

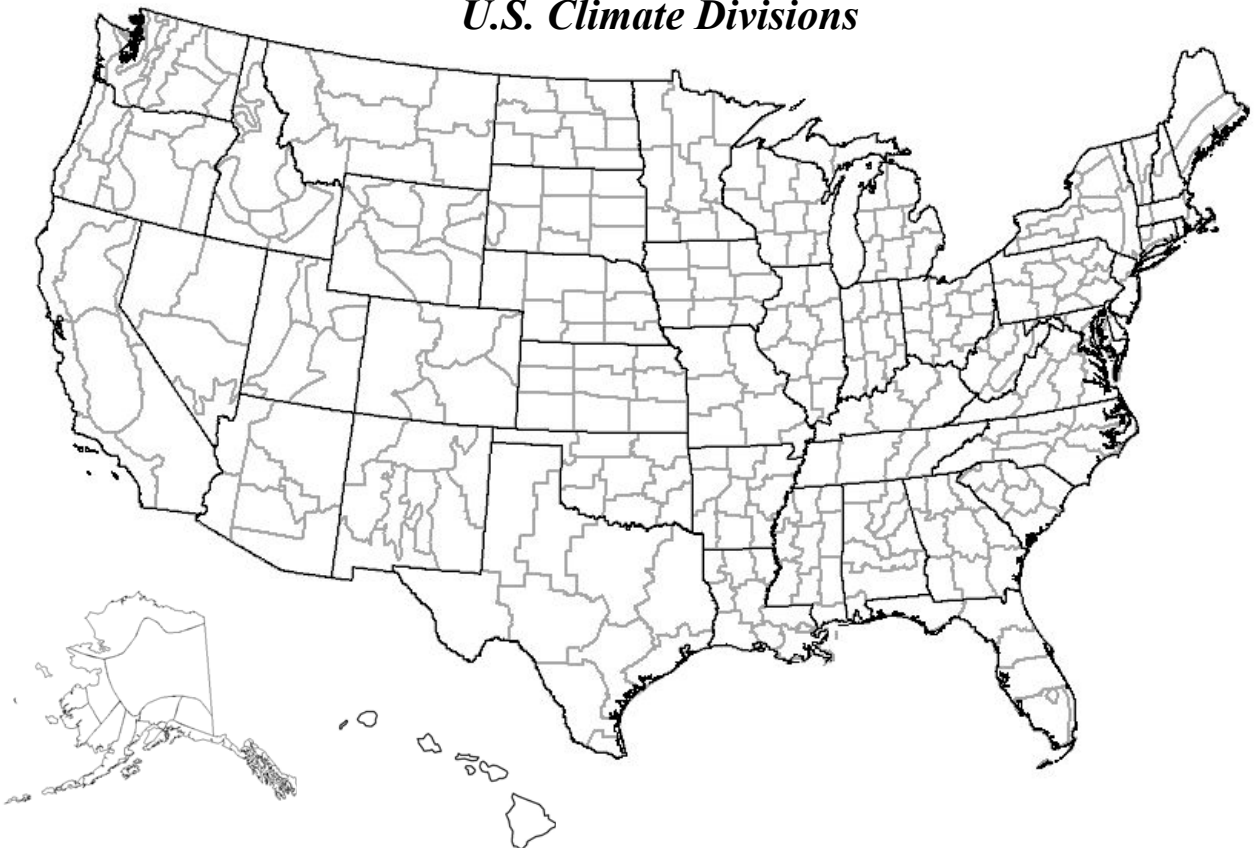


Divisional Normals and Standard Deviations of Temperature, Precipitation, and Heating and Cooling Degree Days

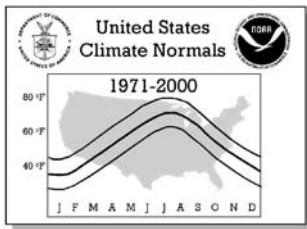
1971 – 2000 (and previous normals periods)

Section 3: Heating Degree Days

U.S. Climate Divisions



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC



Section 3:

Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Page 2

Divisional Normals Sections (Present Section Highlighted):

Section 1: Temperature

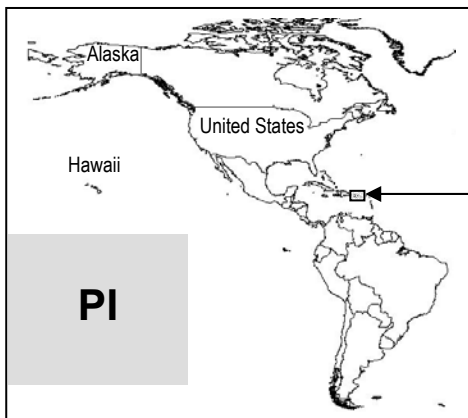
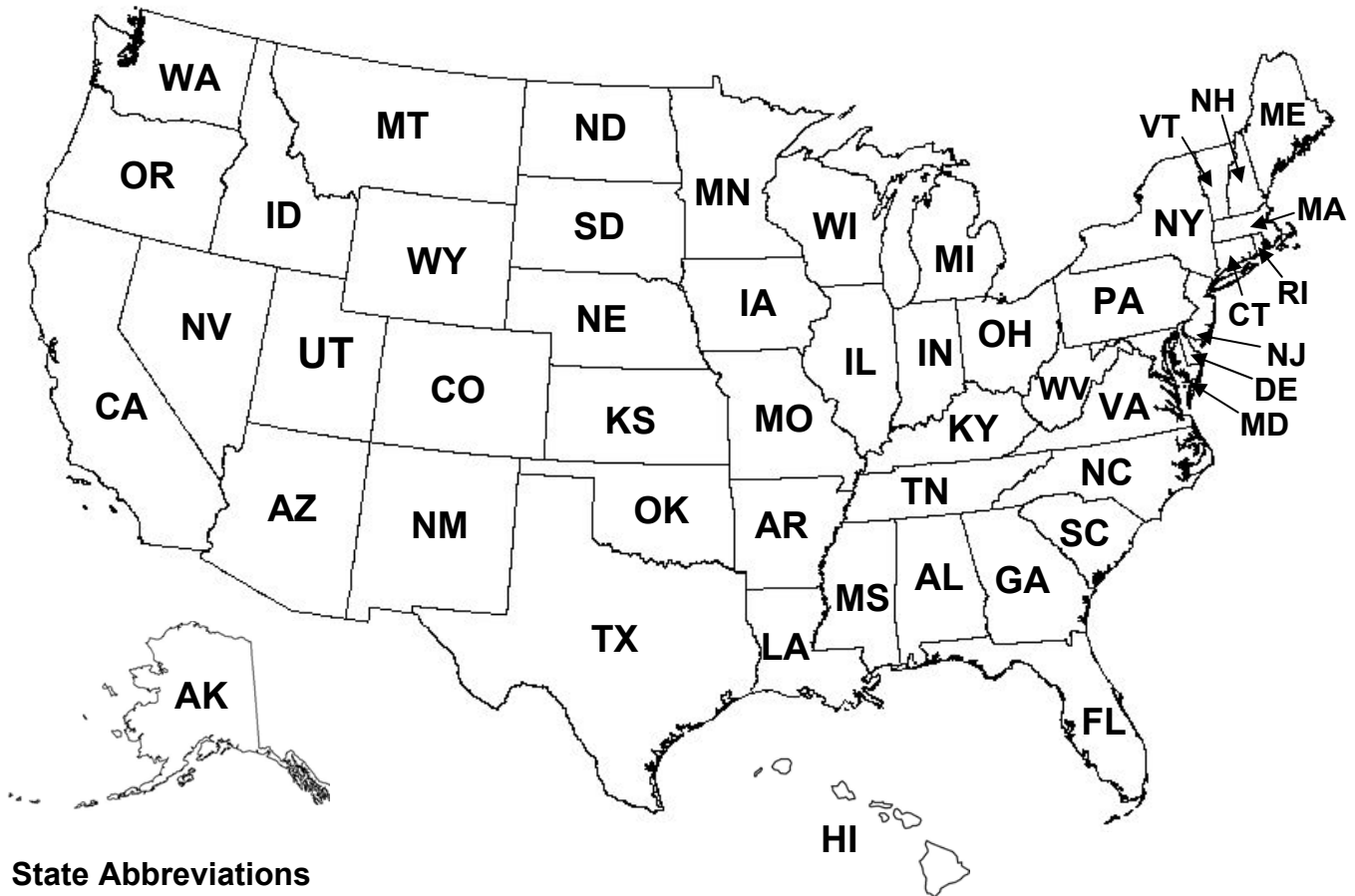
Section 2: Precipitation

Section 3: Heating Degree Days

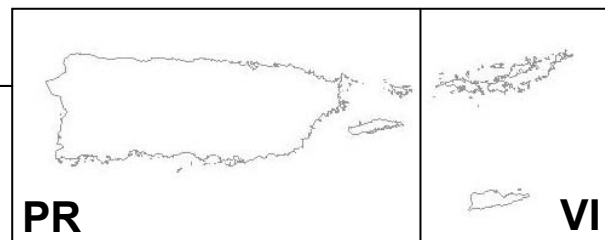
Section 4: Cooling Degree Days

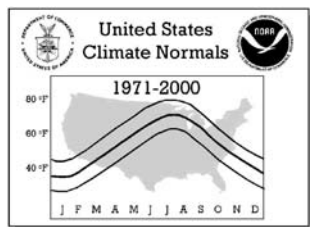
Section 5: 1971-2000 Maps

Section 6: 1931-2000 Maps



Territory Abbreviations





Section 3: Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods) CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Temperature (°F), Precipitation (inches), and Degree Days

NOTES

Page 3

Product Description:

This Climatology includes normals and standard deviations for the five 30-year normals periods and the 70-year period between 1931-2000 for each climate division. A *climate division* represents a region within a state that is as climatically homogeneous as possible. The divisional data are used for research applications in hydrology, agriculture, energy supply, *etc.*, where data averaged over an area rather than for a point (station) is needed. Divisional data are used to assess large-scale climatic features with respect to a long period (*i.e.*, decadal, 30-year period, *etc.*). There are 344 climate divisions in the conterminous U.S., with additional divisions in Alaska, Hawaii, Puerto Rico, the U.S. Virgin Islands, and Pacific trust territories. Divisional boundaries generally coincide with county boundaries except in the western U.S., where they are based largely on drainage basins.

The normals and standard deviations include values for each of the 12 calendar months and an annual value. The divisional data are displayed by name and number for a state or territory. Data for the conterminous United States are presented alphabetically, followed by data for Alaska, Hawaii, Puerto Rico, the Virgin Islands, and Pacific trust territories. The data elements, presented in separate sections, include time of observation-corrected mean temperature (degrees F), precipitation (inches), and heating and cooling degree days (base 65 degrees F).

Abbreviations:

AVERAGE = Mean of Element for all Months (or Annual Values) for the Given Period of Record.

STD DEV = Standard Deviation for all Months (or Annual Values) for the Given Period of Record.

31-00 = 1931 through 2000 Long-Term Period of Record.

31-60 = 1931 through 1960 Normal Period of Record.

41-70 = 1941 through 1970 Normal Period of Record.

51-80 = 1951 through 1980 Normal Period of Record.

61-90 = 1961 through 1990 Normal Period of Record.

71-00 = 1971 through 2000 Normal Period of Record.

DB = Drainage Basin

Fthls = Foothills

Hydro = Hydrological Division

Computational Procedures:

Monthly divisional average temperature and total precipitation data are derived by giving equal weight to all stations reporting both temperature and precipitation within a climatological division, except for Hawaii, where any available stations (including precipitation-only stations) are used. The number of reporting stations within a division varies from month-to-month and year-to-year. Station data are *not* adjusted for inhomogeneities.

Temperature values are corrected for time of observation in the conterminous U.S. In the conterminous U.S., observers at National Weather Service cooperative stations often take one observation per day, and the ending time of the climatological day can vary from station-to-station as well as year-to-year. Differences of the 24-hour period over which maximum and minimum temperature (as well as average temperature) is reported impact the calculated monthly mean temperature. These potential biases are rectified by adjusting for varying observation times using a model (Karl *et al.*, 1986) to adjust the climate division averages such that all stations end their climatological day at midnight (*i.e.*, climatological and calendar day coincide).

Monthly divisional temperature normals and 70-year averages are computed by adding the yearly values for a given month and then dividing by the number of years in the period. The annual normal and 70-year average are computed by adding all of the monthly normal or long-term average values and then dividing by 12. Precipitation normals and long-term means are computed in a similar manner, except for the annual, which is the sum of monthly values.

Sequential monthly degree days are derived using a modification of the Rational Conversion Formulae developed by Thom (1954, 1966). This technique utilizes the historical monthly average temperature and its corresponding standard deviation (over the standardizing period 1931-2000) to compute degree days. The modified Thom technique derives the monthly degree days using a spline fit of the monthly mean temperature and standard deviations to ameliorate the month-to-month step function that is inherent with only a single monthly input. The procedure for the computation of the divisional degree day normals involves i.) Calculation of the standard deviations of the temperatures for each of the 12 calendar months over the standardizing period; ii.) Use of the modified Thom technique to compute the heating and cooling degree days for every month and year in the period 1931-2000; and iii.) Calculation of the 30-year normals and 70-year (1931-2000) long-term averages of the degree days using the procedure discussed above. Standard deviations are computed using the sum and sum square values from the corresponding period of month-year sequential values. For annual temperature, the sum and sum square of the annual values are used, while for annual precipitation, the sum and sum square of monthly values are used.

Anomalous Climate Divisions:

The following divisions are non-existent: Nebraska Division 04, Pacific Islands Division 01.

Due to lack of data, no data were computed for: Hawaii Division 07 (Island of Kahoolawe); Puerto Rico Division 07 (Outlying Islands).

Data for the climate divisions of the Virgin Islands (01/02/03) were consolidated into a single Division 04 for the entire Virgin Islands.

Supplemental Divisional Normals:

Hawaiian Hydrological Divisions: The varied topography and the locations of the observation stations in Hawaii yield highly localized precipitation patterns. These patterns are at a finer resolution than the island-by-island climate divisions. Research by NWS's Hydrometeorological Design Studies Center (NOAA, 2002) has led to the establishment of regional divisions for precipitation frequency studies. Data based on these divisions are found at the end of the tables.

Divisional Maps Supplement: Maps showing mean and standard deviations for the conterminous U.S., Alaska, and Hawaii are presented in Section 5.

References:

Karl, T.R., C.N. Williams, Jr., P.J. Young, and W.M. Wendland, 1986: "A model to estimate the time of observation bias associated with monthly mean maximum, minimum, and mean temperatures for the United States," *Journal of Climate and Applied Meteorology*, Vol. 25, pp. 145-160.

Guttman, N.B. and R.G. Quayle, 1995: "A Historical Perspective of U.S. Climate Divisions", *Bulletin of the American Meteorological Society*, Statistical descriptors of climate, *Bulletin of the American Meteorological Society*, Vol. 77, no. 2, pp. 293-303.

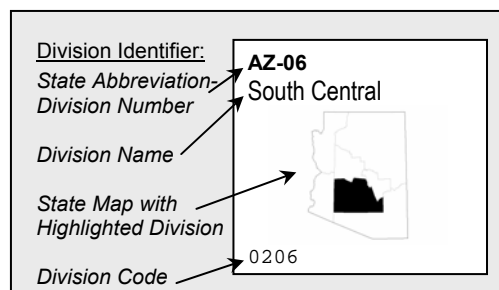
NOAA, 2002: Hawaii Precipitation Frequency Study: Update of *Technical Paper No. 43*, NOAA/NWS/Office of Hydrology.

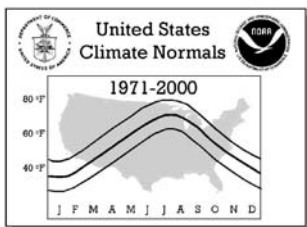
Thom, H.C.S., 1954: "The rational relationship between heating degree days and temperature," *Monthly Weather Review*, Vol. 82, pp. 1-6.

Thom, H.C.S., 1966: "Normal degree days above any base by the universal truncation coefficient," *Monthly Weather Review*, Vol. 94, pp. 461-465.

