

SEP 1986
 RICHMOND, VA
 NAT'L WEATHER SERVICE
 BOX A-63, RICHMOND INT'L AIRPORT

ISSN 0198-537X

LOCAL CLIMATOLOGICAL DATA

Monthly Summary



R.E. BYRD INTERNATIONAL AP.

LATITUDE 37°30' LONGITUDE 77°20' 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)	COOLING (SEASON BEGINS WITH JAN)			WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	FASTEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	DATE		
01	77	58	68	-6	59	0	3		0	0.0	0.0	30.040	03	6.2	7.0	12	36	548	70	9	9	01	
02	76	62	69	-5	64	0	4	1	8	0	0.07	0.0	30.000	05	5.6	6.3	10	06	120	15	10	10	02
03	77	62	70	-4	65	0	5	1		0	0.05	0.0	29.985	10	4.0	5.5	9	09	327	42	9	8	03
04	83	61	72	-2	64	0	7	1		0	0.00	0.0	29.900	09	3.1	5.3	8	13	576	75	9	7	04
05	73	67	70	-4	68	0	5	1	8	0	0.01	0.0	29.760	19	6.8	7.0	10	18	0	0	10	10	05
06	82	61	72	-1	65	0	7	1	8	0	0.00	0.0	29.740	35	4.7	6.8	12	03	654	85	6	5	06
07	82	57	70	-3	57	0	5	1		0	0.00	0.0	29.830	01	5.8	6.7	12	03	694	91	3	4	07
08	70	51	61	-12	55	4	0	1		0	0.38	0.0	30.000	01	6.4	7.2	16	36	505	66	8	6	08
09	75	47	61	-11	50	4	0	0		0	0.00	0.0	30.110	13	1.1	5.4	12	18	761	100	0	0	09
10	78	54	66	-6	62	0	1	1	8	0	0.00	0.0	30.050	18	6.7	7.0	12	20	128	17	9	6	10
11	86	68	77	5	69	0	12	1	8	0	0.00	0.0	29.870	20	12.7	13.1	18	20	560	74	9	7	11
12	86	66	76	4	66	0	11	1		0	0.00	0.0	29.690	24	8.3	12.2	20	22	540	72	6	4	12
13	76	55	66	-5	52	0	1	1		0	0.00	0.0	29.940	01	7.3	8.0	16	01	752	100	0	0	13
14	81	52	67	-4	56	0	2	1		0	0.00	0.0	30.070	06	2.8	6.0	13	36	692	92	1	1	14
15	82	59	71	0	60	0	6	1		0	0.00	0.0	30.030	21	9.4	9.8	16	22	677	91	9	7	15
16	75	49	62	-8	53	3	0	0		0	0.00	0.0	30.000	35	4.7	10.3	20	01	600	81	6	5	16
17	68	44*	56*	-14	45	9	0	0		0	0.00	0.0	30.200	04	5.2	7.6	13	02	694	94	4	3	17
18	76	45	61	-9	52	4	0	0		0	0.00	0.0	30.110	19	7.0	7.6	15	20	679	92	7	7	18
19	83	61	72	3	63	0	7	1		0	0.00	0.0	29.980	23	1.7	7.3	13	24	508	69	7	8	19
20	82	66	74	5	68	0	9	1	8	0	0.02	0.0	29.970	13	3.5	5.5	10	12	447	61	9	9	20
21	87	66	77	8	67	0	12	2	8	0	0.00	0.0	29.960	03	3.9	6.4	14	02	596	81	6	7	21
22	80	63	72	4	64	0	7	1	8	0	0.00	0.0	29.980	14	2.2	6.5	9	23	631	86	6	5	22
23	87	63	75	7	67	0	10	1	8	0	0.00	0.0	29.760	21	11.2	11.4	18	21	647	89	5	5	23
24	87	71	79	12	69	0	14	1	8	0	0.00	0.0	29.710	25	8.1	9.0	15	29	427	59	10	10	24
25	94	71	83*	16	69	0	18	1	8	0	0.00	0.0	29.830	26	7.1	8.0	12	30	659	91	7	4	25
26	94*	68	81	14	69	0	16	1	8	0	0.06	0.0	29.880	23	3.4	6.1	20	35	654	91	1	1	26
27	87	69	78	12	68	0	13	1		0	0.00	0.0	29.840	33	4.1	7.2	14	33	551	77	8	7	27
28	74	66	70	4	66	0	5	1		0	0.04	0.0	30.030	06	5.0	6.2	9	07	0	0	10	10	28
29	85	64	75	10	66	0	10	1		0	0.00	0.0	30.060	19	7.5	7.9	14	17	612	86	5	5	29
30	91	69	80	15	69	0	15	1	8	0	0.00	0.0	29.950	22	11.2	11.6	17	23	711	100	0	0	30
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:			TOTAL	%	SUM	SUM					
2434	1815					24	205			0.63	0.0	29.940	21	1.2	7.7	20	35	15950	FOR	189	170		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.									DATE: 26+	POSSIBLE	MONTH	AVG.	
81.1	60.5	70.8	0.6	62.2	0	0	25	> .01 INCH.		7	-2.89									22363	71	6.3	
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.				40	1524	THUNDERSTORMS		0	PRECIPITATION	SNOW, ICE PELLETS											
> 90°		< 32°		< 32°		0	0	HEAVY FOG		1	0.38	08	0.0										
3		0		0		16	211	CLEAR		6	PARTLY CLOUDY	11		CLOUDY		13							

