May 2007

May was the second driest May in the last 27 years with above average in temperatures.

The mean temperature (67.4 °F) was + 2.7 °F above the average making it tied with 2000 for the fifth warmest May in the past 27 years. The record maximum temperature was 91 °F on the 26th and the lowest temperature recorded in May was 40 °F on the 8th. The minimum dew point temperature for May was 22 °F on the 6th which set a new minimum record for the month (Records since 2003). The 37 °F daily temperature range on the May 8th was the highest in May since 1998 when another 37 °F range was recorded. The May record is 42 °F set in 1992.

The May rainfall of 1.38 inches was the second driest in the past 27 years. May had a -2.86 inch departure and the driest since 1986 when 1.05 inches occurred which was the driest May in the last 27 years. The intense rain of a strong thunderstorm on the 27th gave 0.38 inches of rain in five minutes which was the most intense rainfall in May since 1995 when 0.38 inches which is the record in a five minute period. This thunderstorm also had about a half a minute in which a discernible amount of very soft hail became slush on impact.

May had few cloudy days and was the clearest May since 1997. The highest barometric pressure was recorded on the 24th at 30.50 inches which was the highest recorded in May since 2003. May 2003 had the highest pressure of 30.53 inches recorded in the past 27 years.

The maximum gust of 44 mph on the 27th that occurred in a strong thunderstorm was the highest in May since 2002 with the 27-year record for May being 45 mph set in 1993.

SPRING SEASON-

The mean spring temperature was 56.0°F with a + 1.0 °F departure with eight springs that were warmer in the last 27 years. The maximum was 58.56°F in 1991 and the minimum was 51.63 in 1996. The total precipitation was only 9.45 inches with a – 2.74 inch departure and was the eighth driest in the last 27 years. The maximum was 19.19 inches in 1983 and the minimum was 4.51 inches in 1986.

There were only 3 daily records set!

May DAILY Records Tied or Broken- (27-Years of records)