Release Date: June 15, 2002*

National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina





Section 3:

Heating Degree Days

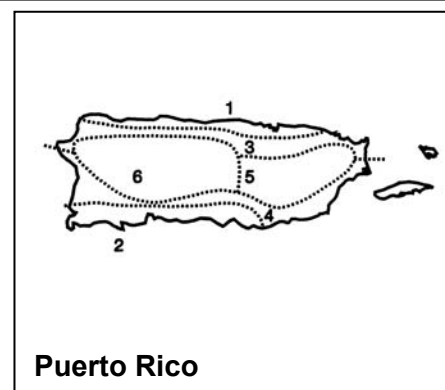
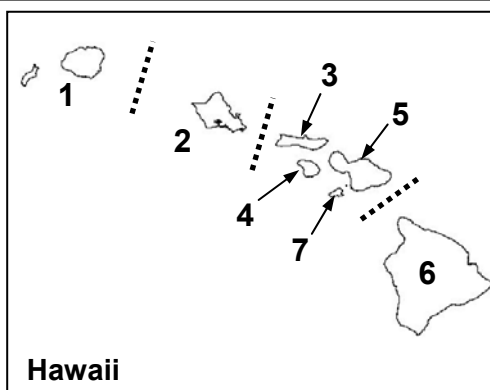
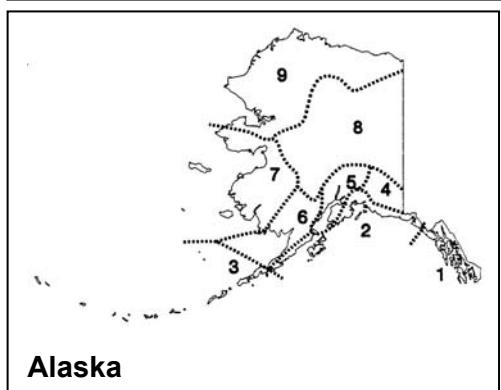
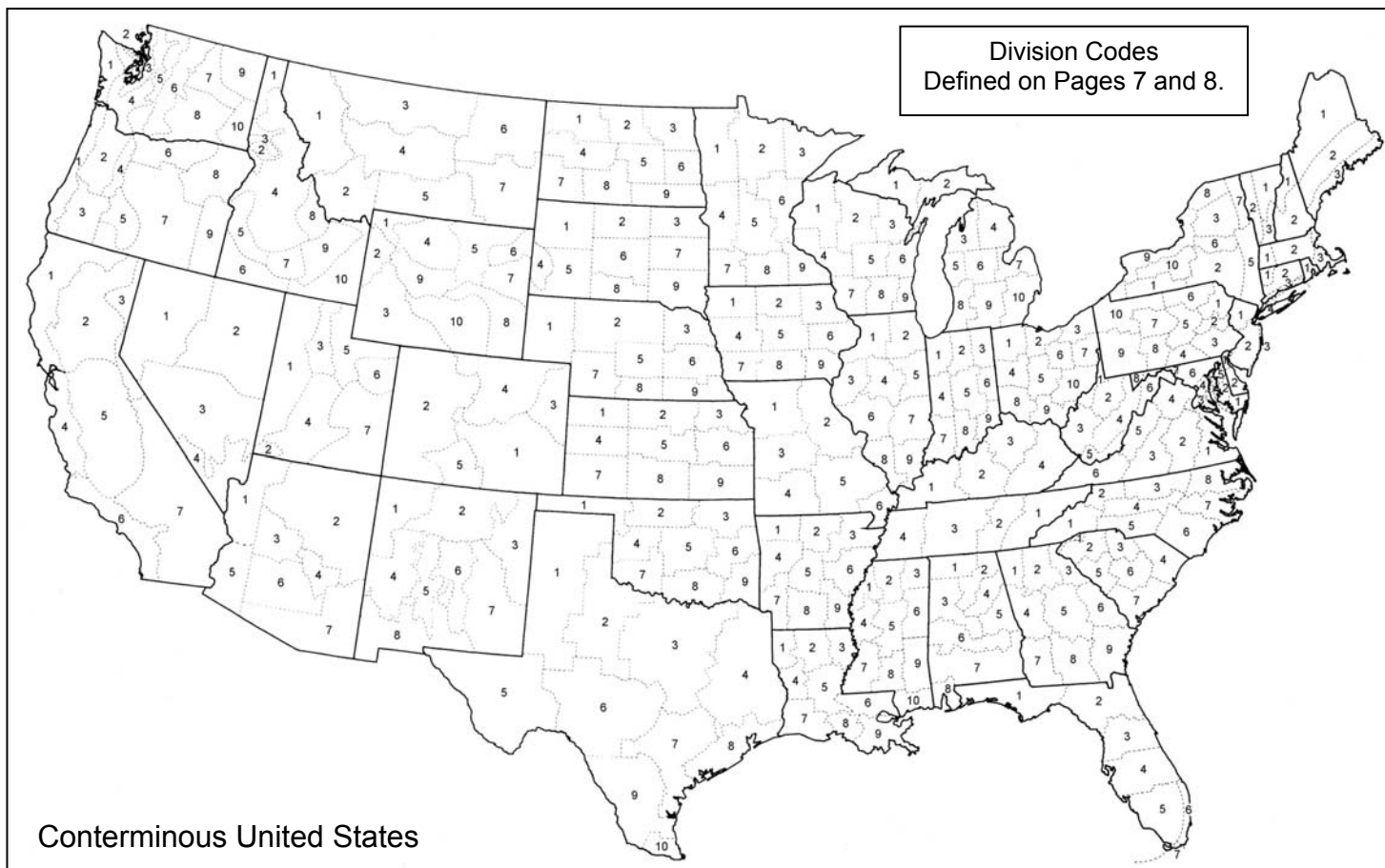
Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

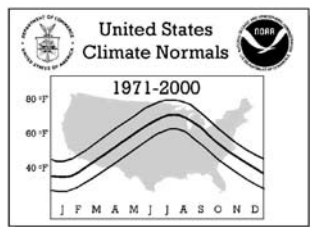
United States Climate Divisions

Page 4



State Identification Codes (Code/State Name/Abbreviation)

01 Alabama	AL	16 Louisiana	LA	31 North Carolina	NC	46 West Virginia	WV
02 Arizona	AZ	17 Maine	ME	32 North Dakota	ND	47 Wisconsin	WI
03 Arkansas	AR	18 Maryland	MD	33 Ohio	OH	48 Wyoming	WY
04 California	CA	19 Massachusetts	MA	34 Oklahoma	OK	50 Alaska	AK
05 Colorado	CO	20 Michigan	MI	35 Oregon	OR	51 Hawaii	HI
06 Connecticut	CT	21 Minnesota	MN	36 Pennsylvania	PA	66 Puerto Rico	PR
07 Delaware	DE	22 Mississippi	MS	37 Rhode Island	RI	67 Virgin Islands	VI
08 Florida	FL	23 Missouri	MO	38 South Carolina	SC	91 Pacific Islands	PI
09 Georgia	GA	24 Montana	MT	39 South Dakota	SD		
10 Idaho	ID	25 Nebraska	NE	40 Tennessee	TN		
11 Illinois	IL	26 Nevada	NV	41 Texas	TX		
12 Indiana	IN	27 New Hampshire	NH	42 Utah	UT		
13 Iowa	IA	28 New Jersey	NJ	43 Vermont	VT		
14 Kansas	KS	29 New Mexico	NM	44 Virginia	VA		
15 Kentucky	KY	30 New York	NY	45 Washington	WA		



Section 3:

Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

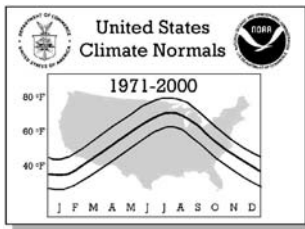
United States Climate Divisions

Page 5

Divisional Population by State (Code/State Abbreviation/State 2000 Population/Divisional Population)

Census 2000 State Population			Population by Division Number									
			01	02	03	04	05	06	07	08	09	10
01 AL	4,447,100		657,744	967,444	451,214	551,417	312,334	402,676	562,809	541,462		
02 AZ	5,130,632		155,122	283,820	167,885	50,374	179,964	3,251,406	1,042,061			
03 AR	2,673,400		393,233	159,275	371,927	334,255	688,777	246,291	135,333	172,053	172,256	
04 CA	33,871,648	1,261,635	2,664,084		93,615	6,377,253	3,613,647	17,697,130	2,164,284			
05 CO	4,301,261		801,985	464,447	29,783	2,958,506	46,540					
06 CT	3,405,565		155,900	2,029,652	1,220,013							
07 DE	783,600		465,853	317,747								
08 FL	15,982,378	1,222,284	1,710,912	2,934,952	3,988,895	1,177,453	4,903,143	44,739				
09 GA	8,186,453		577,068	3,398,646	224,282	1,248,322	833,483	517,317	334,897	415,145	637,293	
10 ID	1,293,953		163,434	54,903	45,019	53,496	520,119	2,205	140,314	9,769	172,944	131,750
11 IL	12,419,293		765,271	8,432,331	255,114	707,767	471,451	692,910	337,308	494,209	262,932	
12 IN	6,080,485		861,318	712,674	635,442	432,173	1,899,978	342,095	501,206	425,031	270,568	
13 IA	2,926,324		253,932	172,771	374,608	173,053	720,621	652,288	173,259	196,917	208,875	
14 KS	2,688,418		35,050	68,809	360,803	26,918	201,777	932,885	141,515	620,092	300,569	
15 KY	4,041,769		659,506	1,274,075	1,268,331	839,857						
16 LA	4,468,976		425,200	287,352	116,696	114,612	380,560	929,592	415,089	426,425	1,373,450	
17 ME	1,274,923		97,507	527,485	649,931							
18 MD*	5,868,545		156,417	95,919	288,491	2,024,207	56,477	3,018,686	187,488	40,860		
19 MA	6,349,097		167,648	3,491,578	2,689,871							
20 MI	9,938,444		202,459	114,685	278,367	219,456	284,596	379,775	476,966	1,421,495	1,092,001	5,468,644
21 MN	4,919,479		181,282	148,207	216,732	182,056	683,500	2,323,929	121,954	331,475	730,344	
22 MS	2,844,658		104,058	297,255	250,688	182,701	352,999	257,538	419,065	203,471	327,909	448,974
23 MO	5,595,211	1,265,201	2,198,238	472,883	779,640	729,367	149,882					
24 MT	902,195		285,004	126,851	68,031	166,577	179,935	46,386	29,411			
25 NE	1,711,263		90,363	34,221	146,376		146,379	1,040,820	72,038	67,337	113,729	
26 NV	1,998,257		517,889	61,911	21,572	1,396,885						
27 NH	1,235,786		60,863	1,174,923								
28 NJ	8,414,350	4,776,329	3,410,745	227,276								
29 NM	1,819,046		191,671	274,718	80,460	58,516	749,124	76,233	175,463	212,861		
30 NY	18,976,457		318,546	725,220	74,691	9,429,541	4,359,020	401,815	132,614	144,961	2,474,493	915,556
31 NC	8,049,313		751,193	331,534	1,531,099	1,457,861	1,560,297	1,229,733	755,306	432,290		
32 ND	642,200		92,268	38,470	110,733	29,949	38,077	147,677	34,862	105,341	44,823	
33 OH	11,353,140		948,054	677,071	2,843,702	545,816	1,714,244	425,588	992,821	2,389,912	365,544	450,388
34 OK	3,450,654		36,959	161,579	921,156	77,773	1,349,891	311,250	209,779	260,072	122,195	
35 OR	3,421,399		214,017	2,397,830	352,718	5,928	4,099	129,953	228,385	56,854	31,615	
36 PA	12,281,054		772,229	776,763	5,071,607	800,331	513,777	176,364	298,678	390,887	2,737,037	743,381
37 RI	1,048,319	1,048,319										
38 SC	4,012,012		33,146	1,082,205	337,665	619,456	330,622	802,096	806,822			
39 SD	754,844		16,914	27,917	66,762	99,556	69,498	34,692	123,619	22,824	293,062	
40 TN	5,689,283	1,986,533	413,050	1,847,614	1,442,086							
41 TX	20,851,820		945,356	412,316	6,585,992	1,956,322	879,888	432,517	3,324,037	4,916,511	479,578	919,303
42 UT	2,233,169		12,351	90,176	1,576,700	104,904	358,116	39,595	51,327			
43 VT	608,827		193,584	308,327	106,916							
44 VA	7,078,515	2,058,351	1,194,526	678,550	2,076,302	512,267	558,519					
45 WA	5,894,121		89,695	107,771	3,616,713	762,776	13,591	52,531	80,701	638,277	457,571	74,495
46 WV	1,808,344		255,281	329,002	583,556	268,744	163,053	208,708				
47 WI	5,363,675		351,396	305,694	163,836	356,975	292,562	932,204	206,116	821,015	1,933,877	
48 WY	493,782		3,872	26,399	69,700	46,500	34,405	39,086	7,187	166,841	35,847	63,945
50 AK	626,932		72,274	14,721	8,162	10,195	371,189	8,003	32,230	95,565	14,593	
51 HI	1,211,537		58,463	876,156	25,766	12,809	85,184	148,677	4,482			
66 PR	3,808,610	1,029,484	462,143	859,986	538,691	619,654	288,109	10,543				
67 VI	108,612		51,181	53,234	4,197							
91 PI	281,317		57,291	154,805	69,221							

*Maryland Division 04 includes population for the District of Columbia.



Section 3:

Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

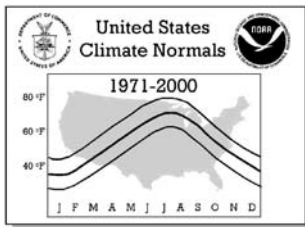
Temperature (°F), Precipitation (inches), and Degree Days

United States Climate Divisions

Page 6

Divisional Area (square miles) by State (Code/State Abbreviation/State Area/Divisional Area)											
State Area (square miles)			Area (square miles) by Division Number								
			01	02	03	04	05	06	07	08	09
											10
01 AL	51,610	4,609	5,027	7,648	4,000	5,006	7,716	14,719	2,885		
02 AZ	113,909	13,305	39,777	8,110	4,761	10,013	14,649	23,294			
03 AR	53,104	4,785	5,539	7,376	6,723	5,241	7,004	5,056	6,680	4,700	
04 CA	158,693	21,551	27,073	6,697	10,585	33,119	14,028	45,640			
05 CO	104,246	28,188	38,519	8,684	21,193	7,662					
06 CT	5,009	1,014	3,251	744							
07 DE	2,057	454	1,603								
08 FL	58,560	12,163	13,211	7,870	11,806	10,957	2,553				
09 GA	58,876	3,721	6,100	3,379	7,018	9,308	5,823	6,871	8,266	8,390	
10 ID	83,557	4,445	2,691	1,621	29,120	6,334	8,514	4,721	4,938	8,297	12,876
11 IL	56,399	7,242	6,593	5,555	6,176	5,713	7,535	7,507	5,414	4,664	
12 IN	36,291	4,177	3,887	3,582	4,152	6,115	2,602	5,026	3,970	2,780	
13 IA	56,288	6,850	6,096	6,597	7,368	7,357	6,062	4,993	5,578	5,387	
14 KS	82,264	7,823	8,934	6,310	8,004	9,000	8,761	11,862	11,221	10,349	
15 KY	40,395	9,848	9,174	8,564	12,809						
16 LA	48,522	3,935	6,114	4,401	3,955	7,802	5,148	7,584	3,421	6,162	
17 ME	33,215	17,916	10,307	4,992							
18 MD*	10,578	1,280	1,263	1,118	967	703	3,586	951	710		
19 MA	8,257	1,578	4,217	2,462							
20 MI	58,214	9,943	6,945	4,832	6,613	3,021	4,686	4,314	4,593	6,526	6,741
21 MN	84,068	13,131	13,241	10,315	9,601	10,189	9,029	6,129	6,456	5,977	
22 MS	47,715	3,030	4,791	3,693	4,251	6,179	5,330	6,308	4,399	6,127	3,607
23 MO	69,686	14,704	13,993	10,265	11,512	15,087	4,125				
24 MT	147,138	24,410	14,111	26,897	22,144	17,421	22,321	19,834			
25 NE	77,227	14,225	18,828	7,645		7,367	8,395	9,476	4,549	6,742	
26 NV	110,540	30,564	36,279	33,903	9,794						
27 NH	9,304	2,864	6,440								
28 NJ	7,836	2,877	4,381	578							
29 NM	121,666	13,614	18,518	15,050	14,381	9,660	9,624	21,900	18,919		
30 NY	49,576	4,298	9,062	7,050	1,814	6,375	2,732	3,074	2,950	7,303	4,918
31 NC	52,712	7,717	3,584	6,231	5,593	5,730	9,815	7,058	6,984		
32 ND	70,665	9,377	7,088	8,762	8,720	7,342	5,611	8,134	8,056	7,575	
33 OH	41,222	4,897	3,310	3,784	4,064	4,819	2,972	3,302	4,539	4,135	5,400
34 OK	69,920	8,055	8,174	8,467	5,999	10,278	7,146	6,922	8,425	6,454	
35 OR	96,981	8,369	9,465	8,903	2,929	6,013	8,903	29,657	12,734	10,008	
36 PA	45,334	3,269	1,922	4,384	2,770	4,851	4,035	4,397	3,595	8,205	7,906
37 RI	1,214	1,214									
38 SC	31,055	618	4,571	3,357	6,562	4,112	4,674	7,161			
39 SD	77,047	12,628	7,859	7,635	2,828	10,270	11,049	8,706	5,863	10,209	
40 TN	42,244	11,000	6,962	14,781	9,501						
41 TX	267,340	39,406	25,558	39,005	33,204	36,171	35,289	21,467	12,217	21,949	3,074
42 UT	84,916	21,891	1,376	5,604	17,527	11,260	5,723	21,535			
43 VT	9,610	4,854	3,177	1,579							
44 VA	40,816	7,555	7,751	7,392	5,237	5,200	7,681				
45 WA	68,192	5,039	1,814	3,614	9,629	6,205	9,465	7,010	11,859	8,333	5,224
46 WV	24,180	1,199	4,408	5,637	7,307	2,660	2,969				
47 WI	56,154	9,698	9,973	6,188	7,087	5,424	4,689	5,531	4,863	2,701	
48 WY	97,914	3,936	5,140	20,347	11,378	11,397	3,828	7,167	11,985	7,520	15,216

*Maryland Division 04 includes area for the District of Columbia.



