

# Local Climatological Data

Annual Summary With Comparative Data

1981

RICHMOND, VIRGINIA

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## Narrative Climatological Summary

Richmond is located in east-central Virginia at the head of navigation on the James River and along a line separating the Coastal Plains (Tidewater Virginia) from the Piedmont. The Blue Ridge Mountains lie about 90 miles to the west and the Chesapeake Bay 60 miles to the east. Elevations range from a few feet above sea level along the river to a little over 300 feet in parts of the west section of the City.

The climate might be classified as modified continental. Summers are warm and humid and winters generally mild. The mountains to the west act as a partial barrier to outbreaks of cold, continental air in winter, the coldest air being delayed long enough to be modified, then further warmed as it subsides in its approach to Richmond. The open waters of the Chesapeake Bay and Atlantic Ocean contribute to the humid summers and mild winters. The coldest weather normally occurs in late December and in January, when low temperatures usually average in the upper twenties and the high temperatures in the upper forties. Temperatures seldom lower to zero. The record lowest temperature of minus 12° was recorded at the Airport in January 1940. The record high temperature of 107° occurred in August 1918 at Chimborazo Park.

Precipitation is rather uniformly distributed throughout the year. However, dry periods lasting several weeks do occur, especially in autumn when long periods of pleasant, mild weather are most common. There is considerable variability in total monthly amounts from year to year so that no one month can be depended upon to be normal. Snow has been recorded during seven of the twelve months. Falls of 4 inches or more occur on an average of once a year. Snow usually remains on the ground only 1 or 2 days at a time, but on one occasion it remained 21 days (January 23 to February 13, 1948). Ice storms (freezing rain or glaze) are not uncommon in winter, but they are seldom severe enough to do any considerable damage. A notable exception was the spectacular glaze storm of Jan. 27-28, 1943 when nearly one inch ice accumulation caused heavy damage to trees and overhead transmission lines of all kinds. There have been more recent ice storms that caused damage, but they did not compare to the 1943 storm.

The James River reaches tidewater at Richmond where flooding has occurred in every month of the year, most frequently in March and least in July. Hurricanes and less severe storms of tropical origin have been responsible for most of the flooding during the summer and early fall months. The flood of record at Richmond was Agnes in June, 1972 which produced on the 23rd crests 6 and one half feet above old high water marks dating back 200 years. Agnes was followed closely by serious flooding on October 7, 1972 and preceded by Camille on August 22, 1969 which is now the fourth greatest flood of record. In 1955 three hurricanes brought record rainfall to Richmond within a 6-week period. The most noteworthy of these were Hurricanes Connie and Diane that brought heavy rains five days apart.

Damaging storms occur mainly from snow and freezing rain in winter and from hurricanes, tornadoes, and severe thunderstorms at other seasons. Damage may be from wind, flooding, or rain, or from any combination of these. Tornadoes are infrequent but some notable occurrences have been observed within the Richmond area. The highest wind recorded has been 68 m.p.h. with a peak gust of 79 m.p.h. at the time of Hurricane Hazel, October 15, 1954.

The dates of the last freeze in spring and of the first in autumn mark the limits of the growing season for most crops. The average growing season is 216 days. May 11, 1966, has been the latest date in spring when a temperature of 32° or lower was recorded; October 3, 1974, has been the earliest date in autumn.

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NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND  
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER  
ASHEVILLE, N.C.

# Meteorological Data For The Current Year

Station: RICHMOND, VIRGINIA # 13740 R.E.BYRD INTERNATIONAL AP. Standard time used: EASTERN Latitude: 37° 30' N Longitude: 77° 20' W Elevation (ground): 164 feet Year: 1981