* 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. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: 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). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND NOTED IN SUBSEQUENT PUBLICATIONS.

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NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Hadden
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

SEP 1986
 RICHMOND, VA

OBSERVATIONS AT 3-HOUR INTERVALS

SEP 1986
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	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
SEP 1st																															
01	3	UNL	10		59	57	56	90	08	3	10	80	6	RF	63	62	62	97	01	5	10	45	10			66	65	65	97	06	5
04	8	100	10		60	59	58	93	00	0	10	2	3	RF	63	62	62	97	03	6	10	45	7		F	67	66	65	93	36	3
07	9	80	10		61	59	58	90	05	7	10	2	1	RF	62	62	62	100	05	5	10	45	3			66	66	66	100	03	3
10	9	80	10		70	62	57	64	06	9	10	5	3	F	68	67	66	93	11	5	9	10	7			72	68	65	79	12	7
13	9	120	15		75	64	57	54	05	6	10	28	7		75	67	63	66	08	5	10	23	7			72	68	66	82	17	8
16	10	100	15		72	64	58	62	34	8	10	45	10		72	68	65	79	05	5	9	50	8			75	70	67	76	11	7
19	10	80	15		67	63	61	81	02	7	10	45	10		70	68	66	87	08	5	8	50	10			71	67	65	81	11	7
22	10	120	15		64	63	62	93	36	5	10	80	10		67	66	65	93	04	5	0	UNL	15			65	64	63	93	09	4
SEP 2nd																															
SEP 3rd																															
SEP 4th																															
SEP 5th																															
SEP 6th																															
SEP 7th																															
SEP 8th																															
SEP 9th																															
SEP 10th																															
SEP 11th																															
SEP 12th																															
SEP 13th																															
SEP 14th																															
SEP 15th																															
SEP 16th																															
SEP 17th																															
SEP 18th																															

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).

