

PAGE #1	JULY 1996 BARCROFT HILLS STAT. LAT. 38°50'25"North LONG.77°09'58' West STAT. # 737 KOONTZ																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1996	TEMP.	HR.OF	TEMP.	HR.OF	TEMP.	TEMP.	MEAN	GROUND	SKY	SKY	PRECIP	MAX.IHR	MAX.5M	FROZ.	SNOW ON	START	END
JULY	MAX.	MAX.	MIN.	MIN.	RANGE	MEAN	CHANGE	TEMP.	AM	PM	MELTED	PRECIP.	PRECIP.	PRECIP.	GROUND	TIME	TIME
7/1/96	88	16:21	72	10:42	16	80.0	4.0	69	2	1							
7/2/96	88	13:59	72	7:19	16	80.0	0.0	70	1	2	T						
7/3/96	78	12:50	64	8:38	14	71.0	-9.0	69	2	1	0.19	0.12	0.02			0545	0840
7/4/96	74	16:45	56	7:11	18	65.0	-6.0	68	1	1							
7/5/96	83	16:08	56	6:52	27	69.5	4.5	67	0	0							
7/6/96	90	14:57	60	7:02	30	75.0	5.5	68	0	0							
7/7/96	90	15:42	67	6:36	23	78.5	3.5	69	0	0							
7/8/96	93	15:15	71	0:00	22	82.0	3.5	69	2	1	0.04	0.04	0.01			1755	1915
7/9/96	91	16:51	69	7:04	22	80.0	-2.0	70	0	0	0.57	0.57	0.21			1720	1755
7/10/96	80	16:27	63	7:23	17	71.5	-8.5	69	0	0							
7/11/96	80	12:20	59	7:02	21	69.5	-2.0	69	0	1							
7/12/96	72	13:15	65	3:05	7	68.5	-1.0	68	2	2	0.74	0.19	0.09			0710	0805
7/13/96	87	16:37	68	9:01	19	77.5	9.0	67	2	0	1.47	0.33	0.06			0001	0850
7/14/96	91	15:31	71	7:15	20	81.0	3.5	68	0	1							
7/15/96	84	16:04	75	7:16	9	79.5	-1.5	69	2	2	0.02	0.01	0.01			0001	0850
7/16/96	88	14:55	69	7:20	19	78.5	-1.0	70	0	0							
7/17/96	90	15:34	68	6:39	22	79.0	0.5	70	0	0							
7/18/96	82	11:05	70	0:00	12	76.0	-3.0	70	2	2	0.37	0.18	0.04			1220	2000
7/19/96	83	15:22	70	5:51	13	76.5	0.5	70	2	2	1.40	1.08	0.43			0100	0200
7/20/96	80	17:16	66	7:50	14	73.0	-3.5	69	0	0							
7/21/96	83	16:20	58	7:06	25	70.5	-2.5	69	0	0							
7/22/96	71	11:57	66	9:04	5	68.5	-2.0	69	2	2	0.10	0.05	0.02			1055	1220
7/23/96	82	16:27	64	7:21	18	73.0	4.5	68	1	0							
7/24/96	87	15:58	66	6:47	21	76.5	3.5	69	0	0							
7/25/96	85	14:35	68	7:12	17	76.5	0.0	69	2	2	0.31	0.27	0.05			1655	1810
7/26/96	85	13:05	69	8:39	16	77.0	0.5	69	0	0	0.35	0.27	0.05			0001	0400
7/27/96	82	15:30	62	6:44	20	72.0	-5.0	69	0	0							
7/28/96	82	15:45	64	6:15	18	73.0	1.0	69	0	2							
7/29/96	77	17:30	67	6:55	10	72.0	-1.0	69	2	2	0.33	0.13	0.03			0150	0740
7/30/96	83	17:40	68	4:55	15	75.5	3.5	68	2	2	0.17	0.14	0.02			0235	0410
7/31/96	80	14:20	70	2:30	10	75.0	-0.5	68	2	2	0.10	0.07	0.02			0605	1030
TOT.	2589.0	19.68	2053.0	8.48	536.0	2321.0	-1.0	2134.0	29.00	28.00	6.16	3.45	1.06	0.0	0.0	MAX.	TEMPS
NUMBER	31	31	31	31	31	31	31	31	31	31	14	14	14	0	0	>=70	31
AVE.	83.52	15:14	66.23	6:07	17.29	74.87	-0.03	68.84	0.94	0.90	0.00	0.00	0.00	0.00	0.00	>=65	31
MAX.	93	15:45	75	10:00	30	82.0	9.0	CLEAR	15	14	1.47	1.08	0.43	0	0	>=60	31
MIN.	71	0:00	56	0:00	5	65.0	-9.0	PT.CLO.	3	6	0000	>=95	0	>=80	26	>=55	31
> EQUAL 90° DAYS	6		<=32°D	0	0000	0000	0000	CLOUDY	13	11	0000	>=85	13	>=75	28	>=50	31

