

JUN 1987
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' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FEET TIME ZONE EASTERN 13740

JUN 1987
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)					
	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	PEAK GUST SPEED	DIRECTION			FATEST 1-MIN SPEED	DIRECTION	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	67	78	8	68	0	13	1 3 8	0	1.27	0.0	29.820	22	2.2	6.0	47	SW	23	23	524	60	7	6	
02	87	66	77	7	67	0	12	1 1 8	0	0.00	0.0	29.810	31	3.7	5.9	18	NW	9	34	720	82	4	4	
03	90	68	79	8	69	0	14	1 3 8	0	1.45	0.0	29.840	13	3.2	7.9	43	NW	21	30	615	70	7	7	
04	80	65	73	2	68	0	8	2 3 8	0	0.98	0.0	29.850	01	4.1	6.3	28	NW	16	35	0	0	10	10	
05	80	59	70	-1	58	0	5		0	0.00	0.0	29.905	35	8.7	9.1	25	N	17	35	817	93	2	3	
06	82	58	70	-2	55	0	5		0	0.00	0.0	29.970	35	6.5	8.6	25	N	17	36	880	100	1	1	
07	90	58	74	-2	61	0	9		0	0.00	0.0	29.970	21	9.1	9.4	22	SW	15	22	880	100	7	5	
08	91	64	78	6	62	0	13		8	0.00	0.0	29.880	23	10.9	12.1	28	SW	21	21	881	100	5	5	
09	90	68	79	7	65	0	14	3 8	0	0.08	0.0	29.790	25	9.7	11.9	47	NW	18	33	636	72	10	9	
10	74	56	65*	-7	49	0	0		0	0.00	0.0	29.960	36	8.6	10.2	25	N	16	36	882	100	3	3	
11	80	52*	66	-7	54	0	1		0	0.00	0.0	29.980	20	6.0	6.9	20	SW	15	18	760	86	8	7	
12	89	65	77	4	66	0	12	1 3 8	0	0.70	0.0	29.790	21	10.2	12.0	53	NW	32	30	514	58	10	10	
13	87	67	77	4	70	0	12	1 1 8	0	0.01	0.0	29.710	21	11.0	11.2	24	SW	16	21	558	63	10	10	
14	83	67	75	2	69	0	10	1 1 8	0	T	0.0	29.710	19	5.7	6.0	16	SW	10	17	511	58	9	7	
15	93	67	80	6	69	0	15	1 1 8	0	0.00	0.0	29.700	22	8.1	8.6	23	SW	14	24	771	87	4	5	
16	87	71	79	5	71	0	14	3 8	0	0.00	0.0	29.685	25	2.7	6.7	18	SW	14	22	438	50	10	10	
17	89	64	77	3	66	0	12	1 3 8	0	0.04	0.0	29.820	08	4.4	8.5	20	W	14	08	769	87	9	9	
18	85	60	73	-1	59	0	8		0	0.00	0.0	29.950	13	4.7	6.3	18	SE	12	14	850	96	1	2	
19	89	60	75	1	64	0	10	1 8	0	0.00	0.0	29.850	17	5.9	6.6	20	SE	13	18	792	89	2	3	
20	94*	69	82	7	71	0	17	1 3 8	0	0.00	0.0	29.700	22	7.8	8.7	25	SW	16	24	660	75	5	6	
21	90	72	81	6	72	0	16	3 8	0	0.01	0.0	29.640	22	8.3	9.4	22	SW	17	22	618	70	8	8	
22	91	72	82	7	71	0	17	1 8	0	T	0.0	29.615	22	10.8	11.3	23	SW	20	22	802	91	8	7	
23	92	73	83*	8	71	0	18	1 3 8	0	0.09	0.0	29.610	25	8.0	9.8	24	W	17	25	665	75	6	7	
24	81	63	72	-3	65	0	7	1 8	0	T	0.0	29.750	04	6.2	8.6	17	NE	13	04	465	53	8	7	
25	88	61	75	0	62	0	10	1 8	0	0.00	0.0	29.710	18	1.1	6.3	16	E	13	11	803	91	3	4	
26	87	70	79	3	70	0	14	1 3 8	0	1.66	0.0	29.610	15	3.7	6.9	23	N	20	01	372	42	10	10	
27	88	67	78	2	63	0	13	1 8	0	0.00	0.0	29.580	30	5.5	8.4	21	N	15	31	756	86	4	5	
28	82	58	70	-6	54	0	5		0	0.00	0.0	29.800	25	2.9	5.2	20	SW	14	25	846	96	3	2	
29	89	59	74	-2	58	0	9		0	0.00	0.0	29.920	20	9.4	9.9	25	SW	15	20	883	100	2	2	
30	93	69	81	5	68	0	16		0	0.00	0.0	29.910	21	10.5	11.0	23	SW	15	24	883	100	0	0	
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM					
2610	1935					0	329			6.29	0.0	29.790	22	3.5	8.5	53	NW	32	30	20551		176	174	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	0	71	PRECIPITATION ≥ .01 INCH.	10	2.69								DATE: 12	DATE: 12	POSSIBLE		MONTH	AVG.	AVG.
87.0	64.5	75.8	2.3	64.4		0	71	SNOW, ICE PELLETS ≥ 1.0 INCH	0											26469	78	5.9	5.8	
NUMBER OF DAYS						SEASON TO DATE	TOTAL	GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE												
MAXIMUM TEMP.		MINIMUM TEMP.		4061	467	THUNDERSTORMS	11	PRECIPITATION	SNOW, ICE PELLETS															
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG	1	1.56	26	0	0													
10	0	0	0	101	97	CLEAR	9	PARTLY CLOUDY	9	CLOUDY	12													

