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LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

1969

RICHMOND, VIRGINIA

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 classed 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 January 27-28, 1943, when heavy damage was done to trees and overhead transmission lines of all kinds.

The James River reaches tidewater at Richmond where flooding has occurred in every month of the year, most frequently in March (28 times in the past 61 years), and only twice 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. In recent years, three hurricanes brought more than normal rainfall to Richmond within a 6-week period in 1955. The most noteworthy of these were Hurricanes Connie and Diane that brought heavy rains five days apart, which sent the James River out of its banks at Richmond, during August 18 through August 20.

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. Three tornadoes have been observed in the Richmond area, the latest July 20, 1956. 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 5, 1965, has been the earliest date in autumn.

METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: RICHMOND, VIRGINIA BYRD FIELD Standard time used: EASTERN Latitude: 37° 30' N Longitude: 77° 20' W Elevation (ground): 164 feet Year: 1969

Month	Temperature						Degree days (Base 65°)		Precipitation						Relative humidity				Wind &						Number of days										Average daily solar radiation - langley's			
	Averages			Extremes			Heating	Cooling	Total	Snow, ice pellets			Hour	Hour	Hour	Hour	Resultant	Fastest mile		Percent of possible sunshine	Average sky cover sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures									
	Daily maximum	Daily minimum	Monthly	Highest	Date	Lowest				Date	Greatest in 24 hrs.	Date						Total	Greatest in 24 hrs.			Date	Hour	Hour					Hour	Hour	Speed	Direction #	Clear	Partly cloudy		Cloudy	90° and above	32° and below
	8	6	957	0	2.04	1.37	20-21	T	T	8 +	72	76	54	62	33	2.9	8.2	28	NW	1	47	6.6	9	4	18	7	0	0	0	0	3	21	0					
JAN	43.0	24.8	33.9	63	30+	8	6	957	0	2.04	1.37	20-21	T	T	8 +	72	76	54	62	33	2.9	8.2	28	NW	1	47	6.6	9	4	18	7	0	0	0	3	21	0	
FEB	43.8	29.8	36.8	58	5	18	14+	783	0	3.95	1.87	23	T	T	20 +	69	74	57	61	35	6.0	9.7	34	NW	3	43	7.3	5	4	19	8	0	1	0	0	18	0	
MAR	54.1	30.4	42.3	75	29	20	14+	695	0	3.95	1.65	24-25	11.9	7.9	1-2	69	79	44	51	31	2.9	8.7	26	W	25+	71	5.0	10	15	6	9	3	0	0	0	21	0	
APR	70.7	44.5	57.6	87	27	28	1	237	21	2.60	0.67	5-6	0.0	0.0	0	82	84	48	58	21	2.0	8.5	32	SW	5	69	5.9	7	10	13	10	0	2	2	0	1	0	0
MAY	78.5	52.5	65.5	93	30	36	13	66	90	3.32	2.06	19-20	0.0	0.0	0	81	78	49	58	20	2.1	7.3	33	NW	9	78	4.4	14	10	7	10	0	6	1	0	0	0	
JUN	85.8	65.5	75.7	98	28	53	4	328	0	4.36	2.87	8-9	0.0	0.0	0	88	84	58	72	19	2.3	6.9	34	N	18	53	6.7	4	13	13	12	0	7	0	1	2	0	0
JUL	87.3	69.2	78.3	97	1	64	15	0	417	13.90	5.73	22-23	0.0	0.0	0	91	88	65	80	19	1.1	6.0	31	SW	20	48	7.1	5	11	15	15	0	11	1	0	0	0	
AUG	85.2	64.9	75.1	91	17	54	28	0	321	9.31	2.69	19-20	0.0	0.0	0	93	91	63	82	20	1.0	5.5	27	NW	9	62	5.2	12	6	13	10	0	5	4	6	0	0	0
SEP	78.7	57.5	68.1	90	7+	43	30	45	147	3.89	2.03	2-3	0.0	0.0	0	94	94	62	85	06	0.9	5.3	22	S	2	54	6.2	7	10	13	7	0	2	5	2	0	0	
OCT	70.4	46.6	58.5	83	3	27	24	221	26	1.68	1.54	2	0.0	0.0	0	90	91	55	79	02	1.9	6.3	20	NW	21	52	5.2	12	9	10	4	0	0	0	0	4	0	
NOV	58.0	35.6	46.8	74	3	20	22	341	0	1.87	0.72	19	0.0	0.0	0	80	88	52	70	30	1.3	6.9	25	W	19+	51	5.9	9	8	13	7	0	0	1	0	0	14	0
DEC	44.0	27.0	35.5	59	10	15	21	907	0	5.26	1.61	25-26	1.8	1.8	25	74	79	57	64	32	3.6	7.6	25	NW	4	46	5.8	12	6	13	9	1	1	0	0	1	21	0
YEAR	66.6	45.7	56.2	98	JUN. 28	JAN. 8	JAN. 6	4452	1350	56.33	5.73	22-23	13.7	7.9	NAR. 1-2	82	84	55	69	31	1.0	7.3	34	N	18+	57	6.0	106	106	153	108	4	36	23	31	4	100	0

