			25.4	15	1152	99	56	30.00	29.93	29.97	-0.08		21			SOUTH	AVE.	
Jun-05			13.0	8	1530	96	38	30.04	29.94	29.99	0.03		21			SOUTH	AVE.	0600
Jun-06			24.4	24	1959	96	48	30.00	29.87	29.94	-0.05	29.88	23			WEST	AVE.	
Jun-07			32.0	13	0010	96	32	29.99	29.90	29.95	0.01	29.95	9	KY	SOUTH			
Jun-08			9.5	17	1534	91	34	30.01	29.92	29.97	0.02		9	NCC	NE			
Jun-09	2025	2030	24.9	14	1514	91	54	30.10	30.00	30.05	0.08	30.06	9	VAC	NE			
Jun-10			24.4	13	1310	94	56	30.13	30.03	30.08	0.03		9	NJC	SOUTH			
Jun-11			19.9	14	1239	91	56	30.10	30.02	30.06	-0.02		9	VAC	STAT.			
Jun-12			17.2	15	1608	91	49	30.09	29.97	30.03	-0.03		9	VAC	SOUTH			
Jun-13			20.0	18	1915	94	55	29.97	29.77	29.87	-0.16	29.78	9	NCC	SOUTH			
Jun-14			40.7	22	1126	96	47	29.82	29.70	29.76	-0.11		9	GA	SW			
Jun-15			43.2	20	1240	89	35	29.71	29.66	29.69	-0.07		11			WEST	WEAK	1200
Jun-16			56.1	26	1720	85	44	29.75	29.60	29.68	-0.01	29.62	11			NW	AVE.	1530
Jun-17			50.4	22	1632	86	32	29.86	29.74	29.80	0.12		23			NW	WEAK	1100
Jun-18			25.9	14	1445	86	34	30.02	29.86	29.94	0.14		9	ON	EAST			
Jun-19			45.2	16	1722	81	44	30.25	30.01	30.13	0.19		9	ON	EAST			
Jun-20			17.9	10	1409	90	51	30.30	30.18	30.24	0.11		9	NY	SOUTH			
Jun-21			5.0	11	1209	93	37	30.20	29.97	30.09	-0.16		9	NC	EAST			
Jun-22	1816	1850	59.8	16	1033	89	43	30.08	29.93	30.01	-0.08	30.00	11			NW	WEAK	1830
Jun-23			22.6	13	1510	91	31	30.20	30.08	30.14	0.14		9	NY	SE			
Jun-24			23.4	14	1330	92	40	30.22	30.11	30.17	0.02		9	NJC	SE			
Jun-25			18.5	12	1622	84	35	30.15	30.09	30.12	-0.05		9	VAC				
Jun-26			23.8	12	1220	94	23	30.18	30.11	30.15	0.03		9, 23	PA	EAST	SOUTH	WEAK	
Jun-27	1540	1550	18.1	12	1541	92	59	30.18	30.11	30.15	0.00	30.16	8, 9	NJC	NE			
Jun-28			19.1	15	1335	94	45	30.18	29.99	30.09	-0.06	30.09	9	VA	STAT.			
Jun-29	1942	2355	20.4	17	1956	94	63	30.05	29.92	29.99	-0.10	30.03	9	VA	STAT.			
Jun-30			12.3	9	0908	96	51	29.97	29.82	29.90	-0.09		9	VA	EAST			
MIN.	TEMPS	TOT.	857.2	459		2750	1385	902.15	898.42	900.29	-0.16	329.88				EXTREMES	DATES	
<=75	30	NUM.	30	30	30	30	30	30.00	30	30	30	11	WX.	FEAT.		MAX.	TEMP.	6-28
<=70	23	AVE.	28.6	15.30		91.67	46.17	30.07	29.95	30.01	-0.01	29.99	LOW	PR.=	5	MIN.	TEMP.	6-01
<=65	13	MAX.	62.0	26		100	91	30.30	30.18	30.24	0.19	30.18	HIGH	PR.=	20	MAX.	MEAN	6-13
<=60	8	MIN.	5.0	8		81	23	29.71	29.60	29.68	-0.16	29.62	ELONG	HP.=	0	MIN.	MEAN	6-03
<=55	1	MED.	24	15	1427	92	45	30.10	29.96	30.04	-0.01	30.03	COLD	FRO.=	3	MAX.	PREC	6-29
<=50	0		DATE	6-16	1720			DATE	6-20	6-16			WARM	FRO.=	2	MAX.	GUST	6-16
<=45	0		MAX.					MAX.					STAT.	FRO.=	0	MAX.	BAR.	6-20
<=40	0		WIND					BAR.					ALL	HPS.=	20	MIN.	BAR.	6-16