Section 3:

Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

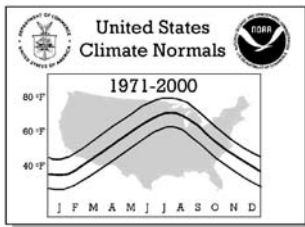
Temperature (°F), Precipitation (inches), and Degree Days

United States Climate Divisions

Page 7

Division Codes (State Identification Code/Division Number/Division Name)

0101 Northern Valley	1101 Northwest	2005 West Central Lower	3005 Hudson Valley
0102 Appalachian Mountain	1102 Northeast	2006 Central Lower	3006 Mohawk Valley
0103 Upper Plains	1103 West	2007 East Central Lower	3007 Champlain Valley
0104 Eastern Valley	1104 Central	2008 Southwest Lower	3008 St. Lawrence Valley
0105 Piedmont Plateau	1105 East	2009 South Central Lower	3009 Great Lakes
0106 Prairie	1106 West Southwest	2010 Southeast Lower	3010 Central Lakes
0107 Coastal Plain	1107 East Southeast	2101 Northwest	3101 Southern Mountains
0108 Gulf	1108 Southwest	2102 North Central	3102 Northern Mountains
0201 Northwest	1109 Southeast	2103 Northeast	3103 Northern Piedmont
0202 Northeast	1201 Northwest	2104 West Central	3104 Central Piedmont
0203 North Central	1202 North Central	2105 Central	3105 Southern Piedmont
0204 East Central	1203 Northeast	2106 East Central	3106 Southern Coastal Plain
0205 Southwest	1204 West Central	2107 Southwest	3107 Central Coastal Plain
0206 South Central	1205 Central	2108 South Central	3108 Northern Coastal Plain
0207 Southeast	1206 East Central	2109 Southeast	3201 Northwest
0301 Northwest	1207 Southwest	2201 Upper Delta	3202 North Central
0302 North Central	1208 South Central	2202 North Central	3203 Northeast
0303 Northeast	1209 Southeast	2203 Northeast	3204 West Central
0304 West Central	1301 Northwest	2204 Lower Delta	3205 Central
0305 Central	1302 North Central	2205 Central	3206 East Central
0306 East Central	1303 Northeast	2206 East Central	3207 Southwest
0307 Southwest	1304 West Central	2207 Southwest	3208 South Central
0308 South Central	1305 Central	2208 South Central	3209 Southeast
0309 Southeast	1306 East Central	2209 Southeast	3301 Northwest
0401 North Coast Drainage Basin	1307 Southwest	2210 Coastal	3302 North Central
0402 Sacramento Drainage Basin	1308 South Central	2301 Northwest Prairie	3303 Northeast
0403 Northeast Interior Basins	1309 Southeast	2302 Northeast Prairie	3304 West Central
0404 Central Coast Drainage Basin	1401 Northwest	2303 West Central Plains	3305 Central
0405 San Joaquin Drainage Basin	1402 North Central	2304 West Ozarks	3306 Central Hills
0406 South Coast Drainage Basin	1403 Northeast	2305 East Ozarks	3307 Northeast Hills
0407 Southeast Desert Basins	1404 West Central	2306 Bootheel	3308 Southwest
0501 Arkansas Drainage Basin	1405 Central	2401 Western	3309 South Central
0502 Colorado Drainage Basin	1406 East Central	2402 Southwestern	3310 Southeast
0503 Kansas Drainage Basin	1407 Southwest	2403 North Central	3401 Panhandle
0504 Platte Drainage Basin	1408 South Central	2404 Central	3402 North Central
0505 Rio Grande Drainage Basin	1409 Southeast	2405 South Central	3403 Northeast
0601 Northwest	1501 Western	2406 Northeastern	3404 West Central
0602 Central	1502 Central	2407 Southeastern	3405 Central
0603 Coastal	1503 Blue Grass	2501 Panhandle	3406 East Central
0701 Northern	1504 Eastern	2502 North Central	3407 Southwest
0702 Southern	1601 Northwest	2503 Northeast	3408 South Central
0801 Northwest	1602 North Central	2505 Central	3409 Southeast
0802 North	1603 Northeast	2506 East Central	3501 Coastal Area
0803 North Central	1604 West Central	2507 Southwest	3502 Willamette Valley
0804 South Central	1605 Central	2508 South Central	3503 Southwestern Valleys
0805 Everglades and Southwest Coast	1606 East Central	2509 Southeast	3504 Northern Cascades
0806 Lower East Coast	1607 Southwest	2601 Northwestern	3505 High Plateau
0807 Keys	1608 South Central	2602 Northeastern	3506 North Central
0901 Northwest	1609 Southeast	2603 South Central	3507 South Central
0902 North Central	1701 Northern	2604 Extreme Southern	3508 Northeast
0903 Northeast	1702 Southern Interior	2701 Northern	3509 Southeast
0904 West Central	1703 Coastal	2702 Southern	3601 Pocono Mountains
0905 Central	1801 Southeastern Shore	2801 Northern	3602 East Central Mountains
0906 East Central	1802 Central Eastern Shore	2802 Southern	3603 Southeastern Piedmont
0907 Southwest	1803 Lower Southern	2803 Coastal	3604 Lower Susquehanna
0908 South Central	1804 Upper Southern	2901 Northwest Plateau	3605 Middle Susquehanna
0909 Southeast	1805 Northeastern Shore	2902 Northern Mountains	3606 Upper Susquehanna
1001 Panhandle	1806 Northern Central	2903 Northeast Plains	3607 Central Mountains
1002 North Central Prairies	1807 Appalachian Mountain	2904 Southwestern Mountains	3608 South Central Mountains
1003 North Central Canyons	1808 Allegheny Plateau	2905 Central Valley	3609 Southwest Plateau
1004 Central Mountains	1901 Western	2906 Central Highlands	3610 Northwest Plateau
1005 Southwestern Valleys	1902 Central	2907 Southeast Plains	3701 Rhode Island
1006 Southwestern Highlands	1903 Coastal	2908 Southern Desert	3801 Mountain
1007 Central Plains	2001 West Upper	3001 Western Plateau	3802 Northwest
1008 Northeastern Valleys	2002 East Upper	3002 Eastern Plateau	3803 North Central
1009 Upper Snake River Plains	2003 Northwest Lower	3003 Northern Plateau	3804 Northeast
1010 Eastern Highlands	2004 Northeast Lower	3004 Coastal	3805 West Central



Section 3:

Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

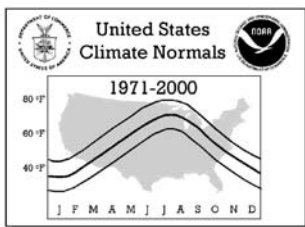
Temperature (°F), Precipitation (inches), and Degree Days

United States Climate Divisions

Page 8

Division Codes (State Identification Code/Division Number/Division Name)

3806	Central	4802	Snake Drainage Basin
3807	Southern	4803	Green and Bear Drainage Basin
3901	Northwest	4804	Big Horn
3902	North Central	4805	Powder, Little Missouri, and Tongue Drainage Basin
3903	Northeast	4806	Belle Fourche Drainage Basin
3904	Black Hills	4807	Cheyenne Niobrara Drainage Basin
3905	Southwest	4808	Lower Platte
3906	Central	4809	Wind River
3907	East Central	4810	Upper Platte
3908	South Central	5001	Southeastern
3909	Southeast	5002	South Coast
4001	Eastern	5003	Southwestern Islands
4002	Cumberland Plateau	5004	Copper River
4003	Middle	5005	Cook Inlet
4004	Western	5006	Bristol Bay
4101	High Plains	5007	West Central
4102	Low Rolling Plains	5008	Interior Basin
4103	North Central	5009	Arctic Drainage Basin
4104	East Texas	5101	Island of Kauai
4105	Trans Pecos	5102	Island of Oahu
4106	Edwards Plateau	5103	Island of Molokai
4107	South Central	5104	Island of Lanai
4108	Upper Coast	5105	Island of Maui
4109	Southern	5106	Island of Hawaii
4110	Lower Valley	5107	Island of Kahoolawe
4201	Western	6601	North Coastal
4202	Dixie	6602	South Coastal
4203	North Central	6603	Northern Slopes
4204	South Central	6604	Southern Slopes
4205	Northern Mountains	6605	Eastern Interior
4206	Unita Basin	6606	Western Interior
4207	Southeast	6607	Outlying Islands
4301	Northeastern	6701	St. Thomas
4302	Western	6702	St. Croix
4303	Southeastern	6703	St. John
4401	Tidewater	9102	East of 180th Meridian
4402	Eastern Piedmont	9103	Western Pacific Islands
4403	Western Piedmont	9104	Caroline and Mariana Islands
4404	Northern		
4405	Central Mountain		
4406	Southwestern Mountain		
4501	West Olympic Coastal		
4502	Northeast Olympic San Juan		
4503	Puget Sound Lowlands		
4504	East Olympic Cascade Foothills		
4505	Cascade Mountains West		
4506	East Slope Cascades		
4507	Okanogan Big Bend		
4508	Central Basin		
4509	Northeastern		
4510	Palouse Blue Mountains		
4601	Northwestern		
4602	North Central		
4603	Southwestern		
4604	Central		
4605	Southern		
4606	Northeastern		
4701	Northwest		
4702	North Central		
4703	Northeast		
4704	West Central		
4705	Central		
4706	East Central		
4707	Southwest		
4708	South Central		
4709	Southeast		
4801	Yellowstone Drainage Basin		



Section 3:

Heating Degree Days



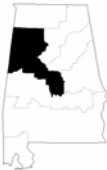



Divisional Normals, 1971-2000 (and previous periods)

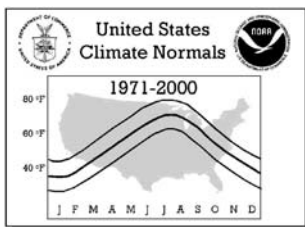
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Alabama

Page 9

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
AL-01 Northern Valley 	31-00 AVERAGE	0	1	23	182	442	687	761	592	444	177	52	4	3365
	STD DEV	0	1	15	62	89	127	157	121	114	57	29	4	327
	31-60 AVERAGE	0	0	18	161	448	667	700	569	448	165	42	2	3222
	STD DEV	0	1	12	59	83	124	161	129	136	47	24	3	322
	41-70 AVERAGE	0	1	23	177	453	697	751	597	466	158	45	3	3371
	STD DEV	0	2	13	61	78	118	139	136	127	55	25	4	315
	51-80 AVERAGE	0	1	25	199	458	696	797	620	463	169	54	5	3487
	STD DEV	0	2	17	63	87	113	149	140	121	52	31	4	319
	61-90 AVERAGE	0	1	28	204	430	707	831	630	443	184	61	5	3523
	STD DEV	0	2	17	65	92	133	146	117	101	62	30	4	281
0101 AL-02 Appalachian Mountain 	71-00 AVERAGE	0	1	27	198	435	697	795	597	431	195	61	5	3445
	STD DEV	0	2	16	64	99	130	151	107	89	61	31	4	308
	31-00 AVERAGE	0	0	20	184	439	675	742	579	435	180	53	3	3310
	STD DEV	0	1	13	63	89	126	155	117	109	56	29	3	315
	31-60 AVERAGE	0	0	16	163	447	661	682	556	443	169	45	2	3183
	STD DEV	0	0	10	60	87	124	161	127	128	48	25	3	301
	41-70 AVERAGE	0	0	20	181	456	692	733	583	457	160	47	3	3332
	STD DEV	0	1	12	62	81	117	138	136	122	54	26	3	313
	51-80 AVERAGE	0	0	22	204	460	685	779	608	454	170	56	4	3444
	STD DEV	0	1	15	62	83	118	146	132	113	51	32	4	303
0102 AL-03 Upper Plains 	61-90 AVERAGE	0	0	25	207	426	689	810	615	430	184	61	4	3451
	STD DEV	0	1	15	66	91	134	142	111	96	59	29	3	296
	71-00 AVERAGE	0	0	23	199	425	675	773	581	419	196	61	4	3356
	STD DEV	0	0	13	66	94	127	145	97	90	58	31	3	303
	31-00 AVERAGE	0	0	13	154	392	616	680	517	376	145	38	2	2931
	STD DEV	0	0	9	57	86	124	153	115	103	51	23	2	343
	31-60 AVERAGE	0	0	9	129	388	586	605	479	367	127	29	1	2719
	STD DEV	0	0	7	53	82	118	155	123	119	38	19	1	329
	41-70 AVERAGE	0	0	12	149	405	627	667	517	395	125	30	1	2928
	STD DEV	0	0	8	55	78	108	140	133	113	47	18	2	325
0103 AL-04 Eastern Valley 	51-80 AVERAGE	0	0	14	173	417	635	719	551	399	139	40	2	3091
	STD DEV	0	0	11	56	83	107	141	129	107	46	26	2	288
	61-90 AVERAGE	0	0	17	176	389	642	757	563	384	152	45	2	3127
	STD DEV	0	0	11	58	91	128	135	106	91	54	25	2	263
	71-00 AVERAGE	0	0	16	174	391	633	725	535	372	169	48	2	3066
	STD DEV	0	0	10	56	94	128	138	93	86	52	26	2	277
	31-00 AVERAGE	0	0	13	159	401	626	682	528	384	150	36	2	2981
	STD DEV	0	0	9	53	87	121	146	110	100	50	22	2	278
	31-60 AVERAGE	0	0	11	146	416	625	635	512	398	147	32	1	2922
	STD DEV	0	0	7	55	84	120	153	118	116	45	20	2	262
0104 AL-05 Piedmont Plateau 	41-70 AVERAGE	0	0	14	161	425	651	682	535	412	139	33	2	3054
	STD DEV	0	0	9	56	81	112	128	127	109	53	20	2	262
	51-80 AVERAGE	0	0	15	176	422	638	717	556	405	145	40	2	3116
	STD DEV	0	0	10	53	83	110	137	124	102	48	25	3	261
	61-90 AVERAGE	0	0	16	172	386	632	742	559	377	150	42	2	3077
	STD DEV	0	0	10	57	91	128	139	109	90	52	22	2	286
	71-00 AVERAGE	0	0	15	166	380	614	701	525	359	159	41	2	2962
	STD DEV	0	0	8	55	91	122	142	94	80	52	24	2	282
	31-00 AVERAGE	0	0	14	150	368	584	641	495	357	140	38	2	2790
	STD DEV	0	0	10	56	85	121	148	110	97	49	23	3	352
0105 AL-06 Prairie 	31-60 AVERAGE	0	0	4	91	313	502	523	401	295	89	14	0	2231
	STD DEV	0	0	3	41	73	113	146	118	99	30	11	0	273
	41-70 AVERAGE	0	0	6	106	327	535	578	432	315	84	14	0	2396
	STD DEV	0	0	5	44	72	103	132	130	99	37	10	1	300
	51-80 AVERAGE	0	0	6	124	338	540	618	460	314	92	20	0	2513
	STD DEV	0	0	6	47	80	103	139	124	93	37	16	1	276
	61-90 AVERAGE	0	0	7	128	315	546	653	474	304	102	22	0	2553
	STD DEV	0	0	6	48	87	123	133	102	83	41	14	1	262
	71-00 AVERAGE	0	0	7	126	316	541	621	445	293	117	23	0	2489
	STD DEV	0	0	5	46	87	121	135	84	76	41	15	1	254



Section 3:

Heating Degree Days

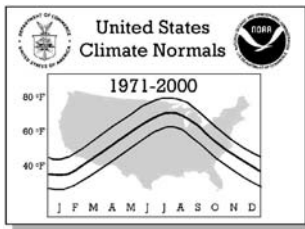
Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85
Temperature (°F), Precipitation (inches), and Degree Days