PAGE#2	JULY 1996 BARCROFT HILLS STAT. LAT. 38°50'25" North LONG. 77°09'58' West STAT. # 737 KOONTZ																	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
1996	START	END	WIND	MAX.	MAX.	MAX.RH.	MIN.RH.	MAX.	MIN.	AVE.	BAR.	BAR.&	MAP	FEAT.	HP.LP	FRONT	FRONT	FRONT
JULY	TIME	TIME	DOT. AVE.	SUNRISE	SUNSET	SUNRISE	SUNSET	BAR.	BAR.	BAR.	CHANGE	PREC.	FEAT.	LOC#	TRACK	DIRECT.	INTEN.	PASS.
7/1/96			11	8	7	100	55	29.94	29.81	29.88	-0.08		11			NORTH	WEAK	2000
7/2/96			7	0	8	100	35	29.82	29.76	29.79	-0.09		11			NORTH	WEAK	
7/3/96			46	9	20	99	46	29.76	29.55	29.66	-0.13	29.59	11			NORTH	AVE.	1100
7/4/96			51	17	19	75	49	29.90	29.68	29.79	0.13		9	IL	SE			
7/5/96			15	8	12	89	22	30.06	29.90	29.98	0.19		9R	IL-WV	E			
7/6/96			8	0	9	100	30	30.04	29.91	29.98	0.00		9R	VA-SCC	E			
7/7/96			8	0	11	98	31	30.02	29.91	29.97	-0.01		9					
7/8/96			10	0	9	100	54	29.80	29.59	29.70	-0.27	29.60						
7/9/96			16	0	18	100	34	29.81	29.64	29.73	0.03	29.64	11			NW	AVE.	1930
7/10/96			24		15	100	33	30.18	29.81	30.00	0.27		9	MN				
7/11/96			7	0	9	85	32	30.30	30.18	30.24	0.25		9	NJC	EAST			
7/12/96	1310	1355	40	4	13	100	69	30.26	29.95	30.11	-0.14	30.23	8	SCC	NNE			
7/13/96			36	21	22	100	46	29.95	29.59	29.77	-0.34	29.95	8	VA	NNE			
7/14/96			2	0	8	100	52	29.96	29.83	29.90	0.13		9	FL	EAST			
7/15/96	1830	1915	2	0	12	100	71	29.95	29.89	29.92	0.03	29.93	11			NW	WEAK	
7/16/96			7	8	11	100	36	30.15	29.98	30.07	0.14		9					
7/17/96			8	0	13	98	38	30.16	30.09	30.13	0.06		9	NC	SOUTH			
7/18/96			1	0	12	100	71	30.16	29.95	30.06	-0.07	30.10	21			SW	WEAK	1300
7/19/96	0850	1150	11	12	48	100	71	29.95	29.58	29.77	-0.29	29.63	23, 11			WEST	AVE.	1100
7/20/96			30	17	24	80	27	29.97	29.76	29.87	0.10		9	WI	EAST			
7/21/96			18	10	14	82	31	29.98	29.89	29.94	0.07		9	MI	EAST			
7/22/96	1440	1525	4	0	11	100	38	29.98	29.86	29.92	-0.02	29.91	8	OH	EAST			
7/23/96			20	8	17	100	44	29.95	29.84	29.90	-0.03		8, 9	VAC,FGC	EAST,E			
7/24/96			6	7	9	100	47	30.02	29.94	29.98	0.09		9	OH	EAST			
7/25/96	1855	2015	3	0	11	100	60	30.03	29.92	29.98	0.00	29.93	11			NW	AVE.	
7/26/96			21	11	19	100	35	30.05	29.88	29.97	-0.01		11, 9			NW	AVE.	0700
7/27/96			18	10	14	92	38	30.22	30.05	30.14	0.17		9	MO	EAST			
7/28/96			3	0	8	100	49	30.28	30.21	30.25	0.11		9	IN	EAST			
7/29/96			3		10	100	71	30.21	30.12	30.17	-0.08	30.21	21			SOUTH	SW	
7/30/96			4		12	100	70	30.12	30.00	30.06	-0.10	30.09	21			AVE.	AVE.	
7/31/96			4		17	100	76	30.03	29.93	29.98	-0.08	29.97	21, 11			WEST	AVE.	1230
TOT.	MIN.	TEMPS	444	150	442	2998	1461	931.01	926.00	928.51	0.03	388.78	LOW	PR.=	4	000	000	000
NUMBER	<=75	31	31	27	31	31	31	31	31	31	31	13	HIGH	PR.=	14	000	000	000
AVE.	<=70	26	14.32	5.56	14.26	96.71	47.13	30.03	29.87	29.95	0.00	29.91	H.P.	RIDGE	2	ALL	HPS.=	16
MAX.	<=65	11	51	21	48	100	76	30.30	30.21	30.25	0.27	30.23	COLD	FRO.=	9	000	000	000
MIN.	<=60	5	1	0	7	75	22	29.76	29.55	29.66	-0.34	29.59	WARM	FRO.=	4	000	000	000
MEDIAN	<=55	0	8	4	12	100	46	30.02	29.89	29.97	0.00	29.93	STAT.	FRO.=	0	000	000	000