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T 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
CLIMATIC DATA CENTER
ASHEVILLE NORTH CAROLINA

Kenneth D. Haden
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JUN 1987
RICHMOND, VA

13740

HOUR	L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISI-BILITY		WEATHER	TEMPERATURE				WIND			SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISI-BILITY		WEATHER	TEMPERATURE				WIND			SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISI-BILITY		WEATHER	TEMPERATURE				WIND		
				WHOLE MILES	16THS MILE		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)	AIR of	WET BULB of	DEW POINT of	REL HUMIDITY %			DIRECTION	SPEED (KNOTS)								
JUN 1st							JUN 2nd							JUN 3rd																							
01	0	UNL	6	H		69	68	67	93	20	3	7	4	2	8	F	70	70	70	100	27	8	8	0	UNL	6	F	70	69	68	93	00	0				
04	4	UNL	6	H		68	67	66	93	20	4	2	UNL	6	F	67	66	66	97	29	36	5	4	UNL	6	F	69	68	67	93	14	3					
07	2	UNL	7	H		73	71	70	90	22	4	5	UNL	7	F	68	67	67	97	36	5	5	5	UNL	6	H	74	71	69	85	18	4					
10	7	100	5	H		81	73	69	67	05	7	0	UNL	7	H	78	71	67	69	36	6	6	2	UNL	6	H	84	74	69	61	16	8					
13	7	UNL	5	H		86	74	68	55	21	6	4	UNL	8	H	85	71	64	50	29	3	3	6	40	7	H	88	77	72	59	16	11					
16	8	250	5	H		86	74	69	57	15	4	4	UNL	8	H	86	71	63	46	33	6	6	8	35	7	H	83	76	73	72	13	14					
19	10	250	6	RWH		71	70	69	93	32	8	6	250	10	RW	81	72	68	65	12	4	4	10	90	7	RW	70	69	68	93	06	6					
22	10	16	6	RWF		70	70	70	100	00	0	0	UNL	10		72	70	69	90	12	3	3	10	5	7		70	69	69	97	25	6					
JUN 4th							JUN 5th							JUN 6th																							
01	10	6	5	F		69	69	69	100	02	5	8	120	5	F	65	65	65	100	32	5	5	0	UNL	15		60	58	56	87	00	0					
04	10	1	0	4	F	68	68	68	100	13	5	10	3	1	8	65	64	64	97	36	7	7	0	UNL	12		58	56	55	90	32	3					
07	10	1	0	8	F	68	68	68	100	09	5	3	UNL	7		65	64	63	93	36	9	9	0	UNL	10		66	59	54	65	32	7					
10	10	10	2	H		74	71	69	85	03	4	0	UNL	10		73	65	59	62	35	12	12	0	UNL	10		77	64	55	47	34	14					
13	10	15	5	H		80	73	70	72	35	3	2	UNL	10		78	65	57	49	36	13	13	3	UNL	10		80	65	54	41	34	14					
16	10	9	1	8	RWH	68	67	67	97	35	14	1	UNL	15		79	64	53	41	34	8	8	1	UNL	10		81	65	54	39	04	14					
19	10	6	1	8	RWF	66	66	66	100	04	7	0	UNL	15		73	61	53	50	01	5	5	1	UNL	10		75	63	54	48	06	5					
22	10	6	7			66	65	65	97	35	6	0	UNL	15		63	60	57	81	00	0	0	2	UNL	10		63	60	58	84	00	0					
JUN 7th							JUN 8th							JUN 9th																							
01	0	UNL	10			62	59	56	81	19	4	0	UNL	10		70	64	60	71	21	6	6	10	250	7		74	67	63	69	23	8					
04	2	UNL	12			60	58	57	90	00	0	0	UNL	10		65	62	60	84	21	8	8	8	250	7		71	65	62	73	24	7					
07	10	7				65	62	60	84	21	6	3	UNL	10		71	65	61	71	26	9	9	10	UNL	6	H	75	66	61	62	24	13					
10	4	UNL	7			81	69	62	53	22	11	4	UNL	10		84	70	63	49	24	10	10	10	UNL	6	H	81	70	64	56	24	12					