Annandale (Barcroft Hills Weather Center) 38° 50' 26" N 77° 09' 58" W Stat. # 21517 Koontz

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**2005
JUNE**

**June-2005
REMARKS FOR THE MONTH**

Jun-01	SUNNY IN THE AM AND INCREASING PM CLOUDS
Jun-02	TIED THE REC. LOW MAX. TEMP. FOR DATE AND ALSO SET A NEW 25 YR. REC. MIN. TEMP. RANGE
Jun-03	SET A NEW 25 YR. RAINFALL RECORD FOR DATE
Jun-04	WARM FRONT APPROACHING AREA
Jun-05	WARM FRONT PASSED AT 0600-TODAY WAS WARMEST DAY SINCE 8/20/2004 ALSO FIRST 90°F DAY OF 2005 & TIED 25 YR. REC. MAX. FOR DATE
Jun-06	HEAVY DEW-THUNDERSTORM BETWEEN 1945-2040-MOST OF THE STORM PASSED TO NORTH OF OUR LOCATION
Jun-07	STRONG LIGHTNING IN A THUNDERSTORM BETWEEN 0014-0040
Jun-08	VERY HOT FOR EARLY JUNE AFTER A VERY COOL MAY
Jun-09	SCATTERED THUNDERSTORMS BUT ONLY SPRINKLES HERE-THUNDER HEARD AT 2204
Jun-10	MODERATE DEW
Jun-11	TROPICAL STORM ARLENE HIT GULF COAST ALONG AL SHORE BUT DID LITTLE DAMAGE
Jun-12	LIGHT DEW - MOST OF CLOUDINESS OCCURRED BETWEEN 1100-1300
Jun-13	THUNDERSTORM WITH HEAVIEST CELL PASSING JUST TO OUR SOUTH BUT VERY FEW THUNDERSTORMS OVER NO VA
Jun-14	HOTTEST DAY OF YEAR SO FAR BY 0.1°F
Jun-15	BREEZY AFTERNOON AND MUCH LOWER REL. HUMIDITY TODAY THAN YESTERDAY
Jun-16	MUCH COOLER AND PLEASANT CONDITIONS WITH THE REDUCTION IN REL. HUMIDITY AFTER PASSAGE OF COLD FRONT
Jun-17	COOL PLEASANT LATE SPRING DAY WITH LOW REL. HUMIDITY
Jun-18	ANOTHER COOL AND PLEASANT LATE SPRING DAY
Jun-19	ALSO A LP LOCATED OFF THE GA COAST-VARIABLE SKIES AND WIND BUT PLEASANT TEMPS.
Jun-20	SUN IN AND OUT AT TIMES BUT GENERALLY CLOUDY MOST OF DAY
Jun-21	VERY DRY PERIOD ONLY 0.01 RAINFALL IN LAST 8 DAYS-ALSO A 25 YR. REC. HIGH TEMP. RANGE FOR DATE
Jun-22	A THUNDERSTORM PASSED TO WEST OF US BETWEEN 1815-1845
Jun-23	HEAVY DEW-INSTALLED NEW SOIL MOISTURE SENSOR-VERY SUNNY DAY-TIED THE 25 YR. REC. HIGH TEMP. RANGE FOR DATE
Jun-24	FIRST 90°F DAY SINCE 11TH-ALSO INCREASING HAZE TODAY
Jun-25	HAZY SKY AND CIRRUS CLOUDS IN PM BUT MAX. DEWPOINT TODAY WAS ONLY 68°F
Jun-26	HAZY SKY AND PM WITH THIN CIRRUS CLOUDS
Jun-27	HIGH PRESSURE OVER WVA KEEPING THE PRECIPITATION OF THE TROPICAL STORM FROM WETTING OUR AREA AS IT PASSED THE COAST TO THE NE
Jun-28	HOTTEST DAY OF THE YEAR WITH A HIGH OF 94.5°F AND WARMEST DAY SINCE 8/14/2002-ALSO BROKE 25 YR. REC. HIGH MAX. TEMP. FOR DATE-PREV. REC. WAS 94°F
Jun-29	TRACE OF PRECIPITATION AT 0106 - TS FROM 1940 TO 2210 - THE PRECIPITATION TOTAL TODAY WAS 1.68 INCHES, A NEW 25 YEAR MAXIMUM PRECIPITATION
Jun-30	LIGHT AM FOG FOLLOWING A EARLY MORNING MOISTURE HAZE.

