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GENERAL SUMMARY FOR THE YEAR 1906.

THE month of January was unusually warm, the temperature departure, based on all reporting stations having ten, or more, years' record, being 5.7 degrees above the normal. The mean temperature, 40.8 degrees, was the highest January mean yet recorded. Generally, the coldest weather was experienced on the 9th and 10th, when minimum readings ranging from 2 degrees in the Great Valley section to 22 degrees in Tidewater Virginia, were recorded. The absolute maximum temperature, 77 degrees, was, with one exception, the highest of record for January. The average precipitation for the State, 3.73 inches, was about two-thirds of an inch above the normal. The major part of this precipitation fell on the 3d, 14th, 22d, 23d and 27th, but there were numerous other days on which either rain or snow occurred; in fact, there were but three days without precipitation somewhere in the State. The snowfall was light, as a rule, and local, except on the 8th and 9th, when it was reported in all parts of the State.

Prevailing wind direction, SW.

FEBRUARY was slightly warmer than ordinarily, the temperature excess being but 0.9 degree. For the most part, the coldest weather occurred on the 3d, when minimum temperatures ranging from 2 degrees below zero in the Great Valley to 20 degrees above in the Tidewater counties were recorded. Except on the 13th and 14th, which were rather warm, the daily mean temperatures were generally below normal until the 19th, on which date a period of high day and moderate night temperatures set in that lasted until the 27th. It then grew colder, and the 28th gave the absolute minimum for the month at a few stations in the Middle Virginia and Tidewater sections. The average precipitation, 1.76 inches, was about half the quantity usually occurring. This deficiency, however, was not general, Tidewater Virginia having more than the normal amount and each of the other divisions much less, especially the Great Valley, where the monthly average was but 0.89 of an inch.

Prevailing wind direction, NW.

DURING March there were several extended periods in which the average daily temperatures thruout the State were persistently below normal, and to this fact may be ascribed the low monthly mean temperature that obtained, 40.2 degrees. This was about half a degree colder than the average temperature of the month of January for this year, and constitutes the lowest March mean of which there is any record. All stations showed an unusually low mean daily range of temperature, and each one for which an average was determined showed a more or less marked deficiency as compared with the normal. However, while the mean was thus low, the lowest tempera-

ture recorded during the month, 8 degrees, was higher than has been the case in March of a number of years of record, while the highest reported, 71 degrees, was 21 degrees lower than the highest previously observed in March, and was the lowest absolute maximum for the month in the past fifteen years. The average precipitation for the State, was 4.65 inches, or 0.69 of an inch above the normal. Considered by sections, the Tidewater division received by far the greatest amount, the average being 5.27 inches, while there was a quite uniform decrease in the amounts recorded westward to the Great Valley division. There were only five days on which measurable amounts were not reported in any division. Snow fell on various dates in the Middle Virginia and Great Valley sections, and generally thruout the State on the 24th-25th, the latter being the heaviest snowstorm of the month.

Prevailing wind direction, NE.

APRIL weather conditions formed a decided contrast to those of the preceding month. The mean temperature for the State, 56.2 degrees, was 2.4 degrees above the normal, and, with two exceptions, was the highest April mean on record. A high percentage of sunshine also obtained, and the average daily range of temperature was, consequently, much greater than normally. Temperatures at and below the freezing point were frequent, tho but little damage from frost was reported. The coldest weather occurred during the period 1st to 3d, inclusive. The warm period that set in on the 25th lasted during the remainder of the month, and gave the maximum readings in all parts of the State. Precipitation was below normal in all sections. The average for the State, 2.41 inches, was about three-fourths of an inch deficient as compared with the normal, the deficiency being greatest in the Tidewater counties, where it was 1.41 inches, and least in the Great Valley section, where it was 0.35 of an inch. Practically, no snow fell during the month, only trace being recorded at two stations. Hail fell, locally, on various dates in each section, and heavy rains occurred on the 9th, 14th-15th, 22d and 26th. No freshet stages resulted, however, in the rivers of the State.

Prevailing wind direction, W.

ALTHO May had a period of unusually cold weather, that lasted the better part of a week, and during which light to killing frosts and temperatures at and below the freezing point were observed, the monthly mean temperature, 64.2 degrees, was but 0.5 of a degree below normal. The deficiency in temperature resulting from this cold spell was, practically, made up by the unseasonably warm weather that followed it, and which culminated in maximum readings of from 90 to 97 degrees, on the 18th and 19th. The average amount of precipitation was deficient in all of the general divisions of the State, the departure being 1.09 inches below the normal. Unsettled weather, with severe local storms, prevailed early in the month and the greater part of the monthly amount was deposited during the first decade. Snow was reported early in the month at several stations in the Great Valley division, the amounts being trace except at one station, Skyland, where two-tenths of an inch was recorded.

