

APR 1993
 RICHMOND, VA
 NOAA-NATIONAL WEATHER SERVICE
 RIC INTL APT/EXECUTIVE TERMINAL

ISSN 0198-537X



INQUIRIES/COMMENTS CALL
 (704) 271-4800

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

R.E. BYRD INTERNATIONAL AP.

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

APR 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 H.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)			
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW 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	DIRECTION	FASTEST 1-MIN	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
01	79	54	67	14	55	0	2	1 3	0	0.35	0.0	29.375	20	9.2	11.8	28	S	20	20	464	61	7	6
02	68	47	58	5	48	7	0	1	0	0.25	0.0	29.510	30	4.1	8.4	21	NW	16	36	311	41	9	9
03	59	43	51	-3	32	14	0	0	0	0.0	0.0	29.900	33	7.8	10.0	22	W	16	27	528	69	5	5
04	58	34	46	-8	31	19	0	0	0	0.00	0.0	30.030	04	3.3	5.3	21	NE	10	10	625	82	7	6
05	45	38	42*	-12	37	23	0	1 4	0	0.43	T	29.980	04	9.0	9.5	21	N	17	01	0	0	10	10
06	50	39	45	-10	36	20	0	1	0	0.21	T	29.930	02	13.2	13.5	29	N	22	01	129	17	10	10
07	62	39	51	-4	33	14	0	0	0	0.00	0.0	30.000	01	8.5	9.2	23	N	15	35	735	95	0	2
08	68	36	52	-3	28	13	0	0	0	0.00	0.0	29.950	04	3.3	6.3	18	NE	12	06	703	91	4	2
09	64	40	52	-3	47	13	0	1	0	0.00	0.0	29.750	12	6.2	6.9	20	SE	14	12	233	30	10	8
10	60	48	54	-2	51	11	0	1	0	0.83	0.0	29.390	29	4.3	10.8	35	NW	20	31	28	4	10	9
11	69	37	53	-3	37	12	0	0	0	0.02	0.0	29.620	28	4.7	8.3	23	W	15	29	708	91	4	4
12	69	40	55	-1	39	10	0	0	0	0.00	0.0	29.645	32	9.0	10.6	26	NW	21	34	521	67	5	3
13	66	44	55	-2	38	10	0	0	0	0.00	0.0	29.790	35	5.7	8.5	26	NW	17	34	700	89	5	4
14	76	45	61	4	48	4	0	0	0	0.00	0.0	29.780	16	8.4	8.9	23	S	16	17	526	67	8	7
15	82	58	70	13	58	0	5	1	0	0.00	0.0	29.745	18	14.6	14.9	35	S	22	17	523	66	8	8
16	69	59	64	7	60	1	0	1	0	0.58	0.0	29.550	16	15.8	16.3	36	SE	24	15	151	19	9	8
17	62	45	54	-4	35	11	0	0	0	0.00	0.0	29.680	28	10.0	11.1	23	W	16	30	611	77	4	3
18	68	34*	51	-7	33	14	0	0	0	0.00	0.0	29.880	26	2.7	5.7	22	W	14	30	715	90	3	2
19	75	44	60	2	39	5	0	0	0	0.00	0.0	29.880	20	12.4	13.0	32	SW	18	18	721	90	6	4
20	79	53	66	8	50	0	1	0	0	0.00	0.0	29.810	20	14.9	15.5	32	SW	22	22	667	83	9	8
21	71	50	61	2	54	4	0	1	0	0.15	0.0	29.620	19	4.9	10.8	30	SE	17	17	319	40	10	9
22	54	42	48	-11	34	17	0	0	0	0.04	0.0	29.520	31	13.1	14.0	32	NW	18	30	192	24	9	8
23	66	42	54	-6	25	11	0	0	0	0.00	0.0	29.720	28	10.0	11.6	36	NW	24	30	729	90	1	1
24	78	35	57	-3	39	8	0	0	0	0.00	0.0	29.920	18	8.5	9.0	26	S	17	18	645	80	8	7
25	83*	58	71*	11	51	0	6	0	0	0.00	0.0	29.890	19	17.3	18.0	32	SW	25	21	695	85	8	9
26	71	49	60	-1	54	5	0	1	0	0.37	0.0	29.765	25	5.4	17.3	36	NW	25	35	224	27	10	9
27	63	42	53	-8	34	12	0	0	0	0.00	0.0	30.060	36	12.2	12.9	33	N	23	35	675	83	2	3
28	70	35	53	-8	35	12	0	0	0	0.00	0.0	30.140	07	3.3	4.7	15	N	9	10	729	89	2	2
29	77	39	58	-3	40	7	0	0	0	0.00	0.0	29.995	15	2.1	3.5	13	SE	10	12	766	93	1	1
30	78	46	62	1	42	3	0	0	0	0.00	0.0	29.900	15	6.6	7.4	15	SE	12	17	690	84	10	7
SUM	SUM				TOTAL	TOTAL		NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
2039	1315				280	14				3.23	1	29.790	23	1.8	10.5	36	NW	25	35	15263	100	194	174
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.							DATE: 26+	DATE: 26+	POSSIBLE	MONTH	AVG.	AVG.	
68.0	43.8	55.9	-1.4	41.3	54	4		≥ .01 INCH.	10	0.27									23732	64	6.5	5.8	
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.		3824		14		THUNDERSTORMS		1		PRECIPITATION		SNOW, ICE PELLETS									
≥ 90°		≤ 32°		≤ 32°		≤ 0°		HEAVY FOG		0		0.83		10		trace		06+					
0		0		0		0		-71		4		CLEAR		6		PARTLY CLOUDY		9		CLOUDY		15	

