

AUG 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

AUG 1986  
 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 MINUTES	SKY COVER (TENTHS)			DATE	
	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	FASTEST MILE			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	
01	93	67	80	2	64	0	15	8	0	0.00	0.0	29.730	13	4.1	5.8	9	11	802	95	3	3	01	
02	94*	70	82	4	70	0	17	1 3	8	0.82	0.0	29.735	18	5.4	8.4	24	27	672	80	6	5	02	
03	82	69	76	-2	69	0	11	1	8	0.11	0.0	29.820	01	0.6	5.8	10	33	692	82	9	8	03	
04	87	66	77	-1	68	0	12	1	8	0.00	0.0	29.930	08	4.7	6.0	12	05	741	88	4	4	04	
05	87	67	77	-1	67	0	12	1	8	0.00	0.0	29.940	12	4.5	5.8	13	14	677	81	4	5	05	
06	89	68	79	1	70	0	14	1 3	8	0.28	0.0	29.900	17	5.9	8.3	16	23	590	71	7	7	06	
07	90	68	79	1	70	0	14	1	8	0.0	0.0	29.800	21	8.5	9.0	13	21	578	69	7	7	07	
08	86	72	79	1	68	0	14	1	8	0.00	0.0	29.700	24	8.2	9.7	14	33	728	88	7	6	08	
09	91	71	81	3	68	0	16	1	8	0.00	0.0	29.765	24	4.1	5.8	13	22	672	81	8	7	09	
10	93	71	82*	4	71	0	17	1 3	8	0.0	0.0	29.790	21	9.6	10.0	16	20	758	92	8	7	10	
11	84	68	76	-2	69	0	11	1 3	8	0.20	0.0	29.815	23	3.8	9.7	15	23	480	58	8	7	11	
12	71	66	69	-8	67	0	4	1	8	1.12	0.0	29.965	04	7.0	7.4	12	03	0	0	10	10	12	
13	78	68	73	-4	69	0	8	1	8	0.0	0.0	29.960	05	7.6	8.1	13	05	149	18	10	10	13	
14	81	70	76	-1	70	0	11	1	8	0.0	0.0	29.910	05	4.9	6.4	9	06	472	58	10	9	14	
15	88	69	79	2	70	0	14	1	8	0.00	0.0	29.830	11	4.6	6.0	12	14	722	88	7	6	15	
16	90	70	80	3	72	0	15	1	8	0.00	0.0	29.730	15	5.4	6.6	15	16	746	92	6	5	16	
17	85	71	78	0	73	0	13	1	8	1.61	0.0	29.640	04	9.3	11.7	20	36	617	76	8	7	17	
18	83	71	77	0	71	0	12	1	8	0.08	0.0	29.690	33	8.6	9.4	15	33	705	87	9	9	18	
19	78	70	74	-3	71	0	9	1	8	0.66	0.0	29.825	05	4.7	5.9	14	09	182	22	10	10	19	
20	73	69	71	-5	70	0	6	1	8	1.25	0.0	29.870	06	10.0	10.5	17	06	0	0	10	10	20	
21	84	69	77	1	71	0	12	1	8	0.17	0.0	29.890	31	4.1	10.7	15	35	689	86	7	8	21	
22	81	66	74	-2	64	0	9	1	8	0.00	0.0	29.985	01	6.5	7.7	12	34	723	90	5	5	22	
23	84	63	74	-2	65	0	9	1	8	0.00	0.0	29.860	21	8.9	9.3	16	19	716	90	5	5	23	
24	79	60	70	-6	58	0	5	1	8	0.00	0.0	29.770	34	7.5	10.2	20	36	714	90	4	4	24	
25	82	55	69	-7	53	0	4	1	8	0.00	0.0	29.950	03	2.5	6.7	13	05	762	96	3	2	25	
26	87	60	74	-2	64	0	9	1	8	0.00	0.0	29.910	20	10.6	11.1	16	20	754	95	5	4	26	
27	90	70	80	5	69	0	15	1 3	8	0.14	0.0	29.720	23	9.1	11.7	28	31	639	81	9	8	27	
28	71	50	61	-14	57	4	0	1	8	0.31	0.0	29.820	35	7.4	11.2	21	36	245	31	9	7	28	
29	70	47*	59*	-16	45	6	0	1	8	0.00	0.0	30.120	02	8.4	9.0	16	02	769	98	1	1	29	
30	73	48	61	-14	50	4	0	1	8	0.00	0.0	30.180	08	4.8	6.7	12	12	770	98	3	2	30	
31	75	51	63	-12	55	2	0	1	8	0.00	0.0	30.125	05	5.2	6.8	12	05	686	88	8	6	31	
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
2579	2020	74.2	-2.6	65.7	16	308	-58	16	12	6.75	0.0	29.860	08	0.6	8.3	28	31	18450	73	6.8	210	194	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	PRECIPITATION		DATE: 27	POSSIBLE	MONTH	AVG.	AVG.									
83.2	65.2	74.2	-2.6	65.7	16	-58	> .01 INCH	12	1.74														
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									
						16	1319	5		PRECIPITATION				SNOW, ICE PELLETS									
5 90°		2 32°		2 32°		2 0°		DEP.		DEP.		HEAVY FOG		0		1.69		17-18		0.0		0	
7		0		0		0		16		186		CLEAR		4		PARTLY CLOUDY		13		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. 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. Hadler*  
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1986  
RICHMOND, VA

