



LOCAL CLIMATOLOGICAL DATA
 U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 ENVIRONMENTAL DATA SERVICE

RICHMOND, VIRGINIA
 NATIONAL WEATHER SERVICE OFC
 R.E. BYRD INTERNATIONAL AP.
 OCTOBER 1975

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FT. STANDARD TIME USED: EASTERN WBAN #13740

DATE	TEMPERATURE °F								WEATHER TYPES ON DATES OF OCCURRENCE	SNOW, ICE PELLETS OR ICE ON GROUND AT 07AM	PRECIPITATION		AVG. STATION PRESSURE IN. ELEV. FEET M.S.L.	WIND				SUNSHINE		SKY COVER TENTHS		DATE	
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65°		WATER EQUIVALENT			SNOW, ICE PELLETS	RESULTANT DIRECTION		RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST M.P.H.	DIRECTION	MINUTES	PERCENT OF 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	
1	77	55	66	1	63	0	1	2	8	0	0	0	29.89	02	2.5	2.7	5	E	67	9	10	9	1
2	69	49	59	-5	54	6	0	1	8	0	0	0	29.87	35	7.6	8.2	17	E	12	2	9	7	2
3	63	38	51	-13	38	14	0	0	0	0	0	0	30.27	35	3.0	3.3	10	ME	684	97	4	2	3
4	73	36	55	-9	44	10	0	0	0	0	0	0	30.22	06	1.7	3.6	6	NE	591	84	8	7	4
5	74	42	58	-5	54	7	0	1	8	0	0	0	30.13	08	2.0	3.3	9	E	319	46	9	8	5
6	82	56	68	6	57	0	4	1	8	0	0	0	29.94	34	1.3	3.3	8	W	588	84	7	7	6
7	76	50	63	1	52	2	0	0	8	0	0	0	30.01	01	3.3	4.8	9	SE	386	56	9	6	7
8	70	47	59	-3	55	5	0	1	8	0	0	0	30.02	12	2.8	3.5	11	SE	170	25	10	8	8
9	66	59	63	1	61	2	0	1	8	0	0	0	29.98	07	3.7	4.6	10	SE	0	0	10	10	9
10	74	60	67	6	60	0	2	1	8	0	0	0	30.00	34	3.6	4.0	8	SE	98	14	9	10	10
11	81	60	71	10	62	0	6	2	8	0	0	0	29.89	23	4.1	5.5	13	SW	380	55	5	5	11
12	71	45	58	-3	49	7	0	0	0	0	0	0	29.93	34	7.7	8.1	16	N	683	100	0	0	12
13	76	42	59	-1	49	6	0	1	8	0	0	0	29.98	27	3.5	5.0	8	W	680	100	0	0	13
14	87*	50	69	8	57	0	4	8	0	0	0	0	29.88	21	2.0	4.6	10	NW	521	77	4	4	14
15	86	63	75*	15	60	0	10	8	0	0	0	0	29.82	22	4.7	5.3	10	SW	648	96	3	3	15
16	86	61	74	15	63	0	9	13	8	0	0	0	29.81	25	4.9	7.2	10	SW	252	37	8	7	16
17	76	57	67	8	60	0	2	1	8	0	0	0	29.74	07	6.7	9.4	15	SE	0	0	10	10	17
18	80	61	71	13	65	0	6	8	0	0	0	0	29.58	16	8.8	9.5	13	S	182	27	9	9	18
19	70	55	63	5	55	2	0	2	8	0	0	0	29.72	15	4.0	4.2	8	S	76	11	9	7	19
20	69	47	58	0	44	7	0	0	0	0	0	0	29.79	26	7.8	8.3	15	W	552	83	3	1	20
21	77	43	60	3	45	5	0	0	0	0	0	0	29.86	21	5.1	5.8	11	S	644	97	0	0	21
22	82	45	64	7	50	1	0	0	0	0	0	0	29.80	15	2.0	3.0	7	SW	659	100	0	0	22
23	83	47	65	8	52	0	0	2	8	0	0	0	29.94	12	1.1	2.0	9	SW	599	91	0	1	23
24	75	57	66	10	63	0	1	2	8	0	0	0	30.02	36	6.7	7.2	13	N	36	5	10	10	24
25	80	60	70	14	66	0	5	1	8	0	0	0	29.82	27	2.8	5.5	9	N	215	33	8	7	25
26	71	54	63	7	56	2	0	1	8	0	0	0	29.87	35	6.5	6.6	16	N	44	7	9	8	26
27	65	53	59	3	53	6	0	0	0	0	0	0	29.96	35	5.5	5.6	10	N	19	3	10	10	27
28	76	55	66	11	58	0	1	1	8	0	0	0	30.03	15	2.3	3.0	7	S	433	67	5	5	28
29	73	54	64	9	56	1	0	1	8	0	0	0	29.95	15	2.3	3.5	3	E	106	16	9	4	29
30	61	40	51	-4	36	14	0	1	8	0	0	0	30.02	34	13.9	14.1	19	N	470	73	3	4	30
31	54	30*	42*	-12	27	23	0	0	0	0	0	0	30.25	34	4.4	5.3	11	N	593	93	5	3	31
SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
2303	1571				121	51		NUMBER OF DAYS	3.10	0	29.93	33	1.1	5.5	19	N	10707	FOR	195	176			
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION									DATE: 30	POSSIBLE	MONTH	AVG.	AVG.		
74.3	50.7	62.5	3.2	54	-82	24		>.01 INCH	7	0.16									20882	51	6.3	5.7	
NUMBER OF DAYS		TOTAL		TOTAL		SNOW, ICE PELLETS > 1.0 INCH		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE													
MAXIMUM TEMP.	MINIMUM TEMP.	148	1415	THUNDERSTORMS	1	PRECIPITATION	SNOW, ICE PELLETS																
> 90 °	< 32 °	< 32 °	< 0 °	DEP.	DEP.	HEAVY FOG X	5	1.88	16-17	0													
0	0	1	0	-76	62	CLEAR	8	PARTLY CLOUDY	6	CLOUDY	17												