NORMALS, MEANS, AND EXTREMES

Month	Temperature						Normal heating degree days (Base 65°)	Precipitation						Relative humidity				Wind &						Mean number of days										Average daily solar radiation - langley's								
	Normal			Extremes				Normal total	Maximum monthly	Year	Minimum monthly	Year	Snow, ice pellets			Hour	Hour	Hour	Hour	Mean speed	Prevailing direction	Fastest mile		Per. of possible sunshine sunrise to sunset	Mean sky cover sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures									
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest							Year	Mean total	Maximum monthly							Year	Minimum monthly			Year	Maximum in 24 hrs.	Year					Hour		Hour	Hour	Hour	Speed	Direction #	Year	Clear	Partly cloudy
	(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)	(aa)	(ab)	(ac)	(ad)	(ae)	(af)		(ag)	(ah)	(ai)	(aj)	(ak)	(al)		
J	48.3	29.0	38.7	80	1950	-12	1940	815	3.46	5.95	1962	1.08	1951	3.31	1962	5.6	28.5	1940	21.6	1940	77	81	57	69	8.1	S	40	S	1959	6.4	9	6	16	10	2	*	3	0	3	21	*	
F	50.6	29.2	39.9	83	1932+	-10	1936	703	2.90	5.61	1944	0.98	1968	1.87	1969	3.4	17.1	1967	9.2	1947	74	79	52	63	8.6	NNE	45	SW	1951	54	6.2	9	6	13	9	1	*	2	0	1	19	*
M	59.1	36.3	47.7	93	1938	11	1960+	546	3.42	5.85	1944	0.94	1966	2.04	1942	3.1	19.7	1960	12.1	1962	74	78	48	59	9.0	W	42	SE	1952	60	6.1	8	9	14	11	1	2	*	10	0		
A	70.4	45.8	58.1	96	1960	26	1964+	219	3.15	5.32	1952	0.64	1963	2.07	1952	0.1	2.0	1940	2.8	1940	75	75	46	57	8.9	S	40	NW	1954	61	6.2	7	10	13	10	0	2	2	1	0	2	0
M	79.3	54.6	67.0	100	1941	31	1956+	53	3.72	7.73	1946	0.87	1965	2.30	1958	0.0	0.0	0.0	0.0	0.0	83	78	49	65	7.9	SSW	45	N	1962	63	6.2	7	11	13	11	0	6	2	3	0	2	0
J	86.8	63.4	75.1	104	1952	40	1967	0	3.75	9.24	1968	0.91	1960	4.61	1963	0.0	0.0	0.0	0.0	0.0	87	81	53	68	7.3	S	52	NW	1952	67	5.9	7	12	11	10	0	7	2	10	0	0	
J	89.4	66.7	78.1	104	1936+	51	1965+	0	5.61	18.87	1945	0.52	1963	5.73	1969	0.0	0.0	0.0	0.0	0.0	89	85	56	72	6.9	SSW	56	NW	1955	66	6.1	7	12	12	11	0	9	3	13	0	0	
A	86.3	65.4	76.0	102	1953	46	1934	0	5.54	14.10	1955	0.52	1943	8.79	1953	0.0	0.0	0.0	0.0	0.0	90	88	57	74	6.5	S	34	W	1964	64	6.0	8	11	12	10	0	7	3	11	0	0	
S	81.8	58.6	70.2	103	1954	37	1963	36	3.65	8.49	1945	0.69	1954	3.82	1955	0.0	0.0	0.0	0.0	0.0	90	89	56	79	6.8	S	45	SE	1952	64	5.6	10	8	12	8	0	3	3	4	0	0	
O	70.6	46.7	58.7	99	1941	21	1962	214	3.00	8.78	1961	0.30	1963	6.90	1961	T	T	1954	T	1954	87	89	52	77	7.0	NNE	63	SE	1954	61	5.1	12	8	11	7	0	1	4	*	0	2	0
N	59.9	37.1	48.5	86	1950	10	1933+	495	3.04	7.64	1959	0.36	1965	4.07	1956	0.5	7.3	1953	7.3	1953	80	84	50	70	7.5	S	55	S	1957	55	5.6	10	7	13	8	*	2	0	*	11	0	
D	49.8	29.5	39.7	78	1956	-1	1942	784	2.97	6.88	1957	0.72	1965	3.16	1958	2.3	12.5	1958	7.5	1966	77	81	54	70	7.5	SW	40	SW	1968+	52	6.0	10	6	15	9	1	*	3	0	2	21	*
YR	69.4	46.9	58.1	104	JUN. 1952+	-12	JAN. 1940	3865	44.21	18.87	JUL. 1945	0.30	OCT. 1963	8.79	AUG. 1955	15.0	28.5	JAN. 1940	21.6	JAN. 1940	82	82	53	69	7.7	S	68	SE	OCT. 1954	61	6.0	104	106	153	113	4	37	29	43	6	86	21

