

AUG 1984
 RICHMOND, VIRGINIA
 NAT'L WEATHER OFFICE
 BOX A-63 BYRD 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 1984
 RICHMOND, VIRGINIA

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 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		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	89	70	80	2	72	0	15	2	8	0	0	29.970	20	4.8	6.0	12	24	233	28	9	9	01	
02	92	72	82	4	72	0	17			0.00	0.0	29.970	22	8.1	8.5	15	24	476	56	8	8	02	
03	91	72	82	4	73	0	17	1	3	0	1.82	29.870	27	1.6	5.8	17	29	306	36	7	8	03	
04	91	70	81	3	71	0	16	1	3	0	0.01	29.840	32	1.8	2.4	8	30	678	81	3	3	04	
05	89	68	79	1	70	0	14	1	3	0	0.09	29.850	31	2.8	3.0	12	27	606	72	5	5	05	
06	93	68	81	3	71	0	16	1	8	0	0.00	29.820	23	1.2	1.4	8	21	526	63	3	2	06	
07	94	72	83	5	72	0	18	1	8	0	0.00	29.680	25	3.0	3.5	9	28	782	94	1	2	07	
08	91	73	82	4	72	0	17	1	8	0	0.00	29.670	35	2.4	2.5	10	36	596	72	2	5	08	
09	93	73	83*	5	73	0	18	1	3	0	0.23	29.750	14	1.4	1.7	8	16	218	26	7	8	09	
10	87	71	79	1	72	0	14	1	8	0	0.14	29.780	15	1.2	1.3	8	17	258	31	9	9	10	
11	86	70	78	0	71	0	13	1	3	0	0.01	29.750	03	1.1	1.4	12	35	219	27	9	9	11	
12	90	68	79	2	71	0	14	1	3	0	0.00	29.795	08	1.6	1.8	13	10	544	66	6	7	12	
13	89	70	80	3	73	0	15	2	3	0	0.57	29.830	08	0.6	1.8	12	31	249	30	9	9	13	
14	91	72	82	5	74	0	17	2	3	0	1.44	29.810	29	0.6	1.6	15	33	368	45	8	9	14	
15	87	69	78	1	70	0	13	1	8	0	0	29.840	36	4.3	4.4	14	36	567	69	3	3	15	
16	87	66	77	0	66	0	12	1	8	0	0.00	29.810	34	3.9	4.2	14	32	774	95	2	1	16	
17	88	67	78	1	66	0	13	1	8	0	0	29.725	35	3.6	4.4	12	36	662	81	1	1	17	
18	82	65	74	-3	66	0	9	1	3	0	0.25	29.680	05	0.3	1.8	17	23	293	36	10	9	18	
19	85	66	76	-1	67	0	11	1	3	0	0	29.630	35	1.5	1.5	14	36	489	60	9	9	19	
20	79	61	70	-6	61	0	5	1	8	0	0.00	29.780	01	6.9	7.1	14	36	587	73	6	5	20	
21	80	55*	68*	-8	57	0	3			0	0.00	29.980	03	1.2	1.2	10	03	804	100	1	1	21	
22	87	56	72	-4	62	0	7			0	0.00	29.910	19	3.6	4.6	12	19	779	97	1	2	22	
23	84	63	74	-2	65	0	9	1	8	0	0	29.710	34	2.4	3.4	12	32	537	67	9	8	23	
24	82	61	72	-4	59	0	7		8	0	0.00	29.830	01	6.3	6.6	13	01	700	88	2	2	24	
25	82	57	70	-6	57	0	5			0	0.00	29.980	36	4.6	4.8	14	01	742	93	2	2	25	
26	87	57	72	-4	58	0	7			0	0.00	30.030	01	0.2	0.5	6	07	710	90	2	2	26	
27	90	58	74	-1	62	0	9			0	0.00	29.950	20	4.0	4.4	12	20	648	82	6	5	27	
28	87	64	76	1	65	0	11		8	0	0	29.880	19	8.2	8.3	15	19	513	65	10	9	28	
29	87	66	77	2	68	0	12	1	8	0	0.02	29.835	21	5.9	6.1	14	23	487	62	10	9	29	
30	94*	68	81	6	69	0	16	1	8	0	0.00	29.715	22	6.7	7.1	13	21	603	77	5	6	30	
31	89	62	76	1	58	0	11			0	0.00	29.720	34	5.3	6.3	16	01	659	84	3	2	31	
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL	FOR THE MONTH:						TOTAL	%	SUM	SUM		
2723	2050					0	381			4.58	0.0	29.820	28	0.8	3.9	17	23	16613	FOR	168	169		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.			PRECIPITATION		DEP.								DATE: 10+	POSSIBLE	MONTH	AVG.	AVG.	
87.8	66.1	77.0	0.2	67.1	0	15		> .01 INCH.	10	-0.43								25250	66	5.4	5.5		
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.				0	1243	THUNDERSTORMS	10	PRECIPITATION	SNOW, ICE PELLETS												
> 90 °	< 32°	< 32°	< 0°			DEP.	DEP.	HEAVY FOG	3	1.82	03	0.0											
11	0	0	0			0	110	CLEAR	13	PARTLY CLOUDY	7	CLOUDY		11									

