

APR 1988  
 RICHMOND, VA  
 NAT'L WEA SER OFC  
 BOX A-63, RICHMOND INT'L AIRPORT

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

APR 1988  
 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 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	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT				
01	74	51	63	10	53	2	0	1	8	0	0.00	0.00	29.990	18	5.5	7.7	20	S	13	13	578	76	7	8	
02	81	56	69	16	55	0	4			0	0.00	0.00	29.990	18	5.5	7.7	20	S	13	13	578	76	7	8	
03	76	59	68	14	55	0	3			0	0.00	0.00	29.890	20	13.7	13.9	26	S	20	19	379	50	10	10	
04	79	59	69	15	61	0	4	1	3	0	0.70	0.00	29.680	21	11.1	12.2	24	W	16	21	581	76	9	9	
05	80	51	66	12	50	0	1			0	0.00	0.00	29.730	33	4.3	7.2	22	NW	16	34	766	100	1	1	
06	84*	53	69*	14	51	0	4	1		0	0.25	0.00	29.455	18	9.1	11.5	37	S	21	17	547	71	8	7	
07	56	46	51	-4	48	14	0	1		0	0.45	0.00	29.220	33	5.2	11.2	29	N	17	02	45	6	10	9	
08	53	46	50	-6	43	15	0	1		0	0.18	0.00	29.530	35	15.7	16.2	33	N	23	35	35	5	10	10	
09	62	43	53	-3	37	12	0	0		0	0.00	0.00	29.720	34	14.0	14.4	31	N	20	35	552	71	5	5	
10	68	41	55	-1	33	10	0	0		0	0.00	0.00	29.730	35	8.3	10.4	24	NW	15	36	778	100	3	1	
11	68	37	53	-4	36	12	0	0		0	0.00	0.00	29.690	05	5.3	8.4	21	E	16	09	714	92	4	3	
12	48	40	44*	-13	40	21	0	1		0	0.25	0.00	29.710	05	13.7	14.2	29	NE	20	05	0	0	10	9	
13	56	37	47	-10	33	18	0	1		0	0.01	0.00	29.700	03	15.3	15.6	35	NE	24	03	481	61	8	7	
14	61	32*	47	-11	36	18	0	0		0	0.00	0.00	29.800	14	4.5	9.5	20	SW	15	14	651	83	7	6	
15	78	44	61	3	39	4	0	0		0	0.00	0.00	29.640	25	5.6	11.7	37	N	22	36	687	87	4	5	
16	61	33	47	-11	26	18	0	0		0	0.00	0.00	29.800	32	5.1	9.2	28	SW	16	29	728	92	2	1	
17	71	33	52	-7	31	13	0	0		0	0.00	0.00	29.740	23	10.8	11.6	28	W	18	24	794	100	0	0	
18	71	51	61	2	50	4	0	1		0	0.10	0.00	29.330	23	10.6	14.5	39	SW	23	24	180	23	10	9	
19	53	37	45	-14	37	20	0	1		0	0.43	0.00	29.540	01	6.1	9.2	20	NE	14	36	150	19	9	8	
20	65	36	51	-8	29	14	0	0		0	0.00	0.00	29.660	25	8.2	10.2	24	W	17	26	740	92	0	3	
21	76	48	62	2	35	3	0	0		0	0.00	0.00	29.440	28	5.2	11.3	32	NW	18	29	758	94	4	5	
22	58	47	53	-7	34	12	0	0		0	0.00	0.00	29.690	28	1.0	6.2	15	W	10	28	203	25	10	10	
23	70	46	58	-2	49	7	0	1	3	0	0.00	0.00	29.650	16	6.1	8.0	22	S	15	16	438	54	9	9	
24	77	45	61	0	46	4	0	0	3	0	0.03	0.00	29.490	30	8.5	13.8	28	NW	18	35	748	92	2	3	
25	66	36	51	-10	33	14	0	0		0	0.00	0.00	29.740	29	4.3	6.7	20	NW	13	29	760	94	8	6	
26	72	40	56	-5	40	9	0	0		0	0.00	0.00	29.705	15	5.3	6.1	18	E	15	11	753	93	6	4	
27	77	43	60	-1	50	5	0	0	3	0	0.15	0.00	29.590	19	8.5	12.0	48	W	23	28	722	88	4	4	
28	61	45	53	-9	35	12	0	1		0	0.00	0.00	29.600	29	11.6	12.7	35	W	21	29	620	76	6	5	
29	63	42	53	-9	33	12	0	0		0	0.00	0.00	29.630	27	10.0	10.6	26	W	17	29	432	53	8	6	
30	69	49	59	-3	36	6	0	0		0	0.00	0.00	29.770	34	8.1	10.4	31	N	21	33	760	92	3	5	
SUM	SUM				TOTAL	TOTAL		NUMBER OF DAYS		TOTAL	TOTAL		FOR THE MONTH:					TOTAL	%	SUM	SUM				
2034	1326				279	16				2.55	T	29.665	28	2.3	10.8	48	W	24	03	16160	FOR	186	177		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.							DATE: 27	DATE: 13	POSSIBLE	MONTH	AVG.	AVG.			
67.8	44.2	56.0	-1.9	41.0	53	3		2.01 INCH.	10	-0.35										23701	68	6.2	5.9		
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.		4021		19		THUNDERSTORMS		4		PRECIPITATION		SNOW, ICE PELLETS											
> 90°		< 32°		< 32°		< 0°		DEP.		DEP.		HEAVY FOG		0			0								
0		0		1		0		126		6		CLEAR		7		PARTLY CLOUDY		9			CLOUDY			14	

