

OCT 1986
 RICHMOND, VA
 NAT'L WEATHER OFFICE
 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

OCT 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 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															
01	93	70	82	18	68	0	17	1	8	0	0.00	0.0	29.820	24	8.3	8.9	15	24	687	97	2	2	01												
02	91	69	80	16	66	0	15	1	8	0	0.00	0.0	29.810	28	5.0	6.6	12	32	563	80	5	4	02												
03	91	63	77	13	67	0	12	1	8	0	0.00	0.0	29.810	20	7.2	8.3	17	19	652	93	6	5	03												
04	94*	74	84*	21	68	0	19	1	8	0	0.00	0.0	29.610	25	13.4	13.7	20	26	638	91	4	3	04												
05	83	61	72	9	62	0	7	1	8	0	0.00	0.0	29.590	32	3.3	8.1	15	23	590	84	6	4	05												
06	70	52	61	-1	40	4	0	1	8	0	0.00	0.0	29.810	34	6.5	9.3	18	01	649	93	3	4	06												
07	68	42	55	-7	39	10	0	1	8	0	0.00	0.0	30.050	03	3.3	6.8	12	04	694	100	0	2	07												
08	81	50	66	5	57	0	1	1	8	0	0.00	0.0	30.005	17	5.0	6.1	10	18	457	66	6	6	08												
09	76	62	69	8	65	0	4	1	8	0	0.02	0.0	29.915	20	2.8	4.5	8	21	433	63	10	9	09												
10	64	47	56	-5	47	9	0	1	8	0	0.00	0.0	30.090	03	13.8	14.0	20	01	220	32	10	9	10												
11	67	44	56	-4	48	9	0	1	8	0	0.00	0.0	30.150	03	10.5	11.4	16	07	633	92	6	3	11												
12	74	50	62	2	54	3	0	1	8	0	0.00	0.0	30.060	08	2.2	6.8	9	08	572	84	9	8	12												
13	70	59	65	5	63	0	0	2	8	0	0.95	0.0	29.870	17	3.0	5.3	8	07	0	0	10	10	13												
14	80	58	69	10	61	0	4	1	3	0	0.28	0.0	29.640	27	8.0	10.8	16	32	494	73	9	9	14												
15	61	44	53	-6	39	12	0	1	8	0	0.00	0.0	29.890	36	5.5	6.6	10	03	626	93	6	7	15												
16	63	40	52	-6	38	13	0	1	8	0	0.00	0.0	29.900	02	3.7	5.6	9	01	601	89	2	2	16												
17	62	41	52	-6	42	13	0	1	8	0	0.00	0.0	29.950	35	2.2	3.7	10	02	554	83	8	6	17												
18	61	41	51	-7	41	14	0	1	8	0	0.00	0.0	30.190	36	9.2	9.5	16	02	591	88	3	2	18												
19	62	37	50*	-7	37	15	0	1	8	0	0.00	0.0	30.205	36	6.9	7.1	13	02	666	100	0	0	19												
20	66	35*	51	-6	36	14	0	1	8	0	0.00	0.0	30.080	34	5.0	5.4	13	30	650	98	0	0	20												
21	71	37	54	-3	38	11	0	1	8	0	0.00	0.0	30.010	28	1.9	3.8	9	28	662	100	1	1	21												
22	76	44	60	4	49	5	0	1	8	0	0.00	0.0	30.000	18	3.6	4.8	10	19	659	100	0	1	22												
23	79	49	64	8	53	1	0	1	8	0	0.00	0.0	29.985	23	4.7	5.7	10	22	545	83	7	7	23												
24	74	53	64	8	52	1	0	1	8	0	0.00	0.0	30.000	04	4.9	6.5	12	04	577	88	8	8	24												
25	61	53	57	2	53	8	0	1	8	0	0.32	0.0	30.015	07	7.0	7.8	14	12	331	51	10	10	25												
26	69	56	63	8	63	2	0	2	8	0	0.86	0.0	29.765	18	1.9	6.8	10	16	268	40	10	10	26												
27	70	58	64	9	59	1	0	2	8	0	0.00	0.0	29.700	25	4.0	5.9	9	30	495	76	9	7	27												
28	71	50	61	7	49	4	0	1	8	0	0.00	0.0	29.940	30	3.3	5.4	9	30	603	93	1	2	28												
29	69	44	57	3	48	8	0	1	8	0	0.00	0.0	30.010	20	7.8	8.1	15	22	452	70	9	7	29												
30	72	50	61	7	49	4	0	1	8	0	0.00	0.0	30.030	01	4.2	7.0	13	03	578	90	3	4	30												
31	63	44	54	0	44	11	0	1	8	0	0.00	0.0	30.390	05	7.8	9.3	14	12	621	97	2	2	31												
SUM		SUM		TOTAL		TOTAL		NUMBER OF DAYS		TOTAL		TOTAL		FOR THE MONTH:				TOTAL		%		SUM		SUM											
2252		1577		172		79		172		79		2.43		0.0		29.945		33		1.4		7.4		20		01		16761		FOR		165		154	
AVG.		AVG.		AVG.		DEP.		DEP.		PRECIPITATION		DEP.		DATE: 10+		POSSIBLE		MONTH		AVG.		AVG.		AVG.		AVG.		AVG.		AVG.					
72.6		50.9		61.8		3.2		51.4		-49		56		5		-1.31								20882		80		5.3		5.0					
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF																					
						TOTAL		TOTAL						SNOW, ICE PELLETS																					
						212		1603		THUNDERSTORMS				1																					
MAXIMUM TEMP.						MINIMUM TEMP.		DEP.		DEP.		HEAVY FOG		3																					
5 90°						2 32°		2 32°		2 0°		1 23		13-14		0 0																			
4						0		0		-33		267		CLEAR		12		PARTLY CLOUDY		8 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.