Month	Temperature °F						Degree days Base 65 °F		Precipitation in inches						Relative humidity, pct.				Wind				Number of days								Average station pressure mb 177 feet m.s.l.									
	Averages			Extremes			Heating	Cooling	Water equivalent			Snow, ice pellets			Hour 01	Hour 07	Hour 13	Hour 19	Resultant		Fastest mile		Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms		Heavy fog, visibility 1/4 mile or less	Temperature °F							
	Daily maximum	Daily minimum	Monthly	Highest	Date	Lowest			Date	Total	Greatest in 24 hrs.	Date	Total	Greatest in 24 hrs.					Date	Direction	Speed m.p.h.	Direction			Date	Clear	Partly cloudy						Cloudy	90° and above	32° and below	32° and below	0° and below			
JAN	42.1	20.2	31.2	65	26	2	13	1042	0	0.64	0.43	21	0.6	0.6	15	66	70	43	52	30	2.4	6.7	26	NW	17	74	5.3	10	11	10	3	0	0	1	0	0	0	29	0	1011.9
FEB	54.1	30.2	42.2	76	28	12	4	633	0	2.76	0.96	11	0.0	0.0	18-19	69	76	49	56	25	2.4	8.9	33	S	11	68	5.9	10	4	14	8	0	0	0	0	3	17	0	1014.9	
MAR	57.1	32.0	44.6	80	31	23	15	626	1	1.52	0.47	4	0.2	0.2	18-19	61	66	39	46	30	3.9	9.4	34	NW	16	72	5.8	9	8	14	7	0	0	0	0	22	0	1016.8		
APR	73.2	47.9	60.6	89	28	31	7	171	45	2.96	0.74	5	0.0	0.0	18-19	65	71	46	49	23	3.7	10.0	28	NW	5	67	6.6	8	7	15	11	7	0	0	0	0	1	0	1012.2	
MAY	75.3	52.9	64.1	90	25	39	8	107	89	6.62	3.08	10-11	0.0	0.0	18-19	79	77	53	58	01	1.3	7.8	30	NW	1	55	6.6	3	14	16	13	0	0	0	0	0	0	0	1007.8	
JUN	88.2	67.5	77.9	98	16	56	28	0	395	3.69	1.08	20	0.0	0.0	18-19	78	78	53	60	22	1.6	7.3	38	SW	20	56	6.8	5	10	15	10	0	0	0	0	0	0	0	1008.5	
JUL	89.2	69.9	79.6	97	21	58	31	0	458	4.01	1.65	3-4	0.0	0.0	18-19	85	84	55	68	29	0.5	6.6	31	NW	21	65	6.2	7	10	14	13	0	0	0	0	0	0	0	1010.2	
AUG	84.7	65.4	75.1	91	5	56	21	1	319	2.89	0.60	12	0.0	0.0	18-19	86	88	60	69	03	0.6	6.5	16	NE	25	56	6.5	4	15	12	9	0	0	0	0	0	0	0	1010.8	
SEP	81.2	57.5	69.4	92	12	40	24	29	169	2.70	1.68	15-16	0.0	0.0	18-19	84	88	51	68	27	0.9	6.3	23	NW	8	67	5.0	13	7	10	6	0	0	0	0	0	0	0	1010.5	
OCT	68.7	44.1	56.4	87	6	28	20	273	16	2.36	0.87	25	0.0	0.0	18-19	80	84	53	68	32	2.1	8.1	26	NE	23	55	6.2	10	7	14	7	0	0	0	0	0	0	0	0	1013.2
NOV	60.2	37.9	49.1	76	4	23	23	473	0	0.68	0.30	24	T	T	24	70	76	48	60	31	3.6	8.2	27	NW	6	74	6.3	9	8	13	4	0	0	0	0	0	0	0	1010.5	
DEC	46.1	29.8	38.0	66	23	21	21	834	0	5.04	1.59	14-15	1.9	1.1	25	77	79	63	72	30	3.7	8.3	27	NW	8	52	7.0	6	9	16	14	1	0	0	0	0	0	0	0	1010.8
YEAR	68.3	46.3	57.3	98	JUN 16	JAN 2	JAN 13	4189	1492	35.87	3.08	10-11	2.7	1.1	DEC 25	75	78	51	61	29	1.7	7.8	38	SW	20	63	6.2	94	110	161	105	1	37	18	43	11	102	0	1010.8	

