

tumn Quarter $46^{\circ}10$ degrees; the temperature for the same period of last year (1860) was Winter Quarter $12^{\circ}59$ degrees, Spring Quarter $45^{\circ}55$ degrees, Summer Quarter $67^{\circ}63$ degrees, and Autumn Quarter $46^{\circ}49$ degrees. A thermometer sunk 18 inches in the ground showed a temperature of, in May $49^{\circ}9$, in June $59^{\circ}8$, in July $60^{\circ}0$, in August $66^{\circ}0$, in September $58^{\circ}0$, in October $53^{\circ}0$, and in November $47^{\circ}4$. The range of temperature or climatic difference exceeded by $19^{\circ}2$ degrees the range of 1860; below is a table of the climatic difference for each month of 1861:—

January.....	$66^{\circ}.5$	May.....	$42^{\circ}.9$	September...	$44^{\circ}.6$
February.....	$90^{\circ}.3$	June.....	$59^{\circ}.6$	October.....	$42^{\circ}.4$
March.....	$65^{\circ}.5$	July.....	$51^{\circ}.8$	November....	$28^{\circ}.6$
April.....	$55^{\circ}.3$	August.....	$43^{\circ}.3$	December ...	$56^{\circ}.9$

February shows an excessive range of temperature; this was owing to the extreme *cold term* of that month; November shows the least climatic change, and this is rather unusual for November; the range for November 1860 was $59^{\circ}4$ degrees, the mean range for November for a series of years being $61^{\circ}1$ degrees; the 1st frost of the Autumn occurred on the 5th of September; a sudden all of temperature took place in March, at 2 p.m. on the 16th day the thermometer stood at $36^{\circ}7$ degrees, and in 24 hours it fell to $-5^{\circ}0$ degrees below zero, showing a difference of $41^{\circ}7$ degrees in that short period; this sudden change was accompanied by a rise in the barometer and a high wind from the west; December showed a *cold term* but of short duration; the following table shows the temperature:—

Dec. 20th, at 9 p.m.—	0.0
Midnight—	10.0 (below zero)
21st, 6 a.m.—	10.1 “
11 “ —	3.2 “
Noon—	0.5 “
0.20 0.0	“

This was the 1st cold term of the winter 1861-2.

Humidity of the Atmosphere.—The mean relative humidity of the year was 0.774, saturation being equal to 1.000. The following table shows the relative humidity for each month:

January.....	.752	May.....	.770	September...	.804
February....	.755	June.....	.735	October.....	.843
March.....	.768	July.....	.765	November...	.787
April.....	.780	August.....	.736	December796

June was the driest month of the year, but July has been the driest for a series of years. Complete saturation occurred only once during the year.

Rain.—Fell on 106 days, amounting to 46.701 inches; it was raining 531 hours and 14 minutes, and was accompanied by thunder on 16 days; the number of days on which rain fell exceeded by 13 the number of days of rain of 1860, and by 112 hours 12 minutes, but was 5 days less than the number of rainy days in 1859, but exceeded by 33 days the amount of days of rain com-