

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 1992
 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	DIRECTION	FASTEST 1-MIN	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	
01	47	35	41	4	33	24	0		0	0.00	0.0	30.335	02	7.1	7.7	15	N	12	36	412	71	10	10	
02	49	39	44	7	43	21	0	2	0	0.02	0.0	30.140	01	6.6	7.0	13	NE	10	03	118	20	10	10	
03	57	49	53	16	51	12	0	1	0	0.15	0.0	29.730	05	13.5	13.7	32	NE	20	03	165	28	10	10	
04	54	48	51	14	47	14	0	1	0	0.69	0.0	29.410	33	11.2	14.6	33	N	24	36	0	0	10	10	
05	53	40	47	10	41	18	0	1	0	T	0.0	29.635	35	14.4	14.8	30	N	22	34	145	25	9	9	
06	49	30	40	3	32	25	0	1	0	0.00	0.0	29.700	30	2.2	4.1	15	SW	9	34	419	72	9	7	
07	50	28	39	2	28	26	0	1	0	0.00	0.0	29.900	32	3.6	4.8	16	NW	12	02	582	100	0	0	
08	52	25	39	2	27	26	0	1	8	0.00	0.0	30.050	13	0.5	3.9	13	N	12	36	480	82	1	3	
09	54	38	46	9	44	19	0	1	0	0.15	0.0	29.780	19	7.8	8.6	17	S	13	18	19	3	10	9	
10	51	40	46	9	40	19	0	2	0	0.01	0.0	29.620	30	3.1	6.4	16	SW	12	29	216	37	10	8	
11	49	31	40	3	24	25	0		0	0.00	0.0	29.820	26	7.0	8.7	23	NW	15	25	543	93	1	1	
12	57	27	42	5	29	23	0		0	0.00	0.0	29.930	16	6.5	7.5	18	S	15	18	537	91	5	5	
13	57	49	53*	17	46	12	0	1	0	0.01	0.0	29.670	18	9.7	9.9	16	S	14	19	88	15	10	10	
14	66*	38	52	16	41	13	0	1	0	0.02	0.0	29.210	23	16.2	20.3	47	W	30	23	392	66	6	5	
15	39	24	32	-4	8	33	0		0	0.00	0.0	29.760	27	5.7	9.7	21	NW	17	28	592	100	0	1	
16	33	18	26	-10	-1	39	0		0	0.00	0.0	29.810	27	11.7	14.9	39	S	26	29	592	100	0	1	
17	51	18	35	-1	12	30	0		0	0.00	0.0	29.735	23	11.4	12.6	32	SW	20	24	460	77	3	6	
18	47	30	39	3	9	26	0		0	0.00	0.0	29.915	29	6.3	9.2	22	NE	14	01	494	83	8	8	
19	30	16	23*	-13	2	42	0		0	0.00	0.0	30.120	01	4.9	8.3	20	NW	14	03	496	83	4	5	
20	48	16*	32	-4	15	33	0		0	0.00	0.0	29.860	22	6.3	9.8	25	SW	18	23	420	70	4	3	
21	64	22	43	7	24	22	0		0	0.00	0.0	29.860	22	7.4	8.9	21	SW	16	23	544	91	1	0	
22	53	30	42	6	34	23	0	1	8	0.00	0.0	30.005	06	6.9	8.3	20	E	15	07	444	74	9	7	
23	63	33	48	12	44	17	0	1	0	0.52	0.0	29.480	20	5.0	10.9	37	S	24	17	40	7	10	9	
24	52	28	40	4	18	25	0		0	0.00	0.0	29.590	26	16.5	18.3	43	SW	29	23	536	89	4	2	
25	38	24	31	-6	13	34	0		0	0.00	0.0	30.000	22	3.5	7.7	16	SW	12	23	350	58	9	8	
26	43	23	33	-4	18	32	0		0	0.00	0.0	30.170	01	5.8	8.0	24	NE	15	03	566	93	2	2	
27	47	23	35	-2	24	30	0		0	0.00	0.0	30.285	17	4.9	5.6	21	S	16	17	322	53	10	9	
28	55	34	45	8	35	20	0	1	0	T	0.0	30.120	05	3.5	5.8	12	N	8	03	410	67	5	5	
29	51	28	40	3	30	25	0	1	8	0.00	0.0	30.070	24	0.1	4.6	9	SE	8	33	437	71	7	4	
30	56	31	44	7	35	21	0	1	9	0.00	0.0	29.780	18	3.8	5.3	13	SW	10	19	384	62	10	7	
31	56	34	45	8	31	20	0	1	8	0.00	0.0	29.530	31	6.0	8.1	21	N	16	35	399	65	8	6	
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL									TOTAL	%	SUM	SUM	
1571	949					749	0			1.57	0.0	29.840	27	2.4	9.3	47	W	30	23	11602	FOR	195	180	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.				DEP.										DATE: 14	DATE: 14	POSSIBLE	MONTH	AVG.
