

APR 1990
RICHMOND, VA
NOAA-NATIONAL WEATHER SERVICE
RIC INTL APT/EXECUTIVE TERMINAL

ISSN 0198-537X

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

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 DEW POINT	HEATING (SEASON BEGINS WITH JUL 7A)	COOLING (SEASON BEGINS WITH JAN 7B)	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	60	50	55	2	52	10	0	1 3 8	0	0.15	0.0	29.780	16	5.2	6.7	28	S	21	18	145	19	10	10																																																						
02	70	50	60	7	55	5	0	23 5 8	0	0.75	1	29.630	14	4.2	8.5	35	N	21	36	249	33	9	9																																																						
03	58	44	51	-3	38	14	0		0	0	0	29.460	35	13.9	14.9	29	N	20	01	469	62	8	9																																																						
04	58	39	49	-5	31	16	0		0	0	0	29.400	27	11.6	12.7	33	W	18	28	539	71	7	6																																																						
05	69	43	56	2	35	9	0		0	0.00	0.0	29.590	25	7.8	9.4	28	W	20	26	708	92	0	2																																																						
06	59	39	49	-6	41	16	0	1	0	0.30	0.0	29.730	04	10.0	11.0	24	NE	18	01	235	31	10	10																																																						
07	51	33	42*	-13	29	23	0	1	0	0.25	0.2	29.890	33	9.5	10.1	26	NW	16	34	619	80	5	5																																																						
08	58	28*	43	-13	25	22	0	0	0	0.00	0.0	30.160	29	4.4	5.7	25	W	14	30	773	100	0	0																																																						
09	66	31	49	-7	32	16	0		0	0.00	0.0	30.260	19	8.5	8.8	24	S	16	19	664	86	4	4																																																						
10	71	50	61	5	52	4	0		0	0.00	0.0	29.890	20	18.2	18.5	41	N	29	21	288	37	9	7																																																						
11	64	43	54	-3	43	11	0		0	0.12	0.0	29.650	32	9.7	13.9	33	SW	25	20	295	38	8	7																																																						
12	57	35	46	-11	28	19	0		0	0.00	0.0	29.990	31	7.0	9.8	24	NW	18	31	677	86	3	3																																																						
13	59	31	45	-12	28	20	0		0	0.00	0.0	30.250	11	2.8	6.9	20	SE	12	13	717	91	4	3																																																						
14	68	40	54	-4	45	11	0		0	0.05	0.0	30.070	18	9.9	10.5	28	SW	18	22	396	50	9	9																																																						
15	71	53	62	4	55	3	0	1	0	0.54	0.0	29.780	21	4.3	6.7	23	SW	16	20	541	68	8	7																																																						
16	73	52	63	5	49	2	0	1	0	0.00	0.0	29.820	09	2.9	8.8	20	S	15	17	698	88	2	3																																																						
17	79	45	62	3	50	3	0	1	8	0.05	0.0	29.780	28	4.2	12.7	38	NW	25	24	498	63	9	7																																																						
18	57	35	46	-13	27	19	0		0	0.00	0.0	30.250	01	7.7	9.3	28	NE	17	01	739	93	3	2																																																						
19	63	33	48	-11	37	17	0		0	0.00	0.0	30.430	13	6.7	8.5	23	S	15	12	719	90	5	5																																																						
20	66	47	57	-2	48	8	0		0	0	0	30.250	20	9.1	9.3	20	S	16	19	103	13	10	10																																																						
21	71	54	63	3	58	2	0	1	0	0.11	0.0	29.890	24	7.5	11.0	30	SW	18	24	238	30	10	8																																																						
22	73	49	61	1	54	4	0	1	0	0.00	0.0	29.910	03	3.9	6.7	17	N	12	02	791	98	2	1																																																						
23	83	45	64	4	49	1	0	1	0	0.00	0.0	29.875	26	2.6	5.6	17	W	12	36	806	100	2	1																																																						
24	88	55	72	11	53	0	7		0	0.00	0.0	29.880	35	1.0	5.8	18	E	12	35	712	88	4	4																																																						
25	89	56	73	12	56	0	8	1	8	0.00	0.0	29.890	33	3.6	6.3	22	SW	10	36	540	67	5	4																																																						
26	94	61	78	17	58	0	13		8	0.00	0.0	29.805	33	3.4	5.7	20	N	14	36	722	89	1	1																																																						
27	96*	60	78*	17	59	0	13		8	0.00	0.0	29.780	18	4.2	5.7	18	SE	12	14	632	77	3	2																																																						
28	87	63	75	13	55	0	10		8	0	0	29.740	20	9.8	10.6	31	S	20	19	675	83	8	7																																																						
29	75	53	64	2	55	1	0	1	0	0.49	0.0	29.770	18	4.9	8.2	37	W	21	25	364	44	10	9																																																						
30	74	51	63	1	56	2	0	1	0	0.00	0.0	29.770	14	2.3	6.4	16	E	12	36	633	77	9	7																																																						
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:						TOTAL	%	SUM	SUM																																																								
2107	1368					258	51			2.81	0.2	29.880	24	1.9	9.2	41	N	29	21	16185	FOR	177	162																																																						
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.						DATE: 10	DATE: 10	POSSIBLE	MONTH	AVG.	AVG.																																																								
70.2	45.6	57.9	0.0	44.9	32	38		10		-0.09										23701	68	5.9	5.4																																																						
NUMBER OF DAYS						SEASON TO DATE	SNOW, ICE PELLETS	GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF																																																															
MAXIMUM TEMP.						MINIMUM TEMP.						3466						95						THUNDERSTORMS						2						PRECIPITATION						SNOW, ICE PELLETS																																			
≥ 90°						≤ 32°						≤ 32°						≤ 0°						DEP.						DEP.						HEAVY FOG						1						0.75						02-03						0.2						07						0					
2						0						3						0						-429						82						CLEAR						9						PARTLY CLOUDY						7						CLOUDY						14											