\* 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

APR 1988  
RICHMOND, VA

13740

HOUR L.S.T.	SKY COVER (TENTHS)		VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)		VISI-BILITY		TEMPERATURE				WIND																																														
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																													
APR 1st																						APR 2nd																						APR 3rd																					
01	8	80	7		53	52	51	93	08	4	10	80	8		62	59	56	81	31	4	10	250	8		62	58	55	78	19	9																																			
04	10	6	6	F	52	51	50	93	11	5	10	70	7		59	57	55	87	19	5	10	250	7		61	57	54	78	20	9																																			
07	10	1	0	F	51	51	51	100	18	5	9	70	7		59	57	56	90	21	6	10	250	7		61	58	56	84	20	8																																			
10	8	8	1	F	59	56	54	84	21	4	4	UNL	8		72	63	57	59	31	5	10	200	7		68	62	58	71	20	12																																			
13	8	250	6	H	71	62	56	59	17	9	6	120	10		79	64	53	41	22	8	10	200	10		73	62	55	53	20	12																																			
16	10	200	10		73	61	53	50	21	13	7	250	10		79	62	50	36	18	11	10	200	10		75	62	53	46	22	16																																			
19	10	200	7		67	60	55	66	21	5	10	90	10		72	62	55	55	13	9	10	200	10		70	61	54	57	19	10																																			
22	10	100	7		63	59	55	75	20	5	10	250	10		62	59	57	84	11	5	10	90	10		69	60	54	59	19	16																																			
APR 4th																						APR 5th																						APR 6th																					
01	10	70	10		66	62	59	78	20	14	7	80	7		58	57	57	97	00	0	0	UNL	12		56	52	49	78	12	4																																			
04	10	21	7		65	63	61	87	19	13	0	UNL	10		55	53	52	90	34	6	0	UNL	10		55	51	48	77	14	6																																			
07	10	6	1	RWF	63	63	63	100	18	11	0	UNL	10		56	53	50	80	33	3	5	UNL	8		57	54	52	84	18	8																																			
10	10	13	7		66	64	62	87	21	10	0	UNL	12		68	57	48	49	34	14	6	UNL	8		71	61	53	53	17	9																																			
13	10	250	7		72	66	62	71	22	12	0	UNL	10		74	59	48	40	33	10	9	250	10		80	64	53	39	17	12																																			
16	9	250	7		78	66	59	52	22	6	2	UNL	10		78	60	45	31	33	8	10	35	10		81	62	47	30	21	18																																			
19	9	250	7	TRW	70	64	60	71	19	7	1	UNL	10		70	60	52	53	17	4	10	100	10		77	58	43	30	17	18																																			
22	10	35	7		67	63	61	81	29	8	0	UNL	10		61	55	49	65	17	4	10	19	7		62	60	58	87	26	5																																			
APR 7th																						APR 8th																						APR 9th																					
01	10	17	7	R	53	53	52	96	24	3	10	9	5	RF	46	46	45	96	36	14	8	50	10		46	40	31	56	35	14																																			
04	3	UNL	10		49	49	48	96	19	4	10	6	5	RF	47	46	45	93	01	16	8	50	10		46	40	31	56	35	17																																			
07	10	13	10		48	46	44	86	24	7	10	8	7		47	46	45	93	01	14	10	28	7		43	40	37	80	34	14																																			
10	10	11	7		52	49	47	83	25	6	10	40	8		51	49	47	86	01	10	4	UNL	10		51	44	36	57	02	13																																			
13	10	12	7		56	52	49	78	26	10	10	9	2	LF	50	49	48	93	34	10	5	UNL	10		58	49	39	49	34	10																																			
16	10	10	2	RWF	51	51	50	96	34	14	10	22	7		51	48	44	77	33	13	3	UNL	10		61	51	40	46	32	15																																			
19	10	7	2	RF	49	49	48	96	01	15	10	40	8		53	47	41	64	34	13	0	UNL	10		57	48	38	49	35	13																																			