## Normals, Means, And Extremes

Month	Temperatures °F						Normal Degree days Base 65 °F	Precipitation in inches						Relative humidity pct.				Wind				Mean number of days								Average station pressure mb 177 feet m.s.l.																	
	Normal			Extremes				Heating	Cooling	Water equivalent			Snow, ice pellets			Hour 01	Hour 07	Hour 13	Hour 19	Fastest mile		Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms		Heavy fog, visibility 1/4 mile or less	Temperatures °F															
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year			Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.					Year	Maximum monthly			Year	Maximum in 24 hrs.	Year						Mean speed m.p.h.	Prevailing direction	Speed m.p.h.	Direction	Year	Clear	Partly cloudy	Cloudy	90° and above	32° and below	32° and below	0° and below				
(a)				52		52				44		44		44		44		44	47	47	47	47	33	15	31	31	31	36	36	36	36	36	44	44	44	52	52	52	52	52	9						
J	47.4	27.6	37.5	80	1950	-12	1940	853	0	2.86	7.97	1978	0.64	1981	3.31	1962	28.5	1940	21.6	1940	77	81	57	69	7.9	S	43	NW	1971	52	6.4	8	7	16	10	1	*	3	0	3	21	*	1012.2				
F	49.9	28.8	39.4	83	1932	-10	1936	717	0	3.01	5.97	1979	0.48	1978	2.67	1979	19.5	1979	10.9	1979	74	79	52	62	8.5	NNE	45	SW	1951	57	6.1	9	6	13	9	1	*	2	0	2	19	*	1012.4				
M	58.2	35.5	46.9	93	1938	11	1960	569	8	3.38	8.04	1975	0.94	1966	2.04	1942	19.7	1960	12.1	1962	73	78	49	59	8.9	W	42	SE	1952	59	6.2	8	8	15	11	1	1	1	2	2	0	0	0	1010.4			
A	70.3	45.2	57.8	96	1976	25	1977	226	10	2.77	5.32	1952	0.64	1963	2.60	1978	2.0	1940	2.0	1940	74	75	45	55	8.8	S	40	NW	1972	64	6.1	8	9	13	9	*	2	1	0	0	0	0	1010.0				
M	78.4	54.5	66.5	100	1941	31	1956	64	111	3.42	8.87	1972	0.87	1965	3.08	1981	0.0	0.0	0.0	0.0	84	80	51	69	7.7	SSW	45	N	1962	64	6.3	7	10	14	11	0	6	2	2	3	0	0	0	0	1008.7		
J	85.4	62.9	74.2	104	1952	40	1967	0	276	3.52	9.24	1938	0.38	1980	4.61	1963	0.0	0.0	0.0	0.0	87	82	53	67	7.2	S	52	NW	1952	67	6.0	7	12	11	9	0	7	2	9	0	0	0	0	0	1009.9		
J	88.2	67.5	77.9	105	1977	51	1965	0	400	5.63	18.87	1945	0.52	1963	5.73	1969	0.0	0.0	0.0	0.0	89	85	56	71	6.6	SSW	56	NW	1955	66	6.1	7	12	12	11	0	9	2	13	0	0	0	0	0	1010.1		
A	86.6	65.9	76.3	102	1953	46	1934	0	350	5.06	14.10	1955	0.52	1943	8.79	1955	0.0	0.0	0.0	0.0	90	89	57	76	6.3	S	54	W	1964	65	6.0	7	13	12	10	0	7	3	11	0	0	0	0	0	1011.5		
S	80.9	59.0	70.0	103	1954	35	1974	21	171	3.58	10.98	1975	0.26	1978	3.82	1955	0.0	0.0	0.0	0.0	90	89	56	79	6.5	S	45	SE	1952	64	5.7	9	9	12	8	0	3	3	5	0	0	0	0	0	1011.5		
O	71.2	47.4	59.3	99	1941	21	1962	203	27	2.94	9.39	1971	0.30	1963	6.50	1961	T	1979	T	1979	87	89	53	77	6.9	NNE	68	SE	1954	60	5.3	12	7	12	7	0	1	3	*	0	0	0	0	0	0	1012.7	
N	60.6	37.3	49.0	86	1974	10	1933	480	0	3.20	7.64	1959	0.36	1965	4.07	1956	7.3	1953	7.3	1953	80	84	50	70	7.4	S	38	NW	1977	57	5.7	10	8	12	8	*	1	2	0	*	10	0	0	0	0	0	1012.9
D	49.1	28.8	39.0	80	1971	-1	1942	806	0	3.22	7.07	1973	0.40	1980	3.16	1958	12.5	1958	7.5	1966	78	81	55	70	7.5	SW	40	SW	1968	52	6.1	10	6	15	9	1	*	3	0	2	21	*	1012.6				
YR	68.8	46.7	57.8	105	JUL 1977	-12	JAN 1940	3939	1353	42.59	18.87	JUL 1945	0.26	SEP 1945	8.79	AUG 1955	28.5	JAN 1940	21.6	JAN 1940	82	83	53	60	7.5	S	68	SE	OCT 1954	61	6.0	102	106	157	113	4	37	28	42	6	86	1	1011.2				

