

U. S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

LOCAL CLIMATOLOGICAL DATA
WITH COMPARATIVE DATA

1963

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 cold 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 degrees 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 four 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 six-weeks 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 18th through August 20th.

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 mph with a peak gust of 79 mph 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 9, 1956, has been the latest date in spring when a temperature of 32 degrees or lower was recorded; October 8, 1935, has been the earliest date in autumn.

LATITUDE 37° 30' N
 LONGITUDE 77° 20' W
 ELEVATION (ground) 162 feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

RICHMOND, VIRGINIA
 BYRD FIELD
 1963

Month	Temperature						Degree days	Precipitation			Relative humidity			Wind			Number of days																						
	Averages			Extremes				Total	Greatest in 24 hrs.	Date	Total	Greatest in 24 hrs.	Date	1:00 A.M. EST	7:00 A.M. EST	1:00 P.M. EST	7:00 P.M. EST	Average hourly speed	Prevailing direction	Fastest mile	Sunrise to sunset			Temperatures															
	Daily maximum	Daily minimum	Monthly	Highest	Date	Lowest		Total	Greatest in 24 hrs.	Date	Total	Greatest in 24 hrs.	Date	Speed	Direction #	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Snow, Sleet	Thunderstorms	Heavy fog	Maximum	Minimum																
JAN	45.3	26.4	35.9	68	12	9	29	897	1.55	0.61	13	1.6	1.4	74	78	55	68	8.3	NW	23	54	11	11	9	30° and above														
FEB	43.6	23.0	33.3	64	11	9	27	882	2.98	1.41	11-12	6.3	5.3	26	68	75	53	6.0	N	8	52	5.8	10	6	32° and below														
MAR	63.0	38.6	50.8	81	30	25	3	434	5.62	1.74	16-17	T	T	21	69	72	46	55	9.6	SW	6	61	5.6	8	11	25													
APR	72.6	45.7	59.2	93	3	35	25+	218	0.64	0.20	29-30	0.0	0.0	59	60	35	39	9.5	SW	4	67	5.2	10	12	5														
MAY	76.2	51.7	64.0	94	10+	34	3	102	2.39	1.32	17	0.0	0.0	78	76	49	58	8.8	SSW	11	56	6.1	6	13	0														
JUN	82.6	61.4	72.0	94	10	52	1	7.01	4.61	2-3	0.0	0.0	89	84	58	68	7.7	S	3	61	5.9	7	13	10															
JUL	88.3	63.8	76.1	96	27+	52	5	0	0.52	0.42	14	0.0	0.0	86	83	50	63	7.4	S	28	62	5.6	6	18	7														
AUG	88.0	63.3	75.7	96	3	51	15	0	3.75	2.19	21	0.0	0.0	87	87	50	67	7.3	SSW	24	58	6.2	7	11	13														
SEP	76.6	54.4	65.5	91	12	37	25+	71	3.20	1.17	15-16	0.0	0.0	90	91	59	79	7.9	NNE	24	58	5.0	15	5	10														
OCT	74.1	43.1	58.6	84	8	27	31	197	0.30	0.16	8	0.0	0.0	87	92	44	69	7.5	NNE	21	21	3.0	19	5	7														
NOV	62.4	37.8	50.1	77	17	25	16	439	6.70	2.67	6-7	T	T	30	77	80	47	68	8.5	S	7	61	4.9	13	8	9													
DEC	42.3	22.5	32.4	62	26+	7	21	1004	2.80	1.21	8	0.4	0.4	73	79	52	67	8.4	SW	25	18	6.3	5.0	14	7														
YEAR	67.9	44.3	56.1	96	AUG.	3+	7	21	4245	37.46	4.61	JUN.	2-3	8.3	5.3	FEB.	26	78	80	50	63	8.1	SSW	37	W	6	61	5.3	126	118	121	90	3	25	21	42	10	99	0