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

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		
1																									1	
2																									2	
3																									3	
4																									4	
5																									5	
6																									6	
7																									7	
8																									8	
9	.01	.04	.22	.01				.01	T	T	.01	.01	.01	.01	T	T	.01	T	.01	T	.01	.20	.01	T	.04	9
10																										10
11																										11
12																										12
13																										13
14																										14
15																										15
16	.21	T										.01	.20	.25	.02	.07	.09	.19	T	T	T	.19	.15	.07	.43	16
17																										17
18																										18
19																										19
20																										20
21																										21
22																										22
23																										23
24	.02	.02	T	T	.01	T	.01	.01																	.02	24
25																										25
26																										26
27	T	T																							T	27
28																										28
29																										29
30			.08	.16	.01																					30
31																										31

* EXTREME TEMPERATURES FOR THE MONTH, MAY BE THE LAST OF MORE THAN ONE OCCURRENCE.
 - BELOW ZERO TEMPERATURE OR NEGATIVE DEPARTURE FROM NORMAL.
 * 70° AT ALASKAN STATIONS.
 * ALSO ON AN EARLIER DATE, OR DATES.
 X HEAVY FOG RESTRICTS VISIBILITY TO 1/4 MILE OR LESS.
 T IN THE HOURLY PRECIPITATION TABLE AND IN COLUMNS 9, 10, AND 11 INDICATES AN AMOUNT TOO SMALL TO MEASURE.
 THE SEASON FOR DEGREE DAYS BEGINS WITH JULY FOR HEATING AND JANUARY FOR COOLING.
 DATA IN COLUMNS 6, 12, 13, 14, AND 15 ARE BASED ON 8 OBSERVATIONS PER DAY AT 3-HOUR INTERVALS.
 WIND DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS. RESULTANT WIND IS THE VECTOR SUM OF WIND DIRECTIONS AND SPEEDS DIVIDED BY THE NUMBER OF OBSERVATIONS.
 FIGURES FOR DIRECTIONS ARE TENS OF DEGREES FROM TRUE NORTH: 1-E, 09-EAST, 18-SOUTH, 27-WEST, 36-NORTH, AND 00-CAL. WHEN DIRECTIONS ARE IN TENS OF DEGREES IN COL. 17, ENTRIES IN COL. 16 ARE FASTEST OBSERVED 1-MINUTE SPEEDS. IF THE / APPEARS IN COL. 17, SPEEDS ARE DUSTS.
 ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE INDICATED IN THE ANNUAL SUMMARY.

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William H. Haggard
 DIRECTOR, NATIONAL CLIMATIC CENTER

