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**GENERAL SUMMARY.**

THE year 1907, as a whole, was colder and wetter than usual. Beginning with April and continuing until the 20th of June, the weather was persistently and decidedly cold and unseasonable. In fact, this cold spell was so prolonged and unusual that the year was popularly considered as one without a spring. The advance of vegetation was greatly retarded and farming operations were much hampered. Summer opened with normal weather conditions, but was, for the most part, cooler than the average. The autumn was also colder than usual, while the winter was warmer, especially the month of January, which was the warmest on record.

The annual temperature of the State, 54.3 degrees, was 1.1 degrees below the normal. The deficiency in temperature was general except in the southern portion of Washington county, where there was a slight excess. Norfolk with an annual mean temperature of 58.6 degrees was the warmest place in the State, and Burkes Garden, annual mean 48.7 degrees, the coldest. The highest temperature, 100 degrees, occurred at Saxe, on July 26th, and the lowest, -16 degrees, at Dale Enterprise, on February 7th.

Over most of the eastern half of the State the last killing frost of the spring occurred on April 21st or 22d, while in the western half, especially the mountain districts, killing frost was quite general on May 22d. The first killing frost in the autumn occurred on August 9th in the Great Valley division; October 12-13th in Middle Virginia, and October 22d in Tidewater Virginia.

The annual precipitation was above the normal in all parts of the State except in the extreme southeast Tidewater counties, and in Hanover, Albemarle, Franklin and Wythe counties, where it was below normal. June, with an average rainfall of 6.34 inches, was the wettest month of the year, and October, with an average of 1.43 inches, the driest. The annual precipitation ranged from 55.78 inches, at Spottsville, Surry county, to 28.43 inches, at Cape Henry, Princess Anne county. Marion, Smyth county, had the greatest local monthly rainfall, the amount being 11.44 inches, in June, while at Danville, Pittsylvania county, the least local monthly amount, 0.33 inch, was recorded in January. The most rainy days occurred in the driest parts of the State, the average number being 123, while in the wettest parts the average was 116 days.

Snow fell in each month of the winter and in all parts of the State, the monthly amounts varying from trace, along the coast, to about 17 inches in Frederick county. By months, the greatest local monthly snowfalls were: January, 8.8 inches;

February, 17.0 inches; March, 14.0 inches; April, 12.7 inches; October, trace; November, 5.6 inches, and December, 6.6 inches.

There were 159, or 44 per cent, of clear days; 115, or 31 per cent partly cloudy days, and 91, or 25 per cent cloudy days during the year. The prevailing wind for the State was from the southwest.

**THE WEATHER BY MONTHS.**

JANUARY was the warmest month of that name during the period of record, which extends back to 1892, inclusive. The mean temperature was 6.0 degrees above the normal. The maximum temperature was the highest of record, but the minimum was not as low as has occurred in the month in several preceding years. Precipitation was light, the average for the State, 1.65 inches, being about an inch and a half below the normal. There was, however, an excess of cloudy, unsettled weather, and the number of days with precipitation was above the average. Snow was recorded on various dates in all parts of the State, the average for the month being 2.5 inches.

THE opening days of February were rather mild and a majority of stations recorded their highest temperature on either the 2d or 3d. Colder weather set in on the 4th, however, and on the 7th the lowest temperatures of the month were observed. The month, as a whole, was colder than normally, the deficiency in temperature being 2.5 degrees. The maximum temperature, 68 degrees, and the minimum, -16 degrees, were lower than is usually recorded in the month. Precipitation was 1.03 inches below the normal. By sections, Tidewater Virginia had the greatest amount and Middle Virginia the least. Snowfall was heavier and more frequent than in January.

MARCH was unusually warm, the mean temperature, 50.7 degrees, being 5.6 degrees above the normal. The highest temperature, 96 degrees, is without a parallel in the records for the month. The average precipitation, altho below the normal, was well distributed both as to area and date of occurrence. Light snow fell on various dates, the amounts being least in the Tidewater division and greatest in the Great Valley division. Local storms occurred at several stations on the night of the 5th-6th. In each case they were accompanied by snow flurries, high winds and falling temperature, and in some instances by an electrical display.