PAGE #3	JULY 1996 BARCROFT HILLS STAT. LAT. 38°50'25"North LONG.77°09'58' West STAT. # 737 KOONTZ
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1996	REMARKS FOR THE MONTH OF
JULY	JULY
7/1/96	SOME LIGHT MORNING FOG- VERY HAZY DAY
7/2/96	
7/3/96	
7/4/96	COOL 4TH OF JULY
7/5/96	
7/6/96	LARGE TEMP. RANGE 30°
7/7/96	
7/8/96	LIGHTNING AND THUNDER
7/9/96	LIGHTNING AND THUNDER FROM 1700 TO 1800
7/10/96	
7/11/96	
7/12/96	HURRICANE BERTHA 115MPH WINDS HTS@WRIGHTSVILLE,NC;PM RAIN HERE FROM STORM- BAR.29.08 NOT VERY LOW- RAIN PDS. 1855-2005,2105-2400
7/13/96	MOST RAIN IN A 24 HOUR PD. WAS 2.11 INCHES AND 1.47 IN A CALENDAR DAY
7/14/96	
7/15/96	LIGHTNING AND THUNDER- TS. TO THE SOUTH & ONE SEVERE TS CELL TO THE EAST OF DC.
7/16/96	WARMER BUT MUCH LESS HUMID
7/17/96	
7/18/96	THUNDER AND LIGHTNING FROM 1200 TO 1300 NEW NIMBUS WIND MONITOR PUT IN OPERATION TODAY
7/19/96	AT 1623 WIND 48MPH FROM WEST, RAIN PD. 1615 TO 1705 LIGHTNING 100,1100,1320 AND 1545 TO 1700- TORNADOES TO NORTH OF AREA
7/20/96	BEAUTIFUL DAY- MAX. RADIATION FOR TODAY WAS 786 KILOWATTS PER SQUARE METER
7/21/96	
7/22/96	
7/23/96	
7/24/96	
7/25/96	THUNDERSHOWER
7/26/96	THUNDER @ 030 MAX. WIND OF 19 MPH WAS FROM THE WEST
7/27/96	
7/28/96	
7/29/96	
7/30/96	
7/31/96	WARM FRONT PASSED AT 500 AND THE CF. PASSED AT ABOUT NOON
1996	JULY- COOLEST ON RECORD HERE, WAS ONLY 0.07° LOWER THAN THE OLD RECORD OF 1984, WETTEST SINCE 1992 & THE 2ND WETTEST ON REC.
JULY	THE WIND ON THE 19TH WAS THE HIGHEST WIND EVER RECORDED HERE IN JUNE & TIED FOR 6TH HIGHEST ON RECORD HERE
REMARKS	LOWEST BAR. IN JULY SINCE '76 (29.55 ON THE 3TH WITH A CF) BUT WAS ALMOST AS LOW WITH BERTHA ON THE 13TH & THE 19TH TS.
♦♦♦♦♦	BERTHA GAVE 2.11 INCHES RAIN IN A 24-HOUR PD. ON THE 12TH & 13TH HEAVIEST SINCE OCT. 1995 & THE 26TH HEAVIEST ON RECORD
♦♦♦♦♦	ONLY 6 DAYS WERE 90° OR GREATER THIS WAS THE LEAST SINCE 1984 WHEN ONLY 5 DAYS WERE 90° OR HIGHER
♦♦♦♦♦	THE 0.43 INCHES OF RAIN IN 5 MINS. ON THE 19TH WAS THE 4TH MOST INTENSE 5MIN. PD. OF RAIN SINCE 1992

