

JUL 1986
 RICHMOND, VIRGINIA
 NAT'L WEA SER OFC
 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

JUL 1986
 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		SKY COVER (TENTHS)		DATE						
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEN POINT			HEATING ISEASON BEGINS WITH JUL	COOLING ISEASON BEGINS WITH JAN		WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	MINUTES	PERCENT OF TOTAL POSSIBLE		SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT				
01	72	63	68*	-9	66	0	3	1	8	0	0.27	0.0	29.820	03	5.9	7.1	12	01	0	10	10	01		
02	83	71	77	0	71	0	12	1	8	0	0.01	0.0	29.550	24	8.2	10.8	18	27	221	25	10	10	02	
03	83	62	73	-4	57	0	8		8	0	0.00	0.0	29.730	35	11.2	11.5	21	35	819	93	3	3	03	
04	88	56*	72	-5	56	0	7		7	0	0.00	0.0	29.970	19	4.0	8.1	15	18	856	97	6	4	04	
05	93	67	80	3	64	0	15		15	0	0.00	0.0	30.010	20	10.8	11.4	15	19	828	94	4	3	05	
06	97	66	82	5	64	0	17		17	0	0.00	0.0	30.010	24	5.0	7.3	12	29	880	100	6	5	06	
07	96	70	83	6	68	0	18	1	8	0	0.00	0.0	29.960	29	4.3	6.2	15	30	785	89	3	4	07	
08	98	74	86	8	68	0	21		8	0	0.00	0.0	29.860	33	3.9	6.7	14	36	818	93	2	3	08	
09	100*	73	87	9	69	0	22	3	8	0	0.51	0.0	29.680	26	9.1	10.3	39	35	675	77	7	6	09	
10	91	71	81	3	67	0	16		8	0	0.00	0.0	29.760	29	3.7	8.4	13	23	737	84	8	6	10	
11	93	71	82	4	71	0	17	1	3	8	0	T	0.0	29.740	22	4.4	7.2	10	17	785	90	8	6	11
12	98	74	86	8	71	0	21	1	3	8	0	0.15	0.0	29.710	24	9.2	10.8	18	24	772	88	5	6	12
13	99	74	87*	9	69	0	22		3	8	0	0.01	0.0	29.750	26	10.8	11.6	21	25	820	94	2	3	13
14	96	75	86	8	62	0	21		3	8	0	0.00	0.0	29.840	29	10.0	10.7	17	29	752	86	5	6	14
15	85	71	78	0	64	0	13		13	8	0	T	0.0	29.920	10	3.5	6.6	10	04	762	88	7	6	15
16	94	67	81	3	68	0	16	1	8	8	0	0.00	0.0	29.900	20	7.4	8.1	13	18	699	80	8	6	16
17	96	74	85	7	72	0	20	1	3	8	0	0.01	0.0	29.870	34	4.8	6.6	16	30	649	75	8	8	17
18	98	72	85	7	70	0	20	1	8	8	0	0.00	0.0	29.780	31	6.5	8.1	18	33	769	89	5	4	18
19	95	72	84	6	71	0	19	1	3	8	0	1.05	0.0	29.710	33	5.7	8.8	38	35	683	79	8	6	19
20	96	70	83	5	73	0	18	1	3	8	0	0.35	0.0	29.670	14	2.0	6.5	29	04	769	89	4	4	20
21	91	70	81	3	72	0	16	1	8	8	0	0.02	0.0	29.760	02	2.9	6.5	12	01	792	92	3	5	21
22	85	74	80	2	73	0	15	1	3	8	0	0.20	0.0	29.930	09	6.4	8.1	17	06	750	87	7	8	22
23	87	72	80	2	74	0	15	1	3	8	0	3.00	0.0	29.980	10	5.4	6.9	23	05	620	72	9	8	23
24	88	72	80	2	73	0	15	2	8	8	0	T	0.0	29.960	10	8.0	9.2	17	11	755	88	5	4	24
25	92	72	82	4	74	0	17	1	3	8	0	0.88	0.0	29.880	15	6.4	6.8	10	15	652	76	8	6	25
26	92	72	82	3	74	0	17	1	3	8	0	0.55	0.0	29.790	18	6.3	7.6	16	25	526	62	9	8	26
27	91	71	81	3	72	0	16	1	3	8	0	T	0.0	29.690	19	1.9	5.9	10	18	704	83	6	6	27
28	91	74	83	5	71	0	18	1	3	8	0	T	0.0	29.650	33	4.1	7.0	16	27	758	89	4	6	28
29	94	73	84	6	69	0	19	1	8	8	0	0.00	0.0	29.610	25	3.5	7.0	16	36	741	87	6	5	29
30	85	67	76	-2	64	0	11	1	8	8	0	0.00	0.0	29.670	33	5.8	6.9	14	31	794	94	4	2	30
31	88	69	78	0	61	0	13	1	8	8	0	0.00	0.0	29.710	32	4.5	6.3	14	32	815	96	2	4	31
SUM	SUM				TOTAL	TOTAL		NUMBER OF DAYS			TOTAL	TOTAL	FOR THE MONTH:					TOTAL	%	SUM	SUM			
2835	2178				0	498					7.01	0.0	29.800	27	2.0	8.1	39	35	21986	82	182	171		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION			DEP.							DATE: 9	POSSIBLE	MONTH	AVG.	AVG.		
91.5	70.3	80.9	3.1	68.2	0	101		> .01 INCH.	13		1.87								26897	82	5.9	5.5		
NUMBER OF DAYS				SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE												
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL		TOTAL		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS												
> 90°	< 32°	< 32°	< 0°	DEP.	DEP.	0	1011	13	1	3.00	23	0.0	0											
21	0	0	0	0	244	CLEAR	6	PARTLY CLOUDY	15	CLOUDY	10													