22	10	9	3	RF	47	46	45	93	02	13	10	50	10		51	42	31	47	36	18	0	UNL	10		52	45	37	57	33	9																																			
APR 10th																						APR 11th																						APR 12th																					
01	0	UNL	10		48	43	37	66	31	8	0	UNL	10		43	41	38	83	24	4	0	UNL	10		45	42	39	80	09	9																																			
04	0	UNL	10		46	42	36	68	35	13	0	UNL	10		41	39	36	83	00	0	2	UNL	7		42	40	38	86	07	8																																			
07	0	UNL	10		45	41	35	68	35	5	1	UNL	7		45	42	39	80	01	4	10	13	8		43	41	39	86	05	11																																			
10	6	UNL	10		55	45	34	45	34	13	2	UNL	10		56	46	33	42	36	7	10	18	8		46	43	39	77	06	15																																			
13	5	UNL	10		63	48	31	30	35	9	3	UNL	10		64	50	34	33	04	11	10	19	7		48	44	40	74	08	17																																			
16	2	UNL	10		68	49	26	21	35	13	7	UNL	10		66	50	32	28	05	9	10	17	7		45	43	41	86	03	9																																			
19	0	UNL	10		59	46	29	32	05	6	7	UNL	10		58	48	36	44	09	14	10	9	3		43	43	42	96	04	11																																			
22	0	UNL	10		46	42	38	74	12	4	0	UNL	10		49	45	41	74	10	9	10	14	7		42	41	39	89	05	11																																			
APR 13th																						APR 14th																						APR 15th																					
01	10	13	7		40	39	37	89	02	11	0	UNL	10		35	33	31	85	36	5	7	250	10		46	45	43	89	14	7																																			
04	10	46	7		40	37	33	76	03	16	0	UNL	8		33	32	31	92	34	7	7	UNL	10		46	45	44	93	18	5																																			
07	8	75	8		41	37	32	70	02	16	4	UNL	10		35	34	33	92	36	5	4	UNL	10		49	48	46	90	18	6																																			
10	8	75	10		46	40	33	61	03	18	4	UNL	10		47	41	34	61	27	4	0	UNL	10		63	55	47	56	26	6																																			
13	7	80	10		51	43	34	52	03	18	6	UNL	10		58	49	39	49	15	11	0	UNL	10		75	55	35	23	22	13																																			
16	9	80	10		54	44	32	43	03	15	10	250	10		59	48	36	42	17	10	9	250	10		75	54	32	21	26	12																																			
19	7	UNL	10		49	41	31	50	05	10	10	250	10		53	47	40	62	12	12	8	100	10		69	54	40	35	23	17																																			
22	0	UNL	10		41	38	34	76	06	9	10	250	10		48	45	42	80	15	12	7	100	12		53	43	31	43	36	14																																			
APR 16th																						APR 17th																						APR 18th																					
01	0	UNL	12		45	39	31	58	01	10	0	UNL	10		37	34	29	73	22	7	0	UNL	10		53	45	36	53	19	9																																			
04	0	UNL	12		40	35	26	57	36	3	0	UNL	10		37	32	23	57	23	4	7	UNL	10		55	48	41	60	21	9																																			
07	2	UNL	10		40	37	33	76	00	0	0	UNL	10		42	38	31	65	22	7	10	250	10		58	50	42	56	20	9																																			
10	4	UNL	10		51	40	23	34	32	13	0	UNL	10		60	48	33	36	23	13	10	100	6		65	58	53	65	23	18																																			
13	4	UNL	10		57	43	24	28	28	10	0	UNL	10		66	50	31	27	25	13	10	100	7		62	60	58	87	21	15																																			
16	3	UNL	10		60	44	23	24	32	13	0	UNL	10		70	51	29	22	24	16	10	35	7		69	61	55	61	22	16																																			
19	0	UNL	10		53	42	26	35	03	8	0	UNL	10		63	48	31	30	21	12	10	40	8		66	61	57	73	25	9																																			
22	0	UNL	10		44	38	28	54	36	7	0	UNL	10		57	46	34	42	19	11	10	38	10		55	51	48	77	36	11																																			

