

JAN 1987
 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

JAN 1987
 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	FATEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT												
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23										
01	40	31	36	-1	33	29	0	1	0	1.21	0.0	29.770	02	12.3	13.0	37	N	26	03	0	0	10	10										
02	46	34	40	-3	30	25	0	1	0	0.02	0.0	29.590	27	12.7	14.0	31	W	21	26	207	36	9	7										
03	47	30	39	-2	22	26	0	0	0	0.00	0.0	29.910	28	9.4	11.4	26	NW	17	30	521	90	1	1										
04	45	24	35	-2	19	30	0	0	0	0.00	0.0	30.045	02	7.3	7.4	15	NE	12	01	534	92	7	5										
05	42	26	34	-3	15	31	0	0	0	0.00	0.0	30.080	01	10.8	11.0	21	N	14	01	580	100	1	1										
06	49	22	36	-1	22	29	0	0	0	0.00	0.0	30.010	22	2.1	6.4	16	S	12	21	513	88	5	5										
07	62	36	49	12	29	16	0	0	0	0.00	0.0	29.710	26	5.8	11.4	24	W	16	25	467	80	7	7										
08	47	26	37	0	24	28	0	0	0	0.00	0.0	29.910	34	4.6	6.0	17	NW	15	34	584	100	0	0										
09	46	22	34	-3	24	31	0	0	0	0.00	0.0	29.950	13	3.5	4.5	14	S	9	14	585	100	1	3										
10	40	34	37	0	36	28	0	1	0	0.22	0.0	29.580	33	1.9	6.0	14	N	9	29	0	0	10	10										
11	46	35	41	4	26	24	0	1	0	0.01	0.0	29.470	28	13.1	13.8	35	NW	26	30	469	80	6	6										
12	53	28	41	4	22	24	0	0	0	0.00	0.0	29.550	26	9.5	12.7	26	W	20	23	551	94	1	1										
13	53	23	38	-2	22	27	0	0	0	0.00	0.0	29.830	29	3.7	5.6	21	NW	14	31	552	94	1	1										
14	69*	26	48	12	28	17	0	0	0	0.00	0.0	29.850	21	8.8	9.8	22	SW	16	22	462	78	8	7										
15	62	46	54*	18	42	11	0	0	0	0.01	0.0	29.760	25	9.3	10.2	26	SW	16	23	246	42	8	8										
16	49	38	44	8	35	21	0	0	0	0.04	0.0	29.970	03	8.2	8.6	22	NE	14	03	96	16	10	10										
17	41	30	36	0	24	29	0	4	0	0.02	0.0	30.100	05	9.5	9.9	22	NE	16	03	436	73	7	8										
18	36	31	34	-2	33	31	0	1	6	0.80	0.0	29.810	34	6.8	8.5	17	N	16	36	0	0	10	10										
19	40	36	38	2	37	27	0	1	0	1.57	0.0	29.520	31	2.5	8.5	21	N	15	34	0	0	10	8										
20	45	31	38	2	30	27	0	0	0	0.00	0.0	29.840	35	0.2	6.6	18	N	13	36	476	79	9	8										
21	41	34	38	2	29	27	0	0	0	0.00	0.0	29.860	04	3.4	6.7	18	N	14	03	0	0	10	10										
22	35	29	32	-4	29	33	0	1	4	1.14	7.4	29.360	35	9.1	13.2	26	N	21	03	0	0	10	9										
23	31	17	24	-12	11	41	0	0	6	0.00	0.0	29.520	27	14.8	15.5	40	W	25	28	520	86	6	3										
24	37	7	22	-14	10	43	0	0	6	0.00	0.0	29.910	23	6.5	10.3	22	NE	17	25	571	94	4	4										
25	24	18	21	-16	12	44	0	1	4	0.32	5.0	29.920	04	11.1	11.8	30	NE	18	35	0	0	10	10										
26	26	18	22	-15	14	43	0	1	9	0.17	3.4	29.660	35	19.9	20.2	40	N	28	36	210	34	10	8										
27	27	7	17	-20	4	48	0	14	0	0.00	0.0	29.920	35	7.1	7.4	17	N	14	36	530	87	3	3										
28	35	-1*	17*	-20	6	48	0	1	8	0.00	0.0	29.940	31	0.6	1.5	9	W	6	33	596	97	3	2										
29	41	6	24	-13	14	41	0	1	8	0.00	0.0	30.040	20	3.0	5.7	17	S	14	17	521	85	8	7										
30	53	29	41	4	28	24	0	0	8	0.00	0.0	29.560	21	4.2	7.4	20	NW	12	15	485	79	9	9										
31	45	28	37	0	21	28	0	0	7	0.00	0.0	29.620	31	14.6	14.9	35	NW	22	31	398	64	8	6										
SUM		SUM		TOTAL		TOTAL		NUMBER OF DAYS		TOTAL		TOTAL		FOR THE MONTH:				TOTAL		SUM		SUM											
1353		801		931		0		5.53		15.8		29.790		32		3.9		9.7		40		28		36		11110		FOR		202		187	
AVG.		AVG.		AVG.		DEP.		AVG.		DEP.		DEP.		PRECIPITATION		DATE: 26+		DATE: 26		POSSIBLE MONTH		AVG.		AVG.									
43.6		25.8		34.7		-1.9		23.5		51		0		12		2.30		18439		60		6.5		6.0									
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF																			
TOTAL						TOTAL		≥ 0.1 INCH		3				SNOW, ICE PELLETS OR ICE AND DATE																			
MAXIMUM TEMP.						MINIMUM TEMP.		2360		THUNDERSTORMS				0																			
≥ 90°		≤ 32°		≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG		0		1.62		18-19		8.4		25-26		14		28+							
0		4		23		1		-26		0		CLEAR		8		PARTLY CLOUDY		7		CLOUDY		16											