13	8	UNL	10			87	71	62	43	19	11	4	UNL	7		90	72	62	39	23	12	12	10	250	6	H	89	73	65	45	26	14					
16	5	UNL	10			89	72	63	42	22	13	8	UNL	6	H	90	72	63	41	21	11	11	10	35	6	H	87	74	67	52	23	13					
19	7	UNL	10			79	69	64	60	21	8	9	UNL	6	H	83	72	66	57	22	11	11	10	50	6	H	73	70	69	87	30	5					
22	0	UNL	10			73	66	62	69	20	10	10	UNL	7		78	68	63	60	23	10	10	10	100	6	H	73	69	66	79	30	14					
JUN 10th							JUN 11th							JUN 12th																							
01	0	UNL	7			67	62	58	73	01	12	8	UNL	15		56	54	53	90	00	0	0	10	120	10		67	61	57	70	20	8					
04	2	UNL	10			58	53	49	72	01	9	3	UNL	15		53	52	51	93	00	0	0	7	UNL	10		65	60	57	76	20	11					
07	2	UNL	15			58	51	44	60	33	12	6	UNL	10		63	58	54	73	30	4	4	10	UNL	10		70	65	62	76	20	12					
10	0	UNL	15			64	54	45	50	36	14	8	UNL	10		76	62	52	43	18	6	6	10	250	6	H	80	71	67	65	21	13					
13	4	UNL	15			71	58	48	44	02	10	8	UNL	10		78	64	54	44	18	13	13	8	250	6	H	87	75	69	55	20	14					
16	4	UNL	15			73	60	49	43	34	8	10	UNL	10		80	65	55	42	21	12	12	10	100	6	H	86	75	70	59	22	14					
19	6	UNL	15			70	59	51	51	01	5	8	UNL	10		74	63	55	52	20	9	9	10	65	5	RW	73	70	69	87	27	9					
22	7	UNL	15			58	56	54	87	15	4	10	UNL	10		64	61	58	81	18	6	6	10	50	6	H	72	70	69	90	21	5					
JUN 13th							JUN 14th							JUN 15th																							
01	10	250	7			70	69	69	97	20	7	8	UNL	7		69	68	67	93	19	7	7	0	UNL	5	F	67	66	66	97	21	4					
04	10	100	7			70	69	69	97	20	5	8	UNL	4	F	68	67	67	97	17	4	4	0	UNL	3	F	67	67	67	100	19	4					
07	10	45	3	RW		72	71	70	94	21	7	10	12	2	8	69	68	67	93	22	6	6	0	UNL	1	8	F	74	72	71	90	20	5				
10	8	55	5	F		77	72	70	79	21	11	10	5	2	8	71	70	69	93	17	6	6	0	UNL	6	H	88	77	73	61	22	10					
13	10	200	7			85	75	71	63	23	14	10	21	2	8	77	72	70	79	16	4	4	5	UNL	7		92	76	68	46	24	11					
16	10	70	6	H		84	75	71	65	22	13	8	20	2	8	81	75	72	74	21	7	7	8	UNL	7		93	78	71	49	22	10					
19	10	250	6	H		79	73	70	74	21	12	3	UNL	3	H	77	72	70	79	20	7	7	10	250	6	H	85	76	72	65	22	8					
22	9	250	7			74	70	68	82	23	8	3	UNL	5	F	70	69	68	93	21	4	4	10	250	6	H	78	73	71	79	22	7					
JUN 16th							JUN 17th							JUN 18th																							
01	10	250	7			75	72	71	87	21	6	10	38	7	TRW	74	70	67	79	28	11	11	4	UNL	8		64	62	61	90	11	4					
04	10	100	7			74	72	71	90	00	0	10	250	6	F	72	71	71	97	20	5	5	1	UNL	7		61	60	60	97	00	0					
07	8	250	7			76	73	72	88	22	8	10	UNL	4	F	74	73	72	94	30	3	3	0	UNL	7		66	64	62	87	01	3					
10	10	100	5	H		84	76	73	70	34	5	8	UNL	8		83	72	66	57	03	10	10	0	UNL	10		78	68	62	58	16	5					
13	10	110	5	H		85	77	73	67	02	5	8	UNL	10		88	72	63	43	03	9	9	1	UNL	10		84	69	61	46	17	5					
16	10	100	5	H		83	76	73	72	02	7	7	UNL	10		84	74	69	61	09	11	11	0	UNL	10		84	69	60	44	14	10					
19	10	100	5	H		77	70	66	69	21	8	9	UNL	7		76	68	63	64	12	8	8	3	UNL	10		77	65	57	50	13	8					
22	10	100	6	H		73	71	70	90	20	4	9	UNL	10		68	64	61	78	12	7	7	7	UNL	10		68	61	56	66	15	4					