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 107 in August 1918; minimum monthly precipitation 0.11 in November 1890 and earlier.

- (a) Length of record, years, through the current year unless otherwise noted, based on January data.
  - (b) 70° and above at Alaskan stations.
  - \* Less than one half.
  - T Trace.
- NORMALS - Based on record for the 1941-1970 period.  
 DATE OF AN EXTREME - The most recent in cases of multiple occurrence.  
 PREVAILING WIND DIRECTION - Record through 1963.  
 WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.  
 FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

### Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
#1942	34.2	35.2	48.0	58.8	69.5	75.2	79.4	75.2	71.3	60.8	50.0	37.1	57.9
1943	40.0	41.9	47.0	53.9	69.0	78.2	78.5	78.4	68.4	57.3	47.5	38.6	58.3
1944	38.6	40.4	45.2	56.2	71.6	76.4	77.7	75.4	71.2	57.9	48.2	36.1	57.9
1945	34.2	40.8	58.6	61.4	63.9	75.7	76.2	75.2	73.6	57.8	49.6	33.4	58.4
#1946	39.0	41.7	53.8	57.2	65.8	72.8	75.4	72.6	70.0	60.9	52.9	43.4	58.8
1947	44.6	33.9	40.0	57.9	67.0	72.2	74.8	78.5	70.1	63.7	46.4	38.4	57.2
1948	31.1	39.8	50.8	57.7	66.3	74.4	78.2	75.7	68.6	56.2	52.9	42.0	57.8
1949	45.2	46.5	48.6	55.7	66.0	75.2	80.1	78.6	67.4	62.5	49.0	42.4	6
#1950	49.7	40.7	44.4	54.7	65.0	74.2	76.8	75.5	68.2	61.2	47.3	36.1	57.8
1951	40.8	41.3	46.8	56.6	64.6	74.3	78.6	76.0	70.0	61.6	44.7	42.0	58.1
1952	42.4	42.2	46.3	58.1	65.4	77.6	80.4	76.4	69.2	55.2	49.4	39.2	58.5
1953	42.9	43.4	48.3	58.0	71.5	75.2	79.9	77.3	70.0	60.7	48.5	42.5	59.9
1954	36.0	44.9	47.0	61.2	63.0	74.6	78.6	76.8	74.4	62.3	46.1	38.2	58.8
1955	35.8	40.1	50.2	60.6	67.2	70.1	81.3	78.7	70.6	59.5	45.4	34.8	58.0
1956	36.0	43.0	46.3	55.5	65.0	74.7	77.8	76.5	67.9	60.9	47.6	48.9	58.3
1957	35.2	43.3	47.2	61.5	67.8	76.2	78.4	74.6	71.9	54.6	50.3	43.0	58.7
1958	34.8	33.8	42.3	57.9	65.7	71.3	80.2	76.4	69.1	58.7	51.2	33.4	56.2