NORMALS, MEANS, AND EXTREMES

Month	Temperature						Normal degree days	Precipitation						Relative humidity			Wind			Mean number of days																					
	Normal			Extremes				Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet			Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Prevailing direction	Speed	Direction #	Year	Percent of possible sunshine	Average sky cover sunrise to sunset	Snow, Sleet	Thunderstorms	Heavy fog	Max.	Min.	0° and below							
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Year								26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	34	34	34									
(a)	(b)	(b)	(b)	34	34	34	(b)	26	26	1940	815	3.46	5.95	1962	1.08	1951	3.31	1962	4.9	28.5	1940	21.6	1940	78	81	58	71	8.0	S	1959	50	6.5	8	7	16						
J	48.3	29.0	38.7	80	1950	-12	1940	815	3.46	5.95	1962	1.08	1951	3.31	1962	2.7	11.0	1952	9.2	1947	75	80	53	64	8.5	NNE	1951	51	6.2	9	6	13									
F	50.6	29.9	39.5	83	1932+	-10	1940	703	2.90	5.61	1944	1.03	1942	1.56	1953	3.0	19	1960	12.1	1962	74	78	48	60	9.0	W	1952	57	6.2	8	9	14									
M	58.1	35.3	46.7	93	1938	11	1960+	577	3.42	5.85	1944	1.33	1945	2.04	1942	0.1	2.0	1952	0.1	1940	74	75	45	57	9.1	S	1954	63	6.1	8	10	12									
A	69.4	44.8	57.1	96	1960	26	1950+	246	3.15	5.32	1952	0.64	1963	2.07	1952	0.1	2.0	1940	0.1	1940	74	75	45	57	9.1	S	1954	63	6.1	8	10	12									
M	78.3	54.6	66.5	100	1941	31	1956	56	3.72	7.73	1946	1.11	1942	2.30	1958	0.0	0.0	1946	0.0	1960	84	78	49	66	7.8	SSW	1962	64	6.3	8	10	12									
J	85.8	63.4	74.6	104	1952	41	1938+	0	3.75	9.24	1938	0.91	1960	4.61	1963	0.0	0.0	1960	0.0	1963	87	81	53	68	7.3	S	1962	66	6.0	7	12	11									
J	88.4	67.7	78.1	104	1936+	51	1940	0	5.61	18.87	1945	0.52	1963	4.90	1945	0.0	0.0	1945	0.0	1945	88	84	55	72	7.0	SSW	1955	69	5.9	8	11	12									
A	86.5	66.4	76.5	102	1953	46	1934	0	5.54	14.10	1955	0.52	1943	8.79	1955	0.0	0.0	1955	0.0	1955	90	88	56	76	6.7	S	1956	64	6.0	8	11	12									
S	80.8	59.6	70.2	103	1954	37	1962	36	3.65	6.49	1945	0.69	1954	3.82	1955	0.0	0.0	1945	0.0	1955	90	89	56	79	7.0	S	1956	64	6.0	8	11	12									
O	70.6	47.7	59.2	99	1941	21	1962	202	0	8.78	1961	0.30	1963	6.50	1961	0.5	7.3	1954	1.7	1954	87	89	52	77	7.2	NNE	1954	60	5.2	10	8	12									
N	59.9	37.1	48.5	86	1950	10	1933+	495	3.04	7.64	1959	0.66	1941	4.07	1956	1.9	12.5	1958	6.7	1958	78	82	55	71	7.5	SW	1957	52	5.9	10	7	14									
D	49.8	29.5	39.7	78	1956	-1	1942	784	2.97	6.88	1957	0.88	1955	3.16	1958	1.9	12.5	1958	7.8	1958	68	SE	1957	52	5.9	10	9	1	3	0	2	21	*								
YR	68.9	47.0	58.0	104	JUN.	1952+	-12	1940	3914	44.21	18.87	1945	0.30	1963	8.79	1955	13.1	28.5	JAN.	21.6	1940	82	82	53	69	7.7	S	OCT.	60	6.0	105	106	154	115	4	39	29	44	6	84	1

Means and extremes in the above table are from the existing or comparable location(s). Annual extremes have been exceeded at prior locations as follows: Highest temperature 107 in August 1918; minimum monthly precipitation 0.11 in November 1890 and earlier date(s).

REFERENCE NOTES

- # To 8 compass points only.
- (a) Length of record, year.
- Climatological standard normals (1831-1960).
- + Less than one half.
- No record.
- ± Almost on earlier dates, months, or years.
- Trace, an amount too small to measure.
- Below zero temperatures are preceded by a minus sign.
- Due to relocation of equipment at this station, revised climatological standard normals for temperature will be used effective with data for January 1964 and revised heating degree day normals with data for July 1964.
- 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. Monthly heating degree day totals are the sums of the negative departures of average daily temperatures from 65°F.
- 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.
- Heavy fog in the Normals, Means, and Extremes table includes fog referred to at various times in the past as "Dense" and "Thick". The upper visibility limit for heavy fog is 1/4 mile.
- Record mean values (not adjusted for changes in instrument location) at the end of the Average Temperature and Total Precipitation tables are long-term means for the period beginning in 1930 and 1938 respectively.
- Data for earlier years may be obtained by contacting the Weather Bureau office in the city for which this summary was issued.