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, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
- (b) Climatological standard normals (1931-1960).
- + Less than one half.
- + Also on earlier dates, months, or years.
- T Trace, an amount too small to measure.
- Below zero temperatures are preceded by a minus sign.
- The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
- † ≧ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "ice pellets" includes solid grains of ice (frozen) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09-East, 18-South, 27-West, 36-North, and 00-Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

To 8 compass points only.

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	38.3	40.4	41.3	53.4	64.4	72.4	77.4	73.4	73.4	59.4	54.4	41.2	57.6
1932	48.1	46.4	44.3	54.3	63.4	73.8	77.8	76.9	70.0	59.0	48.8	41.2	58.4
1933	44.3	40.3	45.0	56.0	69.1	74.4	75.2	75.7	71.2	57.1	45.0	41.8	58.0
1934	42.4	28.2	42.8	56.3	66.2	76.4	79.7	74.9	71.3	56.3	49.5	38.4	56.9
1935	34.5	38.7	51.9	53.5	62.9	73.6	77.2	75.3	67.4	58.3	51.5	31.6	56.4
1936	31.4	33.7	51.2	53.1	66.5	73.7	79.7	76.5	71.4	59.8	46.3	40.1	57.0
1937	46.2	38.3	43.3	55.3	65.8	76.0	77.2	66.6	55.0	46.2	38.4	37.0	57.0
1938	37.4	43.1	53.4	59.2	64.9	71.7	76.8	78.3	68.4	57.7	49.9	40.3	58.5
1939	41.4	44.8	48.8	56.0	66.9	76.4	75.7	77.1	71.8	59.0	44.8	39.6	58.6
1940	24.2	38.2	43.3	52.4	65.0	74.7	76.3	73.4	66.2	55.8	47.4	42.9	54.9
1941	35.2	34.2	40.8	59.8	66.8	73.0	78.3	75.8	72.2	64.7	48.7	41.9	57.6
#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	41.5	47.0	53.9	69.0	79.2	78.5	78.4	68.4	57.3	47.5	38.6	58.3
1944	38.6	40.4	48.2	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	58.0	61.4	63.9	75.7	76.2	75.2	73.0	57.8	49.6	33.4	58.4
#1946	38.0	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	33.5	40.0	57.5	67.0	72.2	74.8	78.5	70.1	63.2	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	76.6	67.4	62.5	49.0	42.4	59.6
#1950	49.7	40.7	46.4	55.7	63.0	74.2	78.8	75.3	68.2	61.2	47.3	36.1	57.8
1951	40.8	41.3	46.8	56.6	64.6	74.3	78.4	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	38.0	44.9	47.0	61.2	63.0	74.6	78.6	76.8	74.4	62.3	48.1	38.2	58.8
1955	35.8	40.1	50.2	60.8	67.2	70.1	81.3	78.7	70.6	59.5	46.4	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	74.4	71.9	54.6	50.3	43.0	58.7
1958	34.4	39.8	42.3	57.5	65.7	71.3	80.2	76.4	69.1	58.7	51.2	33.4	56.2
1959	37.3	41.0	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	64.4	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	34.9	39.7	45.0	57.3	70.4	74.0	74.8	74.2	66.2	47.2	47.2	37.9	57.9
1963	35.9	33.3	50.8	59.2	64.0	72.0	76.1	75.7	65.8	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	55.3	49.5	38.0	55.4
1967	40.5	34.8	46.5	58.8	68.0	72.1	76.6	75.3	65.7	57.2	44.0	41.9	58.2
1968	35.8	39.7	52.0	58.8	66.7	74.7	78.9	78.9	70.9	61.9	51.3	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
RECORD													
MEAN	38.0	39.4	46.8	56.9	66.2	74.0	77.7	76.0	69.8	58.7	48.5	39.1	57.6
MAX	47.8	50.0	58.2	69.2	78.1	85.2	88.0	86.1	80.6	70.7	60.0	49.2	68.6
MIN	28.1	28.8	35.4	44.3	54.2	62.8	67.3	65.9	58.9	46.6	36.9	29.0	46.5