DATE

EXTENSION OF LENGTHY DAILY REMARKS

Jun-28	SET IN 1993 WHEN IT WAS 94°F
Jun-29	RECORD FOR THE DATE; THE OLD RECORD WAS 1.25 INCHES IN 1994. THE MAXIMUM RAINFALL IN 5 MINUTES WAS 0.53 INCHES WHICH IS THE MOST IN A 5 MINUTE PERIOD SINCE JUNE 15, 1998 WHEN 0.56 INCHES RAIN FELL IN 5 MINUTES.

ACON - VA/NC/SC

The Atlantic Coast Observer Network: Virginia, North Carolina, South Carolina

June 2005

Station summary of Climatological Data

Observer: Lowell L. Koontz Acon Station ID: Annandale -Weather Center

Observation Times: Temps Recorded 2400 Precipitation Recorded 2400

TEMPERATURE °F

A	MEAN MAXIMUM	85.80
B	MEAN MINIMUM	64.90
C	MEAN MONTHLY	75.35
C1	MEAN TEMP DEP.	2.0
D	MAXIMUM	95
E	DATE(s) OF MAX.	Jun-28
F	MINIMUM	54
G	DATE(s) OF MIN.	Jun-01
H	# DAYS MAX. > = 90°	13
I	# MAX. < = 32°	0
J	MIN. < = 32°	0
K	MIN. < = 0°	0
K1	AVE RELATIVE HUMIDITY	68.9

WIND MPH

L	MAX. GUST	26
M	DIRECT. OF GUST	West
N	DATE	Jun-16
	TIME	1720

NUMBER DAYS WITH -

O	THUNDER	6
P	HAIL	0
Q	GLAZE	0
R	ICE PELLETS (SLEET)	0
R1	DENSE FOG < = 1/4 MILE	0

PRECIPITATION INCHES

T	MONTH TOTAL	3.29
U	CALENDAR DAY MAX.	1.68
U1	DATE OF MAX.	Jun-29
V	24-HR. PERIOD MAX.	1.68
V1	DATE(s) OF MAX. PD.	Jun-29
W	# DAYS > = 0.01"	9
X	# DAYS > = 1.00"	1
Y	YR. TO DATE TOT.	23.15
	MAX. 1 HR. PRECIP.	1.50
	MAX. 5 MIN PRECIP.	0.53

SNOWFALL INCHES

Z	DAILY MAXIMUM	0
1	DATE OF MAX.	0
2	DAYS= > TRACE	0
3	DAYS > = 1.0"	0
4	MONTHLY TOTAL	0
5	2004 - '05 SEASON'S TOT.	21.1

BAROMETER

6	MAXIMUM	30.30
6A	DATE	Jun-20
7	MINIMUM	29.60
7A	DATE	Jun-16
8	AVE. MONTHLY PRESSURE	30.01
CWA	NWS COUNTY WARNING AREA	FAIRFAX