50.7	30.6	40.7	4.1	28.2	-1.31	0				-1.66												18439	63	6.3
NUMBER OF DAYS						SEASON TO DATE		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF												
						TOTAL	TOTAL	SNOW, ICE PELLETS				SNOW, ICE PELLETS OR ICE AND DATE												
						2059	0	THUNDERSTORMS				PRECIPITATION												
						0	0	HEAVY FOG				0												
						-327	0	CLEAR				PARTLY CLOUDY												
								7				CLOUDY												

* 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. Halpern
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1992
RICHMOND, VA 13740

HOUR	L.S.T.	VISI-BILITY				TEMPERATURE				WIND				SKY COVER (TENTHS)	VISI-BILITY				TEMPERATURE				WIND																																																																								
		CEILING IN HUNDREDS OF FEET		WHOLE MILES		AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET			WHOLE MILES		AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES		AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																															
		16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER		16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER	16THS MILE	WEATHER																																																															
JAN 1st																																JAN 2nd																																JAN 3rd																															
01	10	31	15			36	33	28	73	36	10			10	11	7			42	39	36	79	01	5			10	31	1			49	49	49	100	05	7																																																										
04	10	35	10			36	33	28	73	36	7			10	5	5			40	39	38	93	36	8			10	110	6			49	49	48	96	04	6																																																										
07	10	29	8			36	33	29	76	01	8			10	1	0	3		39	39	39	100	02	5			9	250	8			49	48	47	93	04	7																																																										
10	10	25	8			39	36	32	76	03	8			10	3	0	2		42	42	42	100	04	4			10	200	10			54	51	49	83	05	11																																																										
13	10	27	8			45	40	34	66	03	6			10	3	0	12		46	46	45	96	35	5			10	36	8			55	54	53	93	05	14																																																										
16	10	24	8			47	42	36	66	06	6			10	15	7			48	47	45	89	33	8			10	15	7			56	54	53	90	06	14																																																										
19	10	18	8			45	41	36	71	05	7			10	15	7			48	46	44	86	01	7			10	40	7			56	54	52	87	06	15																																																										
22	10	14	8			44	41	36	74	06	7			10	4	1	8		48	48	47	96	03	7			10	10	5			54	53	52	93	04	15																																																										
JAN 4th										JAN 5th										JAN 6th																																																																											
01	10	7	4		LF	54	53	52	93	04	15			10	5	2			48	47	46	93	36	18			10	UNL	7			40	37	32	73	34	8																																																										
04	10	5	4		RLF	50	50	49	96	34	15			10	7	3			47	46	45	93	01	10			8	UNL	7			38	35	31	76	32	5																																																										
07	10	2	8		LF	49	48	47	93	35	18			10	13	10			48	46	44	86	35	11			6	UNL	7			31	31	30	96	32	3																																																										
10	10	6	2		RLF	48	47	46	93	31	10			10	31	10			50	47	43	77	36	15			10	300	7			43	38	31	63	00	0																																																										
13	10	11	3		RLF	49	48	47	93	28	10			10	39	10			52	48	43	72	34	19			8	32	8			46	40	33	61	23	7																																																										
16	10	16	7			50	49	47	90	27	9			7	32	10			52	47	41	66	34	17			8	250	8			48	42	34	59	29	5																																																										
19	10	15	5		LF	49	48	46	90	28	9			2	UNL	10			45	41	37	74	36	11			2	UNL	8			38	36	34	86	16	3																																																										