1959	37.5	41.6	47.3	59.3	69.4	74.8	77.9	79.0	70.8	61.4	47.3	41.6	59.0
1960	38.8	39.3	35.9	61.8	69.4	73.7	76.3	77.5	69.3	57.1	50.1	34.6	56.6
1961	33.5	42.2	50.8	53.0	63.6	72.8	78.5	77.1	73.5	58.1	50.1	37.1	57.5
1962	36.6	39.7	45.0	57.5	70.6	74.0	74.8	74.6	66.2	60.5	47.2	36.1	56.9
1963	35.9	33.3	50.8	59.2	64.0	72.0	76.1	75.7	65.5	58.6	50.1	32.4	56.1
1964	38.1	37.2	47.6	55.4	66.4	73.1	75.8	73.1	67.1	53.4	51.5	42.9	56.8
1965	35.6	38.8	43.0	53.9	69.6	70.7	74.9	75.9	70.7	56.1	48.2	41.3	56.6
1966	31.1	37.7	47.5	52.8	63.1	71.4	76.4	74.6	67.2	55.5	49.5	38.0	55.4
1967	40.9	34.8	46.6	58.8	60.7	72.1	76.6	75.5	65.7	57.2	44.0	41.9	56.2
1968	33.9	34.2	52.0	58.8	64.7	74.7	78.9	76.9	70.9	61.9	41.3	37.0	58.1
1969	33.9	36.8	42.3	57.6	65.5	75.7	78.3	75.1	68.1	58.5	46.8	35.5	56.2
1970	30.1	37.1	42.9	58.2	69.1	75.7	78.3	78.0	74.8	62.9	49.9	40.4	58.1
1971	33.6	39.5	44.5	55.0	63.3	74.7	76.6	75.3	71.4	64.6	48.5	48.0	57.9
1972	40.7	37.6	47.7	52.2	64.2	70.1	77.1	75.2	70.0	55.2	47.9	39.9	54.4
1973	37.4	38.5	52.4	57.9	65.1	76.0	77.4	77.5	72.3	60.6	51.3	40.8	59.0
1974	45.8	40.1	50.6	59.9	65.8	70.6	76.9	75.7	67.4	55.4	48.5	41.7	58.2
1975	40.7	41.4	45.3	52.9	67.7	73.6	76.0	78.8	69.3	62.5	53.6	40.0	58.5
1976	35.1	48.5	52.6	60.5	65.2	74.6	77.3	75.7	68.7	54.4	42.7	36.7	57.7
1977	25.3	40.5	53.7	61.1	68.2	75.0	81.4	79.8	74.2	57.3	52.3	39.5	58.9
1978	33.4	39.8	48.5	57.8	67.5	74.7	77.5	80.1	72.9	58.3	52.5	45.5	5
1979	36.4	28.4	51.1	58.4	67.1	70.8	76.9	77.8	71.0	58.3	53.3	42.3	57.5
1980	38.8	36.0	47.4	61.1	68.3	72.8	80.0	80.7	74.7	56.9	46.2	38.6	58.8
1981	31.2	42.2	44.6	60.6	64.1	77.9	79.6	75.1	69.4	56.4	49.1	38.0	57.3
RECORD	37.5	39.2	47.1	57.2	66.2	74.0	77.7	76.3	70.2	58.7	48.8	39.6	57.7
MEAN	47.4	49.9	58.9	69.8	78.0	85.1	88.1	86.5	81.0	70.8	60.3	49.8	68.8
MIN	27.5	28.4	35.6	44.6	54.3	62.8	67.3	66.1	59.3	46.7	37.2	29.4	46.6

