

PAGE #1	DEC 1998 ANNANDALE (BARCROFT HILLS) LAT.38°50'25"N.LONG.77°09'58' W. STAT.# 737 KOONTZ																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1998 DEC	TEMP. MAX.	TEMP. MAX.	TEMP. MIN.	TEMP. MIN.	TEMP. RANGE	TEMP. MEAN	MEAN CHANGE	GROUND TEMP.	SKY AM	SKY PM	PRECIP MELTED	MAX.1HR PRECIP.	MAX.5M PRECIP.	FROZ. PRECIP.	SNOW ON GROUND	START TIME	END TIME
12-01-98	64	14:18	43	23:59	21	53.5	-2.0	51	0	0							
12-02-98	66	14:15	38	4:08	28	52.0	-1.5	50	0	0							
12-03-98	71	14:39	45	6:06	26	58.0	6.0	50	1	0							
12-04-98	73	13:55	56	3:17	17	64.5	6.5	51	2	1							
12-05-98	74	14:43	59	23:55	15	66.5	2.0	52	1	1							
12-06-98	77	14:19	56	7:16	21	66.5	0.0	54	0	0							
12-07-98	77	13:26	60	4:04	17	68.5	2.0	55	2	2	0.08	0.07	0.02			1605	1830
12-08-98	60	0:01	52	23:59	8	56.0	-12.5	56	2	2	0.65	0.12	0.03			0210	0345
12-09-98	52	0:01	36	22:14	16	44.0	-12.0	55	0	0	0.22	0.10	0.02			0001	0630
12-10-98	51	14:52	33	7:26	18	42.0	-2.0	53	1	1							
12-11-98	48	14:29	34	23:59	14	41.0	-1.0	52	2	1							
12-12-98	47	13:16	33	4:26	14	40.0	-1.0	51	2	2	0.03					2130	2400
12-13-98	44	15:19	40	5:05	4	42.0	2.0	50	2	2	0.55	0.09	0.02			1	1215
12-14-98	46	14:26	29	23:49	17	37.5	-4.5	49	0	0							
12-15-98	50	14:51	26	7:07	24	38.0	0.5	47	0	0							
12-16-98	53	14:26	35	4:08	18	44.0	6.0	47	2	0							
12-17-98	48	13:29	34	23:00	14	41.0	-3.0	47	2	2	T					0650	0710
12-18-98	43	14:29	33	7:43	10	38.0	-3.0	48	0	0							
12-19-98	54	13:45	35	1:13	19	44.5	6.5	46	1	2							
12-20-98	55	14:51	43	8:07	12	49.0	4.5	46	2	2							
12-21-98	56	23:55	45	3:56	11	50.5	1.5	47	2	2							
12-22-98	64	6:42	23	23:58	41	43.5	-7.0	49	2	2	0.03	0.03	0.01			0705	0845
12-23-98	27	12:55	19	7:12	8	23.0	-20.5	48	2	2	0.24	0.06	0.01	0.4	T	0445	2400
12-24-98	30	14:30	23	5:49	7	26.5	3.5	46	2	2	0.01			T	0.4	0001	0100
12-25-98	34	14:52	21	7:55	13	27.5	1.0	44	0	1					0.3		
12-26-98	34	14:34	19	3:27	15	26.5	-1.0	43	2	1					0.3		
12-27-98	39	13:02	23	6:34	16	31.0	4.5	42	2	2					0.1		
12-28-98	43	13:33	33	0:01	10	38.0	7.0	41	2	2	T				T	0001	0100
12-29-98	38	13:23	35	3:47	3	36.5	-1.5	42	2	2	0.06	0.04	0.01			1245	1530
12-30-98	37	5:04	20	22:23	17	28.5	-8.0	41	2	0	0.06	0.04	0.02			0255	0515
12-31-98	27	15:01	19	1:23	8	23.0	-5.5	41	2	2	0.02			0.4	0.3	0800	1100
TOT.	1582.0	16.9	1100.0	13.4	482.00	1341.0	-32.5	1494.00	42.0	36.0	1.95	0.55	0.14	0.8	1.4	MAX. TEMPS.	
NUMBER	31	31	31	31	31	31	31	31	31	31	11	8	8	2	5	>=35 26	
AVE.	51.03	13:04	35.48	10:22	15.55	43.26	-1.05	48.19	1.35	1.16	0.18	0.07	0.02	0.00	0.00	>=30 29	
MAX.	77	23:55	60	23:59	41	68.5	7.0	CLEAR 8 10			0.65	0.12	0.03	0.4	0.4	>=25 31	
MIN.	27	0:01	19	0:01	3	23.0	-20.5	PT.CLO. 4 6			>1 INCH		MAX. TEMPS	MAX. TEMPS		>=20 31	
>EQUAL90°DAYS 0		<=32° DAYS 10						CLOUDY 19 15		0			>=75 2	>=55 11		>=15 31	
DATE OF 12-6-98	DATE OF 12-23-98								DATE 12-8-98				>=70 5	>=50 16		>=10 31	
MAX. 12-7-98	MIN. 12-26-98								MAX.				>=65 6	>=45 20		>= 5 31	
TEMP. 12-7-98	TEMP. 12-31-98								PREC.				>=60 9	>=40 23		>= 0 31	