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 1988  
RICHMOND, VA

13740

HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND													
	0-10	10-30	30-100	WHOLE MILES	16THS MILE	AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	0-10	10-30	30-100	WHOLE MILES	16THS MILE	WEATHER	AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)											
APR 19th																																		
01	10	30	7			52	48	44	74	03	8	0	UNL	7				40	37	33	76	28	5	4	UNL	10			52	45	37	57	20	7
04	10	33	7			48	41	31	52	03	12	0	UNL	10				37	34	30	76	27	8	1	UNL	10			50	45	40	69	21	9
07	10	33	3			43	41	38	83	04	8	0	UNL	10				41	37	30	65	25	7	9	UNL	10			54	48	42	64	23	10
10	10	30	2			41	40	38	89	02	10	0	UNL	15				53	40	20	27	31	10	0	UNL	10			69	55	42	38	28	14
13	10	7	2			38	38	37	96	05	6	0	UNL	15				60	45	26	27	29	13	2	UNL	15			76	55	34	22	30	14
16	8	10	7			42	40	38	86	03	6	0	UNL	15				64	47	26	24	26	15	4	UNL	15			74	52	28	18	33	11
19	3	UNL	6			42	40	37	83	24	7	9	UNL	15				55	44	31	40	19	8	5	UNL	15			62	47	28	28	05	6
22	1	UNL	7			41	40	38	89	29	6	8	UNL	80				54	45	34	47	18	9	10	250	15			55	44	31	40	06	5
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)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
AIR TEMP of	WET BULB of	DEW POINT of	REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION				
01	5	29.685	50	46	42	75	8.1	28	1.2
04	5	29.660	48	45	41	77	8.8	30	1.3
07	6	29.700	49	46	42	77	8.5	28	2.0
10	6	29.690	59	50	42	55	12.5	29	4.8
13	6	29.650	64	53	42	48	13.6	25	4.4
16	7	29.610	65	53	40	43	13.4	28	5.3
19	7	29.630	60	51	41	53	11.1	15	0.8
22	6	29.675	54	49	43	67	10.2	02	1.7

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

APR 1988  
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																								01		
02																								02		
03																								03		
04					T	0.10	0.25	0.11	T												T	0.24		04		
05																								05		
06																								06		
07	0.09	T																	T	T	0.01	0.16	0.08	06		
08	0.10	0.02	0.02	T	0.01	0.01	T							0.01	0.01	0.01	0.02	0.01	T	T	0.02	0.02	0.03	07		
09																								08		
10																								09		
11																								10		
12																								11		
13	T	T	0.01	T				T	T	T	T	T	T	T	0.05	0.11	0.05	0.02	0.01	T	T	T	0.01	12		
14																								13		
15																								14		
16																								15		
17																								16		
18																								17		
19																								18		
20					T	T	0.05	0.01	0.02	0.07	0.11	0.07	0.01	0.09	0.01	T			T	T	0.02	T	0.01	0.01	T	18
21																									19	
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MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.12	0.19	0.22	0.22	0.22	0.23	0.26	0.31	0.35	0.40	0.43	0.46
ENDED: DATE	04	04	04	04	04	04	04	04	04	04	04	04
ENDED: TIME	2205	2210	2211	2211	2211	2234	0659	0705	0729	0729	0749	0759

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:  
MINDY LANE

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