Alabama – Arizona

Page 10

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
0107 AL-07 Coastal Plain	31-00 AVERAGE	0	0	3	90	289	480	539	399	268	85	12	0	2166
	STD DEV	0	0	3	38	78	110	137	106	84	37	9	0	273
	31-60 AVERAGE	0	0	2	77	291	460	484	367	268	77	9	0	2033
	STD DEV	0	0	2	34	70	107	137	115	95	28	7	0	249
	41-70 AVERAGE	0	0	3	87	298	487	532	396	281	71	9	0	2165
	STD DEV	0	0	3	35	70	101	128	129	92	35	7	0	294
	51-80 AVERAGE	0	0	3	102	307	496	568	428	278	79	13	0	2273
	STD DEV	0	0	3	40	76	98	139	122	84	34	10	0	275
	61-90 AVERAGE	0	0	4	103	283	495	599	440	269	87	15	0	2294
	STD DEV	0	0	3	43	86	117	132	100	75	39	10	0	266
0108 AL-08 Gulf	71-00 AVERAGE	0	0	3	101	280	488	568	411	258	100	16	0	2226
	STD DEV	0	0	2	42	85	113	132	82	71	39	10	0	246
	31-00 AVERAGE	0	0	0	51	219	392	461	332	217	58	3	0	1733
	STD DEV	0	0	1	26	68	100	126	95	72	28	3	0	221
	31-60 AVERAGE	0	0	0	47	231	386	425	316	224	59	3	0	1691
	STD DEV	0	0	1	25	62	99	130	107	82	23	3	0	217
	41-70 AVERAGE	0	0	0	49	224	395	459	333	230	50	2	0	1742
	STD DEV	0	0	1	25	56	91	116	113	77	28	2	0	232
	51-80 AVERAGE	0	0	0	54	222	395	478	349	219	50	3	0	1769
	STD DEV	0	0	1	29	66	90	130	110	69	25	3	0	251
0201 AZ-01 Northwest	61-90 AVERAGE	0	0	0	54	202	396	503	357	212	53	3	0	1780
	STD DEV	0	0	1	30	71	108	126	91	63	29	2	0	242
	71-00 AVERAGE	0	0	0	55	206	395	476	332	202	63	4	0	1732
	STD DEV	0	0	1	28	76	104	126	77	58	30	3	0	224
	31-00 AVERAGE	1	5	18	147	412	639	675	502	416	236	97	21	3168
	STD DEV	2	5	15	65	101	107	128	116	110	85	50	17	552
	31-60 AVERAGE	2	8	24	172	453	665	734	572	471	263	124	32	3520
	STD DEV	2	6	18	72	110	113	132	111	94	80	50	19	481
	41-70 AVERAGE	1	6	21	158	427	662	705	536	467	264	108	29	3385
	STD DEV	2	6	16	72	110	100	100	110	86	85	40	18	457
0202 AZ-02 Northeast	51-80 AVERAGE	0	3	16	141	408	642	684	504	440	255	102	20	3216
	STD DEV	1	3	10	48	71	103	93	93	86	66	39	11	273
	61-90 AVERAGE	0	2	16	139	390	639	662	473	404	233	87	16	3060
	STD DEV	0	2	11	55	71	102	101	81	97	86	38	11	388
	71-00 AVERAGE	0	1	10	123	380	604	615	435	349	198	69	10	2794
	STD DEV	0	2	9	51	86	100	110	80	103	78	40	6	451
	31-00 AVERAGE	1	7	86	383	734	992	1038	813	734	490	259	63	5599
	STD DEV	1	5	33	69	81	105	117	101	91	85	68	27	308
	31-60 AVERAGE	1	6	77	374	748	979	1052	832	743	479	259	64	5615
	STD DEV	1	5	27	59	86	113	135	119	84	78	73	27	333
0203 AZ-03 North Central	41-70 AVERAGE	1	7	81	372	730	995	1044	820	762	491	256	68	5627
	STD DEV	1	6	33	72	90	101	105	110	90	85	62	29	271
	51-80 AVERAGE	1	7	87	377	737	1008	1045	822	757	511	273	62	5687
	STD DEV	1	5	31	72	81	107	103	98	98	74	68	27	254
	61-90 AVERAGE	1	8	97	389	721	1009	1048	813	741	499	266	60	5653
	STD DEV	1	5	37	83	66	104	98	77	101	89	62	26	274
	71-00 AVERAGE	1	7	93	395	733	992	1011	793	711	492	262	59	5547
	STD DEV	1	4	34	73	75	97	96	75	93	91	68	26	306
	31-00 AVERAGE	0	0	17	191	487	718	750	584	521	314	132	22	3736
	STD DEV	0	1	13	59	85	95	112	102	99	85	51	14	340
0204 AZ-04 East Central	31-60 AVERAGE	0	0	14	195	501	715	790	625	539	314	138	24	3855
	STD DEV	0	0	9	58	94	101	132	111	96	76	55	13	319
	41-70 AVERAGE	0	0	17	196	494	730	768	600	560	332	139	27	3863
	STD DEV	0	1	12	63	89	89	101	107	88	83	44	15	263
	51-80 AVERAGE	0	0	17	191	495	728	756	589	549	345	147	24	3842
	STD DEV	0	1	12	58	70	95	84	94	101	76	51	15	232
	61-90 AVERAGE	0	0	21	195	483	732	741	572	527	326	136	21	3755
	STD DEV	0	1	16	66	62	93	83	75	98	92	45	15	280
	71-00 AVERAGE	0	0	17	188	478	706	708	545	486	301	125	16	3572
	STD DEV	0	0	15	61	80	89	83	77	99	89	51	10	333
0204 AZ-04 East Central	31-00 AVERAGE	0	0	10	139	432	658	686	519	439	244	81	13	3221
	STD DEV	0	0	9	49	80	81	87	92	96	78	38	16	340
	31-60 AVERAGE	0	0	6	128	429	636	696	532	432	227	73	9	3169
	STD DEV	0	0	4	43	87	77	97	101	85	64	39	6	253
	41-70 AVERAGE	0	0	11	142	433	668	703	534	479	260	86	15	3331
	STD DEV	0	1	10	52	83	76	82	99	85	77	36	11	296
	51-80 AVERAGE	0	0	14	152	454	691	710	545	488	284	101	16	3456
	STD DEV	0	1	10	53	70	81	78	90	96	72	36	11	298
	61-90 AVERAGE	0	0	16	156	443	690	700	530	467	268	93	15	3378
	STD DEV	0	1	10	55	63	79	76	74	102	88	36	12	361
0204	71-00 AVERAGE	0	0	11	141	432	660	660	495	416	240	80	14	3148
	STD DEV	0	0	9	51	79	81	73	75	97	84	36	21	379



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

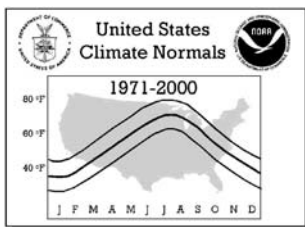
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Arizona – Arkansas

Page 11

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
AZ-05 Southwest 	31-00 AVERAGE	0	0	0	23	179	369	388	246	154	57	8	0	1423
	STD DEV	0	0	0	15	58	75	88	73	55	33	8	0	206
	31-60 AVERAGE	0	0	0	23	189	358	411	270	157	53	9	0	1470
	STD DEV	0	0	0	14	62	74	100	80	52	28	9	0	198
	41-70 AVERAGE	0	0	0	23	177	376	403	258	171	62	8	0	1478
	STD DEV	0	0	0	15	57	69	83	81	50	35	6	0	177
	51-80 AVERAGE	0	0	0	23	180	381	400	251	171	68	10	0	1485
	STD DEV	0	0	0	16	50	77	73	75	56	35	9	0	175
	61-90 AVERAGE	0	0	0	24	172	385	387	237	160	64	9	0	1437
	STD DEV	0	0	0	16	46	79	78	61	58	39	7	0	201
AZ-06 South Central 	71-00 AVERAGE	0	0	0	22	173	366	358	221	142	55	8	0	1343
	STD DEV	0	0	0	15	54	75	70	54	57	34	8	0	207
	31-00 AVERAGE	0	0	0	35	220	411	440	304	221	87	13	0	1732
	STD DEV	0	0	0	20	65	73	85	83	69	43	11	1	229
	31-60 AVERAGE	0	0	0	38	234	409	471	334	230	86	15	0	1817
	STD DEV	0	0	0	21	68	72	94	90	65	41	13	0	216
	41-70 AVERAGE	0	0	0	37	221	420	459	324	246	96	15	0	1818
	STD DEV	0	0	0	23	68	67	78	90	63	43	10	1	194
	51-80 AVERAGE	0	0	0	34	221	420	447	313	240	100	16	0	1792
	STD DEV	0	0	0	19	57	80	71	84	71	38	11	1	185
AZ-07 Southeast 	61-90 AVERAGE	0	0	0	35	211	422	433	293	224	90	12	0	1721
	STD DEV	0	0	0	20	52	78	73	67	72	46	8	1	215
	71-00 AVERAGE	0	0	0	32	213	405	405	273	200	81	11	0	1620
	STD DEV	0	0	0	19	62	76	66	59	69	44	9	0	219
	31-00 AVERAGE	0	0	3	95	361	567	597	449	366	177	49	1	2665
	STD DEV	0	0	3	37	73	74	79	84	80	60	25	2	251
	31-60 AVERAGE	0	0	1	81	349	542	601	453	353	158	43	1	2582
	STD DEV	0	0	1	29	77	79	93	95	72	51	27	1	254
	41-70 AVERAGE	0	0	2	89	351	565	599	456	385	175	47	1	2670
	STD DEV	0	0	3	37	80	69	84	98	80	58	23	2	262
AR-01 Northwest 	51-80 AVERAGE	0	0	4	102	375	588	606	471	398	201	60	2	2807
	STD DEV	0	0	3	40	65	72	73	90	89	53	25	2	198
	61-90 AVERAGE	0	0	5	111	373	593	610	461	389	196	59	2	2798
	STD DEV	0	0	3	41	59	66	65	71	88	63	21	2	202
	71-00 AVERAGE	0	0	4	106	377	582	587	437	360	188	54	1	2697
	STD DEV	0	0	4	39	69	69	65	66	83	64	25	1	244
	31-00 AVERAGE	1	6	46	217	545	822	917	708	558	250	88	11	4168
	STD DEV	1	6	26	64	98	130	149	125	123	70	38	8	327
	31-60 AVERAGE	1	5	37	200	552	794	872	694	568	245	83	9	4060
	STD DEV	2	5	22	63	91	110	136	121	137	67	34	7	310
AR-02 North Central 	41-70 AVERAGE	1	6	43	208	540	815	899	706	589	231	79	10	4125
	STD DEV	2	5	20	65	86	109	107	106	141	74	33	6	263
	51-80 AVERAGE	1	7	45	223	553	818	946	729	578	243	84	12	4240
	STD DEV	1	5	28	67	99	96	154	130	138	70	40	9	292
	61-90 AVERAGE	1	7	51	232	529	852	967	746	550	246	91	13	4284
	STD DEV	2	5	28	68	93	141	163	127	121	74	42	9	299
	71-00 AVERAGE	1	7	53	233	545	847	953	712	538	263	96	14	4262
	STD DEV	1	7	29	62	108	150	159	140	93	71	42	10	345
	31-00 AVERAGE	0	4	36	208	523	809	895	694	534	226	76	6	4011
	STD DEV	1	4	21	64	92	125	143	121	123	64	35	5	317
AR-03 Northeast 	31-60 AVERAGE	0	3	31	190	531	782	844	681	546	221	72	5	3905
	STD DEV	1	4	19	61	85	111	129	119	137	62	32	4	309
	41-70 AVERAGE	0	5	37	205	525	809	880	701	571	213	71	5	4024
	STD DEV	1	4	19	69	80	108	110	105	137	70	33	4	280
	51-80 AVERAGE	0	5	38	221	537	809	928	721	561	223	75	7	4124
	STD DEV	0	4	23	70	91	98	146	124	137	66	38	6	281
	61-90 AVERAGE	0	5	40	225	509	836	950	733	528	226	81	7	4141
	STD DEV	0	4	22	68	89	136	154	119	120	66	38	6	275
	71-00 AVERAGE	0	5	40	221	519	828	930	691	511	237	83	7	4071
	STD DEV	0	5	22	59	103	139	152	133	96	64	38	6	327
AR-03 Northeast 	31-00 AVERAGE	0	1	23	173	487	770	861	663	489	191	45	1	3704
	STD DEV	0	1	15	56	91	126	144	122	119	59	25	2	304
	31-60 AVERAGE	0	0	21	165	507	758	815	659	509	198	47	1	3681
	STD DEV	0	1	14	56	85	117	135	120	132	57	23	2	311
	41-70 AVERAGE	0	1	25	173	496	778	848	674	523	186	44	1	3748
	STD DEV	0	1	14	58	80	114	110	105	131	62	24	2	256
	51-80 AVERAGE	0	1	25	183	496	770	890	689	509	187	44	1	3796
	STD DEV	0	1	17	62	88	103	145	127	130	58	26	2	276
	61-90 AVERAGE	0	1	25	182	462	785	912	693	476	183	46	1	3766
	STD DEV	0	1	17	61	84	136	155	125	113	61	27	2	290
0303	71-00 AVERAGE	0	1	25	178	472	776	892	653	461	190	45	1	3694
	STD DEV	0	1	17	55	101	137	154	134	94	62	26	2	327



Section 3:

Heating Degree Days

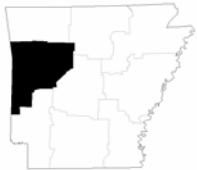

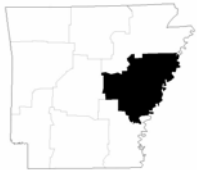



Divisional Normals, 1971-2000 (and previous periods)

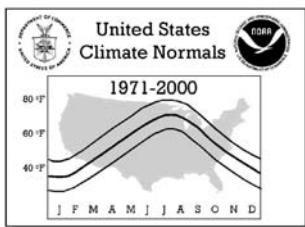
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Arkansas

Page 12

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
AR-04 West Central  0304	31-00 AVERAGE	0	3	23	160	473	742	825	623	469	180	46	3	3546
	STD DEV	0	3	15	53	87	117	131	114	113	55	24	3	278
	31-60 AVERAGE	0	2	20	147	485	723	790	620	491	186	46	3	3511
	STD DEV	0	2	13	53	80	107	126	112	125	54	23	2	298
	41-70 AVERAGE	0	3	24	160	477	752	825	639	514	176	44	3	3616
	STD DEV	0	3	13	54	77	96	101	103	124	60	23	2	230
	51-80 AVERAGE	0	3	23	168	482	748	856	647	492	178	44	3	3644
	STD DEV	0	3	16	57	90	86	134	119	126	58	26	3	241
	61-90 AVERAGE	0	3	26	172	454	766	870	650	454	171	47	3	3615
	STD DEV	0	3	16	55	84	123	139	115	108	57	25	3	245
AR-05 Central  0305	71-00 AVERAGE	0	3	25	169	467	754	844	610	435	182	49	3	3542
	STD DEV	0	3	16	51	97	132	138	123	84	56	25	3	287
	31-00 AVERAGE	0	1	18	146	439	699	773	585	428	154	35	1	3280
	STD DEV	0	2	12	51	84	124	133	111	108	50	21	2	277
	31-60 AVERAGE	0	1	14	132	448	680	729	578	444	151	34	1	3210
	STD DEV	0	1	10	49	78	125	129	114	121	44	20	1	294
	41-70 AVERAGE	0	1	18	141	436	698	762	593	459	140	31	1	3280
	STD DEV	0	2	10	53	72	127	114	104	121	47	18	1	267
	51-80 AVERAGE	0	1	19	153	445	696	796	602	441	147	34	2	3335
	STD DEV	0	2	14	57	85	93	141	118	119	47	22	2	273
AR-06 East Central  0306	61-90 AVERAGE	0	2	21	158	422	718	823	614	415	150	37	2	3361
	STD DEV	0	2	14	55	83	125	138	113	103	54	22	2	249
	71-00 AVERAGE	0	2	21	158	438	712	801	578	404	163	39	2	3315
	STD DEV	0	2	14	49	91	131	135	117	85	55	22	2	276
	31-00 AVERAGE	0	0	17	148	421	686	768	581	419	146	30	0	3216
	STD DEV	0	1	11	53	84	124	144	118	110	50	19	1	293
	31-60 AVERAGE	0	0	14	140	432	665	711	566	428	146	31	0	3134
	STD DEV	0	0	10	55	79	114	138	115	126	46	18	1	294
	41-70 AVERAGE	0	0	18	150	424	689	753	588	447	136	28	0	3234
	STD DEV	0	1	10	58	74	113	116	110	124	50	17	1	261
AR-07 Southwest  0307	51-80 AVERAGE	0	0	18	158	432	691	798	606	438	140	29	1	3311
	STD DEV	0	1	14	60	84	103	143	128	123	48	20	1	275
	61-90 AVERAGE	0	0	20	158	403	706	830	617	413	141	31	1	3320
	STD DEV	0	1	13	56	84	133	146	123	103	54	20	1	279
	71-00 AVERAGE	0	0	19	152	415	698	808	580	400	152	32	1	3255
	STD DEV	0	1	13	49	92	134	146	126	86	55	20	1	301
	31-00 AVERAGE	0	0	12	130	399	643	711	532	387	138	31	1	2985
	STD DEV	0	1	9	49	85	112	126	105	100	48	18	1	250
	31-60 AVERAGE	0	0	9	115	409	625	668	523	397	133	29	0	2908
	STD DEV	0	0	6	46	76	101	125	106	114	41	17	1	260
AR-08 South Central  0308	41-70 AVERAGE	0	0	11	126	396	645	703	540	416	125	27	0	2989
	STD DEV	0	1	7	48	75	98	112	100	109	45	16	1	220
	51-80 AVERAGE	0	0	12	135	402	639	732	547	398	130	28	1	3024
	STD DEV	0	1	11	55	87	90	129	114	108	44	19	1	217
	61-90 AVERAGE	0	0	14	140	376	657	758	556	375	129	31	1	3036
	STD DEV	0	1	11	52	84	122	127	111	95	45	18	1	215
	71-00 AVERAGE	0	1	15	144	398	657	738	529	368	151	35	1	3036
	STD DEV	0	1	11	48	95	125	123	109	79	54	21	1	250
	31-00 AVERAGE	0	0	12	128	380	618	685	507	358	115	23	0	2827
	STD DEV	0	1	9	48	81	116	128	106	100	44	16	1	267
AR-09 Southeast  0309	31-60 AVERAGE	0	0	8	108	382	593	637	493	364	110	20	0	2715
	STD DEV	0	0	6	48	76	103	124	107	113	38	15	0	258
	41-70 AVERAGE	0	0	11	122	378	617	674	512	381	104	19	0	2819
	STD DEV	0	1	8	52	76	103	117	107	112	42	14	1	266
	51-80 AVERAGE	0	0	13	139	397	625	712	528	375	113	23	1	2925
	STD DEV	0	1	12	56	82	95	131	116	110	40	18	1	252
	61-90 AVERAGE	0	0	15	144	370	641	738	537	353	113	25	1	2937
	STD DEV	0	1	12	49	84	126	129	110	95	45	16	1	251
	71-00 AVERAGE	0	0	15	143	383	636	715	506	342	127	27	1	2894
	STD DEV	0	1	11	43	87	126	126	105	75	48	18	1	252