AVERAGE TEMPERATURE

TOTAL PRECIPITATION

RICHMOND, VIRGINIA
BYRD FIELD
1963

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An ¹
1930	38.7	43.6	45.2	54.0	67.5	71.1	78.1	73.8	75.3	54.3	46.2	35.5	56.9
1931	38.3	40.4	41.3	53.4	64.4	72.6	77.8	73.8	73.4	59.8	54.2	41.2	57.6
1932	48.1	46.4	44.3	54.3	63.6	73.8	77.8	76.9	70.0	59.0	48.8	42.2	58.4
1933	44.3	40.3	45.6	56.0	69.1	74.4	75.2	75.7	71.2	57.1	45.0	41.8	58.0
1934	42.6	28.2	42.8	56.3	66.2	76.6	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	67.6	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	76.6	59.8	46.3	40.1	57.0
1937	46.0	38.3	43.3	56.3	65.8	76.0	76.8	77.2	80.0	55.0	46.2	38.4	57.0
1938	37.2	43.1	52.6	59.9	71.6	76.8	78.3	69.4	57.7	49.9	40.3	38.3	58.6
1939	41.6	44.8	48.8	56.0	66.9	76.4	75.7	77.1	71.8	59.0	44.8	39.8	58.6
1940	24.2	38.2	43.3	52.4	65.0	74.7	76.0	73.6	66.2	55.8	47.4	42.5	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	77.3	60.8	50.0	37.1	57.9
1943	40.0	42.5	47.0	52.9	69.0	79.2	78.5	78.4	69.4	57.3	47.5	38.6	56.9
1944	38.6	40.4	45.2	56.2	71.6	76.4	77.7	75.4	71.9	59.7	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	38.0	41.7	53.8	57.2	65.8	72.8	75.4	72.8	70.0	60.9	52.9	43.4	58.8
1947	44.6	35.3	40.0	57.5	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	69.6	56.2	52.9	42.0	57.8
1949	45.2	46.5	48.6	55.7	68.0	75.2	80.1	76.6	87.4	62.5	49.0	42.4	59.6
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	58.9
1954	38.0	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	60.4	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	74.6	71.9	54.6	50.3	43.0	58.7
1958	34.6	33.8	42.3	57.5	65.7	71.3	80.2	76.4	69.1	58.7	51.2	33.4	56.2
1959	37.5	41.6	47.3	59.3	69.4	74.8	77.9	79.0	70.8	61.4	47.3	41.6	59.0
RECORD MEAN													
TEMP	38.4	39.9	46.8	57.0	66.4	74.3	77.8	76.1	70.1	58.9	48.5	39.1	57.8
MAX	48.1	50.6	58.1	69.3	78.3	85.4	88.2	86.2	80.8	70.8	59.8	49.2	68.7
MIN	28.6	29.2	35.5	44.6	54.4	63.1	67.4	66.0	59.3	47.0	37.1	29.0	46.8