THROUGHOUT April the weather was unseasonably cold, the mean temperature being the lowest of record for the month. The precipitation was above the normal in all sections and its distribution remarkably uniform. Measurable amounts of snow fell locally in the eastern portion of the State on the 1st and 13th, and generally in the central and western portions on various dates between the 6th and the 14th, inclusive. Killing frosts occurred in all sections on the 3d and the 21st, and in the central and western portions on several other dates in each decade.

MAY was the coldest on record for the State. Some rather high maximum temperatures, 90 to 92 degrees, occurred in each division on the 19th, however. Precipitation was above normal in the Tidewater section and below normal in the Middle Virginia and the Great Valley sections. Killing frosts were general on the 12th, and occurred at numerous stations in the central and western counties on the 5th, 13th, 17th, 20th, 21st, 22d, 27th and 28th. Heavy 24-hour rainfalls occurred at



Richmond, on the 6-7th, 2.39 inches, and at Doswell, on the 16th, 3.60 inches.

JUNE, like the preceding month, was also the coldest on record, the mean temperature, 66.0 degrees, being 6.0 degrees below the normal. During the first and second decades, the temperatures were persistently low, but on the 21st, the weather became warmer, and thereafter until the close of the month it remained seasonable. The highest temperatures occurred on the 25th, in the Tidewater counties, and on various dates between the 21st and the 26th in the Middle Virginia and the Great Valley counties. Precipitation was largely in excess of the normal and was the greatest on record for the month. Heavy rains fell in the eastern and central sections on the 1st, and in the western section on the 1st, 8th and 13th. At Ivanhoe, in Wythe county, and Marion, in Smyth county, monthly amounts of 10.11 inches and 11.44 inches, respectively, were recorded, while at numerous other stations in the western section monthly amounts of from 6 to 9 inches occurred.

JULY. The average temperature for the month was very near the normal, and the rainfall was deficient. Over the southeastern and the extreme southwestern counties the weather was warmer than usual, and in the remaining portions of the State it was cooler. High day temperatures occurred on the 8th, 9th, 11th, 24th and 26th, but the nights were, for the most part, cool. Rainfall was decidedly deficient in most of the Tidewater and the Middle Virginia divisions; also locally in the Great Valley division, but in the southern part of the latter district, and at mountain stations in its central and northern parts, more than an average amount occurred.

AUGUST was cooler and drier than usual. The mean temperature averaged about two degrees below normal and the rainfall nearly half an inch below. The month was characterized by frequent fluctuations in temperature. The warmest days were the 2d, 8th, 12th to 15th, 21st and 30th, and the coolest the 4th, 5th, 26th and 27th. Some heavy 24-hour rainfalls occurred with thunderstorms on the 9th and 10th. On the latter date 4.30 inches fell at Warsaw, Richmond county.

THE mean temperature for September was about one degree above the normal. By divisions, the excess was greatest in the Tidewater counties, where it averaged about two degrees, and least in the Great Valley counties, where it averaged a little more than half a degree. Warm weather prevailed on the 2d, and from the 17th to 21st, inclusive, and the highest temperatures recorded were observed at most stations on the 21st. After this date cool weather set in and frosts occurred generally in the Great Valley section on the 25th, 26th and 27th. Precipitation was above the normal in each of the general divisions of the State, being decidedly so in Middle Virginia and in the Great Valley, where the excess was from about two and a half to three and a third inches, respectively. Numerous heavy 24-hour rainfalls occurred, the greatest of which was six inches at Roanoke, Roanoke county, on the 23d, while monthly amounts varying from six to over ten inches were recorded in the Middle Virginia and the Great Valley sections.

OCTOBER was a cool, dry month. The mean temperature was nearly four degrees deficient, as compared with the normal, while the precipitation was about an inch and three-quarters deficient. On the 3d, the warmest day of the month, maximum temperatures ranging from 80 degrees in the Great Valley division to 89 degrees in the Tidewater counties, were recorded. Cool periods occurred in the first and the second decades and killing frosts were quite general in the Middle Virginia and the Great Valley sections on the 9th, 12th, 14th to 16th and the 22d. Light snow flurries prevailed locally

in the Great Valley section on the 13th and the 28th, and sleet locally in the west-central portion on the 31st.