0 daily **HIGH** maximum 27-year temperature records for the date

0 daily **LOW** maximum 27-year temperature records for the date

1 daily **HIGH** minimum 27-year temperature record for the date May 10

0 daily **LOW** minimum 27-year temperature records for the date

1 daily **HIGH** range 27-year temperature record for the date May 8

0 daily **LOW** range 27-year temperature records for the date

1 daily **HIGH** 27-year precipitation record for the date May 27

0 daily **HIGH** 27-year snowfall records for the date

PAGE #1 — MAY 2007 — 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
2007 MAY	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
May-01	80	17:33	55	6:48	25	67.5	-1.0	56	0	0							
May-02	83	15:11	58	4:08	25	70.5	3.0	57	1	1	T	T	T			0455	0510
May-03	65	0:01	53	23:58	12	59.0	-11.5	57	2	2							
May-04	73	16:35	49	3:55	24	61.0	2.0	57	1	0							
May-05	69	10:53	52	23:46	17	60.5	-0.5	57	2	2	0.17	0.16	0.03			1231	1820
May-06	62	17:00	47	6:40	15	54.5	-6.0	56	0	0							
May-07	66	17:03	41	6:07	25	53.5	-1.0	56	0	0							
May-08	77	17:28	40	6:17	37	58.5	5.0	56	0	0							
May-09	81	16:33	56	4:27	25	68.5	10.0	57	2	0							
May-10	81	17:45	66	1:21	15	73.5	5.0	58	2	0	T	T	T			0715	0720
May-11	84	15:42	64	6:29	20	74.0	0.5	59	1	1	0.01	0.01	0.01			0023	0031
May-12	80	17:26	63	5:39	17	71.5	-2.5	60	2	2	0.07	0.06	0.02			2010	2400
May-13	71	15:44	51	23:47	20	61.0	-10.5	61	0	0	0.04	0.04	0.01			0001	0150
May-14	76	16:30	45	6:01	31	60.5	-0.5	61	0	1							
May-15	86	17:11	57	6:11	29	71.5	11.0	60	0	0							
May-16	84	12:59	60	23:55	24	72.0	0.5	61	0	2	0.26	0.26	0.23			1605	1650
May-17	70	15:54	56	23:50	14	63.0	-9.0	62	1	1							
May-18	60	17:49	53	23:47	7	56.5	-6.5	61	2	2	0.01	0.01	T			0805	1050
May-19	73	16:26	48	6:02	25	60.5	4.0	60	0	1							
May-20	81	16:21	56	7:12	25	68.5	8.0	60	2	1	0.01	0.01	0.01			0544	0645
May-21	76	16:20	57	23:54	19	66.5	-2.0	61	0	0							
May-22	80	16:12	51	5:59	29	65.5	-1.0	62	0	0							
May-23	80	16:31	55	5:59	25	67.5	2.0	62	0	1							
May-24	83	16:42	55	5:46	28	69.0	1.5	63	0	0							
May-25	89	15:46	58	5:33	31	73.5	4.5	64	0	0							
May-26	91	15:29	66	4:51	25	78.5	5.0	65	0	1							
May-27	89	16:12	67	6:06	22	78.0	-0.5	67	1	1	0.81	0.81	0.37			1828	1935
May-28	84	16:28	65	6:00	19	74.5	-3.5	66	2	1							
May-29	87	17:08	66	5:26	21	76.5	2.0	67	0	0							
May-30	89	15:42	62	6:03	27	75.5	-1.0	67	0	1							
May-31	90	16:44	64	6:11	26	77.0	1.5	68	0	0							
TOTAL	2440.0	1718	1736.0	29568	704.0	2088.0	8.5	1884.0	21.0	21.0	1.38	1.36	0.68	0.0	0.0	MAX.	TEMPS
NUM	31	31	31	31	31	31	31	31	31	31	8	8	7	0	0	>=95	0
AVE.	78.71	15:43	56.00	9:44	22.71	67.35	0.27	60.77	0.68	0.68	0.17	0.17	0.10	0.00	0.00	>=85	7
MAX.	91	17:49	67	23:58	37	78.5	11.0	CLEAR	18	15	24 Hr.	0.81	0.37	0.0	0	>=80	19
MIN.	60	0:01	40	1:21	7	53.5	-11.5	P.CLO.	5	11	0.81	>= 1.00	>= 2.00	Inches	THUNDER	>=75	22
	>=90°	2	<=32°	0				CLO.	8	5	0.81	0	0	Days	3	>=70	26
DATE OF MAX. TEMP.	5-26	DATE OF MIN. TEMP.	5-08	DATE OF HOTTEST DAY	5-26	DATE OF COOLEST DAY	5-07			DATE MAX. PREC.	5-27					>=65	29
																>=60	31
																>=55	31

