

AUG 1993
 RICHMOND, VA
 NOAA-NATIONAL WEATHER SERVICE
 RTC INTL APT/EXECUTIVE TERMINAL

ISSN 0198-537X

INQUIRIES/COMMENTS CALL
 (704) 271-4800

R.E.BYRD INTERNATIONAL AP.

LOCAL CLIMATOLOGICAL DATA Monthly Summary



LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FEET TIME ZONE EASTERN 13740

AUG 1993
 RICHMOND, VA

DATE	TEMPERATURE °F						DEGREE DAYS BASE 65°F		WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. 177 FEET ABOVE M.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)				
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEN POINT	HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)	WATER EQUIVALENT (INCHES)			SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.		RESULTANT SPEED	AVERAGE SPEED	PEAK GUST		FASTEST 1-MIN		MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	
																SPEED	DIRECTION	SPEED	DIRECTION					
01	91	65	78	0	62	0	13		0	0.00	0.0	29.730	21	1.1	4.0	16	SW	10	23	470	56	6	5	
02	99*	67	83	5	63	0	18		0	0.00	0.0	29.690	22	7.3	8.9	28	W	20	22	625	74	6	4	
03	91	72	82	4	69	0	17	3	8	0	0.00	29.820	18	5.1	7.8	21	SE	12	19	419	50	9	9	
04	94	71	83	5	65	0	18		8	0	0	29.860	24	4.8	7.6	25	W	13	24	511	61	10	10	
05	86	68	77	-1	63	0	12	1	8	0	0.06	29.880	08	1.6	4.4			7	13	373	45	8	8	
06	76	65	71*	-7	68	0	6	1	3	0	1.82	29.735	31	2.8	9.5	36	NW	21	23	33	4	10	10	
07	84	62	73	-5	62	0	8	1	8	0	0.00	29.900	27	0.6	6.4	13	NW	10	32	604	72	5	4	
08	85	61*	73	-5	64	0	8	1	3	8	0	0.24	30.030	14	2.0	5.3	24	E	20	09	392	47	7	7
09	86	65	76	-2	65	0	11	1	8	0	0.00	30.080	10	5.0	5.8	16	SE	14	11	596	72	4	4	
10	85	62	74	-4	63	0	9	1	8	0	0.00	30.050	12	5.0	5.8	15	SE	14	13	622	75	8	7	
11	86	65	76	-2	64	0	11	1	8	0	0.00	29.980	14	5.1	5.8	14	SE	14	11	521	63	8	8	
12	88	65	77	-1	68	0	12	1	3	8	0	0.43	29.875	14	3.5	5.6	17	NE	12	07	386	47	6	5
13	86	68	77	0	70	0	12	1	3	8	0	0.93	29.800	18	2.7	4.8	30	NE	18	04	124	15	10	9
14	91	66	79	2	67	0	14	1	8	0	0.00	29.820	07	1.2	3.6	12	SE	10	03	583	71	2	3	
15	91	67	79	2	67	0	14	1	8	0	0.00	29.830	05	2.3	4.8	16	N	10	02	705	86	3	2	
16	93	69	81	4	69	0	16	1	8	0	0.00	29.810	17	6.1	6.7	16	S	13	18	658	81	6	6	
17	88	73	81	4	71	0	16	1	8	0	0.02	29.730	22	5.7	8.1	20	NW	15	30	325	40	10	9	
18	86	69	78	1	69	0	13	1	8	0	0	29.780	36	7.2	7.7	17	N	16	36	230	28	8	7	
19	88	68	78	1	67	0	13	1	8	0	0.00	29.870	06	4.8	6.9	14	NE	9	05	575	71	4	3	
20	94	68	81	5	70	0	16	1	3	8	0	0.39	29.735	20	9.5	10.2	46	W	29	26	519	64	6	6
21	86	69	78	2	67	0	13	1	8	0	0.00	29.770	36	6.5	8.5	21	N	16	36	639	79	5	4	
22	84	64	74	-2	62	0	9		8	0	0.00	29.910	06	5.7	7.0	15	E	12	07	644	80	1	1	
23	89	64	77	1	64	0	12	1	8	0	0.00	29.910	15	5.9	6.7	17	SE	13	15	623	78	1	1	
24	92	66	79	3	63	0	14		8	0	0.00	29.920	17	8.7	9.3	16	SE	14	19	760	95	2	3	
25	92	68	80	4	68	0	15	1	8	0	0.00	29.945	13	1.4	5.7	12	SW	9	20	510	64	7	5	
26	94	71	83	8	70	0	18	1	8	0	0.00	29.970	11	3.8	5.5	15	E	10	07		4	6	3	
27	95	70	83	8	70	0	18	1	8	0	0	29.900	18	6.4	7.0	16	S	14	15		1	1	3	
28	98	71	85*	10	70	0	20	1	8	0	0.00	29.810	21	7.1	7.8	17	SW	12	22		1	3	3	
29	94	74	84	9	71	0	19	1	8	0	0.00	29.830	04	5.2	7.2	16	N	13	06		0	1	1	
30	93	70	82	7	68	0	17	2	8	0	0.00	29.880	08	6.0	6.9	17	E	12	07		3	3	3	
31	89	69	79	4	71	0	14	1	8	0	0.00	29.800	04	5.5	7.1	16	E	12	05		7	6	6	
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:					TOTAL	%	SUM	SUM				
2774	2092					0	426	PRECIPITATION		3.89	0.0	29.860	15	1.7	6.7	46	W	29	26		168	162		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	0	60	≥ .01 INCH.		-0.51								DATE: 20	DATE: 20	POSSIBLE	MONTH	AVG.		
89.5	67.5	78.5	1.7	66.7		0	60	7													5.4	5.2		
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS	GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF											
						TOTAL	TOTAL	≥ 1.0 INCH					SNOW, ICE PELLETS OR ICE AND DATE											
MAXIMUM TEMP.		MINIMUM TEMP.		DEP.		HEAVY FOG		THUNDERSTORMS	PRECIPITATION		SNOW, ICE PELLETS													
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	1	1.82	06	1	1.82	06	0.0	0											
15	0	0	0	0	0	265	CLEAR	9	PARTLY CLOUDY	13	CLOUDY	9												