ACON VA/NC/SC JULY 1996 SUMMARY

OBSERVER: LOWELL L. KOONTZ

ALL OBSERVATION TIMES: 2400

LOCATION: 6515 OAKWOOD DR., FALLS CHURCH VA 22041

ALTITUDE : 360 FEET

TEMPERATURE:

MEAN MAXIMUM	83.52
MEAN MINIMUM	66.23
MEAN MONTHLY	74.87
MAXIMUM	93
DATE(s) OF MAX.	7/8/96
MINIMUM	56
DATE(s) OF MIN.	7- 4 TH , 5 TH -96
# DAYS MAX. $\geq 90^{\circ}$	6
# MAX. $\leq 32^{\circ}$	0
MIN. $\leq 32^{\circ}$	0
MIN. $\leq 0^{\circ}$	0

NUMBER DAYS WITH:

THUNDER	7
HAIL	0
GLAZE	0
ICE PELLETS (SLEET)	0
DENSE FOG	0

WIND

MAX. GUST (MPH)	48
DIRECT. OF GUST	WEST
DATE	7/19/96

PRECIPITATION:

MONTH TOTAL	6.16
DAILY MAXIMUM	1.47
DATE OF MAX.	7/13/96
24-HR. PD. MAX.	2.11
DATE(s) OF MAX. PD.	7-(12-13)-96
# DAYS $\geq 0.01"$	14
# DAYS $\geq 1.00"$	2
YR. TO DATE TOT.	31.73

SNOWFALL:

DAILY MAXIMUM	0.0
DATE OF MAX.	-
DAYS $\geq$ TRACE	0
DAYS $\geq 1.0"$	0
MONTHLY TOTAL	0.0
PAST SEASON'S TOT.	61.2

BAROMETER

MAX.	30.30
MIN.	29.55

JULY REMARKS:

JULY - **COOLEST ON RECORD HERE**, WAS ONLY 0.07° LOWER THAN THE OLD RECORD IN 1984,

WETTEST SINCE 1992 & THE 2ND WETTEST ON RECORD

THE 19TH WAS THE HIGHEST WIND EVER RECORDED HERE IN JUNE & TIED FOR 6TH HIGHEST ON RECORD HERE
LOWEST BAR. IN JULY SINCE '76 (29.55 ON THE 3TH WITH A CF) BUT WAS ALMOST AS LOW WITH BERTHA

ON THE 13TH & THE 19TH Thunderstorm

BERTHA GAVE 2.11 INCHES RAIN IN A 24-HOUR PD. ON THE 12TH & 13TH HEAVIEST SINCE OCT. 1995

ONLY 6 $\geq 90^{\circ}$ OR GREATER THIS WAS THE **LEAST SINCE 1984** WHEN ONLY 5 DAYS WERE 90° OR HIGHER

THE 0.43 INCHES OF RAIN IN 5 MINS. ON THE 19TH WAS THE **4TH MOST INTENSE 5MIN. PD.** OF RAIN SINCE 1992