

LOCATION OF OFFICE DECEMBER 31, 1901.

Street, *10<sup>th</sup> and Bank Sts.*

Number, *Tennis Bldg.*

Room, *22, 23, 24, 25.*

SUM OF BAROMETER CORRECTIONS.

From *8 A. m.* to *8 P. m.* *Dec 1* inc. *0.10* in.

From \_\_\_\_\_ m. to \_\_\_\_\_ m. inc., \_\_\_\_\_ in.

From \_\_\_\_\_ m. to \_\_\_\_\_ m. inc., \_\_\_\_\_ in.

REMARKS.

U. S. Department of Agriculture,

WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY

FOR

1901.

STATION:

*Richmond, Va.*

INSTRUCTIONS.

1. This form will be made out in duplicate at the end of the year, on the current edition.
2. Seventy-fifth meridian time must be used throughout this report.
3. If the elevation of the anemometer, thermometer, or rain gage has been changed, that on December 31 must be given. The dates and changes in elevation must be carefully recorded on the margin.
4. The sum of corrections, and all changes in the same, must be carefully noted under "Sum of Barometer Corrections," page 1, with the authority for the new correction; also the date and observation upon which it was first used.
5. When one or more observations are taken late, state the fact on the margin of page 2 in this way: One (or more) 8 a. m. (or 8 p. m.) observations taken late. Connect the note to the name of the month by a reference mark. When one or more observations are missed connect all data for less than a full month with a footnote, stating the length of time of the record.
6. The monthly mean pressure, dew-point, relative humidity, absolute range of pressure, and all other data, except as herein-after provided for, will be taken from the summary of Form 1001—Met'l. The last decimal in the case of the four elements above named will be disposed of in accordance with the usual rule.
7. In the space for date of highest and lowest pressure and temperature for the year enter the month and day thereof, as "July 6." The mean daily range and mean daily change of temperature will be taken from the columns similarly headed on page 6, Form 1001.

8. The data to be entered in the columns headed "Total" and "Possible" will be taken from the sum of the columns similarly headed on Form 1070. The "Percentage" will be taken from the monthly percentage of "Total." Stations not supplied with a sunshine recorder will leave these columns blank.

9. The prevailing wind direction for the year (at foot of column headed "Prevailing Direction") will be determined from the sums of "Number of times observed blowing from the N., NE., etc.," except at stations preparing page 8, or Form 1021, for the whole year. When Form 1021 is prepared and page 8 is not, it will be determined from the directions entered in the column headed "Prevailing Direction;" and when page 8 is prepared it will be determined from the sums of the time columns, page 8.

10. The mean hourly pressure (recorded to thousandths), temperature, and wind velocity will be taken from the mean values at the foot of Forms 1026 and 1022, respectively, and the data for entry in columns headed "For the month," from the average hourly pressure, temperature, and wind velocity, respectively. The base number will be entered once only, in the space provided for it on page 5. The data for entry on page 8 will be taken from the sums as recorded at the foot of page 5, Form 1001. The percentage for the year will be obtained by dividing the sum (multiplied by 100) of the miles and hours from each direction by the total number of miles and hours for the year, respectively. Stations not preparing page 5, Form 1001, will leave the columns on this page blank. Data for less than one-half of a month will not be recorded, and in case the data for one or more months are missing, the sums and means for the year will be omitted. All means will be obtained by dividing the sums of the respective columns by 12, and each mean will be recorded to the same number of decimal places as the data from which it is obtained are recorded.

11. A copy of this form will be forwarded to the office of the Chief of Bureau not later than the 15th day of January succeeding the year for which it is the record, in an envelope marked "Records."

WILLIS L. MOORE,  
Chief of U. S. Weather Bureau.

ANNUAL METEOROLOGICAL SUMMARY FOR 1901.—STATION

*Richmond, Va.*

Latitude N. *37° 32'* Longitude W. *77° 27'* Local time *0 h. 10 min.* (*t*) *Slower* than 75th meridian time.