* 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. Haden
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1993
RICHMOND, VA

13740

HOUR L.S.T.	VISI-BILITY				TEMPERATURE				WIND				VISI-BILITY				TEMPERATURE				WIND																											
	SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																
	APR 1st																APR 2nd																APR 3rd															
01	10	14	2		TRWF	55	55	54	97	13	5	1	UNL	8		57	52	48	72	21	7	10	31	8			47	44	41	80	36	8																
04	10	5	5		F	59	59	59	100	16	8	8	100	8		54	52	50	86	17	3	10	38	8			45	41	35	68	35	9																
07	10	7	2		F	60	59	59	97	18	7	8	200	10		54	52	50	86	18	6	10	55	10			44	39	32	63	32	8																
10	8	28	5		F	66	64	63	90	23	5	8	UNL	10		64	55	47	54	30	8	7	44	10			49	42	32	52	30	12																
13	5	UNL	7			76	66	60	58	24	10	10	65	10		66	52	38	36	30	6	5	UNL	10			53	43	30	42	28	12																
16	5	UNL	8			79	64	54	42	20	14	10	70	10		61	55	49	65	36	11	4	UNL	12			58	45	28	32	29	10																
19	1	UNL	8			73	57	43	34	23	16	10	31	5	RF	53	52	51	93	29	7	0	UNL	12			51	42	31	47	34	7																
22	0	UNL	8			66	55	45	47	25	13	10	41	6	RF	50	49	47	90	33	9	0	UNL	10			47	40	29	50	02	8																
	APR 4th																APR 5th																APR 6th															
01	0	UNL	10			31	36	28	60	03	5	10	75	10		44	41	36	74	04	4	10	39	4	RF	39	39	38	96	02	13																	
04	0	UNL	10			47	34	29	73	03	3	10	150	10		43	42	40	89	06	5	10	55	4	RF	40	39	38	93	01	11																	
07	4	UNL	10			38	36	34	86	00	0	10	65	8		43	41	38	83	05	7	10	7	5	RF	42	42	41	86	02	12																	
10	6	150	10			48	40	29	48	34	6	10	80	8		44	40	34	68	05	9	10	11	7			45	43	41	96	01	14																
13	8	UNL	12			54	44	30	40	00	0	10	22	6	R	43	40	37	80	05	9	10	25	7	R	48	45	41	77	01	19																	
16	9	250	12			58	46	30	35	01	5	10	20	5	RF	41	40	39	93	06	11	10	43	7			50	42	30	46	04	14																
19	10	UNL	10			53	44	34	49	05	6	10	9	2	RIPF	38	38	37	96	03	8	10	47	10			48	40	29	48	01	8																
22	10	250	10			46	41	34	63	08	6	10	5	4	RF	39	39	39	100	02	12	10	85	10			47	40	31	54	35	6																
	APR 7th																APR 8th																APR 9th															
01	10	90	10			46	39	28	50	02	9	0	UNL	10		43	37	27	53	35	4	0	UNL	10			44	40	34	68	00	0																
04	3	UNL	10			42	35	25	51	36	9	0	UNL	10		39	37	34	82	32	4	6	UNL	10			42	39	35	76	00	0																
07	0	UNL	10			41	36	27	58	35	12	8	UNL	10		41	38	33	73	33	5	10	29	8			46	43	39	77	05	5																
10	0	UNL	10			52	44	34	51	36	11	6	UNL	10		56	43	35	30	03	10	10	5	6		F	53	51	49	86	06	4																
13	2	UNL	10			60	48	35	39	02	10	2	UNL	10		64	47	26	24	32	6	10	11	6			56	53	51	83	13	7																