### Heating Degree Days

RICHMOND, VA

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total	
1961-62	0	0	27	218	459	860	875	702	623	276	32	0	4072	
1962-63	0	0	73	175	526	891	897	882	434	218	102	1	4199	
1963-64	0	0	71	197	439	1004	626	801	517	306	74	12	4267	
1964-65	0	0	32	352	402	676	909	726	674	339	17	34	4161	
1965-66	0	6	25	275	498	726	1083	759	538	371	133	27	4401	
1966-67	0	0	47	293	466	833	738	841	560	230	171	17	4196	
1967-68	0	0	64	256	623	708	956	887	416	191	86	0	4187	
1968-69	0	0	161	403	884	957	783	695	237	66	0	0	4166	
1969-70	0	0	45	221	541	907	1076	778	677	231	51	0	4527	
1970-71	0	0	12	124	445	756	960	709	627	295	104	3	4035	
1971-72	0	0	11	69	512	526	748	788	554	286	58	21	3573	
1972-73	0	0	17	285	513	588	843	735	394	247	79	0	3701	
1973-74	0	0	5	163	414	744	589	691	455	204	75	5	3345	
1974-75	0	0	62	310	513	715	746	654	684	368	44	1	4017	
1975-76	0	0	27	121	356	770	917	880	386	227	78	11	3373	
1976-77	0	0	1	15	332	660	869	1227	680	366	176	42	7	4375
1977-78	0	0	4	259	401	784	974	964	627	235	88	5	4341	
1978-79	0	0	16	214	366	694	876	1011	439	218	84	4	3882	
1979-80	0	0	8	242	353	698	806	835	541	135	47	2	3667	
1980-81	0	0	14	267	557	813	1042	633	626	171	107	0	4230	
1981-82	0	1	29	273	473	834								

### Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	
1969	0	0	0	0	21	90	328	417	321	143	26	0	1350	
1970	0	0	0	0	35	185	328	418	410	317	67	0	1756	
1971	0	0	0	0	0	56	297	367	327	209	62	27	5	1345
1972	0	0	0	7	30	52	180	381	326	178	9	6	0	1171
1973	0	0	13	42	91	338	391	395	231	32	9	2	0	1544
1974	0	0	10	58	106	180	377	340	141	21	26	0	0	1259
1975	0	0	0	16	135	267	348	433	165	51	18	0	0	1833
1976	0	0	9	99	91	307	389	337	133	12	0	0	0	1385
1977	0	0	22	66	148	258	513	647	289	24	27	0	0	1814
1978	0	0	12	112	302	393	475	263	15	0	1	0	0	1573
1979	0	0	16	30	117	168	374	404	195	42	9	0	0	1375
1980	0	0	1	25	157	243	472	494	313	23	1	0	0	1729
1981	0	0	1	45	89	395	458	319	169	16	0	0	0	1492

### Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
#1942	1.59	1.03	5.31	0.78	1.11	5.30	3.52	6.61	3.71	6.74	1.31	3.04	42.05
1943	2.87	2.27	3.01	2.11	4.04	3.15	3.87	0.52	5.13	2.90	1.44	1.98	33.29
1944	2.83	5.61	5.85	3.59	1.41	1.42	7.76	6.44	5.50	1.79	3.94	2.26	48.40
1945	2.25	3.57	1.33	3.50	5.09	1.71	18.87	2.92	8.49	0.91	3.09	5.28	57.01
#1946	2.16	2.69	2.23	2.59	7.73	6.01	6.64	3.87	4.39	2.35	1.90	2.71	45.28
1947	4.31	1.43	2.22	2.53	4.69	4.48	3.33	1.87	6.38	2.37	7.03	1.56	42.20
1948	4.11	2.66	5.54	4.59	6.62	4.73	4.05	7.75	3.02	5.74	4.14	53.99	
1949	3.26	2.55	2.12	2.22	5.11	3.53	6.34	8.99	2.64	3.87	1.88	1.94	44.45
#1950	2.17	1.71	3.20	0.74	2.07	0.99	6.69	3.32	4.04	1.77	1.74	2.73	33.37
1951	1.08	1.90	2.85	2.26	2.51	5.85	2.63	5.23	0.98	2.71	4.52	3.63	36.15
1952	5.71	2.76	5.05	5.33	3.72	4.52	2.71	6.41	2.35	2.04	6.42	3.37	50.36
1953	4.47	3.36	3.95	3.16	2.35	3.06	2.04	0.99	6.84	2.16	1.85	2.94	37.17
1954	3.70	1.56	2.44	3.08	4.36	1.09	1.30	3.95	0.69	4.99	1.86	2.43	31.45
1955	1.09	3.18	2.66	3.14	1.79	3.06	7.93	14.10	5.79	2.57	1.76	0.86	47.93
1956	1.65	3.57	3.06	2.75	4.35	3.28	10.32	2.28	2.96	4.11	3.98	49.23	
1957	3.36	5.29	2.82	2.25	2.75	1.80	7.46	3.43	5.35	6.08	50.61		