SUMMARY BY HOURS

HOUR	LOCAL TIME	SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE</			
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OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	TEMPERATURE				WIND				SKY COVER	VISIBILITY	WEATHER	TEMPERATURE				WIND				SKY COVER	VISIBILITY	WEATHER	TEMPERATURE				WIND																																				
	AIR °F	WET BULB °F	DEW PT. °F	REL. HUM. %	DIR	SPEED KNOTS	DIR	SPEED KNOTS				AIR °F	WET BULB °F	DEW PT. °F	REL. HUM. %	DIR	SPEED KNOTS	DIR	SPEED KNOTS				AIR °F	WET BULB °F	DEW PT. °F	REL. HUM. %	DIR	SPEED KNOTS	DIR	SPEED KNOTS	AIR °F	WET BULB °F	DEW PT. °F	REL. HUM. %	DIR	SPEED KNOTS																											
DAY 01																																																															
01	0	UML	3	2	8	61	60	60	97	36	5	8	120	6	FH	61	60	60	97	00	0	0	UML	12	63	61	60	90	33	7	DAY 02																																
04	0	UML	3	2	8	61	60	60	97	34	5	10	1	0	12	60	60	60	100	00	0	0	UML	10	54	53	52	93	00	4	DAY 03																																
07	0	UML	3	2	8	61	60	60	97	35	5	10	16	0	12	60	60	60	100	20	4	0	UML	10	52	48	47	83	35	7	DAY 04																																
10	0	UML	3	2	8	65	62	60	84	00	0	10	40	4	H	69	64	61	76	30	9	0	UML	12	64	63	63	97	00	0	DAY 05																																
13	0	UML	3	2	8	72	65	60	66	35	4	3	UML	4	H	77	69	64	64	26	8	0	UML	12	70	66	64	93	14	5	DAY 06																																
16	0	UML	3	2	8	71	65	61	81	26	4	0	UML	7	H	80	68	61	82	27	7	0	UML	12	80	68	61	82	27	7	DAY 07																																
19	0	UML	3	2	8	67	63	61	81	26	4	0	UML	7	H	65	64	63	93	14	5	0	UML	12	65	64	63	93	14	5	DAY 08																																
22	0	UML	3	2	8	63	62	62	97	00	0	0	UML	5	GFH	66	64	63	90	25	5	0	UML	12	66	64	63	90	25	5	DAY 09																																
DAY 10																																																															
01	0	UML	3	2	8	48	47	46	93	35	4	0	UML	10	H	53	52	51	93	19	4	5	UML	8	67	62	59	76	22	5	DAY 11																																
04	0	UML	3	2	8	47	46	45	93	26	3	0	UML	7	H	54	53	52	93	00	0	3	UML	7	63	60	58	84	24	3	DAY 12																																
07	0	UML	3	2	8	65	56	48	54	29	7	0	UML	6	H	77	66	58	54	23	3	4	UML	7	74	65	60	62	25	5	DAY 13																																
10	0	UML	3	2	8	73	59	48	41	30	5	2	UML	7	H	87	70	61	42	12	8	3	UML	7	82	66	62	51	25	3	DAY 14																																
13	0	UML	3	2	8	71	59	50	48	26	8	9	UML	7	H	85	68	59	41	31	8	2	UML	7	85	67	58	40	23	6	DAY 15																																
16	0	UML	3	2	8	80	57	54	81	20	5	7	UML	7	H	74	66	62	66	00	0	2	UML	7	73	65	61	66	15	7	DAY 16																																
19	0	UML	3	2	8	55	53	52	90	19	3	7	UML	7	GFH	69	65	62	79	22	5	2	UML	7	70	64	60	71	20	7	DAY 17																																
22	0	UML	3	2	8	61	60	60	97	00	0	0	UML	5	GFH	61	60	60	97	00	0	0	UML	12	63	61	60	90	33	7	DAY 18																																
DAY 19																																																															
01	0	UML	3	2	8	69	67	66	90	23	8	10	15	4	RF	61	60	59	93	02	5	10	18	8	75	72	70	85	16	11	DAY 20																																
04	0	UML	3	2	8	64	63	63	97	18	5	10	25	6	F	58	58	57	93	03	7	5	UML	7	65	61	59	81	17	10	DAY 21																																
07	0	UML	3	2	8	62	61	61	97	22	4	10	12	7	F	57	56	53	87	05	9	9	UML	8	73	71	70	90	13	9	DAY 22																																
10	0	UML	3	2	8	78	68	64	62	25	4	10	8	6	F	60	57	54	81	04	6	9	UML	7	76	71	60	76	18	10	DAY 23																																
13	0	UML	3	2	8	85	70	62	46	22	8	10	12	1	B RF	61	59	58	90	05	8	7	UML	10	79	67	60	52	18	7	DAY 24																																
16	0	UML	3	2	8	79	68	63	58	24	5	10	5	2	RF	65	63	62	90	06	8	9	UML	10	76	67	61	60	14	7	DAY 25																																
