

JUL 1992
 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

JUL 1992
 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				WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)			
	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)	IN INCHES	ELEV. FEET ABOVE M.S.L.	RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	DIRECTION	SPEED	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	
01	88	69	79	2	72	0	14	1	8	0	0.37	0.0	29.685	20	6.7	8.6	30	N	21	02	695	79	9	9	
02	84	67	76	-1	69	0	11	1	8	0	0.00	0.0	29.750	07	4.2	6.3	15	NE	15	12	665	75	6	6	
03	83	63	73	-4	67	0	8	1	3	0	0.60	0.0	29.800	15	7.0	8.8	22	S	16	16	611	69	9	9	
04	88	70	79	2	71	0	14	1	3	0	0.28	0.0	29.790	33	1.1	6.1	29	N	17	36	273	31	7	6	
05	87	67	77	0	68	0	12	2	8	0	0.00	0.0	29.740	15	4.3	7.5	20	S	14	15	733	83	7	7	
06	84	67	76	-1	71	0	11	1	8	0	1.53	0.0	29.680	16	1.4	6.0	23	NW	17	34	538	61	9	8	
07	81	62	72*	-5	60	0	7	1	8	0	T	0.0	29.880	33	7.5	8.7	21	NW	17	34	647	74	4	5	
08	85	61*	73	-5	66	0	8	1	8	0	0.02	0.0	29.910	17	8.6	9.2	21	S	16	18	514	59	10	9	
09	94	75	85	7	75	0	20	1	8	0	T	0.0	29.740	22	11.3	12.2	23	W	15	22	682	78	7	8	
10	97	79	88*	10	75	0	23	1	8	0	0.00	0.0	29.770	24	8.4	10.2	24	SW	20	20	800	91	2	2	
11	96	74	85	7	73	0	20	1	8	0	0.00	0.0	29.780	24	3.3	6.9	17	NW	10	27	754	86	2	2	
12	97	74	86	8	73	0	21	1	8	0	0.00	0.0	29.790	21	7.0	8.1	22	SW	15	22	774	89	2	2	
13	96	76	86	8	71	0	21	1	8	0	0.00	0.0	29.730	23	9.4	11.4	26	SW	18	26	757	87	10	8	
14	98*	71	85	7	70	0	20	1	8	0	0.00	0.0	29.730	21	9.5	9.8	24	SW	18	21	870	100	0	0	
15	95	71	83	5	72	0	18	3	8	0	0.61	0.0	29.665	21	13.5	13.9	52	W	37	27	572	66	3	5	
16	92	69	81	3	73	0	16	1	8	0	0.02	0.0	29.785	20	7.2	7.9	24	S	15	20	647	74	8	8	
17	91	70	81	3	73	0	16	1	8	0	0.00	0.0	29.830	20	11.3	11.7	26	S	18	22	751	87	8	7	
18	89	71	80	2	71	0	15	1	8	0	0.29	0.0	29.870	20	5.4	7.9	20	SW	14	23	593	68	8	8	
19	90	69	80	2	72	0	15	1	3	0	0.05	0.0	29.900	16	3.1	6.8	18	NE	13	11	697	81	7	7	
20	92	64	78	0	68	0	13	1	8	0	0.00	0.0	29.910	15	1.5	5.7	15	N	10	18	752	87	1	1	
21	94	71	83	5	71	0	18	1	3	8	0	0.17	0.0	29.890	20	6.3	8.8	32	NW	21	30	727	84	3	4
22	84	70	77	-1	72	0	12	1	3	8	0	0.67	0.0	29.950	07	3.8	6.7	17	SE	13	15	538	63	10	10
23	87	70	79	1	73	0	14	2	8	0	0.00	0.0	29.920	20	6.2	8.1	21	NE	16	03	461	54	9	9	
24	83	70	77	-1	72	0	12	1	8	0	T	0.0	29.950	08	5.1	7.7	18	E	14	09	366	43	10	9	
25	83	70	77	-1	71	0	12	1	8	0	T	0.0	29.920	04	4.5	6.9	21	NE	15	01	646	75	7	8	
26	86	69	78	-1	72	0	13	1	3	8	0	0.10	0.0	29.770	18	6.6	7.4	18	S	14	18	562	66	9	9
27	92	72	82	4	74	0	17	1	3	8	0	0.25	0.0	29.610	26	5.0	8.0	21	N	15	01	522	61	8	8
28	86	68	77	-1	65	0	12	1	8	0	0.00	0.0	29.735	35	4.3	7.9	21	N	15	36	763	90	1	2	
29	89	64	77	-1	68	0	12	1	8	0	0.00	0.0	29.780	18	3.1	5.7	15	S	12	20	754	89	1	1	
30	91	66	79	1	68	0	14	1	8	0	0.00	0.0	29.800	14	4.1	6.0	14	S	9	16	754	89	1	1	
31	94	71	83	5	73	0	18	23	8	0	0.72	0.0	29.735	21	9.6	11.8	51	SW	40	23	581	69	4	6	
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM			TOTAL	%	SUM	SUM
2776	2150					0	457	0		5.68	0.0	29.800	20	3.9	8.3	52	W	40	23	19999	74	182	184		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	0	60	PRECIPITATION		0.54						DATE: 15	DATE: 31	POSSIBLE	MONTH	AVG.	AVG.				
89.5	69.4	79.5	1.7	70.5		0	60	14										26897	74	5.9	5.9				
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF											
MAXIMUM TEMP.						TOTAL		≥ 1.0 INCH		PRECIPITATION		SNOW, ICE PELLETS		SNOW, ICE PELLETS OR ICE AND DATE											
≥ 90°						0		0		3		1.53 06 0.0		0											
≤ 32°						0		0		15		PARTLY CLOUDY 8 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. 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.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Hadden
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1992
RICHMOND, VA