Prevailing wind direction, SW.

THE month of June was characterized by unsettled weather, a marked deficiency in sunshine, temperatures about normal, with small daily ranges, and precipitation considerably above normal. Two heated periods occurred, one in the first decade and the other at the close of the month. During the latter, the absolute maximum temperature for the month, 102 degrees, was recorded. Three cool periods obtained, one in each decade, and the absolute minimum for the month, 43 degrees, occurred on the 22d. The number of rainy days during the

month, 13, exceeded by one the record of any previous June. As a result, precipitation was quite decidedly above normal in each section. Thunderstorms were frequent, but not severe. Some heavy 24-hour rainfalls were reported in each of the three divisions of the State, and hail fell, locally, in Tidewater and Middle Virginia on several dates in the first and third decades.

Prevailing wind direction, SW.

JULY, like the preceding month, had much cloudy weather. For this reason the daily range of temperature was, relatively, small and the sunshine deficient, as compared with the normal. The percentage of humidity was high also, especially during the period 16th to 23d, inclusive. The maximum temperatures were, almost without exception, observed on the 1st or 2d, while the minimum occurred at most stations during the cool spell that prevailed from the 6th to 8th, inclusive. The monthly mean, 74.0 degrees, was 1.7 degrees below normal. Rain fell on every day of the month and the State average, 6.05 inches, was the largest of record for July with two exceptions. In all parts of the State showers were of almost daily occurrence, and the opinion that the rainfall was unprecedented was quite general among all classes. This, however, was not the case, both July of 1896 and 1905, respectively, exceeding it by 0.95 of an inch and 0.87 of an inch. Twenty-four-hour amounts ranging from 1.00 inch to 2.75 inches, occurred on 20 days, but there were no flood rises of importance in any of the rivers of the State.

Prevailing wind direction, SW.

AUGUST was 1.9 degrees warmer than normally, tho there were no periods of unseasonably high temperature. For the most part, the days were moderately warm and the nights sultry. The monthly mean for the State, 76.2 degrees, when compared with similar data for August of the preceding 15 years of record, is found to be lower than that of 1900 by 3.2 degrees, and higher than that of 1902 by 5.1 degrees. Both the absolute maximum, 98 degrees, and the absolute minimum, 50 degrees, are well within the record. The average rainfall for the month, 9.51 inches, was phenomenal. It exceeded "in every feature of record not only the August data for the preceding 15 years, but also, except in 24-hour amounts, the record of any other month since the climatological service was established in the State." The highest previous August average, 8.86 inches, in 1901, is unusually large, tho less than that of this August by nearly three-quarters of an inch. Twenty stations reported monthly amounts ranging from 10 to nearly 15 inches, while three stations had 15, or more, inches. It is remarkable that, notwithstanding this excessive rainfall, no flood conditions occurred in any of the rivers of the State, excepting the Appomattox river, which, from the 28th to the 31st, reached a height equaling, if not exceeding, any previously recorded.

Prevailing wind direction, S.

ALTHO during September the mean temperature was 3.4 degrees above the normal, there were no excessively warm days, the departure being due to a condition of both day and night temperatures slightly but quite persistently above normal. The absolute maximum, 95 degrees, was, with two exceptions, the lowest of record for the month, while the absolute minimum was the highest, with one exception. The average rainfall, 2.24 inches, was nearly an inch and a quarter less than the normal. It was unequally distributed, Tidewater Virginia having a deficiency of about 3 inches, while in the Great Valley division it was half an inch in excess.

Prevailing wind direction, NE.

OCTOBER weather conditions were abnormal in respect to temperature, precipitation and cloudiness. The mean tem-

perature, 55.8 degrees, was 1.4 degrees below normal, while the absolute maximum for the State, 85 degrees, was the lowest of any October of record. The number of cloudy days was large. The monthly precipitation, 6.38 inches, was 3.23 inches in excess of the normal. In no previous October of record has so great an amount fallen. Locally, some phenomenally heavy monthly amounts were reported, as at Mount Weather, Loudonn county, 11.83 inches, and Skyland, Page county, 15.21 inches, while at numerous stations the monthly totals ranged from 9 to 10 inches. Unusually heavy 24-hour amounts were also recorded, the greatest being 6.07 inches, at Mount Weather, on the 19th-20th. On these dates general and heavy rains fell, causing freshets in nearly all of the rivers of the State. These conditions were forecast well in advance and no avoidable damage resulted.