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1938	3.28	1.82	3.72	3.24	4.92	9.24	11.89	0.95	4.41	1.57	2.74	2.74	50.52
1939	3.40	3.98	5.33	3.04	1.39	5.41	8.34	1.52	2.18	1.51	46.35		
1940	4.16	2.99	2.31	4.22	4.26	4.02	4.45	9.33	1.77	2.27	4.59	1.83	46.20
1941	2.19	1.17	1.97	3.44	1.31	1.83	2.82	3.05	1.23	0.35	0.66	2.89	22.91
1942	3.59	1.03	5.31	0.78	1.11	3.30	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	2.28	49.40
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	8.64	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	2.66	5.54	4.59	6.42	2.73	4.05	7.75	3.05	3.21	5.74	4.14	53.89
1949	3.26	2.55	2.12	5.11	5.33	6.34	8.99	2.64	3.87	1.88	1.94	44.45	
1950	2.17	1.71	3.20	0.74	4.27	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	5.21	5.85	2.63	5.23	2.71	4.52	3.63	3.63	36.15
1952	5.71	2.76	5.05	5.32	3.72	4.50	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	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	4.92	6.11	3.98	49.23
1957	3.36	5.29	2.82	2.25	2.75	3.92	1.80	7.46	3.43	5.35	5.30	6.88	50.81
1958	2.96	4.38	3.81	4.35	5.79	6.09	3.27	9.77	1.90	5.35	4.43	4.43	53.53
1959	1.31	1.87	2.92	4.32	4.32	4.45	1.28	12.85	5.75	3.25	7.64	5.34	31.34
1960	2.13	4.56	3.29	3.57	3.59	0.91	7.34	7.20	6.21	3.31	0.85	3.04	46.00
1961	2.57	5.39	4.02	1.73	4.83	6.49	2.85	3.90	1.64	8.78	1.81	5.05	49.06
1962	5.95	3.00	4.87	3.80	4.08	5.57	5.65	2.37	3.46	0.50	6.73	2.64	48.62
1963	1.55	2.98	5.62	0.64	2.39	7.01	0.52	3.75	3.20	0.30	6.70	2.80	37.46
RECORD MEAN													
TEMP	3.00	2.97	3.52	2.96	3.72	4.00	5.64	5.27	3.66	3.12	3.51	3.03	44.40

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0	1	5	345	557	908	825	684	718	336	84	13	4474
1931-32	0	4	25	194	328	575	498	580	621	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	589	712	718	1024	681	285	74	0	4292
1934-35	0	9	2	362	443	817	920	734	403	356	105	0	4052
1935-36	0	0	40	223	413	1034	933	422	372	60	13	0	4548
1936-37	0	0	17	199	564	748	590	626	283	78	1	0	3890
1937-38	0	0	75	321	556	820	876	622	379	204	91	11	3955
1938-39	0	0	38	228	462	778	724	551	527	288	120	0	3716
1939-40	3	0	250	810	785	1265	777	736	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	223	13	0	3982
1942-43	2	0	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	875	950	670	192	125	27	3795	
1945-46	0	0	3	229	458	986	849	643	350	257	76	11	3860
1946-47	0	5	21	161	370	689	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	279	373								

STATION LOCATION

RICHMOND, VIRGINIA
BYRD FIELD
1963

Location	Occupied from	Occupied to	Ailine distance and direction from previous location	Latitude	Longitude	Elevation above										Remarks	
						Sea level		Ground									
						Ground	Actual barometer elevation (H_b)	Wind instruments	Extreme thermometers	Psychrometer	Tephychrometer	Tipping bucket rain gauge	Weighing rain gauge	6" rain gauge	Hygrothermometer		
High elevation in East Richmond	1-1880	2-1893				CITY OFFICE	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'N	77° 24'W	196			?							Capt. J C. Shafer, Temperatures only.	
State Library Building Capitol Square	9-18-95	5-22-97	4 mi. S	37° 32'N	77° 27'W	142										Section Center, No Observations.	
Chamber of Commerce Bldg. Ninth & Main Sts.	5-22-97	5-31-00	3/8 mi. SW	37° 32'N	77° 27'W	104	143.70	107	98	98		89		89		Observational Program begun 10-5-97.	
Times Bldg., 10th & Bank Sts.	5-31-00	6-30-05	1/8 mi. NE	37° 32'N	77° 27'W	115	156.90	92	82	82		76		76			
Mutual Assurance Bldg. 9th & Main Sts.	6-30-05	1-30-10	1/8 mi. SW			104	214.82	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'N	77° 25'W	162	169.59	53	11	11		3	a 4	3		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.	
Climatological observations were continuous at City Office sites 10-5-97 through 6-30-53.																	
AIRPORT STATION																	
WB-CAA Building	7-15-25	9-24-42	None	37° 30'N	77° 20'W	158	163.96	#	5	5	-	-	-	3		CAA to 8-3-30, instrument elevation unknown. 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 Hanger (Operations Annex)	9-24-42	4-19-46	1/2 mi. NNW	37° 30'N	77° 20'W	156	159.72	55	5	5	-	-	-	3		AF operation.	
Old Airport Administration Building	4-19-46	6- 1-50	1/3 mi. SSE	37° 30'N	77° 20'W	156	166.85	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'N	77° 20'W	162	180.24	b 20	6	6	-	3	-	3 a 5		a - Installed 2700 ft. ENE of thermometer site 6-26-59. b - 67 ft. to 1-11-61.	

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