16	1	UNL	10			61	49	36	40	05	8	1	UNL	10		66	48	25	21	10	3	10	140	7			62	57	52	70	14	8																
19	0	UNL	10			56	47	36	47	04	4	1	UNL	10		57	44	27	32	11	7	10	55	7			58	56	55	90	12	11																
22	10	UNL	10			49	44	38	66	05	4	0	UNL	10		49	41	31	50	11	5	6	5	7			55	54	53	93	11	8																
	APR 10th																APR 11th																APR 12th															
01	10	2	5		F	55	55	54	97	11	10	0	UNL	8		47	43	37	68	32	8	0	UNL	10			52	45	36	55	08	3																
04	10	4	5		RF	56	55	55	97	03	4	8	130	8		42	40	38	86	29	5	0	UNL	10			45	43	40	83	00	0																
07	10	4	1	12	RF	57	56	56	97	04	12	0	UNL	8		46	41	35	66	25	5	2	UNL	10			48	44	40	74	32	5																
10	10	23	8			58	56	55	90	24	12	2	UNL	10		58	47	35	42	28	13	4	UNL	10			61	52	43	52	25	5																
13	10	25	4		RF	57	56	55	93	23	12	7	UNL	10		64	50	35	34	27	11	8	80	10			64	51	38	38	33	14																
16	10	55	6		RF	56	54	53	90	31	12	7	UNL	10		68	52	34	29	26	8	10	100	10			63	51	39	41	33	17																
19	10	75	7			54	49	43	67	31	11	0	UNL	10		61	51	41	48	16	5	0	UNL	10			58	49	39	49	32	13																
22	10	90	7			53	46	39	59	28	9	8	UNL	10		55	48	40	57	11	6	0	UNL	10			53	46	39	59	32	10																
	APR 13th																APR 14th																APR 15th															
01	0	UNL	10			50	44	37	61	31	12	1	UNL	10		46	44	42	86	13	3	0	UNL	7			63	59	56	78	18	13																
04	1	UNL	10			46	41	35	66	34	8	10	90	8		48	47	45	89	12	4	10	20	7			62	60	59	90	18	6																
07	10	UNL	10			47	41	33	58	35	14	6	80	7		52	50	47	83	00	0	10	24	6	F		62	60	59	90	18	8																
10	2	UNL	10			53	45	36	53	01	12	6	95	7		64	55	47	54	18	8	10	UNL	7			74	66	61	64	17	13																
13	6	UNL	10			61	50	39	44	36	8	5	UNL	7		74	59	46	37	17	10	4	UNL	7			79	66	57	47	18	19																
16	7	UNL	10			65	52	38	37	25	3	10	UNL	8		75	60	49	40	17	11	10	UNL	7			80	65	56	44	18	17																
19	3	UNL	10			59	50	41	52	14	4	9	UNL	7		68	58	50	53	14	8	10	200	8			75	63	54	48	15	14																
22	0	UNL	10			51	47	42	72	07	4	8	UNL	7		65	58	52	63	16	10	7	150	8			69	62	58	68	17	13																
	APR 16th																APR 17th																APR 18th															
01	10	29	8			68	63	60	76	16	15	0	UNL	12		58	49	40	51	23	8	0	UNL	12			42	39	34	73	32	6																
04	10	24	8			67	63	60	78	15	15	0	UNL	12		53	46	38	57	28	12	0	UNL	10			36	35	34	93	00	0																
07	8	120	8			67	63	60	78	14	19	0	UNL	15		51	45	37	59	26	9	9	UNL	7			44	41	38	80	19	6																
10	10	27	2			66	64	63	90	16	18	0	UNL	15		59	47	34	39	30	10	1	UNL	10			57	46	32	39	30	12																
13	10	17	5		RW	65	64	63	93	18	13	8	65	12		62	49	34	35	27	10	0	UNL	12			64	49	33	32	32	9																
16	10	12	12		RWF	67	65	63	87	16</																																						