THRUOUT November the weather was stormy and cold. The average temperature was 1.5 degrees below the normal, the precipitation, 2.33 inches above the normal and the sunshine decidedly deficient. A protracted cold spell prevailed from the 11th to about the 20th. Just prior to the 11th warm weather was general and the highest temperatures of the month occurred on the 9th and 10th. Snow fell in most portions of the State on the 12th; also in the mountain districts on the 13th, 18th and 24th. There were one, or more, periods of general and heavy precipitation in each week of the month, those occurring in the last week being specially heavy and persistent.

DECEMBER was warmer and had more precipitation than usual. The average temperature was 1.5 degrees above the normal. The first six days of the month were quite cold and the lowest temperatures at many stations occurred at this time. The last ten days, on the other hand, were warmer than normal, especially the 28th, on which date the highest temperatures were recorded at nearly all stations. There were six periods of general precipitation, in four of which the amounts recorded were moderate to heavy. The greater part of the precipitation of the month occurred with these four storms. Thunderstorms were reported from scattered stations on the 10th and the 30th, while light snow flurries occurred locally over the State between the 1st and the 5th, inclusive, and light, general snows in the Great Valley division on the 18th. Sleet was quite general with the storm of the 13-14th.

ERRATA.

Annual Summary, 1906: Cape Henry, date of last killing frost in the spring, recorded March 1st; should be March 24th. Date of first killing frost in the autumn, recorded October 11th; should be December 4th. Mount Weather, date of last killing frost in the spring, May 10th.

KILLING FROSTS.

Table of Dates of Last Killing Frost in the Spring and the First Killing Frost in the Autumn.

Station.	Last killing frost in Spring.	First killing frost in Autumn.	Station.	Last killing frost in Spring.	First killing frost in Autumn.
TIDEWATER VIRGINIA.			MIDDLE VIRGINIA—Continued.		
Ashland	Apr. 21	Oct. 14	Nokesville	Apr. 21	Oct. 22
Cape Henry	Apr. 2	Oct. 22	Quantico	Apr. 21	Oct. 22
Cashville	May 12	Oct. 13	Rocky Mount	Apr. 21	Oct. 13
Dinwiddie	Mar. 27	Oct. 13	Saxe	Apr. 21	Oct. 22
Doswell	Apr. 21	Oct. 13	Washington, D.C.	Apr. 3	Oct. 22
Hampton	Apr. 3	Oct. 22	THE GREAT VALLEY.		
Newport News	Apr. 20	Nov. 14	Big Stone Gap	Apr. 21	Oct. 15
Norfolk	Mar. 16	Nov. 14	Blacksburg	May 22	Oct. 9
Petersburg	Apr. 21	Oct. 22	Bristol	Apr. 21	Oct. 15
<b>RICHMOND</b>			Burkes Garden	May 22	Oct. 9
Spottsville (near)	May 12	Oct. 14	Dale Enterprise	May 28	Oct. 9
Warsaw	Apr. 20	Oct. 16	Ejk Knob	Apr. 20	Oct. 13
Williamsburg	Apr. 21	Oct. 22	Galax	May 22	Oct. 9
MIDDLE VIRGINIA.			Hot Springs	May 21	Sept. 25
Arvonia	May 12	Oct. 9	Lexington	May 22	Oct. 14
Callaville	Apr. 20	Oct. 22	Marion	May 22	Oct. 15
Charlottesville	Apr. 7	Nov. 12	Max Meadows	May 22	Oct. 15
Columbia	Apr. 21	Oct. 14	Roanoke	Apr. 18	Oct. 15
Culpeper	Apr. 21	Oct. 15	Shenandoah	Apr. 18	Oct. 13
Fredericksburg	Apr. 20	Oct. 22	Stanton	May 28	Oct. 9
Lincoln	May 12	Oct. 15	Stephens City	May 12	Oct. 9
Lynchburg	Apr. 18	Oct. 15	Woodstock	May 21	Oct. 12
Mount Weather	Apr. 2	Oct. 14	Wytheville	Apr. 21	Oct. 9