WEATHER CODES

* TORNADO	ZL FREEZING DRIZZLE	IPW ICE PELLET SHOWERS	BN BLOWING SAND
T THUNDERSTORM	S SNOW	A HAIL	BS BLOWING SNOW
O SQUALL	SN 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

JUN 1987
RICHMOND, VA

13740

HOUR L.S.T.	VISI-BILITY				TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY				TEMPERATURE				WIND													
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR of	MET 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	MET 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	MET BULB of	DEW POINT of	REL HUMIDITY %	DIRECTION
JUN 19th																																	
01	3	UNL	10			63	60	58	84	15	4	7	UNL	7			74	72	71	90	24	6	10	70	7			80	72	68	67	24	9
04	4	UNL	7			62	61	60	93	15	3	6	UNL	5		H	71	70	70	97	18	5	8	UNL	7			74	71	70	87	21	7
07	7	UNL	6		H	58	66	64	87	20	5	5	UNL	5		H	75	73	72	90	21	10	10	10	7			75	72	71	87	22	7
10	0	UNL	8			82	72	66	59	11	5	3	UNL	6			86	77	73	65	21	10	8	90	7			83	76	73	72	21	12
13	3	UNL	10			87	71	62	43	15	9	8	100	7			89	76	70	54	21	10	8	35	7			90	77	71	54	25	8
16	0	UNL	8			88	72	63	43	17	8	6	250	8			93	76	69	46	20	9	8	250	7			82	76	73	74	20	10
19	3	UNL	8			83	73	68	61	20	6	8	100	8			85	74	69	59	24	14	9	300	7			81	77	75	82	19	4
22	8	250	7			74	71	69	85	18	3	10	60	10			78	73	71	79	19	5	8	300	7			79	76	75	88	24	4
JUN 20th																																	
JUN 21st																																	
JUN 22nd																																	
JUN 23rd																																	
JUN 24th																																	
JUN 25th																																	
JUN 26th																																	
JUN 27th																																	
JUN 28th																																	
JUN 29th																																	
JUN 30th																																	

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)	WIND		
			AIR TEMP of	MET BULB of	DEW POINT of					DIRECTION	SPEED (MPH)	
01	5	29.790	69	66	64	86	6.6	23	3.4			
04	5	29.790	67	65	64	91	5.6	21	2.4			
07	6	29.820	70	67	65	84	8.1	24	3.9			
10	5	29.830	79	70	65	62	10.5	24	2.9			
13	6	29.800	85	71	64	51	10.7	23	4.1			
16	6	29.760	84	71	64	54	11.3	21	4.0			
19	6	29.765	77	69	65	67	8.4	20	3.3			
22	6	29.800	71	67	65	81	6.5	21	3.9			

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUN 1987
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																	0.50	0.52	0.15	0.06	0.04	T		01	
02																									02
03																									03
04																									04
05																									05
06																									06
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28																									28
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30																									30

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.46	0.50	0.58	0.62	0.70	0.84	1.05	1.16	1.38	1.43	1.44	1.45
ENDED: DATE	03	03	03	03	03	03	03	03	03	26	26	26
ENDED: TIME	1630	1635	1640	1645	1645	1650	1659	1724	1746	1759	1822	1858

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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