# STATION LOCATION

RICHMOND, VIRGINIA

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above										* Type M = AMOS T = AUTOB	Remarks
						Sea level											
						Ground at temperature site	Wind instruments	Extreme thermometers	Psychrometer	Sunshine switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment †		
<b>COOPERATIVE</b>																	
High elevation in East Richmond	1/1880	2/1893				Est. 150										W. H. Pleasants; exact address unknown.	
Near Southern RR Bridge	3/1893	3/1895				Est. 35										A. J. Duesberry, River Observer.	
Westbrook Farms	4/1895	10/1897	4 mi. N	27° 36'	77° 24'	196										Capt. J. C. Shafer; temperatures only	
<b>CITY</b>																	
State Library Building Capitol Square	9/18/95	5/22/97	4 mi. S	37° 32'	77° 27'	142										Section Center; no observations	
Chamber of Commerce Building, Ninth & Main Streets	5/22/97	5/31/00	3/8 mi. SW	37° 32'	77° 27'	104	107	98	98		89		89			Observational Program begun 10/3/97.	
Times Building 10th & Bank Streets	5/31/00	6/30/05	1/8 mi. NE	37° 32'	77° 27'	115	92	82	82		76		76				
Mutual Assurance Bldg. Ninth & Main Streets	6/30/05	1/30/10	1/8 mi. SW			104	154	145	145		138		138				
Weather Bureau Building Chimborazo Park 3301 E Broad Street	1/30/10	7/01/53	1-1/2 mi. E	37° 32'	77° 25'	162	53	11	11		3 a4		3			Climatological observations were continuous at City Office sites 10/5/97 through 6/30/53.  a - At this site 9/24/42 to 4/19/46 and after 6/1/50.	
<b>AIRPORT</b>																	
WB-CAA Building	7/15/25	9/24/42	None	37° 30'	77° 20'	158	#	5	5				3			CAA to 8/3/30. WBAS 8/3/30 to 5/26/35 and 7/14/38 to 9/24/42. # - 40 feet 8/3/30 to 5/26/35, estimated 40 feet 5/26/35 to 7/14/38 and estimated 50 feet to 9/24/42.	
Army Hangar (Operations Annex)	9/24/42	4/19/46	1/2 mi. NNW	37° 30'	77° 20'	156	55	5	5				3			AF operation.	
Old Airport Administration Building	4/19/46	6/01/50	1/3 mi. SSE	37° 30'	77° 20'	156	46	5	5				4			WBAS reopened.	
Byrd Field † New Terminal Building † R. E. Byrd International Airport effective 2/18/71	6/01/50	Present	4/5 mi. N	37° 30'	77° 20'	c164	b20	d6	d6	%60	e19	f19	e19	a4	NA	a - Installed 2700 feet ENE of thermometer site 6/26/59. b - 67 feet to 1/11/61. c - 162 feet to 6/26/59. d - Discontinued 6/26/59. e - 3 feet to 10/9/69. % - Commissioned 11/19/63. f - Installed on roof 1/1/80.	

SUBSCRIPTION: Price and ordering information available through: National Climatic Center, Federal Building, Asheville, N. C. 28801, ATTN: Publications.

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