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T 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

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1990
RICHMOND, VA

13740

HOUR	L.S.T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND			SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND											
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF		NET BULB OF	DEW POINT OF	REL HUMIDITY %		DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)					
APR 1st																																	
01	10	2	1		LF	50	50	50	100	10	3	10	1	0	4	F	52	52	52	100	11	5	10	5	7			54	54	53	96	35	10
04	10	2	1		LF	50	50	50	100	12	3	10	1	0	2	F	51	51	51	100	05	3	9	17	7			51	50	49	93	03	13
07	10	3	1	8	F	50	50	50	100	14	3	10	1	0	6	LF	52	52	52	100	19	6	9	65	7			48	44	40	74	01	14
10	10	3	2		LF	52	52	51	96	16	6	10	2	0	12	F	56	55	54	93	19	7	8	50	7	RW		49	43	36	61	35	15
13	10	9	3		F	57	55	53	87	17	5	8	11	3		F	64	61	58	81	18	8	5	UNL	7			56	47	36	47	34	13
16	10	12	6		H	59	56	54	84	19	6	8	250	7			68	62	58	71	16	13	9	60	7			56	46	34	44	32	13
19	10	50	5		RH	56	54	53	90	16	6	10	30	3		TF	57	56	56	97	06	10	10	70	10			52	44	34	51	33	13
22	9	4	2		F	54	54	53	96	19	12	10	7	7			57	56	55	93	09	9	7	75	10			45	39	31	58	35	9
APR 2nd																																	
APR 3rd																																	
APR 4th																																	
APR 5th																																	
APR 6th																																	
APR 7th																																	
APR 8th																																	
APR 9th																																	
APR 10th																																	
APR 11th																																	
APR 12th																																	
APR 13th																																	
APR 14th																																	
APR 15th																																	
APR 16th																																	
APR 17th																																	
APR 18th																																	

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SN 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).

OBSERVATIONS AT 3-HOUR INTERVALS

APR 1990
RICHMOND, VA 13740

HOUR L.S.T.	SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE				WIND		WEATHER	SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE				WIND		WEATHER	SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE				WIND			
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)			CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)			CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES
APR 19th																															
01	0 UNL	10		37	35	32	82	00	0		10	250	8		48	44	39	71	19	6		2	UNL	8		60	56	53	78	20	9
04	0 UNL	8		35	34	32	89	00	0		10	120	8		48	45	41	77	20	6		2	UNL	8		58	55	53	84	21	9
07	2 UNL	7		40	38	36	86	36	4		10	95	8		50	47	44	80	20	6		8	150	8		62	58	54	75	24	13
10	4 UNL	10		56	47	36	47	10	9		10	75	8		58	52	47	67	19	14		10	200	8		69	63	58	68	24	16
13	3 UNL	10		63	53	44	50	17	11		10	75	8		63	56	50	63	19	11		10	45	3	RF	64	63	62	93	25	13
16	10 UNL	10		61	51	41	48	14	11		10	60	8		65	57	51	61	20	8		10	37	2	RF	64	63	62	93	28	6
19	10 UNL	10		55	45	32	42	14	12		10	60	8		60	55	51	72	17	6		10	100	2	8	62	62	62	100	34	6
22	8 UNL	10		50	45	38	64	13	8		10	100	8		61	56	51	70	18	10		8	85	7	8	60	59	58	93	35	8
APR 20th																															
APR 21st																															
APR 22nd																															
APR 23rd																															
APR 24th																															
APR 25th																															
APR 26th																															
APR 27th																															
APR 28th																															
APR 29th																															
APR 30th																															

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES						RESULTANT WIND	
		STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEN POINT OF				
01	4	29.880	51	48	44	79	6.4	20	1.6
04	4	29.870	49	47	44	84	6.5	23	1.0
07	5	29.910	51	48	45	81	7.1	25	1.9
10	5	29.920	61	53	46	59	11.3	26	3.5
13	6	29.880	67	56	46	50	11.5	25	5.5
16	7	29.835	68	56	45	49	12.0	27	4.9
19	6	29.850	61	52	44	57	9.5	13	2.1
22	5	29.885	55	50	45	70	9.0	14	3.4

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

APR 1990
RICHMOND, VA

13740

DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
01	T	T	T	T	T	T	T	T	T	T	T													01	
02																		0.01	0.04	0.05	0.06	T			02
03		T	T	T	T	T													0.16	0.08	0.48	0.02			03
04																									04
05																									05
06																									06
07	0.02	0.06	0.04	0.05	0.04	0.04																			07
08																									08
09																									09
10																									10
11	0.03	0.07	0.02																						11
12																									12
13																									13
14																									14
15		0.01	0.04	0.04	0.05	0.10	0.17	0.07	0.02	0.04															15
16																									16
17																									17
18																									18
19																									19
20						T	T																		20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29				T				0.04	0.12	0.12															29
30																									30

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.17	0.27	0.32	0.35	0.43	0.54	0.56	0.57	0.59	0.73	0.73	0.74
ENDED: DATE	02	02	02	02	02	02	02	02	02	02	02	02
ENDED: TIME	2006	2011	2016	2020	2028	2034	2034	2049	2016	2034	2049	2132

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

VALIDATED BY:
MATTHEW BODOSKY

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