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, ASHEVILLE, NORTH CAROLINA, 28801

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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. Walden
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

OCT 1986
RICHMOND, VA

13740

HOUR I.S.T.	VISI-BILITY			TEMPERATURE			WIND			VISI-BILITY			TEMPERATURE			WIND														
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	WET BULB OF	DEW POINT OF	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	WET BULB OF	DEW POINT OF	DIRECTION	SPEED (KNOTS)														
OCT 1st																														
01	0	UNL	5	H	75	72	71	87	24	7	0	UNL	5	H	75	70	68	79	23	7	2	UNL	7	F	69	68	68	97	01	4
04	0	UNL	4	FH	71	70	69	93	23	6	2	UNL	5	H	73	70	68	84	26	7	0	UNL	7	F	66	66	66	100	00	0
07	0	UNL	4	H	72	69	68	87	24	7	8	100	5	H	73	70	68	84	26	6	2	UNL	3	F	66	65	64	93	00	0
10	0	UNL	4	H	85	74	69	59	26	8	9	100	7	H	82	72	67	61	28	9	6	UNL	6	F	83	72	67	59	21	9
13	0	UNL	7		91	74	65	42	28	9	2	UNL	7		89	72	63	42	32	10	5	UNL	7		88	72	63	43	19	15
16	3	UNL	7		90	73	64	42	24	13	5	UNL	8		89	71	61	39	34	7	9	120	7		87	73	66	50	19	10
19	2	UNL	7		80	73	69	69	21	7	3	UNL	12		75	69	65	71	16	3	9	250	7		76	71	69	79	19	5
22	8	UNL	5	H	78	72	69	74	22	8	3	UNL	10		71	67	65	81	12	3	5	UNL	7		79	72	69	72	21	9
OCT 2nd																														
OCT 3rd																														
OCT 4th																														
OCT 5th																														
OCT 6th																														
OCT 7th																														
OCT 8th																														
OCT 9th																														
OCT 10th																														
OCT 11th																														
OCT 12th																														
OCT 13th																														
OCT 14th																														
OCT 15th																														
OCT 16th																														
OCT 17th																														
OCT 18th																														

