

CHAPTER XIX.

CLIMATE: SUPPLEMENTARY.

1400. The following tables are introduced as a supplement to Chapter I. See § 1384. In the chapter referred to, the weather tables embrace observations taken previous to 1860. In this, the observations at one station, Glenwood, (page 14,) are brought down to 1868.

1401. APPENDIX TO § 30.

*"Tabular Abstract of monthly Mean Temperature, for the years 1861 to 1868 inclusive, observed at Glenwood, Montgomery County, Tennessee."*

The figures show the temperature to hundredths of a degree.

	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.
January.....	37.55	42.11	40.91	32.91	31.39	38.11	31.74	31.00
February.....	44.55	39.53	41.62	38.80	41.61	37.36	45.26	39.91
March.....	48.49	47.83	47.38	42.10	50.88	47.28	39.86	55.04
April.....	57.65	58.57	57.69	52.80	58.67	61.54	57.58	55.44
May.....	63.53	65.63	63.88	63.00	65.70	62.86	61.40	65.30
June.....	74.61	69.58	67.84	72.30	74.61	71.33	73.82	71.93
July.....	73.24	75.19	73.22	75.87	75.72	77.44	74.67	79.42
August.....	73.21	76.33	73.03	73.92	74.25	72.24	74.54	72.98
September.....	68.19	70.33	65.20	68.94	74.13	67.95	71.90	65.76
October.....	57.64	57.05	50.60	52.70	55.91	58.09	69.59	55.99
November.....	49.96	45.73	46.89	47.37	47.54	48.88	49.57	44.71
December.....	43.75	42.49	40.57	37.87	40.40	37.43	42.07	33.37
Mean.....	57.69	57.53	55.73	54.88	57.57	56.71	57.67	55.90
Annual Mean for 8 years.....	56.71.							

1402. APPENDIX TO § 34.

*Tabular Statement of the occurrence of Frost, during the period from 1861 to 1868, inclusive.*

	Last frost in Spring.	First light frost in Autumn.	First killing frost or skim ice.	No. of days free from frost.	No. of days free from killing frost.
1861..	April 20.....	September 21..	October 24.....	153	186
1862..	April 26.....	October 18.....	October 20.....	174	176
1863..	April 9.....	September 19..	October 6.....	162	178
1864..	April 18.....	October 10.....	October 14.....	174	177
1865..	March 26.....	October 5.....	October 16.....	192	202
1866..	April 10.....	October 21.....	October 24.....	193	195
1867..	May 8.....	October 1.....	October 31.....	145	175
1868..	April 8.....	.....	October 9.....	184	.....
	Mean of 8 years.....			172	184

1403. The following is one of the most interesting Tables of the Series, from an agricultural point of view. It shows the vicissitudes of temperature to which vegetation is exposed—an important consideration. It is, also, highly interesting in other respects, which will be appreciated by the intelligent reader.

### CLIMATIC TABLE,

SHOWING THE MONTHLY EXTREMES, AND RANGE OF TEMPERATURE, FOR THE YEARS 1851 TO 1868, INCLUSIVE.

MONTHS.	1851.			1852.			1853.			1854.			1855.			1856.			1857.			1858.			1859.				
	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.		
January.....	83	11	57	67	7	74	59	17	42	70	5	65	66	9	57	57	1	58	48	8	56	48	8	62	28	34	58	8	50
February.....	72	25	47	74	23	51	49	67	14	53	21	49	62	7	54	45	3	48	77	16	61	68	8	60	74	18	61	13	41
March.....	76	28	50	84	23	61	76	61	24	52	30	31	49	17	58	67	16	51	80	18	62	79	17	62	75	34	41	52	
April.....	76	35	41	82	37	45	85	40	45	86	30	56	90	36	54	85	32	53	71	22	49	80	34	46	83	31	54	30	
May.....	91	34	57	87	46	41	84	51	33	86	42	44	93	43	50	86	46	46	84	45	39	85	45	40	84	54	30	48	
June.....	92	56	36	89	50	39	93	60	33	92	54	38	89	50	39	92	54	38	88	57	31	89	53	36	87	48	39	45	
July.....	98	57	41	95	63	32	91	59	32	95	68	27	90	64	56	93	62	31	80	59	30	89	65	24	95	56	39	56	
August.....	96	65	31	88	58	30	91	56	35	98	65	33	88	66	22	91	60	31	87	56	31	86	54	36	86	57	29	59	
September.....	96	64	54	88	49	39	86	46	40	98	52	46	88	51	37	89	37	52	86	42	44	86	52	34	86	55	31	59	
October.....	83	26	57	84	37	47	78	37	47	85	38	47	83	32	43	83	35	48	73	31	42	87	38	49	84	25	59	58	
November.....	81	24	57	76	35	41	74	27	47	68	26	42	72	27	45	73	22	49	75	30	45	63	21	42	73	15	58	58	
December.....	69	6	63	73	25	48	65	20	35	62	15	47	62	3	59	70	6	64	69	28	41	70	17	53	72	3	69	46	
ANNUAL MEANS...	83	34	49	82	36	46	79	37	41	82	37	45	79	34	45	77	30	47	77	33	44	79	36	43	79	33	46	46	