PAGE #2 MAY 2007 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	28	29	30	31	32	33	34	35	36	37
2007 MAY	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
May-01			48.8	20	1826	66	29	30.06	29.79	29.93	0.04		9	MD	EAST			
May-02			41.5	22	2321	76	38	30.07	29.79	29.93	0.01	29.92	8, 24	OH	EAST	SOUTH	WEAK	
May-03			27.7	21	0818	78	38	30.26	30.07	30.17	0.23		9	ON	SE			
May-04			30.5	14	0855	89	27	30.26	30.15	30.21	0.04		9R	ON-VA	SE			
May-05	1950	2010	9.4	12	1224	96	28	30.19	30.10	30.15	-0.06	30.17	9R, 8	VA-NJC	EAST			
May-06			50.2	26	1019	97	26	30.43	30.12	30.28	0.13		9	QU	SOUTH			
May-07			40.6	19	1016	93	27	30.47	30.32	30.40	0.12		9R	QU-VA	EAST			
May-08			24.3	14	1339	90	46	30.35	30.15	30.25	-0.15		9	NJC	STAT.			
May-09			19.9	12	1850	96	50	30.16	30.02	30.09	-0.16		9	NJC	NE			
May-10	0730	0740	33.5	17	1456	94	60	30.04	29.89	29.97	-0.13	30.02	23			WEST	WEAK	
May-11			22.0	14	1511	97	37	29.93	29.88	29.91	-0.06	29.92	23			NW	WEAK	1000
May-12			16.9	14	0929	95	50	30.01	29.91	29.96	0.05	29.92	11			NW	STRONG	2100
May-13	0420	0600	32.9	17	0757	96	25	30.26	29.99	30.13	0.16	29.89	9	ON	EAST			
May-14			21.1	13	1844	79	25	30.35	30.20	30.28	0.15		9	NY	SE			
May-15			24.1	16	1216	64	41	30.21	29.90	30.06	-0.22		9	NCC	EAST			
May-16	1750	1755	29.7	21	1636	95	46	29.91	29.72	29.82	-0.24	29.74	11			NW	AVE.	1645
May-17			29.4	16	0950	96	42	30.10	29.91	30.01	0.19		9	IA	SE			
May-18	1410	1600	26.6	14	0626	91	72	30.15	30.06	30.11	0.10	30.11	9	IL	EAST			
May-19			85.8	26	1347	93	27	30.13	29.95	30.04	-0.06		9	KY	SE			
May-20			78.3	29	1520	81	34	30.01	29.87	29.94	-0.10	29.98	23, 9R	AR-GAC	STAT.	NW	WEAK	0600
May-21			35.9	18	1137	80	34	30.24	29.96	30.10	0.16		11, 9	ON	SE	NORTH	WEAK	0600
May-22			22.2	13	1631	92	31	30.36	30.24	30.30	0.20		9	NJ	EAST			
May-23			35.3	18	1232	78	38	30.46	30.36	30.41	0.11		9	MAC	SOUTH			
May-24			22.9	14	1348	89	39	30.50	30.34	30.42	0.01		9	CTC	SOUTH			
May-25			17.0	11	1659	84	39	30.35	30.17	30.26	-0.16		9	VAC	SOUTH			
May-26			17.2	13	0926	91	32	30.20	30.08	30.14	-0.12		9R, 24	NC-NCC	STAT.	NORTH	WEAK	
May-27			16.0	44	1833	96	46	30.17	30.08	30.13	-0.02	30.14	9	NCC	STAT.			
May-28			19.1	13	1606	97	49	30.20	30.10	30.15	0.02		11			NORTH	WEAK	
May-29			18.5	14	0855	93	31	30.29	30.16	30.23	0.08		11, 9	ON	SE	NORTH	WEAK	0530
May-30			15.6	11	1253	88	39	30.25	30.13	30.19	-0.04		9R	PA-DEC	SOUTH			
May-31			14.6	11	1216	79	42	30.17	30.07	30.12	-0.07		9R	WV- VAC	SOUTH			
MIN.	TEMP	TOT.	927.5	537		2729	1188	936.54	931.48	934.01	0.24	299.81				EXTREMES		DATES
<=75	31	NUM.	31	31	31	31	31	31	31	31	31	10	WX.	FEAT.		MAX.	TEMP.	5-26
<=70	31	AVE.	29.92	17.32		88.03	38.32	30.21	30.05	30.13	0.01	29.98	LOW	PR.=	2	MIN.	TEMP.	5-08
<=65	27	MAX.	85.8	44		97	72	30.50	30.36	30.42	0.23	30.17	HIGH	PR.=	18	MAX.	MEAN	5-26
<=60	22	MIN.	9.4	11		64	25	29.91	29.72	29.82	-0.24	29.74	ELONG	HP.=	7	MIN.	MEAN	5-07
<=55	14	MERI	24	14	1253	91	38	30.20	30.07	30.13	0.01	29.95	COLD	FRO.=	5	MAX.	PREC.	5-27
<=50	6		DATE	5-27	1833		DATE	5-24	5-16				WARM	FRO.=	0	MAX.	GUST	5-27
<=45	3		MAX.				MAX.						STAT.	FRO.=	2	MAX.	BAR.	5-24
<=40	1		WIND				BAR.						ALL	HPS.=	25	MIN.	BAR.	5-16