TOTAL DEGREE DAYS

RICHMOND, VIRGINIA

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0	1	5	345	557	906	825	684	718	336	84	13	4474
1931-32	0	4	25	194	328	575	496	580	662	319	111	1	3295
1932-33	0	0	31	209	568	711	637	684	601	265	54	21	3781
1933-34	1	0	1	249	569	712	716	1024	681	265	74	0	4292
1934-35	0	9	3	262	443	817	920	734	403	356	105	0	4052
1935-36	0	0	40	223	413	1034	1038	933	422	372	60	13	4548
1936-37	0	0	17	299	564	748	590	742	668	283	78	1	3890
1937-38	0	0	75	321	556	820	876	622	379	205	91	11	3955
1938-39	0	0	38	228	462	778	724	551	527	288	120	0	3716
1939-40	3	0	5	250	610	785	1265	777	673	380	91	3	4842
1940-41	2	0	74	286	474	475	924	862	595	224	92	13	4021
1941-42	0	3	13	152	510	691	995	854	529	222	13	0	3982
#1942-43	0	2	52	104	459	849	753	652	578	356	63	0	3868
1943-44	0	0	57	251	532	808	819	710	639	280	17	0	4113
1944-45	0	2	21	236	476	873	950	670	253	162	125	27	3795
#1945-46	0	0	3	229	456	986	849	643	350	257	76	11	3860
1946-47	0	5	21	161	370	669	633	880	770	249	94	10	3862
1947-48	0	0	81	98	558	822	1049	733	469	250	48	3	4111
1948-49	0	0	28	179	373	712	615	515	525	295	67	3	3412
#1949-50	0	0	52	134	478	700	862	676	631	327	85	2	3568
1950-51	0	0	60	138	538	886	739	660	559	267	76	0	3923
1951-52	0	0	22	161	608	710	692	655	579	233	58	0	3718
1952-53	0	1	19	316	460	792	680	598	500	234	7	6	3622
1953-54	0	0	28	152	488	911	829	556	593	183	151	1	3632
1954-55	0	0	5	220	561	826	898	690	450	155	67	12	3884
1955-56	0	0	9	186	555	928	896	631	578	233	107	10	4223
1956-57	0	3	75	146	519	493	915	600	546	201	63	5	3566
1957-58	0	0	50	317	434	674	936	871	696	250	70	6	4308
1958-59	0	0	24	212	409	973	847	550	542	212	44	10	3923
1959-60	0	0	36	217	530	717	807	737	894	184	88	2	4212
1960-61	0	0	24	257	439	936	971	632	461	390	106	7	4223
1961-62	0	0	27	218	459	860	875	702	623	270	32	0	4012
1962-63	0	0	73	175	526	891	897	882	434	218	102	1	4199
1963-64	0	0	71	197	439	1004	826	801	537	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	1043	759	538	371	133	27	4701
1966-67	0	0	64	256	466	833	728	841	560	230	171	17	4196
1967-68	0	0	64	275	523	708	926	887	416	191	86	0	4187
1968-69	0	0	0	161	403	864	957	783	695	237	66	0	4166
1969-70	0	0	45	221	541	907							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1938	3.28	1.83	3.72	3.24	4.92	9.24	11.89	0.92	4.41	1.57	2.74	2.74	50.52
1939	3.40	3.97	4.50	5.88	6.77	6.02	4.45	9.33	1.77	2.27	4.59	1.83	44.20