22	10	4	6		LF	48	48	47	96	36	10			10	UNL	8			42	38	32	68	35	12			0	UNL	7			33	33	32	96	33	4																																																										
JAN 7th										JAN 8th										JAN 9th																																																																											
01	0	UNL	7			33	32	29	85	35	5			0	UNL	7			33	31	27	79	01	6			10	200	7			39	37	33	79	15	8																																																										
04	0	UNL	5		F	28	27	26	92	00	0			0	UNL	5			26	25	23	88	00	0			10	200	7			41	39	36	83	15	6																																																										
07	0	UNL	5		F	29	28	25	85	32	3			0	UNL	5			26	25	24	92	00	0			10	80	6			43	41	39	86	18	8																																																										
10	0	UNL	7			39	35	29	67	33	5			0	UNL	5			40	36	31	70	01	7			10	20	6			47	44	40	77	16	10																																																										
13	0	UNL	7			47	39	28	48	29	8			0	UNL	7			49	39	24	38	17	3			10	28	2			47	47	46	96	18	6																																																										
16	0	UNL	8			49	41	29	46	29	6			1	UNL	7			50	40	26	39	22	3			10	9	5			53	52	51	93	20	11																																																										
19	0	UNL	8			37	35	31	79	00	0			10	UNL	7			38	35	30	73	12	6			8	90	4			53	51	50	90	21	8																																																										
22	0	UNL	8			36	33	29	76	02	7			10	200	7			39	35	30	70	14	6			4	UNL	2			48	48	48	100	20	6																																																										
JAN 10th										JAN 11th										JAN 12th																																																																											
01	10	3	2		F	48	48	48	100	24	7			7	65	7			42	35	25	51	29	9			0	UNL	10			31	29	25	79	26	3																																																										
04	8	7	2		F	45	45	45	100	35	4			0	UNL	8			39	33	23	53	28	8			0	UNL	10			27	26	24	89	02	3																																																										
07	9	UNL	0		1	42	42	42	100	00	0			6	75	8			36	31	23	59	27	7			4	UNL	7			28	27	25	89	13	3																																																										
10	10	70	3		F	44	44	44	100	04	5			0	UNL	8			42	36	26	53	24	7			3	UNL	7			44	38	30	58	17	7																																																										
13	7	250	7			49	44	38	66	04	7			0	UNL	10			47	38	24	41	29	7			1	UNL	10			54	44	30	40	16	9																																																										
16	10	50	7			44	43	41	89	24	6			0	UNL	10			48	39	24	39	23	12			10	UNL	12			56	45	30	37	15	10																																																										
19	2	UNL	7			42	41	39	89	26	6			0	UNL	10			37	33	26	65	21	6			10	250	12			50	42	32	50	15	7																																																										
22	2	UNL	7			41	37	31	68	30	7			0	UNL	10			33	30	24	70	23	5			10	250	12			53	44	32	45	18	13																																																										
JAN 13th										JAN 14th										JAN 15th																																																																											
01	10	70	10			52	44	33	49	18	9			10	3	1	8		57	57	57	100	15	11			0	UNL	10			37	30	17	44	28	15																																																										
04	10	95	10			50	44	37	61	19	11			10	8	5			61	60	59	93	17	14			0	UNL	10			32	26	13	45	31	12																																																										
07	10	95	10			50	45	39	66	20	6			10	13	8			63	61	59	87	18	20			0	UNL	15			30	23	6	36	31	12																																																										
10	10	50	10			53	47	41	84	20	8			2	UNL	15			66	56	47	51	23	26			0	UNL	15			32	24	3	29	33	9																																																										
13	10	44	7			54	52	50	86	18	9			8	65	15			62	50	38	41	23	25			0	UNL	15			36	27	3	25	32	7																																																										