MONTHS.	STATION PRESSURE. (Corrected for temperature, instrumental error, gravity, and removal.)							TEMPERATURE.										No. of Days.						
	STATION ELEVATION OF BAROMETER CISTERN ABOVE MEAN SEA-LEVEL, <i>144</i> FEET.							ELEVATION OF DRY THERMOMETER BULB ABOVE GROUND ON DEC. 31, <i>82</i> FEET.										Max. below 32°	Max. above 90°	Min. below 32°				
	MEAN.			Highest observed. (s.) (c.) In.	Date.	Lowest observed. (s.) (c.) In.	Date.	Absolute range. (s.) (c.) In.	MEAN.		FROM SELF-REGISTERING INSTRUMENTS.						Mean daily change. (d.)							
	8 a. m. (s.) (c.) In.	8 p. m. (s.) (c.) In.	Monthly. (s.) (c.) In.						8 a. m. (d.) °	8 p. m. (d.) °	MEAN.			High-est. (e.) °	Date.	Low-est. (e.) °		Date.	RANGE.					
									Max. (d.) °	Min. (d.) °	Month-ly. (d.) °			Abso-lute. (e.) °	Mean daily. (d.) °									
Jan.,	<i>29.92</i>			<i>30.61</i>	<i>20"</i>	<i>29.25</i>	<i>28"</i>	<i>1.36</i>	<i>34.8</i>		<i>46.9</i>	<i>30.7</i>	<i>38.8</i>	<i>68</i>	<i>9"</i>	<i>18</i>	<i>20</i>	<i>50</i>	<i>16.2</i>	<i>5.1</i>	<i>0</i>	<i>0</i>	<i>17</i>	
Feb.,	<i>29.88</i>			<i>30.25</i>	<i>11"</i>	<i>29.50</i>	<i>4"</i>	<i>.75</i>	<i>28.6</i>		<i>43.5</i>	<i>25.9</i>	<i>34.7</i>	<i>62</i>	<i>16"</i>	<i>18</i>	<i>1"</i>	<i>44</i>	<i>17.6</i>	<i>4.8</i>	<i>1</i>	<i>0</i>	<i>23</i>	
Mar.,	<i>29.84</i>			<i>30.31</i>	<i>7"</i>	<i>29.35</i>	<i>11"</i>	<i>.95</i>	<i>43.8</i>		<i>59.7</i>	<i>39.5</i>	<i>49.6</i>	<i>72</i>	<i>19"</i>	<i>15</i>	<i>7"</i>	<i>57</i>	<i>20.3</i>	<i>6.9</i>	<i>1</i>	<i>0</i>	<i>6</i>	
April,	<i>29.81</i>			<i>30.31</i>	<i>28"</i>	<i>29.17</i>	<i>3"</i>	<i>1.13</i>	<i>48.6</i>		<i>61.7</i>	<i>43.9</i>	<i>52.8</i>	<i>83</i>	<i>30"</i>	<i>38</i>	<i>1"</i>	<i>45</i>	<i>17.9</i>	<i>3.2</i>	<i>0</i>	<i>0</i>	<i>0</i>	
May,	<i>29.74</i>			<i>30.06</i>	<i>4"</i>	<i>29.43</i>	<i>28"</i>	<i>.63</i>	<i>61.3</i>		<i>74.9</i>	<i>56.1</i>	<i>65.5</i>	<i>88</i>	<i>1"</i>	<i>50</i>	<i>7"</i>	<i>38</i>	<i>18.8</i>	<i>4.1</i>	<i>0</i>	<i>0</i>	<i>0</i>	
June,	<i>29.88</i>			<i>30.05</i>	<i>10"</i>	<i>29.61</i>	<i>1"</i>	<i>.44</i>	<i>71.2</i>		<i>84.3</i>	<i>65.2</i>	<i>74.8</i>	<i>97</i>	<i>30"</i>	<i>56</i>	<i>1"</i>	<i>41</i>	<i>19.2</i>	<i>3.1</i>	<i>0</i>	<i>7</i>	<i>0</i>	
July,	<i>29.85</i>			<i>30.01</i>	<i>27"</i>	<i>29.75</i>	<i>31"</i>	<i>.26</i>	<i>77.5</i>		<i>90.3</i>	<i>71.6</i>	<i>81.0</i>	<i>99</i>	<i>1"</i>	<i>64</i>	<i>8"</i>	<i>35</i>	<i>18.7</i>	<i>2.7</i>	<i>0</i>	<i>16</i>	<i>0</i>	
Aug.,	<i>29.90</i>			<i>30.01</i>	<i>28"</i> <i>29</i>	<i>29.77</i>	<i>4"</i>	<i>.24</i>	<i>73.9</i>		<i>85.5</i>	<i>69.4</i>	<i>77.4</i>	<i>93</i>	<i>11"</i>	<i>64</i>	<i>2"</i>	<i>29</i>	<i>16.0</i>	<i>2.1</i>	<i>0</i>	<i>3</i>	<i>0</i>	
Sept.,	<i>29.94</i>			<i>30.28</i>	<i>26"</i>	<i>29.62</i>	<i>13"</i>	<i>1.66</i>	<i>66.6</i>		<i>78.8</i>	<i>61.2</i>	<i>70.0</i>	<i>91</i>	<i>15"</i>	<i>50</i>	<i>21"</i>	<i>41</i>	<i>17.6</i>	<i>3.4</i>	<i>0</i>	<i>1</i>	<i>0</i>	
Oct.,	<i>30.06</i>			<i>30.40</i>	<i>7"</i>	<i>29.64</i>	<i>3"</i>	<i>.76</i>	<i>52.8</i>		<i>69.9</i>	<i>48.3</i>	<i>59.1</i>	<i>83</i>	<i>23"</i>	<i>37</i>	<i>26"</i>	<i>46</i>	<i>21.6</i>	<i>4.1</i>	<i>0</i>	<i>0</i>	<i>0</i>	
Nov.,	<i>29.96</i>			<i>30.31</i>	<i>10"</i>	<i>29.30</i>	<i>24"</i>	<i>1.01</i>	<i>37.4</i>		<i>53.3</i>	<i>34.9</i>	<i>44.1</i>	<i>78</i>	<i>1"</i>	<i>19</i>	<i>29"</i>	<i>59</i>	<i>18.4</i>	<i>3.7</i>	<i>0</i>	<i>0</i>	<i>8</i>	
Dec.,	<i>29.97</i>			<i>30.35</i>	<i>7"</i>	<i>29.41</i>	<i>29"</i>	<i>.94</i>	<i>32.8</i>		<i>47.0</i>	<i>29.5</i>	<i>38.2</i>	<i>68</i>	<i>14"</i>	<i>9</i>	<i>22"</i>	<i>59</i>	<i>18.3</i>	<i>6.3</i>	<i>6</i>	<i>0</i>	<i>15</i>	
Sum.,	<i>358.75</i>										<i>796.5</i>													
Mean,	<i>29.90</i>			Highest.	Date.	Lowest.	Date.	<i>9.13</i>	<i>629.3</i>		<i>785.8</i>	<i>576.2</i>	<i>686.2</i>		Max.	Date.	Min.	Date.	<i>544</i>	<i>219.8</i>	<i>49.6</i>	<i>8</i>	<i>27</i>	<i>69</i>
				<i>Jan</i>	<i>20"</i>	<i>29.17</i>	<i>3"</i>	<i>.76</i>	<i>52.4</i>		<i>66.3</i>	<i>48.0</i>	<i>57.2</i>	<i>99</i>	<i>July</i>	<i>9</i>	<i>Dec.</i>	<i>22"</i>	<i>45</i>	<i>18.3</i>	<i>4.1</i>	<i>a.</i>	<i>a.</i>	<i>a.</i>