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

2007 MAY	May-2007 REMARKS FOR THE MONTH
May-01	BEAUTIFUL SPRING DAY - LOW RELATIVE HUMIDITY-SUNNY AND BREEZY
May-02	LOW P. IN OH ON STATIONARY FRONT THAT RUNS W TO E JUST SOUTH OF NORTHERN VA-THUNDERSTORMS IN CENTRAL AND SOUTHERN VA TODAY
May-03	CLOUDY ALL DAY BUT SOME SUN THROUGH CLOUDS IN PM
May-04	BEAUTIFUL COOL PLEASANT SPRING DAY-SOME EARLY AM CLOUDS
May-05	LOW PRESSURE TO FORM IN KY
May-06	VERY CLEAR BUT COLD FOR MAY 6TH
May-07	BEAUTIFUL COOL SPRING DAY BUT A BIT TOO COOL IN AM-36 °F MIN. IN WINCHESTER, VA
May-08	27 YR. REC. MAX. TEMP. RANGE FOR DATE-ALSO STRONG LOW PRESSURE OFF SC COAST-FEW CIRRUS BEFORE 0800 AND SOME CUMULUS IN PM
May-09	LOW PRESSURE NOW OFF GA COAST-HEAVY MORNING DEW-COMPLETELY UNTIL 1010 AND PC UNTIL NOON THEN MOSTLY CLEAR AFTER 1340
May-10	LITTLE DRIZZLE IN MORNING-MAX. DEW POINT 67 °F TODAY - 27 YR. REC. HIGH MIN. TEMP. FOR DATE
May-11	MANY CIRRUS ALL DAY BUT MUCH SUNLIGHT PASSED THROUGH CIRRUS
May-12	CLOUDS ALL DAY AND A THUNDERSTORM AROUND 2100
May-13	LAST CLOUDS SEEN AROUND 0730 THEN DEEP BLUE SKY AND COOL AND BREEZY AM
May-14	BEAUTIFUL SPRING DAY WITH A COOL START AND DEEP BLUE SKY BUT SOME CIRRUS BY 1300
May-15	STRONG WARM-UP TODAY WITH A 29 °F TEMP. RANGE
May-16	THUNDERSTORM FROM 1600-1720-CLOUDS STARTED TO COME IN AROUND 1230
May-17	COLD FRONT STILL JUST OFF EAST COAST AND MOSTLY CLOUDY AROUND NOON
May-18	ALSO A LOW PRESSURE OFF THE EAST COAST OF FL AND NC ON OLD COLD FRONT AND UPPER LEVEL TROUGH OVER EASTERN WVA AND WESTERN VA
May-19	CLEAR UNTIL 1320 THEN BECAME PARTLY CLOUDY
May-20	AN UPPER LEVEL TROUGH PASSED AT 0600 AND STRONGER UPPER LEVEL TROUGH PASSED AT 1500 THAT GAVE WINDY CONDITIONS
May-21	ANOTHER BEAUTIFUL SPRING DAY WITH BREEZE AND LOW RELATIVE HUMIDITY
May-22	SOME CIRRUS 0950-1400 TODAY
May-23	CIRRUS CLOUDS IN PM BUT MOSTLY SUNNY DURING DAY
May-24	HIGH PRESSURE MOVING TOWARDS US FROM NORTH-WARMER DAY BUT STILL A NICE SPRING DAY
May-25	SOME CLOUDS FROM 1530-1800 BUT GENERALLY MOSTLY CLEAR AND SO FAR LESS RAIN THAN ANY MAY IN PAST 27 YRS.
May-26	CLEAR UNTIL 1310 THEN PC WITH A WEAK STATIONARY FRONT JUST TO NORTH OF ANNANDALE
May-27	FIRST REALLY HAZY DAY-THUNDERSTORM CAUSED POWER OUTAGE FROM 1833-2340-NIMBUS ANEMOMETER RECORDED 42 MPH, DAVIS 44 MPH AT 1835,
May-28	VERY HAZY AM WITH A THIN LAYER OF CIRRUS CLOUDS ABOVE HAZE AND LESS HAZY IN PM BUT STILL SOME CIRRUS CLOUDS
May-29	VERY CLEAR DAY WITH A BLUE SKY ALL DAY
May-30	NO CLOUDS OBSERVED DURING MORNING AND FIRST CUMULUS CLOUDS OBSERVED IN PM AT 1330 THAT LASTED FOR ONLY A FEW HOURS
May-31	ANOTHER HOT AND CLEAR SPRING DAY -- MAY HAD FEW CLOUDY DAYS AND WAS THE CLEAREST MAY SINCE 1997.
DATE	EXTENSION OF LENGTHY DAILY REMARKS
May-27	VANTAGE PRO RECORDED 44 MPH AT 1833- RAINFALL FROM 1830-1835 WAS 0.33 INS. AND 1835-1840 WAS 0.29 INS. OR 0.62 INS. IN 10 MINUTES MAX. RAIN RATE WAS 13.09 INS. PER HOUR FOR ONE MINUTE DURING THIS 10 MINUTE PERIOD AND 0.70 INS. REC. IN 15 MINUTE PD-TODAY'S RAINFALL WAS MOST FOR DATE IN PAST 27 YRS. -THERE WAS ALSO SOME VERY SOFT HAIL THAT APPEARED AS SMALL ICE SLUSH THAT SLID DOWN WINDOW LOOKING MUCH LIKE WET SNOW FLAKES HITTING A CAR WINDOW BUT LAST ONLY LASTED ABOUT 30 - 45 SECONDS.