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)

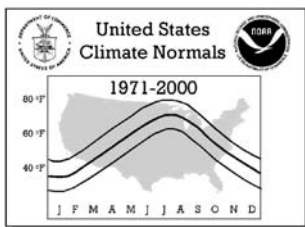
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

California

Page 13

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
CA-01 North Coast DB  0401	31-00 AVERAGE	25	30	82	257	488	663	685	526	504	381	245	101	3984
	STD DEV	15	16	31	53	62	77	91	73	75	75	59	35	329
	31-60 AVERAGE	27	37	83	261	484	651	706	541	503	370	242	106	4011
	STD DEV	14	17	27	47	57	78	108	72	78	63	61	37	346
	41-70 AVERAGE	30	38	86	270	485	667	711	533	529	399	259	113	4121
	STD DEV	16	16	30	48	54	77	89	74	60	76	53	37	268
	51-80 AVERAGE	27	35	85	267	497	674	704	531	534	414	262	108	4138
	STD DEV	16	18	31	53	51	79	69	66	63	76	55	41	241
	61-90 AVERAGE	25	26	88	261	495	677	685	524	516	400	253	97	4046
	STD DEV	16	13	36	61	55	79	72	70	71	89	53	35	289
	71-00 AVERAGE	21	23	79	249	492	664	655	513	491	375	239	93	3892
	STD DEV	13	12	33	61	72	78	73	68	77	75	59	32	331
CA-02 Sacramento DB  0402	31-00 AVERAGE	8	12	60	247	527	737	765	600	560	394	217	70	4197
	STD DEV	7	10	32	65	77	83	94	79	85	91	70	32	275
	31-60 AVERAGE	7	13	57	251	519	726	790	627	565	381	218	74	4228
	STD DEV	6	10	28	63	69	85	119	74	93	83	70	35	311
	41-70 AVERAGE	8	14	55	249	517	735	783	604	582	400	225	76	4247
	STD DEV	7	11	27	62	64	79	94	83	70	100	66	35	233
	51-80 AVERAGE	8	14	58	243	525	735	772	590	577	413	224	68	4228
	STD DEV	6	12	28	63	64	88	74	75	74	100	69	36	224
	61-90 AVERAGE	9	12	67	246	535	746	755	583	564	408	215	63	4203
	STD DEV	8	11	38	68	73	85	69	74	75	107	64	29	225
	71-00 AVERAGE	10	12	62	247	541	742	739	582	547	396	215	67	4158
	STD DEV	8	10	37	73	87	83	68	72	86	86	73	31	274
CA-03 Northeast Interior Basins  0403	31-00 AVERAGE	95	111	273	559	853	1093	1145	947	905	690	485	260	7415
	STD DEV	39	42	69	83	92	111	132	106	96	104	89	66	368
	31-60 AVERAGE	76	96	244	537	840	1064	1163	971	908	657	470	256	7281
	STD DEV	29	36	60	80	96	105	162	110	105	90	91	67	395
	41-70 AVERAGE	81	106	252	537	831	1078	1145	937	919	683	475	261	7303
	STD DEV	30	41	73	82	85	101	138	116	86	109	85	68	341
	51-80 AVERAGE	86	115	265	547	839	1087	1137	927	917	706	479	244	7349
	STD DEV	30	51	74	81	73	108	114	102	96	113	92	64	329
	61-90 AVERAGE	103	120	296	572	864	1115	1146	935	912	716	492	250	7521
	STD DEV	38	48	77	87	76	117	104	100	91	116	76	62	320
	71-00 AVERAGE	114	127	298	586	875	1118	1133	935	896	709	502	267	7559
	STD DEV	42	43	64	80	92	114	112	88	95	103	90	68	328
CA-04 Central Coast DB  0404	31-00 AVERAGE	35	34	56	148	332	494	516	392	379	287	193	92	2957
	STD DEV	17	17	23	41	61	68	77	67	69	63	50	33	283
	31-60 AVERAGE	39	46	59	159	334	489	540	418	388	290	195	98	3055
	STD DEV	18	15	21	37	63	68	92	64	72	53	47	34	291
	41-70 AVERAGE	39	40	57	155	331	497	535	406	402	304	206	101	3072
	STD DEV	19	19	21	41	59	63	78	69	58	65	41	35	244
	51-80 AVERAGE	36	34	54	145	332	495	520	389	396	308	203	95	3005
	STD DEV	18	18	21	42	48	69	61	62	59	67	44	35	227
	61-90 AVERAGE	33	27	56	142	334	504	509	378	380	292	195	87	2935
	STD DEV	16	12	26	42	51	70	61	63	63	73	46	31	219
	71-00 AVERAGE	30	25	52	139	335	493	490	371	362	273	183	82	2835
	STD DEV	14	12	24	42	63	71	60	59	69	62	55	29	271
CA-05 San Joaquin DB  0405	31-00 AVERAGE	1	2	20	153	420	641	662	486	433	281	132	32	3263
	STD DEV	2	3	15	51	74	78	87	72	83	80	53	20	261
	31-60 AVERAGE	1	3	19	161	418	624	679	515	447	275	135	36	3314
	STD DEV	1	4	13	49	75	75	103	68	88	69	53	23	275
	41-70 AVERAGE	1	3	20	159	416	643	676	501	459	294	142	39	3355
	STD DEV	2	3	13	50	72	73	87	78	69	87	48	23	224
	51-80 AVERAGE	1	3	20	150	419	647	665	483	448	302	139	32	3307
	STD DEV	1	4	13	49	58	83	71	69	75	88	53	22	207
	61-90 AVERAGE	1	2	23	150	424	663	662	472	433	292	130	27	3280
	STD DEV	2	3	19	52	63	80	73	66	75	96	47	17	220
	71-00 AVERAGE	1	2	20	147	427	648	641	462	413	276	127	26	3191
	STD DEV	2	3	17	54	76	80	76	59	84	77	56	17	264
CA-06 South Coast DB  0406	31-00 AVERAGE	7	5	23	88	247	390	422	343	334	228	141	59	2284
	STD DEV	6	4	16	34	63	74	87	73	76	66	47	28	283
	31-60 AVERAGE	8	6	24	99	244	384	456	376	345	233	148	67	2392
	STD DEV	7	4	16	32	69	76	105	71	83	51	45	25	281
	41-70 AVERAGE	9	6	25	96	250	401	444	361	362	250	156	73	2432
	STD DEV	7	4	15	36	63	67	86	80	69	64	37	28	234
	51-80 AVERAGE	6	5	22	89	252	394	427	340	353	254	156	62	2362
	STD DEV	6	4	13	35	60	80	67	74	71	68	41	31	238
	61-90 AVERAGE	6	4	24	82	253	403	406	324	336	235	142	55	2272
	STD DEV	6	3	17	34	56	78	64	66	69	77	43	31	248
	71-00 AVERAGE	5	3	20	80	247	383	389	312	311	211	128	44	2133
	STD DEV	5	3	15	33	63	77	62	57	71	67	49	24	254



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

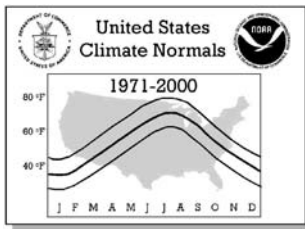
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

California – Colorado

Page 14

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
CA-07 Southeast Desert Basins 	31-00 AVERAGE	0	0	6	94	333	552	575	416	332	186	66	8	2568
	STD DEV	0	0	6	41	80	89	106	93	87	72	38	8	336
	31-60 AVERAGE	0	0	6	102	346	548	610	459	350	183	71	10	2686
	STD DEV	0	0	6	42	84	87	124	96	85	55	39	7	313
	41-70 AVERAGE	0	0	6	97	339	561	593	432	364	200	72	11	2674
	STD DEV	0	0	7	43	77	79	95	92	73	74	32	7	239
	51-80 AVERAGE	0	0	6	96	342	562	588	418	359	214	79	9	2671
	STD DEV	0	0	6	44	66	88	81	83	78	75	38	6	228
	61-90 AVERAGE	0	0	7	92	323	562	563	393	331	199	67	7	2542
	STD DEV	0	0	7	42	66	97	85	73	87	88	37	7	328
0407 CO-01 Arkansas DB 	71-00 AVERAGE	0	0	4	85	318	539	534	373	296	171	57	5	2383
	STD DEV	0	0	5	40	80	93	83	69	86	74	40	6	320
	31-00 AVERAGE	7	24	159	468	849	1101	1159	947	872	574	306	84	6550
	STD DEV	5	14	50	77	106	110	127	114	108	92	71	36	343
	31-60 AVERAGE	7	18	141	439	847	1068	1153	958	892	572	307	82	6485
	STD DEV	5	9	43	64	101	97	125	131	104	90	72	40	343
	41-70 AVERAGE	8	23	157	449	834	1084	1153	952	919	566	297	89	6531
	STD DEV	5	15	53	89	104	89	117	125	115	96	63	41	315
	51-80 AVERAGE	7	27	166	462	855	1094	1175	952	900	580	303	81	6602
	STD DEV	5	17	58	88	100	115	131	119	111	86	71	39	332
0501 CO-02 Colorado DB 	61-90 AVERAGE	7	29	175	487	840	1134	1181	959	874	567	311	87	6651
	STD DEV	5	16	52	90	96	123	139	96	118	96	67	33	335
	71-00 AVERAGE	8	27	169	498	865	1128	1163	934	831	579	315	83	6600
	STD DEV	5	13	47	58	116	118	129	101	84	100	71	32	364
	31-00 AVERAGE	42	77	273	604	991	1307	1384	1117	1009	710	437	185	8134
	STD DEV	20	29	59	72	98	105	123	123	104	92	71	53	431
	31-60 AVERAGE	40	74	257	586	994	1282	1378	1131	1029	700	432	184	8087
	STD DEV	19	24	44	57	101	105	118	142	88	84	78	53	390
	41-70 AVERAGE	45	86	281	600	988	1306	1390	1135	1065	724	442	205	8266
	STD DEV	17	31	62	81	99	94	105	120	94	90	66	51	344
0502 CO-03 Kansas DB 	51-80 AVERAGE	43	91	289	608	1000	1331	1401	1141	1055	742	454	191	8346
	STD DEV	16	31	65	76	94	116	121	120	101	81	68	54	404
	61-90 AVERAGE	42	85	292	617	979	1331	1411	1127	1020	723	451	186	8265
	STD DEV	17	33	68	88	79	110	126	106	115	100	61	55	453
	71-00 AVERAGE	44	75	275	616	998	1320	1374	1099	964	707	442	175	8089
	STD DEV	22	28	59	66	100	108	133	106	96	99	67	53	469
	31-00 AVERAGE	4	13	128	421	830	1099	1168	936	846	520	258	62	6284
	STD DEV	4	9	51	82	109	131	156	141	124	95	74	32	361
	31-60 AVERAGE	4	10	114	404	831	1079	1171	966	885	525	264	63	6315
	STD DEV	4	7	43	85	103	115	162	153	124	101	79	37	367
0503 CO-04 Platte DB 	41-70 AVERAGE	4	12	130	408	817	1090	1166	944	901	516	255	67	6310
	STD DEV	4	8	55	100	104	96	143	137	134	108	75	36	283
	51-80 AVERAGE	4	13	130	413	840	1095	1192	936	876	521	252	57	6329
	STD DEV	4	9	56	95	95	122	151	135	135	87	68	31	299
	61-90 AVERAGE	3	14	140	428	823	1131	1181	934	833	507	254	60	6308
	STD DEV	3	9	55	90	101	146	163	115	124	94	67	26	338
	71-00 AVERAGE	5	15	135	441	845	1114	1168	913	795	522	263	61	6276
	STD DEV	4	10	47	51	122	153	150	136	90	93	67	28	395
	31-00 AVERAGE	31	55	241	555	921	1165	1232	1020	958	664	395	151	7389
	STD DEV	18	25	67	85	108	121	138	123	112	97	79	53	396
0504 CO-05 Rio Grande DB 	31-60 AVERAGE	23	39	212	521	903	1121	1223	1031	969	643	379	136	7201
	STD DEV	14	16	52	74	106	112	154	146	107	98	84	55	387
	41-70 AVERAGE	29	51	239	537	901	1141	1226	1025	1006	656	385	157	7353
	STD DEV	15	25	70	102	102	97	138	135	122	107	68	59	374
	51-80 AVERAGE	30	60	246	547	931	1159	1245	1019	993	679	398	148	7454
	STD DEV	17	27	75	95	97	123	137	119	119	89	73	56	407
	61-90 AVERAGE	34	67	267	578	932	1215	1255	1031	972	676	414	161	7601
	STD DEV	16	24	70	96	96	126	134	95	123	94	66	49	316
	71-00 AVERAGE	38	64	258	586	946	1198	1236	1007	922	682	415	156	7507
	STD DEV	19	24	63	58	117	128	121	103	86	97	75	49	377
0505 CO-05 Rio Grande DB 	31-00 AVERAGE	118	168	362	685	1076	1422	1497	1196	1085	786	526	259	9180
	STD DEV	33	42	52	68	103	133	142	134	105	81	66	52	459
	31-60 AVERAGE	119	160	347	671	1079	1415	1504	1206	1094	770	530	258	9151
	STD DEV	31	37	45	59	98	136	129	146	95	78	67	53	402
	41-70 AVERAGE	122	174	368	686	1072	1415	1490	1208	1133	790	531	275	9265
	STD DEV	34	40	49	75	98	123	111	127	98	84	60	50	385
	51-80 AVERAGE	117	181	374	687	1085	1429	1497	1208	1113	805	533	261	9289
	STD DEV	31	40	48	71	107	145	132	132	105	76	61	51	422
	61-90 AVERAGE	119	182	383	699	1067	1439	1516	1213	1103	803	534	265	9324
	STD DEV	32	43	53	80	95	131	141	115	112	84	58	51	406
	71-00 AVERAGE	121	173	368	699	1084	1424	1486	1183	1053	794	525	249	9159
	STD DEV	33	45	54	63	112	136	166	128	101	83	71	53	535



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)

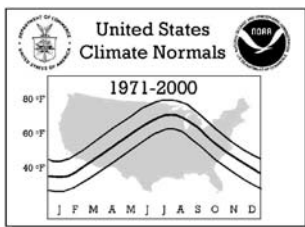
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Connecticut – Delaware – Florida