* 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. Wadlean
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1984
RICHMOND, VIRGINIA 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)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE			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)
AUG 1st																																	
01	10	25	5		H	71	68	67	87	12	4	10	80	10		76	72	70	82	23	10	8	UNL	8			78	75	73	85	23	8	
04	7	5	4		FH	70	69	68	93	14	6	10	80	12		73	70	69	87	21	7	8	11			77	74	73	88	28	7		
07	10	2	0	12	FH	72	71	70	94	17	3	10	UNL	8		75	72	70	85	23	8	8	250	5	F	77	74	73	88	21	6		
10	10	12	3		H	79	75	73	82	25	4	9	120	12		84	76	72	67	24	13	8	16	6	H	83	77	75	77	31	5		
13	9	25	6		H	84	76	73	70	26	7	7	120	15		90	79	74	59	20	8	8	28	7		87	79	75	68	00	0		
16	8	UNL	7			88	78	74	63	19	7	8	250	15		89	78	74	61	20	9	8	28	7		90	79	74	59	00	0		
19	8	250	8			81	76	74	79	18	5	6	UNL	15		84	76	73	70	22	8	8	30	7		79	74	71	77	00	0		
22	10	30	7			78	74	72	82	22	6	5	UNL	10		76	73	72	88	20	5	10	80	8		73	73	73	100	20	5		
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 | ZL FREEZING DRIZZLE | IPW ICE PELLET SHOWERS | BN BLOWING SAND |
| T THUNDERSTORM | S SNOW | A HAIL | BS BLOWING SNOW |
| Q SQUALL | SW SNOW SHOWERS | F FOG | BY BLOWING SPRAY |
| R RAIN | SG SNOW GRAINS | IF ICE FOG | K SMOKE |
| RW RAIN SHOWERS | SP SNOW PELLETS | GF GROUND FOG | H HAZE |
| ZR FREEZING RAIN | IC ICE CRYSTALS | BD BLOWING DUST | D DUST |
| L DRIZZLE | IP ICE PELLETS | | |

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 1984
RICHMOND, VIRGINIA 13740