OBSERVATIONS AT 3-HOUR INTERVALS

SEP 1986
RICHMOND, VA 13740

HOUR L. S. T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND		VISI-BILITY	WEATHER	TEMPERATURE				WIND																																							
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		AIR OF	NET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)			SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	NET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																			
SEP 19th																			SEP 20th																			SEP 21st																		
01	8	70	7		63	60	58	84	20	6	10	50	5	F	69	68	67	93	11	5	6	80	1	F	68	68	68	100	15	4																										
04	9	UNL	7		62	60	58	87	20	8	10	100	5	F	67	66	66	97	07	4	7	UNL	0	F	66	66	66	100	09	3																										
07	10	90	7		64	61	59	84	21	6	10	12	2	F	67	66	65	93	03	8	10	1	1	F	68	68	68	100	13	3																										
10	5	UNL	8		76	68	64	67	27	10	10	UNL	3	H	75	70	67	76	07	3	2	UNL	5	H	78	72	69	74	31	5																										
13	8	250	8		81	71	65	58	31	6	5	UNL	3	H	80	71	67	65	17	6	6	40	7		83	71	64	53	01	9																										
16	3	UNL	8		82	70	64	55	34	6	7	100	3	H	79	75	73	82	12	4	7	UNL	7		84	71	64	51	01	6																										
19	8	100	8		75	70	68	79	08	5	10	20	2	HK	73	72	71	94	19	6	8	70	7		75	70	67	76	06	7																										
22	10	33	7		72	69	68	87	12	5	8	100	3		71	70	70	97	16	4	7	250	5	F	71	68	66	84	06	6																										
SEP 22nd																			SEP 23rd																			SEP 24th																		
01	7	9	3	F	69	68	67	93	05	6	3	UNL	2	F	63	63	63	100	20	6	10	100	5	H	74	71	70	87	22	6																										
04	8	12	1	F	65	64	64	97	05	6	3	UNL	2	F	63	62	62	97	18	6	10	250	5	H	73	70	69	87	24	7																										
07	9	250	1	F	65	64	64	97	11	5	2	UNL	1	F	65	64	64	97	21	7	10	100	5	H	71	70	69	93	23	5																										
10	10	13	3	H	70	66	63	79	12	7	5	UNL	3	H	76	71	68	76	23	9	10	100	6	H	78	72	69	74	23	7																										
13	5	UNL	6	H	76	68	63	64	00	0	2	UNL	3	H	84	73	67	57	22	14	10	90	8		82	72	67	61	31	8																										
16	6	28	6	H	79	69	64	60	18	8	10	250	3	H	84	74	70	63	22	13	9	100	8		85	74	68	57	25	11																										
19	0	UNL	4	H	69	67	65	87	20	5	4	UNL	3	H	78	73	71	79	20	9	8	80	12		78	73	70	77	26	7																										
22	0	UNL	4	H	65	64	64	97	15	5	10	250	3	H	76	72	70	82	22	8	10	250	10		76	72	70	82	24	8																										
SEP 25th																			SEP 26th																			SEP 27th																		
01	9	250	8		74	71	70	87	26	7	2	UNL	6	H	77	72	70	79	26	7	0	UNL	10		73	70	68	84	28	5																										
04	3	UNL	7		72	70	69	90	25	6	0	UNL	5	H	72	70	69	90	26	4	6	80	8		69	68	67	93	00	0																										
07	3	UNL	4	H	74	71	69	85	29	6	0	UNL	4	FH	70	69	68	93	00	0	9	80	6	F	71	70	69	93	25	4																										
10	4	UNL	5	H	86	74	69	57	31	7	0	UNL	6	H	87	75	69	55	06	5	7	250	10		82	72	66	59	35	7																										
13	10	UNL	7		92	74	66	42	26	10	1	UNL	8		92	75	67	44	28	3	6	250	10		83	72	66	57	33	9																										
16	10	UNL	10		91	75	67	45	24	9	2	UNL	8		92	76	69	47	23	8	7	UNL	15		86	73	67	53	31	7																										
19	2	UNL	7		80	74	71	74	20	7	2	UNL	8		81	74	71	72	23	7	7	UNL	15		76	71	68	76	03	5																										
22	0	UNL	6	H	78	73	70	77	24	6	3	UNL	10		75	72	70	85	24	3	6	UNL	7		72	70	69	90	07	8																										
SEP 28th																			SEP 29th																			SEP 30th																		
01	10	12	5	F	71	69	68	90	05	7	10	25	7		66	65	64	93	12	5	0	UNL	10		71	69	68	90	19	10																										
04	10	10	4	RF	69	67	66	90	05	7	10	25	7		65	64	64	97	20	4	0	UNL	10		69	68	67	93	21	10																										
07	10	10	3	F	67	66	66	97	01	5	9	35	7		67	65	63	87	20	6	0	UNL	8		70	69	68	93	22	9																										
10	10	19	6	F	70	68	67	90	06	5	6	UNL	7		79	70	65	62	19	8	0	UNL	8		83	74	69	63	23	12																										
13	10	19	7		72	68	66	82	01	4	4	UNL	10		84	72	66	55	17	9	1	UNL	7		89	75	69	52	25	13																										
16	10	17	7		73	69	67	82	11	4	3	UNL	8		84	73	67	57	19	10	0	UNL	7		89	75	69	52	24	11																										
19	10	23	7		71	68	66	84	13	6	3	UNL	8		73	70	68	84	18	4	0	UNL	7		80	74	71	74	21	8																										
22	9	28	7		68	66	65	90	00	0	0	UNL	7		69	68	67	93	18	8	0	UNL	6	H	76	73	71	85	21	8																										

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	NET BULB OF	DEN POINT OF				
01	5	29.940	65	63	62	90	6.6	18	1.4
04	5	29.940	64	62	61	93	6.2	22	0.9
07	7	29.970	64	63	62	92	6.7	27	0.7
10	6	29.980	63	67	63	70	9.3	29	0.9
13	6	29.950	78	68	62	57	9.6	26	1.8
16	6	29.910	79	68	62	56	9.4	22	2.5
19	5	29.920	71	67	64	78	6.6	16	2.1
22	5	29.940	67	65	63	87	6.1	17	2.6

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

SEP 1986
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	0.01	0.02	0.02	T	T	0.01	T	0.01	T							T	T	T					02	
03					T	T		T	T	0.01							T	T	T					03	
04																								04	
05									T	T	0.01													05	
06																								06	
07																	T	T						07	
08			T	0.13	0.11		T	0.01	0.05	0.07	0.01	T												08	
09																									09
10										T	T													10	
11																								11	
12																								12	
13																								13	
14																								14	
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22																								22	
23																								23	
24																								24	
25																								25	
26																								26	
27																								27	
28				T	0.03	0.01																		28	
29																								29	
30																								30	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.03	0.05	0.06	0.09	0.12	0.15	0.17	0.20	0.20	0.24	0.24	0.24
ENDED: DATE	08	08	08	08	08	08	08	08	08	08	08	08
ENDED: TIME	0421	0427	0430	0421	0430	0433	0433	0433	0433	0451	0451	0451

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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