a.—Omit data from this space. c.—To hundredths. d.—To tenths. e.—To whole numbers. s.—Not to be filled out till end of year. t.—Enter the word "faster," or "slower," as the case may be.

MONTHS.	TEMPERATURE.								DEW-POINT.			RELATIVE HUMIDITY (Percentage).			VAPOR PRESSURE.			PRECIPITATION. (Amount in inches and hundredths).									SNOWFALL (total depth).
	No. of Days.																	ELEVATION OF TOP OF GAUGE ABOVE GROUND DEC. 31, <u>76</u> FEET.									
	MEAN.								MEAN.			MEAN.			TOTAL AMOUNT.	GREATEST AMOUNT IN ANY 24 CONSECUTIVE HOURS.		EXCESSIVE.									
	BELOW—		ABOVE—						8 a. m.	8 p. m.	Month-ly.	8 a. m.	8 p. m.	Month-ly.		8 a. m.	8 p. m.	Month-ly.	2.50 inches in 24 hours. (g.)		1 inch per hour. (g.)						
	14°	32°	41°	50°	59°	68°	77°	90°	(e.)	(e.)	(e.)	(e.)	(e.)	(e.)		(x.)	(x.)	(x.)	Am't.	Date.	Am't.	Dur't'n. (h. & m.)	Date.	Am't.	Dur't'n. (h. & m.)	Date.	
Jan.,	0	4	11	4	0	0	0	0	30			80.		.171			2.80	1.24	11" and 12"	none		none			5.5		
Feb.,	0	9	5	0	0	0	0	0	21			71		.115			0.55	0.21	9"	none		none			1.0		
Mar.,	0	2	27	17	4	0	0	0	36			75		.233			3.79	1.69	25" and 26"	none		none			1.4		
April,	0	0	30	17	3	0	0	0	39			71		.247			5.29	2.37	13" and 14"	none		none			7		
May,	0	0	31	31	27	7	0	0	55			80		.443			3.80	1.26	8"	none		none			0		
June,	0	0	30	30	30	24	13	0	65			81		.628			2.32	1.26	3"	none	1.02	0.33	3"		0		
July,	0	0	31	31	31	31	25	0	73			86		.811			5.06	1.67	12" and 13"	none		none			0		
Aug.,	0	0	31	31	31	31	17	0	71			91		.762			6.99	2.30	6 and 7"	none	1.01	0.27	6		0		
Sept.,	0	0	30	30	28	18	4	0	62			87		.576			3.21	1.04	12" and 13"	none		none			0		
Oct.,	0	0	31	29	14	1	0	0	47			80		.341			0.79	0.56	13" and 14"	none		none			0		
Nov.,	0	0	18	4	1	0	0	0	30			74		.175			1.37	1.25	23	none		none			0		
Dec.,	0	9	15	3	1	0	0	0	27			79		.165			6.08	1.50	14" and 15"	none		none			1.0		
Sum.,	0	24	290	227	170	112	59	0	556			955		4.667			42.05	a.	a.	a.	a.	a.	a.	a.	a.	8.9	
Mean,	a.	a.	a.	a.	a.	a.	a.	a.	46			80.		389			a.	237	13" and 14"	a.	a.	a.	a.	a.	a.	a.	