HOUR	L. S. T.	VISI-BILITY			WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND			
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		
AUG 19th												AUG 20th												AUG 21st											
01	10	70	5	FH	67	66	65	93	00	0	7	250	6	H	68	65	64	84	32	3	0	UNL	15			60	58	56	87	04	4				
04	10	45	5	FH	67	66	65	93	00	0	7	5	4	H	65	64	64	97	36	12	0	UNL	12			56	55	54	93	00	0				
07	10	10	2	FH	67	66	66	97	00	0	10	10	5	H	65	63	61	87	01	10	0	UNL	10			61	58	55	81	00	0				
10	10	10	2	H	74	71	69	85	00	0	9	15	7		69	65	62	79	36	10	0	UNL	15			74	64	57	56	00	0				
13	10	20	2	H	82	73	69	65	35	5	5	UNL	10		77	68	62	60	36	6	2	UNL	15			79	66	58	49	00	0				
16	8	UNL	5	H	83	73	68	61	35	7	4	UNL	12		78	67	60	54	01	9	3	UNL	15			79	66	58	49	00	0				
19	5	UNL	5	H	76	71	69	79	00	0	0	UNL	15		71	64	59	66	00	0	1	UNL	15			72	64	59	64	00	0				
22	10	13	5	TRWH	67	67	65	81	35	10	0	UNL	15		62	60	58	87	00	0	0	UNL	15			62	59	57	84	00	0				
AUG 22nd												AUG 23rd												AUG 24th											
01	0	UNL	12		59	57	56	90	00	0	8	250	7		66	64	63	90	19	5	8	250	6	H	68	65	63	84	30	6					
04	0	UNL	15		58	57	56	93	00	0	4	UNL	6		64	63	62	93	00	0	3	UNL	7			64	61	58	81	36	8				
07	1	UNL	8		63	62	61	93	00	0	9	250	4	F	68	67	66	93	00	0	5	UNL	10			62	59	56	81	02	8				
10	0	UNL	12		80	70	65	60	19	8	10	UNL	5	H	83	74	70	65	31	6	0	UNL	12			74	65	59	60	01	10				
13	2	UNL	12		85	73	67	55	17	7	10	100	5	H	79	71	66	65	01	9	2	UNL	15			80	68	60	51	36	4				
16	1	UNL	12		84	73	67	57	19	7	9	250	8		76	69	65	69	02	8	3	UNL	15			80	66	57	45	36	7				
19	3	UNL	10		75	68	64	69	18	6	8	UNL	9		71	67	64	79	00	0	0	UNL	15			72	64	59	64	00	0				
22	5	UNL	7		67	64	62	84	19	5	8	UNL	6	H	67	65	64	90	00	0	0	UNL	15			63	61	59	87	00	0				
AUG 25th												AUG 26th												AUG 27th											
01	0	UNL	15		60	58	57	90	00	0	0	UNL	12		60	58	56	87	00	0	0	UNL	15			60	58	57	90	00	0				
04	0	UNL	15		57	56	55	93	35	6	0	UNL	12		57	56	55	93	00	0	0	UNL	10			59	57	56	90	00	0				
07	0	UNL	15		63	60	57	81	36	7	0	UNL	10		63	61	59	87	00	0	0	UNL	7			62	61	60	93	00	0				
10	0	UNL	15		76	66	60	58	34	10	0	UNL	15		78	68	62	58	00	0	3	UNL	15			81	71	65	58	19	7				
13	4	UNL	15		80	65	55	42	36	4	3	UNL	15		83	68	58	43	31	5	8	UNL	10			87	74	67	52	23	5				
16	4	UNL	15		79	66	57	47	01	6	5	UNL	15		83	67	58	43	00	0	9	250	10			84	70	63	49	18	9				
19	0	UNL	15		72	64	58	62	01	3	4	UNL	15		71	64	59	66	00	0	5	UNL	10			74	67	63	69	16	3				
22	2	UNL	15		64	61	58	81	00	0	0	UNL	15		64	61	58	81	00	0	5	UNL	8			66	64	62	87	00	0				
AUG 28th												AUG 29th												AUG 30th											
01	7	UNL	8		65	62	60	84	00	0	10	40	7	RW	69	67	65	87	22	7	10	100	5	FH	70	69	69	97	00	0					
04	8	38	7		65	62	60	84	19	5	10	33	5	F	68	66	65	90	21	7	7	UNL	4	FH	69	67	66	90	00	0					
07	10	250	7		68	63	60	76	20	7	8	250	2	H	66	65	64	93	18	7	5	UNL	2	FH	71	69	68	90	21	4					
10	10	UNL	7		82	72	66	59	20	8	10	100	6	H	79	72	68	69	22	8	3	UNL	4	H	87	77	72	61	22	6					
13	10	250	7		86	74	69	57	22	12	10	UNL	5	H	85	75	70	61	21	10	4	UNL	5	H	92	78	72	52	20	11					
16	10	250	5		84	74	69	61	20	11	9	100	5	H	86	76	71	61	22	6	4	UNL	5	H	92	77	71	50	21	11					
19	8	250	5	H	76	70	66	71	18	7	8	100	5	H	78	72	69	74	00	0	8	UNL	5	H	78	72	69	74	20	6					
22	10	100	6	H	73	68	65	76	19	10	8	100	5	H	72	70	69	90	00	0	10	250	6	H	76	71	68	76	24	9					
AUG 31st												AUG 31st												AUG 31st											
01	0	UNL	8		70	64	60	71	00	0																									
04	0	UNL	8		66	62	60	81	00	0																									
07	6	UNL	8		69	65	63	81	30	3																									
10	2	UNL	15		82	68	60	47	33	12																									
13	2	UNL	12		87	67	55	34	01	14																									
16	3	UNL	15		85	67	56	37	32	8																									
19	2	UNL	15		75	65	59	58	02	4																									
22	0	UNL	15		66	60	55	68	34	4																									

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	MET BULB OF	DEW POINT OF				
01	6	29.820	69	67	66	89	1.9	23	1.1	
04	5	29.810	68	66	65	92	2.2	30	0.5	
07	5	29.840	70	68	67	88	2.9	29	0.7	
10	5	29.850	81	73	69	67	6.0	31	2.9	
13	6	29.820	85	74	69	58	6.5	31	1.7	
16	6	29.790	84	73	67	59	6.9	29	1.2	
19	5	29.795	76	71	67	75	2.0	19	1.2	
22	6	29.820	71	68	67	87	2.0	23	1.1	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

AUG 1984
RICHMOND, VIRGINIA

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	
05	0.01																							05	
06																								06	
07																								07	
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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)	0.51	0.98	1.10	1.27	1.53	1.81	1.82	1.82	1.82	1.82	1.82	1.82
ENDED: DATE	03	03	03	03	03	03	03	03	03	03	03	03
ENDED: TIME	2016	2020	2025	2030	2040	2054	2109	2120	2120	2120	2120	2120

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.

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