

SEP 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

SEP 1990
 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
																SPEED	DIRECTION	SPEED	DIRECTION				
01	86	61	74	0	61	0	9		0	0.00	0.0	30.015	10	2.5	5.6			12	12	714	92	1	1
02	91	65	78	4	66	0	13	8	0	0.00	0.0	29.910	23	3.8	5.5			10	30	631	81	5	4
03	86	67	77	3	65	0	12	8	0	0.00	0.0	29.960	03	7.1	8.4			15	04	596	77	4	4
04	80	59	70	-4	58	0	5		0	0.00	0.0	30.130	05	6.4	7.0			14	04	724	94	5	3
05	86	57	72	-2	62	0	7	8	0	0.00	0.0	29.960	20	5.2	5.8			12	22	588	76	5	4
06	93	68	81	8	69	0	16	8	0	0.00	0.0	29.780	21	2.2	5.0			7	12	568	74	3	4
07	99*	71	85*	12	70	0	20	1 3	0	0.18	0.0	29.680	25	5.1	7.8			21	34	516	67	5	5
08	76	67	72	-1	66	0	7	8	0	T	0.0	29.910	05	6.6	7.7			14	06	346	45	9	9
09	80	65	73	-1	65	0	8		0	T	0.0	29.930	14	5.5	7.1			12	18	292	38	10	10
10	88	65	77	5	66	0	12	1	0	0.00	0.0	29.890	34	2.8	7.1			14	34	560	74	8	8
11	87	61	74	2	62	0	9		0	0.00	0.0	29.990	07	3.4	5.0			10	04	673	89	7	6
12	86	61	74	2	63	0	9	1	0	0.00	0.0	29.990	09	2.7	3.8			9	12	589	78	8	8
13	78	69	74	3	69	0	9	1	0	0.65	0.0	29.970	05	4.6	5.0	24	N	22	34	0	0	10	10
14	83	67	75	4	69	0	10	1	0	0.81	0.0	29.760	20	1.4	5.6	14	SW	12	23	221	30	8	7
15	83	64	74	3	61	0	9		0	0.00	0.0	29.560	28	7.4	10.3	21	NW	16	29	614	82	3	3
16	80	57	69	-1	55	0	4		0	T	0.0	29.610	33	2.0	8.2	26	SW	14	23	638	86	3	3
17	69	47	58	-12	45	7	0		0	0.00	0.0	29.960	36	9.7	10.3	24	N	18	35	699	94	1	0
18	68	46	57*	-13	43	8	0		0	0.00	0.0	30.110	34	4.1	7.6	18	N	13	30	663	90	9	7
19	72	54	63	-6	55	2	0		0	0.01	0.0	29.880	20	8.5	8.8	24	SW	16	21	232	31	9	8
20	74	60	67	-2	58	0	2	1	0	0.00	0.0	29.850	03	3.6	5.6	17	NE	12	01	540	73	9	8
21	76	55	66	-3	56	0	1	1	0	0.00	0.0	29.920	12	5.2	6.9	15	S	12	17	454	62	9	8
22	79	60	70	2	63	0	5	1	0	0.21	0.0	29.620	21	4.8	7.5	21	N	15	34	299	41	8	7
23	73	50	62	-6	47	3	0	1	0	0.00	0.0	29.650	31	7.8	8.6	24	NW	18	31	673	93	4	2
24	69	46	58	-9	43	7	0		0	0.00	0.0	29.880	29	5.6	7.2	18	NW	14	30	688	95	2	2
25	75	43*	59	-8	46	6	0		0	0.00	0.0	29.845	20	6.9	7.1	21	SW	14	19	690	95	1	0
26	81	50	66	-1	53	0	1	1 3	0	0.06	0.0	29.730	24	4.7	9.2	29	NW	23	32	559	78	3	2
27	77	53	65	-1	57	0	0	1	0	0.00	0.0	29.910	01	4.2	5.5	15	N	10	03	589	82	1	0
28	79	53	66	0	57	0	1	2	0	0.00	0.0	30.010	16	2.5	4.4	12	S	10	15	541	76	9	7
29	82	56	69	4	59	0	4	2	0	0.00	0.0	29.970	18	4.9	5.8	15	SW	12	18	552	77	10	9
30	77	60	69	4	62	0	4	2	0	0.00	0.0	29.860	22	2.2	6.7	25	N	18	01	339	48	10	9
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
2413	1757					33	177			1.92	0.0	29.870	28	0.3	6.9			23	32	15788	FOR	179	158
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.			PRECIPITATION		DEP.						DATE:	DATE:	26	POSSIBLE	MONTH	AVG.	AVG.	
80.4	58.6	69.5	-0.7	58.9		9	-3	≥ .01 INCH.		6	-1.60							22363	71	6.0	5.3		
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.				33	1491	THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.		DEP.		HEAVY FOG		3		1.46		13-14		0.0							
3	0	0	0	9		178		CLEAR		9		PARTLY CLOUDY		7		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.

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Kenneth D. Halpern
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

SEP 1990
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	1/16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES	1/16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
SEP 19th																															
01	8	120	10		55	52	50	83	16	4	2	UNL	7		65	62	60	84	23	6	4	UNL	7			61	59	58	90	00	0
04	5	UNL	10		55	52	50	83	00	0	10	100	7		64	62	61	90	34	3	3	UNL	7		F	55	55	54	97	02	4
07	10	120	7		57	53	49	75	19	5	10	65	6		64	62	61	90	06	4	9	65	6		F	58	56	54	87	07	6
10	10	90	7		63	57	52	68	20	7	10	37	7		70	61	55	59	06	8	10	UNL	7			69	61	56	63	11	8
13	10	65	7		64	61	58	81	20	8	10	43	7		69	60	53	57	01	7	10	250	7			75	64	56	52	11	7
16	8	45	7		72	64	58	62	21	14	7	250	7		73	62	55	53	04	8	10	120	7			73	64	58	60	11	7
19	8	45	7		68	62	58	71	20	10	9	48	7		67	62	58	73	07	3	10	41	7			67	62	58	73	13	8
22	5	UNL	7		66	61	58	76	21	10	10	55	7		63	61	59	87	00	0	10	120	7			64	60	57	78	16	10
SEP 20th																															
SEP 21st																															
SEP 22nd																															
SEP 23rd																															
SEP 24th																															
SEP 25th																															
SEP 26th																															
SEP 27th																															
SEP 28th																															
SEP 29th																															
SEP 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				
01	4	29.880	63	61	60	89	4.9	21	0.9
04	4	29.870	62	60	58	89	5.2	32	0.8
07	6	29.900	63	60	59	86	5.6	36	0.8
10	5	29.910	73	64	58	61	8.8	36	1.0
13	7	29.870	78	66	58	53	9.3	29	2.8
16	6	29.840	78	66	58	52	9.6	31	0.9
19	6	29.850	70	64	61	74	6.2	14	2.3
22	5	29.880	65	62	60	84	5.6	15	0.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

SEP 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																								01	
02																								02	
03																								03	
04																								04	
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13																								13	
14	T	0.04	0.04	0.10	0.15	0.09	0.12	0.18	0.06	0.02	0.01	T	0.04	0.59	0.02	T							T	14	
15																								T	15
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30																									30

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.18	0.30	0.34	0.37	0.45	0.51	0.59	0.60	0.61	0.63	0.63	0.65
ENDED: DATE	13	13	13	13	13	13	13	13	13	13	13	13
ENDED: TIME	1324	1326	1326	1329	1329	1344	1359	1415	1415	1359	1359	1459

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:
CHARLOTTE WARD

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