x.—To thousandths. g.—No entry unless the precipitation actually equaled or exceeded 2.50 inches in 24 consecutive hours, or 1 inch per hour, as the case may be.

MONTHS.	MEAN CLOUDINESS. (0 to 10.)			HOURS OF SUNSHINE.			WIND. ELEVATION OF ANEMOMETER CUPS ABOVE GROUND DEC. 31, <u>90</u> FEET.											NUMBER OF DAYS.													
	8 a.m. (d.)	8 p.m. (d.)	Monthly. (d.)	TOTAL.	POSSIBLE.	PERCENTAGE.	TOTAL MOVE- MENT IN MILES.	PRE- VAILING DIREC- TION.	MAXIMUM HOURLY VELOCITY DURING MONTH.			NO. OF DAYS WITH GALES.  (h.)	DIRECTION.  NUMBER OF TIMES OBSERVED BLOWING FROM THE—								No. OF CALMS.	CLEAR.	PARTLY CLOUDY.	CLOUDY.	PRECIPITATION.				THUNDERSTORMS.	AURORAS.	
									Miles.	From.	Date.		N.	NE.	E.	SE.	S.	SW.	W.	NW.					.01 inch and over.	.04 inch and over.	Snow. X	Hail.			Fog.
Jan.,	5.6		5.2				4165	NW	25	NW	19"	0	11	7	1	2	11	13	3	13	1	14	5	12	8	7	4	0	1	0	0
Feb.,	3.8		4.1				4174	NW	26	NW	4"	0	3	6	3	4	3	11	9	17	0	14	9	5	7	5	3	0	0	0	0
Mar.,	4.6		5.6				5356	SW	33	SW	11"	0	4	6	1	6	15	12	6	11	1	8	12	11	10	9	1	0	1	3	0
April,	5.8		5.9				5042	N	30	SW	3"	0	20	6	4	8	6	3	3	10	0	9	6	15	14	8	0	0	0	1	0
May,	6.9		6.4				3791	NE	28	S	22"	0	8	11	12	8	8	8	2	3	2	5	12	14	19	14	0	0	0	6	0
June,	4.9		5.3				3522	S	21	W	3"	0	4	8	5	7	12	17	2	5	0	9	14	7	7	5	0	0	1	4	0
July,	5.6		5.5				4216	SW	26	W	6"	0	5	7	5	2	9	25	2	5	2	10	11	10	9	8	0	0	1	12	0
Aug.,	5.5		5.6				3483	S	20	NW	1"	0	8	11	4	6	21	8	3	1	0	6	15	10	14	12	0	0	0	6	0
Sept.,	4.3		5.4				3573	N	26	W	15"	0	19	18	5	1	4	9	1	3	0	8	14	8	8	6	0	0	1	4	0
Oct.,	3.2		3.1				3169	N	19	NW	17"	0	20	6	1	9	12	4	3	3	4	19	8	4	4	4	0	0	4	0	0
Nov.,	3.0		3.7				4121	N	24	NW	25"	0	18	7	1	3	7	4	6	13	1	17	6	7	5	4	0	0	1	0	0
Dec.,	5.8		5.6				4389	N	35	SW	15"	0	18	11	0	1	16	5	4	4	3	11	7	13	11	11	1	0	0	0	0
Sum.,	59.0		61.4				49021	"	"	"	"	0	138	104	42	57	124	119	44	88	14	130	119	116	116	93	9	0	10	36	0
Mean,	49.4		51.1				"	N	35	SW	15"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"

h.—Days with 40 miles per hour and over. j.—One entry only.

x apparently does not include days with T. From 1001, p. 6, shows 5 days.