13740

HOUR L.S.T.	SKY COVER (TENTHS)				VISI-BILITY	WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	SKY COVER (TENTHS)				VISI-BILITY	WEATHER	TEMPERATURE				WIND									
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF			WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES	16THS MILE	AIR OF	WET BULB OF			DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	
JUL 1st																																	
01	0	UNL	4		FH	73	70	70	90	18	7	10	110	3	F	70	70	70	100	00	00	0	5	UNL	7		F	66	65	64	93	10	5
04	8	UNL	4		FH	71	70	70	97	17	5	10	130	2	F	69	69	69	100	35	6	9	120	6		F	63	63	63	100	11	4	
07	10	UNL	2		FH	76	73	72	88	22	8	3	UNL	2	F	72	71	70	94	00	0	10	40	7		F	69	67	65	87	18	6	
10	10	200	6		H	82	76	73	74	19	7	10	9	2	F	75	72	71	87	04	6	10	35	7		F	64	65	60	62	15	6	
13	10	200	7			86	76	72	63	24	10	5	UNL	5	H	82	73	69	65	06	8	7	130	8			79	69	63	58	17	11	
16	6	UNL	7			88	77	73	61	21	11	4	UNL	5	H	83	74	69	63	06	7	10	36	7			81	73	69	67	14	8	
19	9	95	7			82	75	72	72	21	8	0	UNL	5	H	78	73	70	77	11	7	10	36	2		RWF	76	74	73	91	29	12	
22	10	70	3		RWF	70	70	70	100	08	6	3	UNL	5	FH	69	68	68	97	12	13	10	40	1	4	RWF	73	73	73	100	15	7	
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																																	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.37	0.73	1.09	1.28	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
ENDED: DATE	07	07	07	07	07	07	07	07	07	07	07	07
ENDED: TIME	0000	0000	0000	0005	0005	0005	0005	0005	0005	0005	0005	0005

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.

OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1992
RICHMOND, VA 13740

HOUR L.S.T.	VISI-BILITY			TEMPERATURE				WIND			HOUR L.S.T.	VISI-BILITY			TEMPERATURE				WIND																
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	HEATHER	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	HEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)												
JUL 19th												JUL 20th												JUL 21st											
01	10	150	4	F	73	73	73	100	20	5	0	UNL	5	F	71	70	69	93	28	5	0	UNL	6	F	73	71	70	90	19	5					
04	10	130	5	F	72	71	71	97	18	6	0	UNL	5	F	67	67	67	100	12	3	0	UNL	6	F	73	70	69	87	19	6					
07	3	UNL	6	F	75	73	72	90	21	5	0	UNL	2	8	F	72	71	70	94	00	0	0	UNL	6	F	77	72	70	79	24	7				
10	10	UNL	7		83	77	74	74	25	5	0	UNL	5	H	84	75	71	65	34	6	0	UNL	6	H	88	77	72	59	19	7					
13	5	UNL	7		88	78	74	63	16	8	1	UNL	6	H	89	73	65	45	36	8	6	65	6	H	93	79	73	52	17	5					
16	3	UNL	8		82	75	71	69	06	6	1	UNL	7		91	73	64	41	17	9	4	UNL	6	H	87	77	73	63	18	13					
19	5	UNL	8		76	73	71	85	14	6	3	UNL	7		83	74	70	65	19	7	5	UNL	6	H	81	75	72	74	17	7					
22	0	UNL	5	F	70	70	70	100	21	6	0	UNL	6	F	75	72	70	85	15	3	10	140	5	F	71	71	71	100	11	4					
JUL 22nd												JUL 23rd												JUL 24th											
01	10	60	4	F	72	71	71	97	18	4	10	140	3	F	71	71	71	100	00	0	4	UNL	6	H	72	71	70	94	26	7					
04	10	5	2	F	71	71	71	100	07	6	10	2	12	F	71	71	71	100	18	5	8	UNL	6	F	71	70	69	93	00	8					
07	10	130	2	F	72	72	72	100	03	4	10	45	2	F	72	72	72	100	17	6	10	11	6	RF	72	71	71	97	07	0					
10	7	12	2	F	79	75	73	82	04	7	10	8	1	8	F	77	75	74	91	19	10	10	150	3	H	78	75	73	85	10	5				
13	10	27	6	H	83	77	74	74	09	8	10	20	6	H	82	76	74	77	23	12	10	19	3	RWH	81	77	75	82	34	6					
16	10	130	6	H	83	77	74	74	10	8	8	200	6	H	84	78	75	75	20	10	10	9	5	H	76	74	73	91	07	12					
19	10	24	2	TRWF	72	72	72	100	19	10	5	UNL	6	H	82	77	75	79	20	11	10	11	8	H	74	72	71	90	09	8					
22	10	40	3	RF	72	72	72	100	16	3	10	23	6	H	75	70	68	79	04	8	10	70	8	H	72	71	71	97	09	5					
JUL 25th												JUL 26th												JUL 27th											
01	10	11	5	F	71	70	70	97	09	7	8	85	5	F	70	70	70	100	00	0	8	250	5	F	75	75	75	100	22	8					
04	10	15	5	F	71	70	70	97	00	0	10	10	4	F	70	70	70	100	16	4	10	250	5	F	75	74	73	94	22	7					
07	10	13	5	F	72	71	71	97	10	4	10	13	3	F	71	70	70	97	19	6	8	UNL	7	F	79	75	73	82	25	4					
10	10	15	8		79	74	72	79	14	4	10	13	8		77	72	70	79	19	8	6	120	8	H	87	78	74	65	26	7					
13	8	27	7		82	75	72	72	35	8	8	17	6	H	80	75	72	77	18	12	8	43	7	H	83	79	78	85	18	6					
16	6	45	8		81	75	72	74	01	13	10	150	6	H	86	78	74	68	19	9	10	50	5	RWF	78	76	75	91	13	3					
19	3	UNL	8		75	72	70	85	06	10	9	150	5	F	76	75	75	97	16	6	9	50	7		74	73	72	94	07	3					
22	9	90	7		71	71	71	100	06	6	10	95	5	F	77	76	76	97	20	7	10	120	7	R	72	72	72	100	19	6					
JUL 28th												JUL 29th												JUL 30th											
01	9	110	7		72	72	72	100	33	5	6	55	7		69	68	67	93	13	4	0	UNL	4	F	69	68	67	93	17	5					
04	5	UNL	7		70	69	69	97	32	6	0	UNL	5	F	68	68	68	100	17	3	0	UNL	4	F	68	68	68	100	24	4					
07	1	UNL	10		69	65	63	81	36	11	0	UNL	1	12	F	72	70	69	90	08	3	0	UNL	5	F	73	70	68	84	19	6				
10	0	UNL	10		75	66	61	62	36	10	0	UNL	6	H	81	73	69	67	07	7	0	UNL	6	H	84	73	67	57	03	7					
13	0	UNL	10		80	68	61	52	02	9	2	UNL	7	H	87	75	70	57	23	6	3	UNL	6	H	88	74	67	50	16	7					
16	3	UNL	10		83	70	62	49	00	0	3	UNL	7	H	88	73	66	48	20	10	0	UNL	6	H	91	74	65	42	12	4					
19	0	UNL	10		78	72	69	74	18	5	0	UNL	7		83	72	67	59	24	7	0	UNL	6	H	83	74	69	63	08	5					
22	0	UNL	7		70	69	68	93	12	4	0	UNL	7		74	71	69	85	16	4	0	UNL	5	FH	76	74	73	91	14	6					
JUL 31st												JUL 31st												JUL 31st											
01	4	UNL	4	FH	76	75	74	94	16	9																									
04	10	150	3	FH	76	75	74	94	19	9																									
07	4	UNL	2	8	FH	78	76	75	91	11																									
10	0	UNL	5	H	86	78	75	70	19	12																									
13	3	UNL	7		92	79	74	56	21	13																									
16	8	55	7		91	77	71	52	21	9																									
19	10	250	7		73	72	72	97	26	5																									
22	10	110	7		73	71	70	90	26	7																									

WEATHER CODES

- | | | |
|---------------------|------------------------|------------------|
| * TORNADO | SW SNOW SHOWERS | GF GROUND FOG |
| T THUNDERSTORM | SG SNOW GRAINS | BD BLOWING DUST |
| Q SQUALL | SP SNOW PELLETS | BN BLOWING SAND |
| R RAIN | IC ICE CRYSTALS | BS BLOWING SNOW |
| RW RAIN SHOWERS | IP ICE PELLETS | BY BLOWING SPRAY |
| ZR FREEZING RAIN | IPW ICE PELLET SHOWERS | K SMOKE |
| L DRIZZLE | A HAIL | H HAZE |
| ZL FREEZING DRIZZLE | F FOG | D DUST |
| S SNOW | IF ICE FOG | |

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).

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	6	29.800	73	72	71	92	6.5	20	3.9
04	6	29.790	72	71	70	95	6.2	21	3.6
07	6	29.820	75	72	70	87	7.2	21	3.5
10	6	29.830	83	74	70	68	9.3	21	3.5
13	6	29.800	87	75	70	59	10.5	22	5.4
16	6	29.770	86	75	70	60	11.1	19	4.9
19	6	29.780	81	74	72	75	8.3	18	5.0
22	6	29.805	75	73	72	90	7.6	17	4.5