PAGE #2	DEC 1998 ANNANDALE (BARCROFT HILLS) LAT.38°50'25"N.LONG.77°09'58' W. STAT.# 737 KOONTZ																	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
1998 DEC	START TIME	END TIME	WIND DOT AVE	MAX. SUNRISE	MAX. SUNSET	MAX.RH. SUNRISE	MIN.RH. SUNSET	MAX. BAR.	MIN. BAR.	AVE. BAR.	BAR. CHANGE	BAR.& PREC.	MAP FEAT.	FEAT. LOC#	HP.LP TRACK	FRONT DIRCT.	FRONT INTEN.	FRONT PASS.
12-01-98			40	10	36	69	20	30.36	29.96	30.16	0.05		11, 9	ILL	EAST			
12-02-98			1	7	12	62	23	30.36	30.07	30.22	0.05		9	NC	SOUTH			
12-03-98			2	7	13	58	36	30.02	29.96	29.99	-0.22		9R	GA-SCC	SOUTH			
12-04-98			7	12	14	68	52	30.09	29.99	30.04	0.05		9	GA	EAST			
12-05-98			2	7	9	84	42	30.11	29.97	30.04	0.00		11			NORTH	WEAK	
12-06-98			3	10	12	86	45	30.01	29.93	29.97	-0.07		9					
12-07-98	1955	2010	9	9	14	85	48	30.06	29.89	29.98	0.01	30.04	11			NW	AVE	
12-08-98	1055	2400	10	14	12	92	81	30.10	29.98	30.04	0.06	30.07	8	SW.VA	NE			
12-09-98			22	11	16	94	48	30.40	30.05	30.23	0.19	30.05	8	NCC	EAST			
12-10-98			1	6	8	75	44	30.48	30.26	30.37	0.15		9	NVA	EAST			
12-11-98			27	15	23	70	38	30.39	30.28	30.34	-0.04		11					
12-12-98			1	3	10	80	47	30.48	30.29	30.39	0.05	30.31	8					
12-13-98	1520	1615	1	7	6	93	80	30.29	29.91	30.10	-0.28	30.31	8	NC	NE			
12-14-98			11	10	14	77	33	30.39	29.99	30.19	0.09		9	MO	EAST			
12-15-98			1	8	8	81	35	30.40	30.17	30.29	0.10		9R	AR-KY	SE			
12-16-98			6	7	17	73	38	30.17	29.83	30.00	-0.29		8	NCC	NE			
12-17-98			23	11	25	71	40	29.96	29.74	29.85	-0.15	29.75	11, 9	TX	SOUTH			
12-18-98			32	23	21	65	32	30.34	29.96	30.15	0.30		9	GA	NE			
12-19-98			6	12	16	62	39	30.34	30.25	30.30	0.15							
12-20-98			2	7	12	74	53	30.40	30.29	30.35	0.05		11			NORTH	WEAK	0900
12-21-98			7	9	9	90	58	30.38	29.97	30.18	-0.17		11			WEST	STRONG	
12-22-98			91	20	34	88	34	30.54	29.79	30.17	-0.01		11			NW	STRONG	0900
12-23-98			6	21	9	56	41	30.66	30.43	30.55	0.38	30.52	9	MD	NE			
12-24-98			5	7	12	83	53	30.44	30.34	30.39	-0.16	30.40	8					
12-25-98			6	10	9	80	29	30.53	30.37	30.45	0.06		9	VA	NE			
12-26-98			3	2	6	86	32	30.35	30.13	30.24	-0.21							
12-27-98			1	9	11	85	43	30.42	30.23	30.33	0.09		9	TN	EAST			
12-28-98			0	6	7	90	47	30.21	30.03	30.12	-0.21		8	NC	NE			
12-29-98			0	7	7	86	55	30.06	29.57	29.82	-0.31	30.05	8	NC	NE			
12-30-98			109	38	37	100	40	30.22	29.56	29.89	0.08	29.57	11, 8	QU	EAST	NNW	STRONG	0430
12-31-98			8	26	8	84	70	30.24	30.09	30.17	0.27	30.23	8	KY	EAST			
TOT.	MIN.TEMPS.		443	351	447	2447	1376	939.2	931.3	935.2	0.1	331.3	WEATHER FEATURES			DATES OF EXTREMES		
NUMBER	<=35	19	31	31	31	31	31	31	31	31	31	11	LOW PRESS.	9		MAX.TEMP.	12-06-98	
AVE.	<=30	10	14.29	11.32	14.42	78.94	44.39	30.30	30.04	30.17	0.00	30.12	HIGH PRESS.	11		MAX.TEMP.	12-07-98	
MAX.	<=25	8	109	38	37	100	81	30.66	30.43	30.55	0.38	30.52	ELONG.HIGH P.	2		MIN.TEMP.	12-23-98	
MIN.	<=20	4	0	2	6	56	20	29.96	29.56	29.82	-0.31	29.57	ALL HIGH P.	13		MAX.PREC.	12-08-98	
MEDIAN	<=15	0	6	9	12	81	42	30.35	29.99	30.17	0.05	30.07	COLD FRONT	8		MAX.AM WIND	12-30-98	
	<=10	0	DATE 12-30-98 12-30-98				DATE 12-23-98 12-30-98						WARM FRONT	0		MAX.PM WIND	12-30-98	
	<= 5	0	MAX.				MAX.						STAT.FRONT	0		MAX. BAR.	12-23-98	
	<= 0	0	WIND				BAR.									MIN. BAR.	12-30-98	