Page 15

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
CT-01 Northwest  0601	31-00 AVERAGE	13	35	170	483	786	1163	1294	1126	974	602	286	68	7000
	STD DEV	9	20	45	83	84	128	144	120	112	85	70	27	382
	31-60 AVERAGE	14	39	172	473	798	1184	1277	1136	1002	611	294	72	7072
	STD DEV	8	24	46	82	90	123	148	126	133	99	69	30	427
	41-70 AVERAGE	14	39	163	451	775	1192	1302	1134	987	590	300	69	7015
	STD DEV	8	23	46	70	73	119	132	97	116	90	77	28	321
	51-80 AVERAGE	13	33	164	472	773	1165	1303	1132	976	589	292	69	6981
	STD DEV	8	18	51	82	81	119	123	111	92	78	77	28	302
	61-90 AVERAGE	12	32	165	481	770	1162	1324	1133	954	596	282	68	6978
	STD DEV	8	17	49	88	79	133	140	109	88	75	71	26	298
CT-02 Central  0602	71-00 AVERAGE	12	32	172	505	779	1128	1293	1102	942	591	272	66	6893
	STD DEV	9	15	39	84	78	137	145	123	94	74	63	27	372
	31-00 AVERAGE	5	20	129	425	712	1081	1206	1044	893	547	250	48	6360
	STD DEV	5	14	40	76	80	126	143	116	104	76	64	22	375
	31-60 AVERAGE	5	21	122	403	719	1093	1182	1051	915	556	254	49	6369
	STD DEV	4	15	39	73	79	122	146	121	124	87	61	25	398
	41-70 AVERAGE	6	24	127	403	713	1116	1223	1060	912	547	269	52	6452
	STD DEV	6	16	42	69	72	124	132	101	109	85	68	24	372
	51-80 AVERAGE	6	20	132	428	708	1093	1225	1058	900	540	261	52	6425
	STD DEV	6	14	45	75	77	124	126	112	90	72	69	24	347
CT-03 Coastal  0603	61-90 AVERAGE	5	20	136	440	702	1089	1243	1056	880	545	254	51	6420
	STD DEV	6	13	44	79	78	133	140	105	85	69	66	20	311
	71-00 AVERAGE	4	16	133	450	702	1048	1207	1016	862	532	237	46	6253
	STD DEV	4	9	36	78	82	133	141	117	87	67	60	21	358
	31-00 AVERAGE	4	12	86	358	649	999	1122	980	844	518	237	37	5846
	STD DEV	3	10	32	69	73	118	134	110	92	68	61	19	363
	31-60 AVERAGE	4	15	92	356	664	1027	1110	989	869	531	243	40	5940
	STD DEV	3	12	32	71	73	111	136	118	104	75	55	23	352
	41-70 AVERAGE	5	16	93	348	654	1038	1140	993	867	527	263	44	5987
	STD DEV	4	10	34	61	63	109	119	88	92	75	65	21	297
DE-01 Northern  0701	51-80 AVERAGE	4	13	89	361	649	1007	1143	994	853	519	254	43	5929
	STD DEV	4	9	36	65	70	115	112	99	78	65	68	20	296
	61-90 AVERAGE	3	10	84	359	634	992	1150	989	827	515	240	38	5840
	STD DEV	4	8	35	73	71	123	132	95	80	65	67	15	342
	71-00 AVERAGE	2	8	78	361	632	954	1113	952	807	496	218	32	5653
	STD DEV	3	5	25	72	73	121	137	109	78	57	53	16	325
	31-00 AVERAGE	0	2	47	289	584	911	1020	880	720	396	136	10	4995
	STD DEV	0	2	22	71	76	122	150	121	107	71	47	7	330
	31-60 AVERAGE	0	2	45	276	589	924	982	880	740	401	135	11	4982
	STD DEV	0	3	21	68	70	118	154	124	126	76	40	8	315
DE-02 Southern  0702	41-70 AVERAGE	0	2	48	278	594	947	1029	892	736	394	142	11	5072
	STD DEV	0	3	26	69	63	116	132	92	115	75	53	8	289
	51-80 AVERAGE	0	2	48	296	595	921	1052	900	730	390	144	12	5089
	STD DEV	0	2	25	71	77	120	123	122	97	73	52	9	287
	61-90 AVERAGE	0	2	49	300	577	915	1075	899	705	402	139	10	5073
	STD DEV	0	2	25	80	79	129	139	119	93	68	51	7	316
	71-00 AVERAGE	0	1	47	300	575	879	1032	860	692	381	131	10	4908
	STD DEV	0	2	17	78	85	128	150	128	92	65	43	7	338
	31-00 AVERAGE	0	1	37	259	535	843	935	817	666	370	123	10	4594
	STD DEV	0	1	18	67	82	129	152	118	110	69	42	8	329
FL-01 Northwest  0801	31-60 AVERAGE	0	1	37	250	545	859	901	813	687	375	119	9	4595
	STD DEV	0	1	19	64	73	128	164	118	130	71	39	7	324
	41-70 AVERAGE	0	1	40	253	547	884	944	825	685	369	124	10	4681
	STD DEV	0	1	20	65	69	122	138	89	123	70	47	7	293
	51-80 AVERAGE	0	1	39	269	548	852	970	840	679	361	127	12	4698
	STD DEV	0	1	19	66	78	126	123	119	104	75	46	8	277
	61-90 AVERAGE	0	1	39	267	523	838	989	839	652	377	126	10	4663
	STD DEV	0	1	19	76	86	134	136	121	90	69	44	8	312
	71-00 AVERAGE	0	1	34	262	518	807	943	801	638	356	121	10	4492
	STD DEV	0	1	13	73	90	134	146	129	89	66	40	9	324



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)

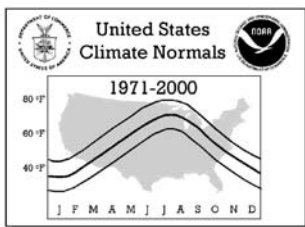
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Florida

Page 16

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
FL-02 North  0802	31-00 AVERAGE	0	0	0	30	154	312	364	269	163	39	1	0	1331
	STD DEV	0	0	0	16	55	93	109	90	61	21	1	0	221
	31-60 AVERAGE	0	0	0	27	155	301	332	250	166	36	1	0	1269
	STD DEV	0	0	0	15	50	96	111	96	65	19	1	0	193
	41-70 AVERAGE	0	0	0	30	166	322	363	278	172	34	1	0	1366
	STD DEV	0	0	0	14	56	89	95	104	66	22	1	0	227
	51-80 AVERAGE	0	0	0	34	166	330	385	297	167	35	1	0	1414
	STD DEV	0	0	0	16	54	85	106	98	61	18	1	0	221
	61-90 AVERAGE	0	0	0	32	153	322	403	297	161	39	1	0	1407
	STD DEV	0	0	0	19	61	96	110	89	58	21	1	0	245
	71-00 AVERAGE	0	0	0	31	141	314	380	270	153	43	2	0	1333
	STD DEV	0	0	0	19	55	89	114	76	53	21	1	0	222
	31-00 AVERAGE	0	0	0	8	84	208	260	192	104	20	0	0	877
	STD DEV	0	0	0	6	37	73	89	74	47	13	1	0	175
FL-03 North Central  0803	31-60 AVERAGE	0	0	0	8	86	202	241	178	105	19	0	0	839
	STD DEV	0	0	0	5	36	78	90	81	50	12	0	0	155
	41-70 AVERAGE	0	0	0	8	92	213	258	199	109	17	0	0	897
	STD DEV	0	0	0	5	41	70	72	85	51	13	0	0	175
	51-80 AVERAGE	0	0	0	9	91	221	274	215	106	17	0	0	934
	STD DEV	0	0	0	5	37	66	87	81	47	10	0	0	179
	61-90 AVERAGE	0	0	0	9	84	214	287	212	103	20	0	0	930
	STD DEV	0	0	0	7	40	75	94	72	45	15	0	0	196
	71-00 AVERAGE	0	0	0	8	74	207	271	195	99	22	0	0	876
	STD DEV	0	0	0	7	33	69	98	65	41	15	1	0	184
	31-00 AVERAGE	0	0	0	3	60	157	203	151	81	12	0	0	668
	STD DEV	0	0	0	3	30	62	75	64	40	9	0	0	152
	31-60 AVERAGE	0	0	0	4	65	158	197	146	86	12	0	0	666
	STD DEV	0	0	0	3	29	67	76	72	43	9	0	0	135
FL-04 South Central  0804	41-70 AVERAGE	0	0	0	4	68	166	207	161	87	11	0	0	704
	STD DEV	0	0	0	2	33	59	61	74	43	9	0	0	154
	51-80 AVERAGE	0	0	0	4	64	172	217	171	83	11	0	0	721
	STD DEV	0	0	0	2	30	57	72	68	40	7	0	0	153
	61-90 AVERAGE	0	0	0	3	58	162	220	164	79	13	0	0	699
	STD DEV	0	0	0	3	32	62	80	61	39	10	0	0	172
	71-00 AVERAGE	0	0	0	3	47	148	202	146	72	13	0	0	631
	STD DEV	0	0	0	3	23	54	83	54	33	10	0	0	152
	31-00 AVERAGE	0	0	0	1	29	97	133	100	42	6	0	0	408
	STD DEV	0	0	0	1	18	46	58	49	26	6	0	0	118
	31-60 AVERAGE	0	0	0	1	33	98	131	98	45	6	0	0	411
	STD DEV	0	0	0	1	18	51	56	54	29	6	0	0	105
	41-70 AVERAGE	0	0	0	1	34	105	137	106	44	5	0	0	432
	STD DEV	0	0	0	1	21	47	46	55	28	5	0	0	118
FL-05 Everglades & SW Coast  0805	51-80 AVERAGE	0	0	0	1	32	110	146	116	43	5	0	0	453
	STD DEV	0	0	0	1	19	43	54	54	25	3	0	0	116
	61-90 AVERAGE	0	0	0	1	29	102	146	110	41	6	0	0	434
	STD DEV	0	0	0	1	20	46	63	48	25	6	0	0	129
	71-00 AVERAGE	0	0	0	0	20	86	130	96	36	6	0	0	374
	STD DEV	0	0	0	1	10	37	66	44	20	6	0	0	117
	31-00 AVERAGE	0	0	0	0	15	61	93	72	30	2	0	0	273
	STD DEV	0	0	0	0	11	34	46	41	20	2	0	0	93
	31-60 AVERAGE	0	0	0	0	17	63	92	72	33	3	0	0	280
	STD DEV	0	0	0	0	11	38	46	46	22	3	0	0	85
	41-70 AVERAGE	0	0	0	0	20	70	98	81	33	2	0	0	303
	STD DEV	0	0	0	0	14	36	37	48	22	2	0	0	90
	51-80 AVERAGE	0	0	0	0	17	71	104	85	30	2	0	0	309
	STD DEV	0	0	0	0	12	33	44	45	20	2	0	0	91
FL-06 Lower East Coast  0806	61-90 AVERAGE	0	0	0	0	15	64	101	77	28	2	0	0	287
	STD DEV	0	0	0	0	13	35	51	39	20	2	0	0	103
	71-00 AVERAGE	0	0	0	0	9	52	90	66	24	2	0	0	243
	STD DEV	0	0	0	0	5	25	53	35	15	2	0	0	88
	31-00 AVERAGE	0	0	0	0	3	23	44	34	9	0	0	0	113
	STD DEV	0	0	0	0	3	16	29	25	8	1	0	0	52
	31-60 AVERAGE	0	0	0	0	4	24	42	34	10	0	0	0	115
	STD DEV	0	0	0	0	4	18	28	28	10	0	0	0	52
	41-70 AVERAGE	0	0	0	0	4	26	44	37	10	0	0	0	121
	STD DEV	0	0	0	0	4	17	22	27	9	0	0	0	46
	51-80 AVERAGE	0	0	0	0	3	25	47	41	9	0	0	0	125
	STD DEV	0	0	0	0	3	16	27	29	8	0	0	0	53
	61-90 AVERAGE	0	0	0	0	3	23	48	37	8	0	0	0	119
	STD DEV	0	0	0	0	3	16	33	24	8	1	0	0	55
FL-07 Keys  0807	71-00 AVERAGE	0	0	0	0	2	20	44	31	7	0	0	0	105
	STD DEV	0	0	0	0	1	13	34	22	6	1	0	0	54



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)

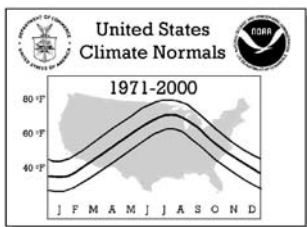
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Georgia

Page 17

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
GA-01 Northwest  0901	31-00 AVERAGE	0	0	22	189	438	685	744	584	436	181	56	5	3340
	STD DEV	0	0	13	60	87	121	153	113	106	56	30	5	322
	31-60 AVERAGE	0	0	16	165	441	667	678	551	436	163	43	3	3162
	STD DEV	0	0	10	56	79	118	152	120	123	44	23	3	282
	41-70 AVERAGE	0	0	22	184	452	703	735	587	457	163	50	5	3358
	STD DEV	0	0	14	61	76	110	135	130	118	54	27	4	321
	51-80 AVERAGE	0	0	23	204	453	698	780	615	456	173	59	7	3466
	STD DEV	0	0	15	58	80	110	144	126	107	51	31	5	306
	61-90 AVERAGE	0	0	27	212	430	705	818	627	437	193	68	7	3524
	STD DEV	0	1	14	63	92	127	142	106	91	59	29	4	282
GA-02 North Central  0902	71-00 AVERAGE	0	0	25	206	428	687	779	592	424	202	69	7	3417
	STD DEV	0	1	12	61	95	124	147	94	91	59	33	5	289
	31-00 AVERAGE	0	0	21	187	441	683	736	588	450	197	62	6	3370
	STD DEV	0	0	12	57	87	118	146	107	105	57	31	6	318
	31-60 AVERAGE	0	0	16	166	448	673	677	567	456	183	50	3	3238
	STD DEV	0	0	9	51	82	118	143	115	122	47	24	3	296
	41-70 AVERAGE	0	0	22	183	459	705	729	600	475	182	56	6	3417
	STD DEV	0	0	14	58	77	109	130	120	118	60	30	5	335
	51-80 AVERAGE	0	0	23	204	459	699	774	622	474	195	67	9	3528
	STD DEV	1	0	15	57	80	105	142	118	107	56	35	7	288
GA-03 Northeast  0903	61-90 AVERAGE	0	0	26	207	430	697	804	624	449	207	73	9	3525
	STD DEV	1	0	14	63	91	121	139	103	89	62	32	6	297
	71-00 AVERAGE	0	0	24	198	426	675	764	585	431	209	71	8	3391
	STD DEV	0	0	11	60	95	118	144	92	88	59	33	7	290
	31-00 AVERAGE	0	0	20	190	442	687	731	586	449	196	62	6	3369
	STD DEV	0	0	12	58	84	113	139	102	104	57	31	5	298
	31-60 AVERAGE	0	0	15	169	446	678	678	566	463	186	52	3	3255
	STD DEV	0	0	9	51	76	111	136	110	123	49	24	3	263
	41-70 AVERAGE	0	0	21	185	456	706	723	591	474	181	55	5	3397
	STD DEV	0	1	14	56	73	105	123	111	116	61	30	5	304
GA-04 West Central  0904	51-80 AVERAGE	0	0	22	204	458	701	763	614	466	190	65	8	3491
	STD DEV	1	1	15	56	76	106	139	110	105	57	34	6	286
	61-90 AVERAGE	0	0	25	209	435	700	792	617	440	202	71	8	3499
	STD DEV	1	1	14	64	86	117	136	100	84	62	31	5	296
	71-00 AVERAGE	0	0	22	204	431	680	756	585	427	206	72	8	3390
	STD DEV	0	0	10	63	93	116	140	92	87	57	33	6	299
	31-00 AVERAGE	0	0	8	131	364	593	642	496	359	133	29	1	2755
	STD DEV	0	0	6	46	82	113	139	106	96	45	18	1	262
	31-60 AVERAGE	0	0	7	120	379	592	595	481	374	130	24	0	2701
	STD DEV	0	0	5	43	78	115	146	115	109	41	15	1	253
GA-05 Central  0905	41-70 AVERAGE	0	0	9	129	381	609	635	499	381	119	24	1	2788
	STD DEV	0	0	7	46	75	103	125	122	105	47	16	1	262
	51-80 AVERAGE	0	0	9	141	375	600	668	520	369	122	29	1	2833
	STD DEV	0	0	7	45	78	103	139	118	97	44	20	2	257
	61-90 AVERAGE	0	0	10	141	349	595	698	525	350	132	33	1	2834
	STD DEV	0	0	7	53	84	117	134	102	83	46	18	1	266
	71-00 AVERAGE	0	0	9	139	344	585	662	493	336	141	34	1	2743
	STD DEV	0	0	5	50	85	114	134	87	81	46	20	2	258
	31-00 AVERAGE	0	0	5	108	321	545	592	453	315	106	19	1	2464
	STD DEV	0	0	4	42	80	113	137	104	91	40	13	1	269
GA-06 East Central  0906	31-60 AVERAGE	0	0	4	96	329	537	539	430	323	98	14	0	2371
	STD DEV	0	0	3	36	73	114	138	114	107	33	10	0	246
	41-70 AVERAGE	0	0	6	105	334	560	583	454	333	93	16	1	2484
	STD DEV	0	0	5	40	72	103	121	119	102	40	11	1	266
	51-80 AVERAGE	0	0	6	115	331	552	617	479	327	97	20	1	2546
	STD DEV	0	0	5	42	76	103	138	115	92	37	14	1	260
	61-90 AVERAGE	0	0	6	116	308	549	649	485	310	108	23	1	2554
	STD DEV	0	0	5	49	84	115	133	101	74	41	13	1	271
	71-00 AVERAGE	0	0	6	116	307	542	618	456	300	117	23	1	2485
	STD DEV	0	0	4	47	89	116	134	88	77	43	14	1	272
	31-00 AVERAGE	0	0	4	104	302	526	573	437	302	96	16	1	2360
	STD DEV	0	0	3	42	78	114	137	105	90	38	11	1	284
	31-60 AVERAGE	0	0	3	91	304	517	518	411	306	85	11	0	2245
	STD DEV	0	0	2	35	72	117	138	112	106	29	9	1	259
	41-70 AVERAGE	0	0	4	101	314	541	565	438	320	83	13	1	2379
	STD DEV	0	0	4	37	72	103	120	118	102	36	10	1	280
	51-80 AVERAGE	0	0	4	113	317	533	597	463	315	89	16	1	2449
	STD DEV	0	0	4	40	71	104	135	117	92	33	11	1	279
	61-90 AVERAGE	0	0	5	114	298	532	631	472	302	102	19	1	2475
	STD DEV	0	0	4	49	83	114	132	103	74	39	10	1	284
	71-00 AVERAGE	0	0	5	114	292	526	601	443	292	109	20	1	2403
	STD DEV	0	0	3	48	85	114	133	92	74	41	13	1	277



Section 3:

Heating Degree Days


Divisional Normals, 1971-2000 (and previous periods)

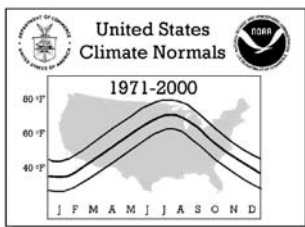
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Georgia – Idaho