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
 † TRACE AMOUNT.
 + ALSO ON EARLIER DATE(S).
 HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
 BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. COLS 16 & 17: PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED. ONE OF TWO WIND SPEEDS IS GIVEN UNDER COLS 18 & 19: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). ERRORS WILL BE CORRECTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Walden
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1993 RICHMOND, VA 13740

HOUR L.S.T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND			VISI-BILITY	WEATHER	TEMPERATURE				WIND																																															
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF			WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																									
AUG 19th																						AUG 20th																						AUG 21st																					
01	0	UNL	6	F	70	69	68	93	03	7	2	UNL	7		69	67	65	87	17	7	7	UNL	6	F	74	72	71	90	24	5																																			
04	0	UNL	4	F	68	67	67	97	01	7	2	UNL	8		69	67	65	87	17	8	6	UNL	5	F	72	71	71	97	32	5																																			
07	6	UNL	5	F	70	69	68	93	04	7	4	UNL	6	F	72	69	68	87	20	10	7	95	5	F	75	70	68	79	31	6																																			
10	5	UNL	7	F	80	72	68	67	03	7	9	UNL	6	H	84	76	72	67	21	10	4	UNL	6	H	81	72	68	65	01	13																																			
13	6	39	7		83	72	66	57	34	6	7	130	6	H	92	77	71	50	21	14	9	200	7		82	71	65	57	36	7																																			
16	3	UNL	8		87	73	66	50	08	4	10	UNL	6	H	92	76	69	47	20	10	2	UNL	8		86	71	64	48	02	7																																			
19	2	UNL	7		78	71	68	72	11	6	10	130	6	H	86	75	70	59	20	8	0	UNL	7		78	70	66	67	03	5																																			
22	0	UNL	7		71	68	66	84	15	6	10	130	4	FH	77	76	76	97	25	8	0	UNL	7		71	67	65	81	08	4																																			
AUG 22nd																						AUG 23rd																						AUG 24th																					
01	0	UNL	7		69	67	65	87	03	5	1	UNL	8		66	64	63	90	00	0	3	UNL	7		69	65	62	79	17	9																																			
04	0	UNL	8		65	63	62	90	04	3	7	60	7		65	64	63	93	00	0	4	UNL	7		67	64	62	84	18	6																																			
07	0	UNL	7		67	64	62	84	01	6	6	65	6	F	69	67	66	90	25	6	3	UNL	7		69	65	63	81	18	6																																			
10	0	UNL	8		78	58	62	58	09	4	0	UNL	6	H	80	71	67	65	16	7	0	UNL	7		81	70	64	56	19	11																																			
13	2	UNL	10		83	69	61	48	03	7	1	UNL	7		85	72	65	51	14	8	0	UNL	7		89	74	66	47	18	10																																			
16	4	UNL	10		84	69	61	46	10	6	2	UNL	7		88	72	64	45	18	6	3	UNL	7		91	73	63	39	15	8																																			
19	0	UNL	8		76	68	64	67	07	5	0	UNL	7		79	70	65	62	12	10	7	UNL	7		81	70	64	56	13	7																																			
22	0	UNL	8		68	64	62	81	10	5	0	UNL	7		72	66	62	71	15	11	0	UNL	7		74	67	62	66	16	8																																			
AUG 25th																						AUG 26th																						AUG 27th																					
01	0	UNL	7		71	66	63	76	17	7	3	UNL	6	H	76	72	70	82	12	4	8	250	5	H	74	71	70	87	19	6																																			
04	0	UNL	7		70	65	62	76	18	5	7	250	6	H	73	70	69	87	00	0	6	UNL	4		72	71	70	94	17	4																																			