* 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. Haden
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1986
RICHMOND, VIRGINIA 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	16THS MILE		AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF		NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
JUL 1st																																
01	10	15	6		F	71	70	69	93	36	5	10	7	5	FH	71	70	69	93	12	4	5	UNL	6		H	70	67	65	84	32	6
04	9	20	12			66	62	60	81	01	10	10	4	2	8	FH	71	71	71	100	20	7	8	45	7		70	66	63	79	35	9
07	10	40	8		RW	65	62	60	84	01	9	10	5	1	8	FH	73	72	71	94	22	13	3	UNL	7		70	65	61	73	35	14
10	10	33	5		RF	65	64	64	97	09	8	10	70	3		H	80	75	72	77	24	13	0	UNL	15		77	63	53	43	36	16
13	10	7	3		H	70	69	68	93	03	4	10	28	3		H	80	75	73	79	24	12	6	45	15		79	65	55	44	35	12
16	10	5	3		FH	71	70	69	93	01	6	10	100	7		H	82	73	69	65	29	13	6	50	15		81	64	52	37	33	10
19	10	12	3		FH	71	70	70	97	03	4	10	250	7		H	80	75	72	77	23	6	2	UNL	15		78	63	53	42	02	7
22	10	12	6		FH	71	70	69	93	12	7	8	80	8		H	75	69	65	71	01	6	0	UNL	15		66	60	56	70	36	6
JUL 2nd																																
JUL 3rd																																
JUL 4th																																
JUL 5th																																
JUL 6th																																
JUL 7th																																
JUL 8th																																
JUL 9th																																
JUL 10th																																
JUL 11th																																
JUL 12th																																
JUL 13th																																
JUL 14th																																
JUL 15th																																
JUL 16th																																
JUL 17th																																
JUL 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

JUL 1986
RICHMOND, VIRGINIA 13740

HOUR L.S.T.	VISIBILITY				TEMPERATURE				WIND			VISIBILITY				TEMPERATURE				WIND										
	SKY COVER (TENTHS)		CEILING IN HUNDREDS OF FEET		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)		CEILING IN HUNDREDS OF FEET		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)		CEILING IN HUNDREDS OF FEET		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
	WHOLE MILES	16THS MILE	WHOLE MILES	16THS MILE							WHOLE MILES	16THS MILE	WHOLE MILES	16THS MILE							WHOLE MILES	16THS MILE	WHOLE MILES	16THS MILE						
JUL 19th																														
JUL 20th																														
JUL 21st																														
JUL 22nd																														
JUL 23rd																														
JUL 24th																														
JUL 25th																														
JUL 26th																														
JUL 27th																														
JUL 28th																														
JUL 29th																														
JUL 30th																														
JUL 31st																														

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES								RESULTANT WIND	
	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF					
01	5	29.800	75	71	69	84	6.1	26	1.9	
04	4	29.800	72	70	68	87	5.6	25	1.7	
07	6	29.825	75	71	69	81	7.5	29	2.7	
10	6	29.830	84	73	68	60	10.5	30	2.8	
13	7	29.810	88	74	67	52	10.9	30	4.7	
16	6	29.770	89	74	67	52	10.5	27	3.6	
19	6	29.780	83	74	69	64	7.8	19	2.1	
22	6	29.810	77	72	69	76	7.5	16	0.5	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUL 1986
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		T	0.01	T		T	0.05	0.06	0.11	0.05				T	T									02	
03																								03	
04																								04	
05																								05	
06																								06	
07																								07	
08																								08	
09																	0.47	0.04						09	
10																								10	
11																								11	
12			T	0.01	0.01	T										T							T	12	
13																	0.13							13	
14															0.01									14	
15											T		T	T	T									15	
16																								16	
17																	T	0.01	T					17	
18																								18	
19																	1.04	0.01	T					19	
20																					0.28	0.06	0.01	20	
21	0.02											T	0.20											21	
22														1.03	1.97	T	T	T	T	T				22	
23														T										23	
24																								24	
25																0.20	0.68	T						25	
26																0.41	0.07	0.05	0.02					26	
27																								27	
28	T						T																	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)	0.34	0.65	0.90	1.23	1.78	2.41	2.51	2.64	2.76	3.00	3.00	3.00
ENDED: DATE	23	23	23	23	23	23	23	23	23	23	23	23
ENDED: TIME	1311	1327	1321	1326	1327	1332	1348	1400	1400	1410	1410	1410

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 HOWELL

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