Page 18

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
GA-07 Southwest  0907	31-00 AVERAGE	0	0	1	72	259	455	509	377	247	73	6	0	2001
	STD DEV	0	0	1	33	74	109	132	104	80	33	6	0	256
	31-60 AVERAGE	0	0	1	62	262	440	457	353	249	67	5	0	1895
	STD DEV	0	0	1	27	66	110	133	114	90	28	4	0	222
	41-70 AVERAGE	0	0	1	69	272	466	497	376	259	62	5	0	2006
	STD DEV	0	0	2	28	68	96	120	123	88	33	4	0	261
	51-80 AVERAGE	0	0	1	79	274	467	530	402	253	65	7	0	2078
	STD DEV	0	0	2	33	73	96	135	117	81	29	6	0	263
	61-90 AVERAGE	0	0	1	80	253	465	562	409	246	72	7	0	2096
	STD DEV	0	0	2	39	83	111	131	101	71	33	5	0	273
	71-00 AVERAGE	0	0	1	81	246	459	539	382	238	84	9	0	2039
	STD DEV	0	0	1	38	81	111	128	82	68	35	6	0	251
	GA-08 South Central	0	0	1	70	244	439	489	360	233	66	5	0	1906
	STD DEV	0	0	1	32	71	108	130	101	77	30	4	0	265
0908	31-60 AVERAGE	0	0	1	61	246	423	436	334	236	60	4	0	1800
	STD DEV	0	0	1	28	66	110	127	107	88	25	3	0	238
	41-70 AVERAGE	0	0	1	70	262	458	487	367	251	59	4	0	1959
	STD DEV	0	0	1	29	69	96	116	117	86	32	4	0	261
	51-80 AVERAGE	0	0	1	78	263	458	518	392	245	62	6	0	2023
	STD DEV	0	0	1	31	67	96	127	111	79	28	4	0	250
	61-90 AVERAGE	0	0	1	77	241	451	546	394	232	66	6	0	2014
	STD DEV	0	0	1	38	78	111	128	99	67	30	4	0	275
	71-00 AVERAGE	0	0	1	75	229	442	516	364	222	73	6	0	1929
	STD DEV	0	0	1	37	74	106	129	84	64	32	5	0	248
	GA-09 Southeast	0	0	0	57	222	417	465	350	230	59	4	0	1804
	STD DEV	0	0	1	28	68	105	125	100	77	27	3	0	260
	31-60 AVERAGE	0	0	0	54	231	414	426	335	241	58	3	0	1762
	STD DEV	0	0	1	25	63	111	128	108	90	24	3	0	237
0909	41-70 AVERAGE	0	0	0	58	240	438	469	362	251	56	3	0	1879
	STD DEV	0	0	1	26	63	96	111	114	89	28	3	0	249
	51-80 AVERAGE	0	0	0	63	237	431	491	378	242	57	4	0	1904
	STD DEV	0	0	1	26	65	97	122	106	79	24	3	0	252
	61-90 AVERAGE	0	0	0	61	217	420	512	378	227	59	4	0	1878
	STD DEV	0	0	1	33	73	107	125	98	65	27	3	0	285
	71-00 AVERAGE	0	0	0	58	202	409	479	345	212	62	4	0	1771
	STD DEV	0	0	1	32	70	102	125	86	60	27	3	0	263
	ID-01 Panhandle	68	89	280	604	918	1130	1213	967	875	599	369	185	7298
	STD DEV	32	37	72	60	100	110	175	120	91	73	72	55	407
	31-60 AVERAGE	61	95	270	586	926	1105	1245	1012	898	590	355	190	7333
	STD DEV	24	29	60	64	105	97	210	133	98	77	80	53	478
	41-70 AVERAGE	65	96	276	596	915	1121	1246	958	910	614	373	190	7360
	STD DEV	25	37	71	65	88	95	185	91	94	69	71	53	396
1001	51-80 AVERAGE	67	96	280	605	924	1117	1232	945	905	626	381	185	7364
	STD DEV	23	44	73	54	88	106	155	87	84	64	70	55	345
	61-90 AVERAGE	72	86	289	614	912	1156	1205	940	862	610	384	176	7307
	STD DEV	31	43	83	58	94	124	145	92	86	74	56	59	323
	71-00 AVERAGE	76	83	289	624	921	1154	1181	941	842	594	376	188	7269
	STD DEV	40	41	71	48	106	124	138	104	78	70	72	58	375
	ID-02 North Central Prairies	90	106	286	575	897	1107	1174	933	873	639	433	244	7359
	STD DEV	41	42	80	83	112	122	172	128	96	84	82	63	432
	31-60 AVERAGE	73	106	269	552	886	1067	1198	968	888	621	411	242	7282
	STD DEV	28	33	64	88	113	113	210	140	107	80	93	65	502
	41-70 AVERAGE	83	111	284	571	886	1092	1205	927	912	650	436	251	7406
	STD DEV	29	39	80	94	87	102	184	110	92	82	80	63	375
	51-80 AVERAGE	86	116	292	585	902	1093	1192	915	913	669	449	245	7457
	STD DEV	28	47	85	74	87	115	152	107	90	83	78	65	357
1002	61-90 AVERAGE	100	111	311	592	903	1143	1174	914	875	659	457	238	7477
	STD DEV	35	49	94	82	102	135	142	110	90	90	59	64	350
	71-00 AVERAGE	107	107	299	597	919	1144	1152	916	848	642	448	253	7431
	STD DEV	49	49	80	72	122	130	142	115	89	83	76	63	399
	ID-03 North Central Canyons	10	22	143	421	763	976	1029	781	667	431	234	88	5564
	STD DEV	11	14	55	77	96	99	160	110	82	80	66	37	360
	31-60 AVERAGE	7	23	133	393	778	958	1061	814	686	423	221	88	5583
	STD DEV	5	11	43	83	98	98	195	127	87	74	73	35	413
	41-70 AVERAGE	8	23	140	418	758	961	1062	771	704	446	237	91	5618
	STD DEV	5	13	55	80	80	85	175	85	77	74	65	35	312
	51-80 AVERAGE	8	25	144	436	773	965	1045	764	705	462	245	88	5658
	STD DEV	4	17	58	62	86	90	145	82	74	76	63	38	298
	61-90 AVERAGE	10	21	154	441	749	995	1020	760	663	440	244	80	5575
	STD DEV	8	17	65	70	92	110	130	85	79	90	52	37	333
1003	71-00 AVERAGE	15	22	151	444	763	998	1001	764	639	424	243	92	5556
	STD DEV	14	17	55	64	99	107	125	94	74	83	62	41	350



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

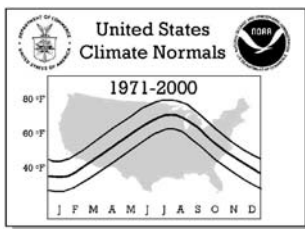
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Idaho

Page 19

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ID-04 Central Mountains 	31-00 AVERAGE	95	128	336	647	1001	1278	1344	1086	1009	718	480	266	8388
	STD DEV	40	46	78	75	100	118	146	118	116	90	84	66	479
	31-60 AVERAGE	92	141	334	638	1013	1259	1383	1129	1055	731	486	286	8546
	STD DEV	29	35	62	81	112	114	173	120	113	85	96	65	520
	41-70 AVERAGE	100	143	347	657	1000	1276	1376	1098	1078	758	507	295	8635
	STD DEV	30	46	83	88	93	92	154	109	101	75	81	61	395
	51-80 AVERAGE	94	139	343	656	1002	1271	1351	1078	1061	757	501	271	8524
	STD DEV	29	52	84	69	85	95	128	106	104	79	77	66	407
	61-90 AVERAGE	94	123	348	655	989	1307	1332	1067	995	720	488	246	8363
	STD DEV	36	52	93	76	76	129	117	104	107	98	65	65	403
1004 ID-05 Southwestern Valleys 	71-00 AVERAGE	97	115	332	650	1000	1295	1311	1055	944	684	467	246	8198
	STD DEV	50	46	77	65	98	132	118	107	90	89	75	63	414
	31-00 AVERAGE	9	22	155	438	805	1075	1142	862	717	460	243	91	6020
	STD DEV	11	15	55	72	102	134	179	139	93	83	70	39	450
	31-60 AVERAGE	7	24	152	426	817	1043	1162	896	745	450	240	100	6064
	STD DEV	4	11	42	73	97	119	204	144	88	72	79	40	427
	41-70 AVERAGE	8	25	159	444	794	1048	1153	856	750	472	248	103	6060
	STD DEV	5	14	57	85	80	89	189	122	82	78	69	39	324
	51-80 AVERAGE	7	27	158	452	804	1062	1133	846	746	487	252	91	6064
	STD DEV	4	17	58	63	82	97	172	119	90	78	68	37	316
1005 ID-06 Southwestern Highlands 	61-90 AVERAGE	9	23	168	452	793	1112	1156	852	712	474	250	81	6080
	STD DEV	7	17	67	77	92	157	161	134	94	96	56	35	469
	71-00 AVERAGE	11	20	155	443	808	1114	1133	843	682	456	246	85	5995
	STD DEV	15	16	59	64	115	155	165	132	92	89	66	38	522
	31-00 AVERAGE	61	87	267	545	890	1127	1192	954	901	653	424	227	7327
	STD DEV	34	40	83	123	112	125	160	129	106	105	95	72	530
	31-60 AVERAGE	53	91	259	516	892	1112	1241	998	933	643	417	238	7396
	STD DEV	26	37	66	154	118	136	187	141	103	93	115	81	592
	41-70 AVERAGE	67	105	288	553	890	1133	1225	968	962	685	445	266	7586
	STD DEV	24	36	84	140	99	107	172	127	84	89	91	62	380
1006 ID-07 Central Plains 	51-80 AVERAGE	64	102	284	563	891	1118	1190	936	939	688	446	235	7456
	STD DEV	23	39	86	112	89	109	142	107	99	92	86	59	344
	61-90 AVERAGE	66	93	293	573	890	1151	1181	938	899	669	440	217	7410
	STD DEV	27	42	97	99	87	129	122	101	105	118	69	65	425
	71-00 AVERAGE	66	79	264	561	895	1134	1147	923	853	640	425	211	7195
	STD DEV	41	41	84	85	119	128	130	108	96	113	80	65	509
	31-00 AVERAGE	16	35	200	492	856	1139	1218	952	825	547	319	129	6728
	STD DEV	15	21	66	83	107	136	176	151	110	94	81	47	494
	31-60 AVERAGE	11	32	185	470	851	1094	1239	980	841	529	306	130	6667
	STD DEV	6	13	49	83	111	127	206	160	100	80	89	49	476
1007 ID-08 Northeastern Valleys 	41-70 AVERAGE	13	35	197	486	834	1114	1225	942	858	557	318	142	6722
	STD DEV	7	21	69	98	92	104	190	137	98	89	77	47	349
	51-80 AVERAGE	15	41	205	501	854	1128	1214	942	865	581	333	132	6811
	STD DEV	7	26	73	81	86	109	155	127	104	87	79	45	367
	61-90 AVERAGE	19	41	223	514	857	1186	1236	954	837	570	339	127	6901
	STD DEV	11	27	79	89	87	146	145	136	119	106	65	47	492
	71-00 AVERAGE	22	36	208	507	874	1178	1206	937	791	546	331	125	6762
	STD DEV	21	24	68	72	113	146	157	142	112	100	77	47	564
	31-00 AVERAGE	70	116	321	648	1061	1404	1483	1173	1023	699	451	239	8688
	STD DEV	35	41	76	78	103	134	170	141	121	94	84	67	491
1008 ID-09 Upper Snake River Plains 	31-60 AVERAGE	67	119	313	628	1063	1379	1529	1215	1045	685	439	245	8727
	STD DEV	31	33	65	77	109	130	203	149	124	80	95	71	531
	41-70 AVERAGE	76	125	332	651	1049	1400	1512	1174	1078	719	461	264	8841
	STD DEV	25	45	82	87	86	105	182	149	119	83	82	59	384
	51-80 AVERAGE	70	127	328	658	1058	1389	1489	1162	1075	733	470	243	8802
	STD DEV	22	49	77	72	82	117	159	135	111	85	80	61	372
	61-90 AVERAGE	67	116	335	660	1051	1432	1466	1153	1030	718	471	227	8727
	STD DEV	26	50	89	84	82	150	135	128	118	108	66	62	474
	71-00 AVERAGE	74	114	320	659	1073	1424	1448	1152	982	694	461	230	8633
	STD DEV	42	40	73	70	109	148	139	122	105	103	76	66	497
1009 ID-09 Upper Snake River Plains 	31-00 AVERAGE	37	58	265	592	993	1319	1408	1121	988	649	389	183	8001
	STD DEV	25	27	72	81	111	137	175	162	135	97	83	58	524
	31-60 AVERAGE	31	57	254	572	995	1280	1437	1162	1026	639	379	188	8020
	STD DEV	15	19	53	81	116	133	194	171	124	88	96	60	525
	41-70 AVERAGE	35	63	272	594	984	1310	1431	1124	1042	669	394	203	8120
	STD DEV	15	29	77	94	103	109	178	157	125	88	83	55	373
	51-80 AVERAGE	34	67	275	607	997	1324	1422	1122	1036	685	402	185	8156
	STD DEV	14	31	80	76	95	123	167	152	127	85	80	52	379
	61-90 AVERAGE	36	62	282	609	983	1360	1418	1117	987	664	403	175	8097
	STD DEV	17	33	89	89	83	147	154	147	144	108	64	55	515
1009 	71-00 AVERAGE	43	55	265	604	1003	1347	1377	1092	931	638	398	174	7926
	STD DEV	33	29	72	70	118	145	159	143	122	104	74	57	565



Section 3:

Heating Degree Days









Divisional Normals, 1971-2000 (and previous periods)





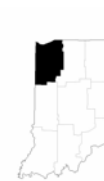

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

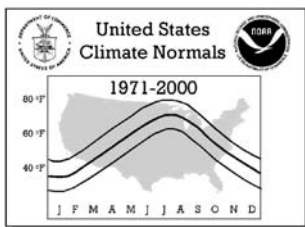
Temperature (°F), Precipitation (inches), and Degree Days