07	5	UNL	7		72	66	63	73	18	5	7	UNL	5	FH	74	71	70	87	14	4	0	UNL	2	FH	73	72	71	94	18	6																																			
10	10	140	7		82	73	68	63	25	5	7	UNL	5	H	86	76	71	61	08	5	0	UNL	3		85	75	70	61	22	5																																			
13	10	140	5	H	89	76	70	54	36	5	1	UNL	5	H	92	77	71	50	08	6	1	UNL	5	H	93	77	70	47	17	7																																			
16	7	300	5	H	90	77	71	54	03	5	4	UNL	6	H	93	75	66	41	07	9	4	UNL	5	H	94	76	68	43	18	8																																			
19	10	160	5	H	85	77	73	67	07	4	7	UNL	5	H	85	77	73	67	14	7	6	70	5	H	84	74	69	61	15	12																																			
22	3	UNL	5	H	80	76	74	82	08	3	9	UNL	5	H	78	73	71	79	17	4	0	UNL	6	H	77	72	70	79	17	6																																			
AUG 28th																						AUG 29th																						AUG 30th																					
01	0	UNL	6	H	73	70	69	87	20	5	6	UNL	5	H	82	74	70	67	25	6	0	UNL	5	F	74	73	72	94	17	4																																			
04	0	UNL	6	H	71	69	68	90	18	6	1	UNL	5	FH	74	72	71	90	14	3	0	UNL	4	F	73	73	73	100	02	3																																			
07	0	UNL	3	FH	74	71	69	85	18	7	0	UNL	2	H	78	73	71	79	36	7	10	1	0	F	73	73	73	100	04	8																																			
10	0	UNL	5	H	86	75	70	59	27	9	0	UNL	3	H	87	77	72	61	36	5	0	UNL	3	FH	83	75	71	67	07	4																																			
13	0	UNL	3	H	95	77	70	44	23	5	0	UNL	5	H	93	78	71	49	07	10	0	UNL	5	H	91	76	69	49	09	6																																			
16	4	UNL	3	H	97	78	70	42	19	9	0	UNL	5	H	93	77	70	47	04	8	0	UNL	6	H	92	74	66	42	10	9																																			
19	6	UNL	3	H	86	76	71	61	20	9	2	UNL	6	H	84	74	70	63	06	8	3	UNL	7	H	82	70	64	55	08	9																																			
22	10	UNL	5	H	84	75	71	65	23	8	2	UNL	7	H	77	71	68	74	11	5	2	UNL	7		74	68	64	71	06	5																																			
AUG 31st																																																																	
01	10	11	7		73	67	64	74	09	5																																																							
04	9	3	7		71	68	67	87	36	5																																																							
07	6	UNL	2	F	70	69	68	93	36	5																																																							
10	7	UNL	5	H	83	75	72	70	06	6																																																							
13	9	250	6	H	87	77	72	61	07	6																																																							
16	10	180	7		87	77	73	63	06	10																																																							
19	7	250	7		81	76	73	77	03	5																																																							
22	6	250	7		77	74	73	88	35	6																																																							

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	4	29.860	71	68	66	85	5.3	17	2.4
04	4	29.860	69	67	66	91	4.6	18	0.9
07	5	29.880	72	69	67	87	6.2	19	0.9
10	5	29.890	82	72	67	63	7.6	21	0.5
13	6	29.860	87	73	66	52	7.0	15	1.3
16	6	29.820	87	73	66	50	8.5	13	2.5
19	6	29.830	80	72	67	67	8.0	13	4.0
22	5	29.860	74	70	67	80	6.5	17	3.1

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SW SNOW SHOWERS
- SG SNOW GRAINS
- SP SNOW PELLETS
- IC ICE CRYSTALS
- IP ICE PELLETS
- IPW ICE PELLET SHOWERS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- D DUST

CEILING: UNL INDICATES UNLIMITED
 WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM.
 SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