PAGE #3	ANNANDALE (BARCROFT HILLS) LAT.38°50'25"N.LONG.77°09'58' W. STAT.# 737 KOONTZ
38	39
1998 DEC	1998
	REMARKS FOR THE MONTH OF DECEMBER
12-01-98	MAX. WIND AT 8:58 AM
12-02-98	
12-03-98	
12-04-98	
12-05-98	COLD FRONT FROM NORTH MOVED INTO MD BECAME STATIONARY AND DIDN'T PASS NVA
12-06-98	
12-07-98	
12-08-98	
12-09-98	CLEARED UP AT 8:30
12-10-98	
12-11-98	
12-12-98	
12-13-98	
12-14-98	
12-15-98	
12-16-98	
12-17-98	SOME WET SNOW FLAKES HARDLY DISCERNIBLE AT 1525
12-18-98	LOWEST WIND CHILL FACTOR TODAY 9°
12-19-98	
12-20-98	SUN THROUGH CIRRUS IN AM
12-21-98	
12-22-98	
12-23-98	UPPER LEVEL DISTURBANCE WITH WEAK LOW PRESSURE THAT FORMED OFF COAST GAVE PRECIP.
12-24-98	
12-25-98	
12-26-98	
12-27-98	
12-28-98	SLOW MOVING LOW PRESSURE
12-29-98	FOG DURING THE EVENING AND INTO THE NIGHT
12-30-98	COLD FRONT PASSED BETWEEN 430 AND 0500 AND A WIND GUST OF 38 MPH OCCURRED AT 1332
12-31-98	VERY DRY LIGHT SNOW ONLY 0.02 INCHES MOISTURE IN 0.4 INCHES OF SNOW- HEAVIEST BETWEEN 0900 & 1030
DEC	DEC. WAS WARM AND DRY. THE TOT. PRECIP. WAS 1.95 INS., DEP. OF -1.72 INS. THE DRIEST DEC. SINCE '89.
	THE MAX. TEMP. WAS 51.0° DEP. +6.0°, AVE. MIN. WAS 35.5° DEP. +5.3, MEAN 43.2 DEP. 5.7
	THE 77° ON DEC. 6TH-7TH WAS THE HIGHEST MAX. EVER REC. AT THIS STAT. IN DEC., A DEP. OF +13°.
	DEC. HAD 5 DAYS THAT THE MAX. WAS EQUAL TO OR GREATER THAN 70° ALSO A NEW REC. FOR DEC.
	ON THE 22ND A 41° TEMP. RANGE IN 24 HRS. SET A NEW REC. FOR DEC.
	THE GROUND TEMP AT 1 FOOT ALSO SET A NEW REC. HIGH FOR DEC. OF 48° DEP. OF +8°
	THE 38MPH WIND ON THE 30TH AT 1332 WAS THE HIGHEST WIND REC. IN DEC. SINCE 1993
	THE 30.66 IN. BAR. ON DEC. 23 WAS THE HIGHEST BAR. REC. IN DEC. SINCE 1993.