* 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: FATEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FATEST 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. Wadsworth
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1987
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	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF		WET BULB OF	DEW POINT OF	REL HUMIDITY %		DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)			
JAN 1st																														
01	7	100	7		31	30	28	89	00	0	10	6	7		36	35	34	93	33	16	0	UNL	7		34	30	23	64	26	12
04	10	230	7		33	32	30	89	00	0	10	7	4	RF	37	37	36	96	30	13	2	UNL	7		32	28	20	61	25	11
07	10	200	7		33	32	29	85	04	6	10	21	6	LF	37	37	36	96	27	8	2	UNL	7		32	28	21	64	26	10
10	10	35	6	RF	36	34	32	85	02	8	9	30	10		38	36	34	86	25	9	2	UNL	8		40	33	22	49	28	12
13	10	6	6	8 RF	36	36	35	96	01	11	9	40	10		46	39	30	54	26	18	2	UNL	8		44	36	24	45	30	15
16	10	6	6	8 RF	37	37	36	96	03	19	10	46	10		43	36	25	49	28	16	0	UNL	12		46	37	23	40	26	13
19	10	8	8	8 RF	38	37	36	93	01	19	0	UNL	10		39	33	23	53	27	13	0	UNL	15		40	33	22	49	29	5
22	10	8	8	8 RF	39	39	38	96	36	15	2	UNL	10		36	31	23	59	25	12	0	UNL	15		31	28	23	72	36	4
JAN 2nd																														
JAN 3rd																														
JAN 4th																														
JAN 5th																														
JAN 6th																														
JAN 7th																														
JAN 8th																														
JAN 9th																														
JAN 10th																														
JAN 11th																														
JAN 12th																														
JAN 13th																														
JAN 14th																														
JAN 15th																														
JAN 16th																														
JAN 17th																														
JAN 18th																														

WEATHER CODES

- | | | | |
|---|--|---|---|
| <ul style="list-style-type: none"> * TORNADO T THUNDERSTORM Q SQUALL R RAIN RW RAIN SHOWERS ZR FREEZING RAIN L DRIZZLE | <ul style="list-style-type: none"> ZL FREEZING DRIZZLE S SNOW SW SNOW SHOWERS SG SNOW GRAINS SP SNOW PELLETS IC ICE CRYSTALS IP ICE PELLETS | <ul style="list-style-type: none"> IPW ICE PELLET SHOWERS A HAIL F FOG IF ICE FOG GF GROUND FOG BD BLOWING DUST | <ul style="list-style-type: none"> 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