13740

HOOR 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	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	AIR OF			WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)				
AUG 1st																															
01	8	250	6	H	70	66	63	79	00	0	0	0	UNL	6	H	73	70	69	87	15	4	7	UNL	7	H	72	71	70	94	30	6
04	3	UNL	6	H	68	66	64	87	00	0	0	0	UNL	4	FH	71	70	69	93	14	3	5	UNL	7	H	70	69	68	93	16	5
07	0	UNL	6	H	72	66	63	73	00	0	0	0	UNL	1	FH	73	72	72	97	13	5	9	100	5	H	72	70	69	90	19	6
10	0	UNL	7	H	87	72	64	46	17	8	8	8	UNL	5	H	88	77	73	61	19	6	10	70	3	H	73	70	69	87	02	9
13	3	UNL	7	H	91	69	56	31	11	10	10	10	UNL	5	H	93	75	67	43	14	7	10	65	2	H	74	71	70	87	08	4
16	8	250	7	H	90	71	61	38	11	8	8	8	UNL	6	H	92	76	69	47	18	12	8	UNL	6	H	81	71	66	60	32	6
19	4	UNL	7	H	82	73	68	63	13	6	6	6	UNL	8	TF	72	71	71	97	06	5	7	UNL	6	H	78	73	70	77	12	5
22	0	UNL	6	H	76	70	67	74	13	5	5	5	UNL	10	TF	73	72	71	94	27	8	7	UNL	5	FH	73	72	71	94	00	0
AUG 2nd																															
AUG 3rd																															
AUG 4th																															
AUG 5th																															
AUG 6th																															
AUG 7th																															
AUG 8th																															
AUG 9th																															
AUG 10th																															
AUG 11th																															
AUG 12th																															
AUG 13th																															
AUG 14th																															
AUG 15th																															
AUG 16th																															
AUG 17th																															
AUG 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

AUG 1986  
RICHMOND, VA 13740

HOUR L.S.T.	VISI-BILITY				TEMPERATURE				WIND				VISI-BILITY				TEMPERATURE				WIND											
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
AUG 19th																																
01	10	30	7		75	73	72	90	00	0	10	75	8			69	68	68	97	01	5	10	2	2		F	73	73	73	100	09	7
04	10	70	7		74	73	72	94	00	0	10	20	5		LF	70	69	69	97	05	7	10	2	2		F	74	73	73	97	09	6
07	10	90	6		73	72	72	97	02	4	10	28	2	8	LF	71	71	71	100	05	7	7	250	2		F	75	74	74	97	17	6
10	10	120	6		76	73	72	88	08	6	10	9	2	8	RF	70	69	68	93	07	8	7	18	15			80	75	73	79	26	10
13	10	18	1	8	76	70	70	97	07	5	10	6	5		RF	73	71	70	90	07	14	9	UNL	15			83	75	71	67	26	12
16	10	4	1	8	71	70	69	93	12	8	10	5	3		RF	71	70	70	97	08	10	3	UNL	12			81	74	71	72	28	10
19	10	30	5		72	71	71	97	04	6	10	6	3		RW	73	72	71	94	07	9	10	12	10			73	70	69	87	32	10
22	9	70	6		71	70	69	93	07	7	10	4	2		F	73	72	72	97	09	9	10	7	10			70	68	67	90	35	11
AUG 20th																																
AUG 21st																																
AUG 22nd																																
AUG 23rd																																
AUG 24th																																
AUG 25th																																
AUG 26th																																
AUG 27th																																
AUG 28th																																
AUG 29th																																
AUG 30th																																
AUG 31st																																

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	WET BULB OF	DEW POINT OF				
01	5	29.855	69	67	66	90	6.2	27	0.1
04	5	29.840	68	66	65	93	5.8	13	0.5
07	6	29.870	70	67	66	90	7.8	36	1.3
10	6	29.890	77	70	66	70	10.3	01	2.0
13	7	29.870	80	70	65	62	9.9	06	1.1
16	7	29.835	81	70	65	60	10.2	13	1.2
19	7	29.840	75	70	67	76	8.5	12	1.7
22	6	29.870	70	68	66	88	6.8	14	1.4

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

AUG 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																		0.20	0.62	T	T			02	
03											T	0.11	T											03	
04																								04	
05																								05	
06																	T	0.09	0.11	0.07	0.01			06	
07													T											07	
08																								08	
09																								09	
10																T								10	
11																								11	
12																		T	T	0.04	0.11	0.05	T	12	
13																							T	13	
14																								14	
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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)	0.21	0.42	0.46	0.48	0.53	0.73	0.83	0.97	1.12	1.18	1.36	1.38
ENDED: DATE	02	02	02	02	17	17	17	17	17	17	17	17
ENDED: TIME	1810	1810	1811	1811	1728	1728	1728	1734	1730	1750	1759	1818

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:  
BILL CLAYTON

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