ACON VA / NC / SC DEC. 1998 SUMMARY

OBSERVER: LOWELL L. KOONTZ

STATION ID : ANNANDALE

ALL OBSERVATION TIMES: 2400

LOCATION: 6515 OAKWOOD DR., FALLS CHURCH VA 22041

ALTITUDE : 360 FEET

RECORDS OF TEMPERATURE AND PRECIPITATION SINCE SEPT. 1979

TEMPERATURE:

MEAN MAXIMUM	51.03
MEAN MINIMUM	35.48
MEAN MONTHLY	43.26
MAXIMUM	77.00
DATE(s) OF MAX.	12-6-98 & 7th
MINIMUM	19
DATE(s) OF MIN.	23 rd , 26 th , 31 st
# DAYS MAX. $\geq 90^{\circ}$	0
# MAX. $\leq 32^{\circ}$	3
MIN. $\leq 32^{\circ}$	10
MIN. $\leq 0^{\circ}$	0

NUMBER DAYS WITH:

THUNDER	0
HAIL	0
GLAZE	1
ICE PELLETS (SLEET)	2
DENSE FOG	1

WIND

MAX. GUST (MPH)	38
DIRECT. OF GUST	WNW
DATE	12-30-98

PRECIPITATION:

MONTH TOTAL	1.95
DAILY MAXIMUM	0.65
DATE OF MAX.	12-8-98
24-HR. PD. MAX.	0.86
DATE(s) OF MAX. PD.	8 th & 9 th
# DAYS $\geq 0.01"$	11
# DAYS $\geq 1.00"$	0
YR. TO DATE TOT.	44.55

SNOWFALL:

DAILY MAXIMUM	0.4
DATE OF MAX.	23 rd & 31 st
DAYS $\geq$ TRACE	3
DAYS $\geq 1.0"$	0
MONTHLY TOTAL	0.8
98-'99 SEASON'S TOT.	0.8

BAROMETER

MAX.	30.66
DATE(s) OF MAX.	12-23-98
MIN.	29.56
DATE(s) OF MIN.	12-30-98

DEC. REMARKS:

DEC. WAS WARM AND DRY. THE TOT. PRECIP. WAS 1.95 INS., DEP. OF -1.72 INS. THE DRIEST DEC. SINCE 1979. THE MAX. TEMP. WAS 51.0° DEP. +6.0°, AVE. MIN. WAS 35.5° DEP. +5.3, MEAN 43.2 DEP. 5.7 THE 77° ON DEC. 6TH-7TH WAS THE HIGHEST MAX. EVER REC. AT THIS STAT. IN DEC., A DEP. OF +13°. DEC. HAD 5 DAYS THAT THE MAX. WAS EQUAL TO OR GREATER THAN 70° ALSO A NEW REC. FOR DEC. ON THE 22ND A 41° TEMP. RANGE IN 24 HRS. SET A NEW REC. FOR DEC. THE GROUND TEMP AT 1 FOOT ALSO SET A NEW REC. HIGH FOR DEC. OF 48° DEP. OF +8° THE 38MPH WIND ON THE 30TH AT 1332 WAS THE HIGHEST WIND REC. IN DEC. SINCE 1993 THE 30.66 IN. BAR. ON DEC. 23 WAS THE HIGHEST BAR. REC. IN DEC. SINCE 1993.