MONTHS.	1860.			1861.			1862.			1863.			1864.			1865.			1866.			1867.			1868.		
	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.	Max.	Min.	Range.
January.....	69	5	62	69	18	42	76	16	54	67	15	52	73	8	80	53	8	45	73	12	61	62	4	58	66	11	55
February.....	69	1	70	73	22	51	68	19	57	68	9	59	73	9	64	63	22	41	66	0	66	4	73	67	18	49	
March.....	80	25	55	77	33	44	77	23	55	74	28	46	73	13	58	75	16	59	71	24	47	74	11	63	78	21	57
April.....	87	42	45	78	38	40	80	47	40	85	32	53	76	37	39	80	39	41	89	37	52	84	40	44	80	31	59
May.....	87	42	45	87	48	39	88	47	37	83	47	34	85	42	43	83	41	42	84	44	41	81	40	41	86	51	35
June.....	89	57	32	90	55	35	88	33	56	86	54	31	90	56	34	90	62	28	88	55	33	87	63	24	91	59	32
July.....	90	61	29	90	58	32	90	33	57	86	57	29	91	57	34	91	64	26	90	60	30	89	63	26	94	70	24
August.....	98	60	38	91	62	29	88	41	59	82	61	21	87	60	27	89	63	26	93	51	42	88	62	26	88	61	27
September.....	90	44	46	86	43	43	88	51	37	90	42	48	91	47	43	88	56	32	91	44	47	91	53	49	87	43	44
October.....	82	31	51	78	43	35	87	54	63	74	33	41	76	35	41	76	38	38	78	32	46	87	33	54	77	33	44
November.....	68	13	55	71	25	46	74	25	49	77	16	61	69	18	51	70	27	43	77	28	49	75	29	46	74	25	49
December.....	62	15	47	75	19	56	70	9	61	62	15	47	71	3	68	74	8	66	64	13	51	73	21	52	62	1	61
ANNUAL MEANS....	81	32	49	80	37	43	80	35	45	78	33	45	79	31	48	77	37	40	80	33	47	80	34	46	79	35	44

NOTE.—In the above Table, the minus sign (—) indicates temperatures below zero. The thermometers employed in these observations, are of the most careful construction; are provided with adjusting arrangements at the top of the tube, and are, at least verified once during the year, by reference to the freezing point. They are free from reflected heat, and exposed to an open circulation of air, on a northern aspect.

It will be observed, by an inspection of the Table, that during the period over which these observations extend, the temperature has never reached 100° Fahrenheit, during the warmest terms; a temperature which is frequently attained in the Northern States and Canada. In July, 1860, the mercury rose to 99°, which is the highest range. During the same period, it will appear, the temperature has fallen below zero; on several occasions, the lowest being minus 8°, in January, 1857 and 1854, respectively, making the range for the period, 107°. Our coldest days occur in January; the warmest, in July, with very few exceptions. The mean maximum temperature, is 79°.5; the minimum, 34°.3; the range, 45°.2.

1404. APPENDIX TO § 38.

*Quantity of Rain, (including melted snow,) fallen, monthly, during the years 1861 to 1868, inclusive, given in inches and thousandths, observed at Glenwood, Montgomery County, Tennessee.*

The figures show the depth of rain fallen, supposing the water to have remained when it fell, without running off or evaporating.

	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.
	In.	In.	In.	In.	In.	In.	In.	In.
January.....	2.210	5.136	8.582	2.428	2.378	4.365	1.612	5.030
February.....	2.701	8.230	6.456	1.127	3.970	4.145	8.988	1.310
March.....	2.151	4.767	5.032	3.911	7.983	5.067	8.282	5.519
April.....	5.440	8.015	3.271	3.567	11.330	4.396	4.897	7.005
May.....	5.838	2.457	2.744	1.880	3.386	2.110	4.555	3.217
June.....	2.488	4.971	8.865	2.979	2.675	2.843	2.533	1.915
July.....	7.026	5.751	2.243	1.757	5.153	4.929	4.052	4.410
August.....	7.850	1.204	1.758	6.207	4.923	0.675	1.300	3.018
September.....	3.230	2.489	1.997	2.056	6.186	5.601	0.545	3.802
October.....	2.090	0.666	6.041	3.904	1.034	2.240	1.975	1.556
November.....	5.082	2.675	2.598	7.627	1.223	4.722	5.935	2.024
December.....	1.941	3.280	4.762	3.867	9.763	3.712	4.249	5.371
Annual Amount.	48.047	49.641	54.349	41.310	60.004	44.805	48.923	44.777
Annual Mean for 8 years.....	48.982 inches.							

1405. BAROMETRIC OBSERVATIONS.

*Tabular abstract of monthly mean pressure, corrected for temperature and capillarity, (but not for altitude above sea level,) for the years 1861 to 1868, inclusive., observed at Glenwood, Montgomery County, Tennessee.*

	1861.	1862.	1863.	1864.	1865.	1866.	1867.	1868.
	In.	In.	In.	In.	In.	In.	In.	In.
January.....	29.640	29.578	29.616	29.701	29.657	29.728	29.584	29.666
February.....	29.574	29.576	29.647	29.630	29.585	29.766	29.590	29.715
March.....	29.629	29.385	29.566	29.450	29.553	29.668	29.572	29.538
April.....	29.466	29.528	29.531	29.450	29.590	29.527	29.512	29.510
May.....	29.485	29.499	29.527	29.464	29.475	29.471	29.461	29.406
June.....	29.524	29.508	29.540	29.547	29.572	29.534	29.512	29.585
July.....	29.553	29.515	29.530	29.578	29.578	29.579	29.536	29.519
August.....	29.542	29.572	29.615	29.506	29.581	29.542	29.535	29.583
September.....	29.597	29.588	29.649	29.544	29.608	29.554	29.606	29.590
October.....	29.572	29.649	29.596	29.553	29.585	29.653	29.652	29.657
November.....	29.504	29.628	28.672	29.571	29.655	29.616	29.944	29.682
December.....	29.751	29.720	29.651	29.569	29.629	29.622	29.593	29.662
Mean.....	29.569	29.562	29.595	29.447	29.589	29.605	29.566	29.593
Annual Mean for 8 years.....	29.578.							