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- O 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

OCT 1986
RICHMOND, VA 13740

HOUR L.S.T.	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	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)																																											
OCT 19th																						OCT 20th																						OCT 21st																					
01	0	UNL	10			40	40	39	96	35	6	0	UNL	10			39	39	38	96	00	0	0	UNL	8			40	39	38	93	00	0																																
04	0	UNL	8			39	38	37	93	35	8	0	UNL	10			38	37	35	89	33	4	0	UNL	7			38	38	37	96	31	3																																
07	0	UNL	7			38	37	36	93	36	7	0	UNL	10			37	36	34	89	34	4	0	UNL	7			39	38	37	93	27	3																																
10	0	UNL	15			53	46	39	59	36	8	0	UNL	15			57	47	35	44	01	9	2	UNL	15			61	49	36	40	02	6																																
13	0	UNL	15			59	48	35	41	02	11	0	UNL	15			64	49	32	30	30	11	2	UNL	15			68	52	35	30	32	6																																
16	0	UNL	15			61	48	32	34	36	8	1	UNL	15			65	50	33	30	32	8	0	UNL	15			69	52	33	27	28	8																																
19	0	UNL	15			49	44	38	66	36	3	0	UNL	15			49	44	38	66	00	0	0	UNL	15			53	48	43	69	17	4																																
22	0	UNL	15			41	39	37	86	00	0	0	UNL	15			41	40	38	89	00	0	0	UNL	15			51	46	40	66	22	3																																
OCT 22nd																						OCT 23rd																						OCT 24th																					
01	5	UNL	8			47	45	42	83	22	3	3	UNL	7			55	54	53	93	00	0	6	UNL	8			56	54	53	90	35	4																																
04	0	UNL	8			46	44	42	86	23	3	5	UNL	5			52	52	52	100	00	0	0	100	7			56	54	53	90	34	3																																
07	3	UNL	7			46	45	43	89	00	0	7	250	2	8		51	51	51	100	20	5	9	100	7			55	53	52	90	36	5																																
10	0	UNL	7			67	58	50	55	32	4	5	UNL	5			65	60	56	73	21	5	2	UNL	7			69	59	51	53	02	3																																
13	0	UNL	7			76	62	52	43	20	6	9	100	6			77	64	56	48	22	9	10	UNL	7			74	61	51	45	36	7																																
16	0	UNL	7			74	62	54	50	19	8	8	250	7			77	62	52	42	28	8	10	UNL	7			72	60	50	46	07	6																																
19	3	UNL	7		H	61	57	54	78	14	5	10	100	10			65	59	54	68	21	6	8	UNL	7			63	58	54	73	10	8																																
22	0	UNL	7			57	55	53	87	17	3	10	100	10			67	60	54	63	31	6	7	UNL	5			57	55	54	90	09	4																																
OCT 25th																						OCT 26th																						OCT 27th																					
01	10	200	4		F	56	55	55	97	07	6	10	4	5			56	56	56	100	09	6	10	0	0	4	F	62	62	62	100	35	4																																
04	10	80	4		F	55	55	54	97	05	7	10	4	4			60	60	60	100	15	6	10	0	1		F	62	62	62	100	27	6																																
07	10	65	4		RF	55	54	53	93	06	9	10	4	2			62	62	62	100	15	8	10	4	1		F	61	60	60	97	25	6																																
10	10	80	6		RF	56	54	53	90	05	8	10	5	1	8		63	63	63	100	18	6	10	9	2		F	63	61	60	90	28	6																																
13	10	120	7			61	55	50	67	12	12	10	5	6			68	66	65	90	22	8	10	19	7			66	61	58	76	26	6																																
16	10	100	7		R	55	53	52	90	09	5	10	6	6			68	67	66	93	23	5	4	UNL	7			68	63	59	73	16	7																																
19	10	40	7		RF	54	54	53	96	04	7	10	1	0	8		64	64	64	100	35	5	3	UNL	7			60	59	58	93	17	4																																
22	10	9	6		RF	55	55	55	100	06	8	10	0	0	2		63	63	63	100	34	4	3	UNL	7			60	56	53	78	28	7																																
OCT 28th																						OCT 29th																						OCT 30th																					
01	10	100	8			59	54	50	72	28	5	0	UNL	15			49	48	47	93	18	4	10	200	8			55	52	50	83	25	7																																
04	5	UNL	10			54	52	50	86	31	4	2	UNL	10			44	44	44	100	17	4	10	200	6			52	51	49	90	25	4																																
07	1	UNL	10			53	50	48	83	31	4	3	UNL	7			45	45	44	96	18	4	6	200	6		F	52	51	50	93	26	4																																
10	0	UNL	10			64	55	48	56	29	8	10	250	7			58	54	51	78	20	7	5	UNL	8			66	57	50	57	01	9																																
13	3	UNL	15			69	57	46	44	32	6	10	250	7			68	58	49	51	20	12	2	UNL	10			70	59	51	51	03	9																																
16	0	UNL	15			70	57	45	41	31	5	10	200	7			66	56	48	53	21	11	3	UNL	10			70	59	51	51	03	6																																
19	0	UNL	15			55	53	51	87	15	4	8	200	10			59	54	50	72	19	8	0	UNL	12			60	54	48	65	04	6																																
22	0	UNL	15			52	50	48	86	18	4	10	200	8			54	52	50	86	20	8	0	UNL	15			52	49	46	80	01	6																																
OCT 31st																																																																	
01	0	UNL	15			50	48	46	86	04	6																																																						
04	0	UNL	15			47	46	44	89	02	9																																																						
07	0	UNL	15			44	43	41	89	02	7																																																						
10	0	UNL	15			54	48	42	64	06	11																																																						
13	6	30	15			61	53	46	58	09	9																																																						
16	2	UNL	15			61	52	43	52	10	8																																																						
19	0	UNL	15			51	48	45	80	06	6																																																						
22	5	UNL	15			49	48	46	90	02	6																																																						