16	10	4	2		F	54	54	53	96	18	7			9	75	15			56	46	33	42	25	23			0	UNL	15			38	28	5	25	24	8																																																										
19	10	2	0		12	F	54	54	54	100	18	7			0	UNL	10			46	37	24	42	25	18			0	UNL	10			29	24	11	47	20	5																																																									
22	10	3	1		8	F	56	56	56	100	17	8			0	UNL	10			40	33	20	45	27	13			1	UNL	10			29	23	10	45	19	10																																																									
JAN 16th										JAN 17th										JAN 18th																																																																											
01	1	UNL	10			29	24	12	49	20	10			8	110	10			23	16	0	40	19	8			10	180	12			40	32	15	36	31	9																																																										
04	6	50	12			33	28	18	54	26	10			10	95	10			21	18	4	44	19	11			10	150	10			37	30	16	42	27	4																																																										
07	2	UNL	15			25	19	-3	29	30	14			8	110	10			28	21	4	36	21	10			9	250	10			34	27	11	38	27	6																																																										
10	0	UNL	15			25	18	-9	22	29	23			0	UNL	10			35	27	10	35	24	14			9	150	10			40	30	5	23	27	9																																																										
13	0	UNL	15			26	19	-8	22	30	14			0	UNL	10			46	34	10	23	24	17			9	150	10			46	33	7	20	26	10																																																										
16	0	UNL	15			27	19	-8	21	27	12			10	180	10			49	38	20	32	24	13			3	UNL	10			45	33	5	19	29	10																																																										
19	0	UNL																																																																																													

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1992 RICHMOND, VA 13740

HOUR L.S.T.	VISI-BILITY			TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE				WIND		
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	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)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR of	NET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION
JAN 19th																														
01	10	250	12		29	22	0	28	01	12	0	UNL	12		19	16	5	54	17	4	0	UNL	10		24	22	17	75	14	4
04	8	250	12		25	19	2	37	02	9	0	UNL	12		19	17	12	74	18	7	0	UNL	10		23	21	17	78	12	3
07	10	250	12		21	17	5	50	01	8	8	120	12		25	21	12	58	19	11	0	UNL	10		25	23	19	78	18	5
10	9	UNL	12		22	17	2	42	03	9	8	90	10		31	25	12	45	21	12	1	UNL	10		42	35	25	51	23	10
13	0	UNL	12		28	21	2	33	30	10	1	UNL	10		44	34	16	32	25	9	3	UNL	12		57	45	28	33	24	10
16	5	UNL	12		29	22	0	28	30	8	0	UNL	10		47	37	20	34	27	11	0	UNL	12		63	48	30	29	23	14
19	1	UNL	12		22	17	1	40	10	4	4	UNL	10		34	29	20	57	00	0	0	UNL	12		50	41	27	41	20	8
22	2	UNL	12		20	16	2	45	13	7	0	UNL	10		30	26	18	61	01	5	0	UNL	12		48	40	28	46	23	8
JAN 20th																														
JAN 21st																														
JAN 22nd																														
JAN 23rd																														
JAN 24th																														
JAN 25th																														
JAN 26th																														
JAN 27th																														
JAN 28th																														
JAN 29th																														
JAN 30th																														
JAN 31st																														

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)	AVERAGES					RESULTANT WIND		
		STATION PRESSURE (INCHES)	TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP of	NET BULB of	DEW POINT of				
01	6	29.850	37	34	28	73	9.1	31	2.2
04	6	29.850	36	33	28	76	7.7	30	2.0
07	7	29.860	35	32	27	75	8.1	28	2.4
10	6	29.890	41	36	28	63	11.1	28	3.1
13	6	29.800	47	41	29	54	11.8	26	4.0
16	6	29.790	48	41	30	53	11.7	26	4.3
19	5	29.830	41	37	29	64	8.3	25	1.1
22	5	29.840	39	35	28	67	8.5	30	0.6