OBSERVATIONS AT 3-HOUR INTERVALS

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RICHMOND, VA

13740

HOUR L.S.T.	VISI-BILITY				TEMPERATURE				WIND				VISI-BILITY				TEMPERATURE				WIND												
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	
APR 19th																																	
01	3	UNL	10		47	43	37	68	16	5	7	UNL	10			59	51	44	58	19	15	3	UNL	8				62	55	49	63	17	14
04	0	UNL	10		45	42	38	77	19	8	4	UNL	10			54	50	46	75	19	10	7	UNL	8				60	56	52	75	18	13
07	6	UNL	8		50	45	40	69	19	9	7	250	12			57	52	48	72	20	12	10	UNL	8			61	57	53	75	18	11	
10	2	UNL	10		68	54	40	36	19	12	10	UNL	12			69	58	50	51	20	16	10	33	10			69	60	54	59	11	5	
13	3	UNL	15		73	55	37	27	22	15	10	UNL	10			76	62	52	43	21	16	10	70	8		RW	67	61	57	70	19	7	
16	10	UNL	15		73	54	36	26	20	12	9	UNL	10			79	63	52	39	22	17	10	90	7		R	65	61	59	81	08	7	
19	4	UNL	12		64	52	40	42	17	11	10	UNL	8			72	61	52	50	18	11	10	16	7		R	62	60	58	87	19	10	
22	6	250	12		62	51	40	45	18	12	4	UNL	8			67	58	51	57	18	12	10	8	2		RF	54	53	52	93	34	14	
APR 20th																																	
APR 21st																																	
APR 22nd																																	
APR 23rd																																	
APR 24th																																	
APR 25th																																	
APR 26th																																	
APR 27th																																	
APR 28th																																	
APR 29th																																	
APR 30th																																	

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).

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	4	29.790	50	46	41	71	9.5	19	0.8
04	5	29.790	48	45	41	79	8.0	23	1.0
07	7	29.820	50	46	42	75	9.6	24	1.4
10	6	29.820	59	51	42	56	12.2	26	3.0
13	7	29.790	64	53	42	48	12.5	25	4.8
16	8	29.740	66	54	42	46	11.8	24	2.1
19	6	29.765	60	51	41	53	10.8	17	1.9
22	5	29.800	54	48	41	64	9.9	17	0.9