19	0	UML	3	2	8	71	65	62	73	33	8	10	40	5	RF	71	68	67	87	13	10	10	35	7	70	66	63	79	13	8	DAY 26																																
22	0	UML	3	2	8	64	62	61	90	32	7	10	11	8	F	74	71	70	87	14	12	9	120	7	63	61	60	90	13	4	DAY 27																																
DAY 28																																																															
01	0	UML	3	2	8	60	59	58	93	12	4	0	UML	10	H	54	52	50	86	21	5	0	UML	10	50	47	44	80	25	5	DAY 29																																
04	0	UML	3	2	8	55	55	55	100	00	0	0	UML	8	H	50	47	45	83	25	6	0	UML	8	50	47	45	77	24	5	DAY 30																																
07	0	UML	3	2	8	58	57	57	96	00	0	0	UML	8	H	48	46	43	83	25	8	1	UML	8	49	46	43	80	25	3	DAY 31																																
10	0	UML	3	2	8	63	60	58	84	15	3	0	UML	12	H	59	51	43	56	27	9	0	UML	8	65	54	45	49	20	5	DAY 32																																
13	0	UML	3	2	8	70	60	52	53	17	6	6	35	12	H	66	53	41	40	27	14	0	UML	10	75	58	46	34	20	7	DAY 33																																
16	0	UML	3	2	8	68	59	53	59	13	7	6	45	12	H	65	53	41	42	27	12	0	UML	10	77	59	45	32	19	7	DAY 34																																
19	0	UML	3	2	8	88	56	54	87	14	9	6	55	12	H	88	56	54	87	14	9	0	UML	12	87	59	54	52	17	3	DAY 35																																
22	0	UML	3	2	8	55	53	52	90	16	5	0	UML	12	H	51	47	44	77	22	4	0	UML	12	58	52	47	67	18	5	DAY 36																																
DAY 37																																																															
01	0	UML	3	2	8	53	50	47	80	18	3	0	UML	7	H	52	51	50	93	00	0	10	1	0	1	59	58	58	97	06	4	DAY 38																															
04	0	UML	3	2	8	55	50	46	72	19	4	0	UML	6	H	50	48	47	88	00	0	10	2	0	12	59	58	58	97	04	4	DAY 39																															
07	0	UML	3	2	8	46	45	45	96	00	0	4	UML	3	H	49	48	47	93	00	0	10	2	0	12	61	60	59	93	34	4	DAY 40																															
10	0	UML	3	2	8	68	57	49	51	22	4	0	UML	5	H	73	63	57	57	07	3	10	4	1	F	66	64	63	90	35	8	DAY 41																															
13	0	UML	3	2	8	80	63	52	38	08	3	0	UML	10	H	82	65	53	37	19	5	10	15	2	8	73	68	66	79	34	6	DAY 42																															
16	0	UML	3	2	8	81	63	50	34	13	4	0	UML	10	H	82	64	52	35	08	5	10	30	2	8	74	69	66	76	36	7	DAY 43																															
19	0	UML	3	2	8	59	58	57	93	11	3	0	UML	10	H	63	59	56	78	00	0	10	13	5	8	72	69	67	84	36	7	DAY 44																															
22	0	UML	3	2	8	53	52	52	96	00	0	0	UML	12	H	57	56	55	93	00	0	10	5	1	8	70	68	67	90	01	8	DAY 45																															
DAY 46																																																															
01	0	UML	3	2	8	70	68	67	90	34	7	0	UML	7	H	60	60	60	100	00	0	10	18	7	L	54	54	54	100	34	7	DAY 47																															
04	0	UML	3	2	8	68	67	67	90	36	3	3	UML	5	GF	60	60	60	100	00	0	10	16	7	L	54	51	49	83	34	6	DAY 48																															
07	0	UML	3	2	8	68	67	67	93	28	5	9	120	1	IP	61	60	59	93	00	0	10	16	7	L	55	52	48	80	34	7	DAY 49																															
10	0	UML	3	2	8	70	68	67	90	27	7	8	120	5	H	66	62	60	81	01	7	10	20	7	L	61	55	50	67	35	8	DAY 50																															
13	0	UML	3	2	8	74	69	67	79	25	7	10	120	8	H	71	62	56	59	38	10	10	20	8	L	63	57	53	70	33	8	DAY 51																															
16	0	UML	3	2	8	79	70	66	65	18	6	10	20	7	H	66	61	57	73	02	10	10	25	7	L	60	57	55	84	04	4	DAY 52																															
19	0	UML	3	2	8	68	66	65	90	00	0	10	23	8	H	59	53	47	65	36	8	10	11	7	L	58	56	55	90	00	0	DAY 53																															
22	0	UML	3	2	8	64	63	63	97	15	3	10	25	10	H	57	52	48	72	35	8	10	10	7	L	60	58	56	97	00	0	DAY 54																															
DAY 55																																																															
01	0	UML	3	2	8	60	58	56	87	00	0	0	UML	4	H	57	56	55	93	18	4	10	50	6	H	60	58	56	87	33	6	DAY 56																															