1940	4.14	2.99	2.31	4.22	4.26	6.02	4.45	9.33	1.77	2.27	4.59	1.83	44.20
1941	2.15	1.17	1.97	3.44	1.31	1.83	2.82	3.05	1.23	0.33	0.66	2.89	22.91
#1942	3.59	1.03	5.01	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	7.78	6.44	5.50	1.79	3.94	2.28	48.40
1945	2.25	3.57	1.33	3.30	5.05	1.71	18.87	2.92	8.49	0.91	3.05	5.28	57.01
#1946	2.16	2.69	2.23	2.59	7.73	6.01	6.64	3.87	4.39	2.36	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	2.65	5.54	4.59	6.42	2.73	4.05	7.75	3.05	3.21	5.74	4.14	53.99
1949	3.20	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	3.00	0									

STATION LOCATION

RICHMOND, VIRGINIA

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above								Remarks	
						Sea level	Ground								Sea level
							Ground at temperature site	Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighting rain gage		
COOPERATIVE															
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, observed temperatures.	
Westbrook Farms	4-1895	10-1897	4 mi. N	27° 36'	77° 24'	196		?						Capt. J. C. Shafer, temperatures only.	
CITY OFFICE															
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 Bldg., Ninth & Main Sts.	5-22-97	5-31-00	3/8 mi. SW	37° 32'	77° 27'	104	107	98	98		89		89	Observational Program begun 10-5-97.	
Times Building 10th & Bank Street	5-31-00	6-30-05	1/8 mi. NE	37° 32'	77° 27'	115	92	82	82		76		76		
Mutual Assurance Bldg. 9th and Main Street	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- 1-53	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. Observational program at Airport 7-1-39 to 9-24-42 and after 4-19-46. a - At this site 9-24-42 to 4-19-46. and after 6-1-50.	
AIRPORT STATION															
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 ft. 8-3-30 to 5-26-35, estimated 40 ft. 5-26-35 to 7-14-38 and estimated 50 ft. 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- 1-50	1/3 mi. SSE	37° 30'	77° 20'	156	46	5	5				4	WBAS re-opened in airport terminal building (old).	
Byrd Field New Terminal Building	6- 1-50	Present	4/5 mi. N	37° 30'	77° 20'	c164	b20	d6	d6		e19		e19	a4	a - Installed 2700 ft. ENE of thermometer site 6-26-59. b - 67 ft. to 1-11-61. c - 162 feet to 6-26-59. d - Discontinued 6-26-59. e - 3 feet to 10-9-69.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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