Prevailing wind direction, NE.

NOVEMBER. The temperature conditions of the month were nearly normal, the departure being but 0.8 degree in excess. There were no periods of specially warm or cold weather, and the absolute maximum and minimum values for the State, 82 degrees and 12 degrees, respectively, were well within the record. The monthly precipitation, 2.19 inches, was somewhat deficient, the departure being 0.30 of an inch. Considered by divisions, however, the deficiency was greatest in the Tidewater counties, where it exceeded an inch. From that section westward precipitation increased, and in the Great Valley division it exceeded the normal by about half an inch. On the 18th-19th general and heavy rains occurred and the greatest 24-hour amounts were recorded. Some rather high stages of water were reached in the James river, resulting from these rains, but no freshets occurred. The number of cloudy days was small, and hence sunshine was abundant.

Prevailing wind direction, NW.

DECEMBER was slightly warmer than normally and practically normal as to precipitation. The mean temperature, 38.9 degrees, was 1.0 degree in excess of the normal. The absolute maximum at nearly all stations occurred on the 15th. This day was warm, and at a number of stations the previous

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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	May 11	Oct. 11	Nokesville	May 11	Oct. 12
Cape Henry	Mar. 27	Oct. 11	Quantico	May 11	Oct. 11
Dinwiddie	May 11	Oct. 7	Rocky Mount	May 10	Oct. 11
Doswell	May 11	Oct. 12	Washington	May 11	Oct. 12
Hampton	Apr. 3	Oct. 12	THE GREAT VALLEY.		
Newport News	Apr. 3	Oct. 12	Big Stone Gap(A)	May 8	Oct. 11
Norfolk	Mar. 21	Nov. 13	Big Stone Gap(B)	May 8	Oct. 11
Petersburg	May 10	Oct. 10	Blacksburg	May 11	Oct. 12
RICHMOND	Apr. 7	Oct. 12	Bristol	May 10	Oct. 11
Spottsville (near)	May 11	Oct. 12	Burkes Garden	May 11	Oct. 12
Warsaw	May 11	Oct. 12	Dale Enterprise	May 11	Oct. 12
Williamsburg	May 11	Oct. 13	Elk Knob	May 10	Oct. 11
MIDDLE VIRGINIA.			Grahams Forge	May 11	Oct. 12
Arvonnia	May 11	Oct. 12	Hot Springs	May 10	Oct. 12
Barboursville	May 11	Oct. 11	Lexington	May 11	Oct. 10
Callaville	May 10	Oct. 11	Marion	May 11	Oct. 12
Charlottesville	Apr. 1	Oct. 11	Romoke	May 11	Oct. 11
Columbia	May 8	Oct. 11	Shenandoah	May 11	Oct. 12
Farmville	May 12	Oct. 11	Skyland	May 11	Oct. 10
Fredericksburg	May 11	Oct. 11	Staunton	May 11	Oct. 11
Lincoln	May 11	Oct. 13	Stephens City	May 11	Oct. 12
Lynchburg	Apr. 4	Oct. 11	Woodstock	May 11	Oct. 11
Milford	May 10	Oct. 12	Wytheville	Apr. 3	Oct. 10
Mount Weather	May 10	Oct. 11			

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high temperature record for December was exceeded. Notwithstanding that precipitation was almost normal in quantity, the number of rainy days, 10, was the greatest on record for the month with one exception. There were six well-defined periods of general precipitation, of which the 17th gave, as a rule, the greatest 24-hour amounts. These, however, were not large, as compared with similar data for the month, the greatest being 1.58 inches. A thunderstorm occurred on the 6th, while snow fell on the 20th, 24th and 25th, the amounts being fairly heavy in the Great Valley division on the last two dates. Freezing rains fell on the 20th and 21st at some stations.

Prevailing wind direction, NW.

ERRATA.

Annual Summary, 1905: Arvonja, December mean temperature, recorded 36.3; should be 36.4. Nokesville, May mean temperature, recorded 65.8; should be 65.6. Charlottesville, April mean temperature, recorded 56.6; should be 57.6. Dale Enterprise, May mean temperature, recorded 64.6; should be 64.3. Dale Enterprise, annual mean temperature, recorded 52.2; should be 52.1. Spottsville, January monthly precipitation, recorded 4.07; should be 4.04. Spottsville, annual precipitation, recorded 48.88; should be 48.85. Ashland, December precipitation, recorded 5.64; should be 6.58. Ashland, annual precipitation, recorded 38.33; should be 39.27. Norfolk, date of first killing frost, November 4th; should be November 15th.