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES						RESULTANT WIND	
		STATION PRESSURE (INCHES)	TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	5	29.930	56	54	52	88	5.9	32	1.3
04	4	29.930	54	53	51	90	6.4	33	1.5
07	5	29.955	54	52	51	90	6.4	34	2.0
10	5	29.980	65	58	51	64	9.5	36	3.0
13	6	29.940	70	59	51	52	10.5	32	2.0
16	5	29.920	70	59	50	52	9.1	29	2.2
19	5	29.940	61	57	53	75	6.3	08	0.6
22	4	29.960	57	54	51	82	6.5	33	0.4

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

OCT 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																									02
03																									03
04																									04
05																									05
06																									06
07																									07
08																									08
09									0.01	0.01															09
10																									10
11																									11
12																									12
13																									13
14	T	T	0.06	T		0.04	0.09	0.09	T	T	T	T	0.02	0.14	0.24	0.33	T					T	0.10	0.12	14
15																									15
16																									16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25					T	0.02	T	T	0.01	0.02	T	T	T	T	0.02	0.03	0.02	0.03	0.03	0.05	T	T	T	0.09	25
26	0.03	0.07	0.03	0.05	T	T	0.05	0.15	0.05	0.26	0.17	T	T	T	T	T	T	T	T	T	T	T	T	T	26
27																									27
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)	0.05	0.08	0.12	0.15	0.20	0.29	0.37	0.45	0.52	0.60	0.64	0.71
ENDED: DATE	26	26	26	26	13	13	13	13	13	13	13	13
ENDED: TIME	0949	0949	0955	1000	1540	1542	1542	1542	1542	1542	1542	1559

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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