JAN 1987
RICHMOND, VA 13740

HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET			VISI-BILITY	WEATHER	TEMPERATURE				WIND												
	01	04	07	WHOLE MILES	16THS MILE		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)								
JAN 19th																																			
01	10	3	1	8	RF	36	36	35	96	26	3	1	UNL	15				36	34	30	79	24	10	10	250	10				35	33	31	85	15	3
04	10	2	1	8	RF	37	37	36	96	14	6	7	UNL	15				33	32	29	85	23	7	10	250	10				35	34	32	89	18	3
07	10	3	1	8	RF	37	37	36	96	04	8	8	UNL	15				31	30	28	89	30	5	10	250	7				35	34	32	89	26	5
10	10	5	3	8	RF	38	38	38	100	06	7	7	UNL	15				39	35	30	70	02	9	10	100	7				36	34	32	85	01	11
13	10	5	1	8	RF	38	38	37	96	34	13	10	250	15				41	36	28	60	06	7	10	100	7				40	35	27	60	02	10
16	10	6	7			39	39	38	96	18	9	8	250	15				44	38	28	54	16	4	10	100	7				41	35	24	51	05	5
19	10	12	6			40	39	38	93	28	9	10	33	12				39	36	31	73	12	4	10	100	8				37	33	27	67	08	6
22	0	UNL	15			38	37	35	89	26	9	10	33	12				38	36	32	79	11	5	10	100	8				34	32	28	79	11	4
JAN 20th																																			
JAN 21st																																			
JAN 22nd																																			
JAN 23rd																																			
JAN 24th																																			
JAN 25th																																			
JAN 26th																																			
JAN 27th																																			
JAN 28th																																			
JAN 29th																																			
JAN 30th																																			
JAN 31st																																			

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES										RESULTANT WIND	
	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	WIND		
			AIR TEMP OF	WET BULB OF	DEW POINT OF					DIRECTION	SPEED (MPH)	
01	6	29.800	31	28	23	74	8.4	32	2.6			
04	5	29.800	30	27	23	78	8.5	30	2.8			
07	6	29.800	29	27	23	78	8.8	32	3.6			
10	7	29.830	35	31	25	68	11.0	33	4.2			
13	6	29.770	41	34	24	55	11.9	32	6.8			
16	6	29.750	42	35	23	52	11.8	31	5.8			
19	6	29.785	36	32	24	63	9.2	33	3.7			
22	6	29.800	33	30	24	70	8.5	33	2.9			

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JAN 1987
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	T	T	T	T	0.01	T	0.01	T		T	0.04	0.08	0.07	0.06	0.18	0.17	0.08	0.09	0.10	0.16	0.14	0.02	0.01	0.01	02
03																									03
04																									04
05																									05
06																									06
07																									07
08																									08
09																									09
10																									10
11		T	T	0.01	T	T	T	0.04	0.03	0.08	0.07	T													11
12																									12
13																									13
14																									14
15					T	T		T	T	T	0.01	T													15
16																									16
17	0.02	T																		T	T	0.01	0.02	0.01	17
18			T	0.05	0.06	0.14	0.10	0.09	0.06	0.08	0.09	0.07	0.01	T		T	0.01	T	T	T	T	0.01	0.03	18	
19	0.05	0.06	0.06	0.13	0.09	0.12	0.15	0.07	0.28	0.20	0.03	0.08	0.10	0.13	0.02				T					19	
20																									20
21																									21
22			T	T	0.06	0.07	0.08	0.10	0.17	0.13	0.15	0.19	0.10	0.06	0.01	0.01	T	T		0.01	T			22	
23																									23
24																									24
25																									25
26	T	T	0.04	0.01	0.01	0.03	0.03	0.03	T	T	T	T	0.01	0.01	T									26	
27																									27
28																									28
29																									29
30																									30
31																									31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.05	0.08	0.11	0.14	0.19	0.24	0.28	0.32	0.36	0.48	0.48	0.55
ENDED: DATE	22	19	19	19	19	19	19	19	19	19	19	19
ENDED: TIME	1145	0857	0900	0857	0915	0921	0859	0957	1000	0959	0959	0959

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:
DON GRISINGER

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