ACON - VA/NC/SC

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

May 2007

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	78.71
B	MEAN MINIMUM	56.00
C	MEAN MONTHLY	67.35
C1	MEAN TEMP DEP.	2.7
D	MAXIMUM	91
E	DATE(s) OF MAX.	May-26
F	MINIMUM	40
G	DATE(s) OF MIN.	May-08
H	# DAYS MAX. > = 90°	2
I	# MAX. < = 32°	0
J	MIN. < = 32°	0
K	MIN. < = 0°	0
K1	AVE RELATIVE HUMIDITY	63.2

WIND MPH

L	MAX. GUST	44
M	DIRECT. OF GUST	West
N	DATE	May-27
	TIME	1833

NUMBER DAYS WITH -

O	THUNDER	3
P	HAIL	1
Q	GLAZE	0
R	ICE PELLETS (SLEET)	0
R1	DENSE FOG < = 1/4 MILE	0

PRECIPITATION INCHES

T	MONTH TOTAL	1.38
U	CALENDAR DAY MAX.	0.81
U1	DATE OF MAX.	May-27
V	24-HR. PERIOD MAX.	0.81
V1	DATE(s) OF MAX. PD.	May-27
W	# DAYS > = 0.01"	8
X	# DAYS > = 1.00"	0
Y	YR. TO DATE TOT.	14.64
	MAX. 1 HR. PRECIP.	0.81
	MAX. 5 MIN PRECIP.	0.37

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	2006 - ' 07 SEASON'S TOT.	15.3

BAROMETER

6	MAXIMUM	30.50
6A	DATE	May-24
7	MINIMUM	29.72
7A	DATE	May-16
8	AVE. MONTHLY PRESSURE	30.13
CWA	NWS COUNTY WARNING AREA	FAIRFAX