Idaho – Illinois

Page 20

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ID-10 Eastern Highlands 	31-00 AVERAGE	63	94	314	643	1027	1331	1419	1162	1071	737	468	243	8572
	STD DEV	33	36	75	84	114	123	152	139	129	99	83	67	494
	31-60 AVERAGE	58	94	303	626	1036	1304	1450	1194	1111	732	463	252	8625
	STD DEV	25	26	62	82	124	124	164	149	116	91	94	72	478
	41-70 AVERAGE	62	97	317	640	1020	1324	1434	1164	1123	751	471	267	8669
	STD DEV	22	36	83	99	110	96	154	138	113	89	84	66	386
	51-80 AVERAGE	60	104	319	647	1028	1333	1416	1154	1112	767	478	243	8661
	STD DEV	20	42	83	84	98	111	144	130	118	85	80	58	381
	61-90 AVERAGE	62	101	331	658	1015	1367	1426	1159	1066	752	482	235	8654
	STD DEV	22	43	88	93	80	124	135	126	135	109	67	61	473
IL-01 Northwest 	71-00 AVERAGE	69	91	315	654	1032	1349	1392	1144	1012	726	474	228	8484
	STD DEV	42	40	73	71	115	131	145	123	122	109	77	63	550
	31-00 AVERAGE	7	22	111	404	815	1221	1374	1120	906	491	220	38	6730
	STD DEV	6	15	43	92	108	164	182	155	144	90	74	21	443
	31-60 AVERAGE	5	17	100	377	824	1193	1314	1117	930	489	220	37	6623
	STD DEV	5	11	44	86	114	145	160	147	160	93	72	25	444
	41-70 AVERAGE	7	21	110	378	815	1221	1369	1130	934	475	222	39	6721
	STD DEV	5	14	39	90	102	152	145	118	158	95	74	22	349
	51-80 AVERAGE	7	22	110	404	814	1228	1432	1148	940	482	218	39	6846
	STD DEV	5	13	39	102	101	145	172	150	143	87	70	21	374
IL-02 Northeast 	61-90 AVERAGE	7	26	116	426	797	1257	1430	1156	898	487	221	39	6859
	STD DEV	5	15	37	103	88	177	202	153	135	91	76	19	390
	71-00 AVERAGE	8	27	121	439	815	1238	1410	1111	878	496	221	40	6802
	STD DEV	6	18	45	88	114	183	194	176	125	92	73	18	484
	31-00 AVERAGE	5	20	98	387	782	1176	1320	1089	895	506	239	44	6561
	STD DEV	5	14	38	89	108	159	179	145	136	88	77	24	430
	31-60 AVERAGE	4	16	90	365	796	1159	1255	1087	917	504	240	43	6478
	STD DEV	4	10	40	85	114	146	160	137	152	92	74	27	435
	41-70 AVERAGE	5	19	95	359	785	1181	1315	1099	915	490	242	44	6550
	STD DEV	5	13	36	89	102	150	148	114	147	91	77	25	349
IL-03 West 	51-80 AVERAGE	5	20	93	380	780	1177	1373	1111	917	496	236	44	6633
	STD DEV	4	13	35	99	101	142	171	141	129	85	74	24	377
	61-90 AVERAGE	5	23	101	404	761	1204	1384	1122	885	503	241	45	6679
	STD DEV	4	14	33	100	87	171	192	142	126	88	79	23	370
	71-00 AVERAGE	5	24	106	416	776	1183	1358	1076	867	509	237	46	6603
	STD DEV	5	15	39	87	113	177	184	161	119	92	77	23	470
	31-00 AVERAGE	5	15	79	331	737	1122	1263	1013	805	408	170	24	5971
	STD DEV	4	11	36	82	109	161	182	152	147	86	64	15	418
	31-60 AVERAGE	4	11	68	307	747	1094	1208	1005	825	411	168	22	5869
	STD DEV	4	9	34	79	113	142	170	146	164	86	60	17	444
IL-04 Central 	41-70 AVERAGE	5	14	78	313	737	1120	1257	1019	838	400	171	24	5976
	STD DEV	5	10	31	84	99	151	133	113	164	91	65	16	348
	51-80 AVERAGE	5	15	78	337	737	1122	1318	1041	839	399	167	24	6082
	STD DEV	5	9	34	92	99	134	165	151	152	84	62	15	339
	61-90 AVERAGE	5	18	83	351	716	1155	1312	1051	795	398	172	25	6081
	STD DEV	4	11	33	91	91	175	196	151	140	90	69	15	354
	71-00 AVERAGE	5	17	88	358	737	1141	1298	1008	774	407	173	25	6031
	STD DEV	4	12	39	79	117	178	190	176	123	91	62	14	433
	31-00 AVERAGE	4	15	79	345	747	1125	1262	1023	816	424	178	23	6039
	STD DEV	4	11	35	85	108	163	179	150	144	86	66	14	412
IL-05 East 	31-60 AVERAGE	3	11	70	322	757	1101	1194	1009	835	425	177	22	5926
	STD DEV	3	8	35	83	114	148	157	138	163	87	62	17	421
	41-70 AVERAGE	4	15	77	326	748	1129	1249	1026	843	411	178	23	6028
	STD DEV	4	10	32	86	99	153	138	112	159	89	67	15	352
	51-80 AVERAGE	5	16	75	348	750	1127	1318	1051	845	412	175	23	6144
	STD DEV	4	9	32	92	99	136	171	150	145	84	64	15	357
	61-90 AVERAGE	5	18	82	365	728	1158	1326	1070	808	416	180	23	6181
	STD DEV	4	11	32	94	88	175	193	153	134	90	72	14	353
	71-00 AVERAGE	5	18	86	369	743	1137	1305	1023	788	425	178	24	6102
	STD DEV	4	12	37	84	112	180	187	175	123	91	65	13	434
IL-05 East 	31-00 AVERAGE	4	17	85	354	747	1121	1256	1027	827	446	194	26	6105
	STD DEV	4	12	37	86	107	166	178	146	141	86	69	17	408
	31-60 AVERAGE	4	13	79	331	763	1106	1187	1016	851	451	198	27	6025
	STD DEV	4	9	38	79	115	154	156	134	158	89	62	20	426
	41-70 AVERAGE	5	17	84	334	753	1130	1242	1034	852	433	196	27	6107
	STD DEV	4	11	35	83	100	159	140	114	153	89	68	18	349
	51-80 AVERAGE	5	17	81	357	750	1121	1307	1054	848	431	189	27	6187
	STD DEV	4	9	36	92	98	140	172	151	142	82	66	18	361
	61-90 AVERAGE	5	19	86	376	722	1147	1319	1069	812	436	192	26	6209
	STD DEV	4	11	34	97	85	177	193	151	132	87	75	15	359
IL-05 East 	71-00 AVERAGE	5	20	92	383	737	1129	1302	1025	798	447	191	27	6154
	STD DEV	4	14	38	87	109	182	187	168	125	89	71	15	433

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
IL-06 West Southwest		31-00 AVERAGE	2	11	67	299	681	1039	1169	936	739	365	145	17	5471
		STD DEV	3	8	33	78	105	158	175	148	142	81	57	11	405
		31-60 AVERAGE	1	7	58	273	691	1011	1102	916	751	366	143	16	5336
		STD DEV	2	7	31	72	109	141	155	134	163	81	49	12	394
		41-70 AVERAGE	2	10	66	283	684	1038	1153	935	766	352	143	17	5449
		STD DEV	3	9	30	79	93	148	132	112	161	84	57	11	356
		51-80 AVERAGE	3	11	67	308	687	1039	1222	968	768	354	144	18	5588
		STD DEV	3	8	34	87	93	130	169	152	147	79	57	11	369
		61-90 AVERAGE	3	13	72	322	664	1074	1234	989	735	358	150	18	5630
		STD DEV	3	8	32	87	88	171	189	150	133	84	65	11	353
1106	71-00 AVERAGE	2	12	75	323	674	1056	1212	940	717	367	147	18	5545	
STD DEV	3	8	34	76	111	174	184	175	119	84	59	11	424		
IL-07 East Southeast		31-00 AVERAGE	1	8	66	298	671	1019	1141	921	727	363	145	15	5374
		STD DEV	2	7	31	80	104	158	176	144	140	78	55	11	393
		31-60 AVERAGE	1	6	60	278	688	999	1071	902	745	367	145	14	5277
		STD DEV	2	6	32	73	107	145	155	131	161	79	48	12	388
		41-70 AVERAGE	1	8	66	288	683	1026	1127	924	755	351	144	15	5390
		STD DEV	2	7	30	78	94	150	136	114	156	82	55	11	334
		51-80 AVERAGE	1	8	64	311	684	1020	1194	955	753	353	146	16	5504
		STD DEV	2	6	33	86	97	133	172	153	146	76	56	11	360
		61-90 AVERAGE	1	10	68	320	652	1046	1213	972	716	356	148	16	5518
		STD DEV	2	7	31	92	89	171	187	146	129	82	63	10	351
1107	71-00 AVERAGE	1	9	71	317	657	1028	1187	923	701	365	145	16	5419	
STD DEV	2	7	31	86	109	173	187	168	120	79	58	10	426		
IL-08 Southwest		31-00 AVERAGE	0	5	48	248	594	920	1032	817	632	289	102	8	4694
		STD DEV	1	5	26	73	100	147	167	138	134	74	44	6	372
		31-60 AVERAGE	0	3	40	225	607	893	970	797	642	286	97	7	4567
		STD DEV	1	4	24	63	102	134	155	133	154	70	37	7	365
		41-70 AVERAGE	0	5	46	236	600	917	1012	816	658	273	97	7	4667
		STD DEV	1	5	23	69	87	137	126	115	151	74	42	5	318
		51-80 AVERAGE	0	5	46	258	600	917	1072	845	653	277	100	8	4782
		STD DEV	1	4	27	77	92	125	165	148	141	71	45	6	364
		61-90 AVERAGE	0	6	52	270	576	950	1094	865	625	286	107	9	4840
		STD DEV	1	4	27	84	86	158	176	137	126	80	50	6	335
1108	71-00 AVERAGE	0	6	55	272	586	938	1076	821	613	298	108	9	4780	
STD DEV	0	5	27	76	105	161	174	156	111	77	47	6	385		
IL-09 Southeast		31-00 AVERAGE	0	4	48	254	592	917	1026	818	633	293	106	7	4698
		STD DEV	1	4	25	74	99	147	166	136	134	74	45	6	360
		31-60 AVERAGE	0	2	41	231	613	903	972	806	650	292	102	6	4619
		STD DEV	1	3	24	66	97	137	156	133	154	70	37	7	358
		41-70 AVERAGE	0	4	48	244	606	923	1011	825	660	276	102	7	4705
		STD DEV	1	4	23	70	87	139	125	118	148	74	43	6	314
		51-80 AVERAGE	0	4	47	265	599	913	1062	847	651	279	106	8	4781
		STD DEV	1	4	27	75	95	125	164	146	143	72	46	7	344
		61-90 AVERAGE	0	5	51	275	567	936	1085	859	619	288	111	8	4803
		STD DEV	1	4	26	84	88	159	175	135	122	79	51	5	334
1109	71-00 AVERAGE	0	5	54	275	575	923	1061	813	609	300	113	8	4736	
STD DEV	1	4	26	79	106	159	176	151	113	78	49	6	389		
IN-01 Northwest		31-00 AVERAGE	6	20	94	376	758	1139	1277	1060	869	500	236	40	6377
		STD DEV	5	14	38	85	106	158	172	142	140	89	77	23	406
		31-60 AVERAGE	5	15	85	356	777	1128	1216	1052	898	509	241	40	6322
		STD DEV	5	10	39	81	111	150	154	129	157	93	71	26	416
		41-70 AVERAGE	7	20	93	357	765	1149	1272	1068	892	490	243	41	6397
		STD DEV	5	13	36	86	96	152	146	109	147	91	78	24	345
		51-80 AVERAGE	7	22	93	380	759	1138	1326	1087	888	491	236	43	6470
		STD DEV	5	12	37	93	96	136	163	145	131	86	75	24	347
		61-90 AVERAGE	7	24	98	396	733	1158	1338	1099	852	491	235	41	6470
		STD DEV	5	13	36	95	85	166	184	145	129	89	82	21	355
1201	71-00 AVERAGE	7	23	104	400	744	1142	1313	1052	834	492	230	41	6381	
STD DEV	6	15	39	86	111	174	179	163	125	91	78	22	440		
IN-02 North Central		31-00 AVERAGE	8	22	102	388	749	1121	1253	1050	862	489	227	39	6310
		STD DEV	6	14	40	87	102	155	175	141	142	86	75	21	410
		31-60 AVERAGE	6	16	94	366	762	1108	1186	1032	883	490	227	37	6205
		STD DEV	5	10	42	81	108	142	155	128	163	91	66	23	403
		41-70 AVERAGE	9	23	105	373	754	1130	1245	1050	880	475	234	40	6319
		STD DEV	6	15	41	89	93	146	148	112	151	89	76	22	375
		51-80 AVERAGE	9	25	105	399	757	1125	1305	1081	884	483	233	43	6449
		STD DEV	6	14	40	91	95	135	164	147	132	83	77	23	350
		61-90 AVERAGE	9	26	106	411	731	1142	1322	1097	851	487	230	41	6453
		STD DEV	6	14	37	97	86	165	183	144	130	87	83	20	354
1202	71-00 AVERAGE	8	24	108	407	738	1122	1292	1051	832	486	223	40	6332	
STD DEV	6	15	38	90	106	174	182	163	126	89	77	21	434		



Section 3:

Heating Degree Days

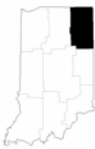


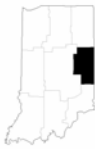
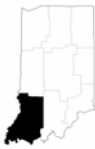

Divisional Normals, 1971-2000 (and previous periods)

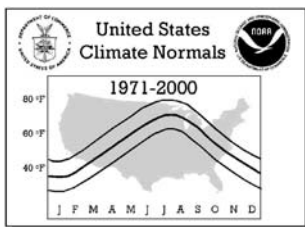
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Indiana

Page 22

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
IN-03 Northeast 	31-00 AVERAGE	7	21	107	401	759	1130	1261	1066	884	508	235	39	6418
	STD DEV	6	13	41	90	100	151	167	141	139	89	76	21	403
	31-60 AVERAGE	6	16	96	379	775	1123	1199	1052	905	513	234	37	6335
	STD DEV	6	10	42	83	104	141	155	128	157	99	66	23	403
	41-70 AVERAGE	8	21	105	379	763	1142	1254	1067	898	494	239	39	6409
	STD DEV	6	13	41	90	91	142	141	109	145	92	78	21	346
	51-80 AVERAGE	8	22	106	404	760	1131	1302	1091	896	495	237	42	6495
	STD DEV	5	12	41	97	94	131	155	146	129	86	76	22	355
	61-90 AVERAGE	9	25	113	423	741	1148	1325	1109	875	505	240	42	6555
	STD DEV	5	13	40	102	88	158	169	143	129	85	83	19	339
1203	71-00 AVERAGE	8	25	117	425	746	1126	1296	1065	858	501	232	41	6440
	STD DEV	6	15	40	95	103	169	171	163	127	86	77	21	439
IN-04 West Central 	31-00 AVERAGE	4	13	81	338	693	1060	1179	963	773	408	177	25	5714
	STD DEV	4	10	36	85	104	163	180	145	141	84	64	16	412
	31-60 AVERAGE	2	9	71	309	708	1039	1100	933	784	403	172	22	5550
	STD DEV	4	6	33	75	109	150	160	130	164	88	54	17	402
	41-70 AVERAGE	4	13	80	321	701	1066	1159	962	791	389	176	24	5686
	STD DEV	4	8	33	84	93	155	144	117	155	88	66	15	373
	51-80 AVERAGE	4	14	81	350	700	1060	1229	998	796	399	180	28	5836
	STD DEV	4	8	36	87	93	142	172	155	141	82	68	17	372
	61-90 AVERAGE	5	16	85	364	672	1082	1254	1017	765	407	183	27	5877
	STD DEV	4	9	35	95	87	177	184	147	129	84	73	15	346
1204	71-00 AVERAGE	5	16	90	364	681	1071	1231	972	754	416	180	27	5807
	STD DEV	4	11	37	88	109	179	185	166	126	83	67	16	417
IN-05 Central 	31-00 AVERAGE	4	15	86	351	699	1053	1170	965	780	420	185	28	5757
	STD DEV	4	10	37	87	99	158	177	145	139	81	67	17	417
	31-60 AVERAGE	3	10	75	322	708	1035	1093	933	788	414	176	24	5580
	STD DEV	4	7	35	75	103	146	160	130	164	88	55	17	394
	41-70 AVERAGE	4	15	86	333	704	1062	1151	961	793	399	183	27	5719
	STD DEV	4	10	35	84	87	150	146	120	152	85	68	16	392
	51-80 AVERAGE	5	16	88	366	708	1055	1216	999	800	411	190	31	5885
	STD DEV	4	9	39	91	88	139	170	159	138	80	70	18	398
	61-90 AVERAGE	5	19	93	380	685	1077	1245	1020	776	423	195	31	5949
	STD DEV	4	10	37	99	87	168	177	149	126	79	76	16	346
1205	71-00 AVERAGE	5	18	96	378	689	1059	1219	974	764	426	191	31	5849
	STD DEV	4	12	37	93	105	173	180	166	125	78	69	18	422
IN-06 East Central 	31-00 AVERAGE	7	17	100	377	718	1072	1188	992	811	454	208	33	5977
	STD DEV	5	12	40	86	98	160	180	144	141	83	69	19	410
	31-60 AVERAGE	6	13	91	353	727	1056	1107	957	817	448	202	30	5806
	STD DEV	6	10	40	76	102	151	168	128	164	91	56	19	391
	41-70 AVERAGE	7	18	99	357	722	1086	1170	989	822	433	205	32	5941
	STD DEV	6	12	39	84	86	154	154	117	153	88	71	18	384
	51-80 AVERAGE	7	17	98	387	725	1077	1236	1028	829	445	210	35	6095
	STD DEV	5	11	41	89	88	143	171	157	138	84	73	19	382
	61-90 AVERAGE	7	19	102	399	700	1093	1264	1046	807	457	214	35	6144
	STD DEV	5	11	40	99	86	168	175	149	128	80	79	18	345
1206	71-00 AVERAGE	7	19	108	401	710	1077	1240	1006	799	460	212	36	6075
	STD DEV	5	13	39	92	104	174	178	165	130	80	73	20	415
IN-07 Southwest 	31-00 AVERAGE	0	5	55	275	614	947	1057	852	667	317	124	11	4926
	STD DEV	1	5	27	76	100	150	170	137	137	76	50	8	360
	31-60 AVERAGE	0	3	49	258	641	942	1001	838	691	320	121	10	4874
	STD DEV	1	4	27	67	98	139	162	134	159	77	42	9	371
	41-70 AVERAGE	1	5	56	269	630	961	1043	857	694	302	122	11	4951
	STD DEV	2	5	26	75	85	142	133	122	152	79	49	8	333
	51-80 AVERAGE	0	5	55	289	619	943	1095	879	684	303	125	12	5009
	STD DEV	1	5	29	80	92	130	165	150	144	74	53	9	347
	61-90 AVERAGE	0	6	58	295	585	958	1117	892	646	311	129	12	5008
	STD DEV	1	5	28	89	88	164	176	138	123	78	57	7	328
1207	71-00 AVERAGE	0	5	59	290	590	943	1090	848	637	319	128	12	4921
	STD DEV	1	4	27	83	106	164	178	150	115	76	54	8	376
IN-08 South Central 	31-00 AVERAGE	1	8	69	304	629	958	1061	862	685	344	141	17	5077
	STD DEV	2	6	32	81	97	151	173	134	135	77	54	12	377
	31-60 AVERAGE	1	5	59	277	643	946	997	841	700	338	132	14	4953
	STD DEV	2	5	31	66	101	140	164	129	159	79	42	12	363
	41-70 AVERAGE	1	8	67	288	639	969	1044	865	704	322	134	16	5056
	STD DEV	2	7	31	75	88	142	139	120	150	83	52	11	352
	51-80 AVERAGE	1	8	68	318	640	957	1102	895	705	332	144	19	5188
	STD DEV	2	6	35	82	89	131	165	145	138	78	57	13	356
	61-90 AVERAGE	2	10	74	329	610	972	1129	907	671	344	150	19	5216
	STD DEV	2	6	33	94	85	164	175	135	119	79	61	11	341
1208	71-00 AVERAGE	1	9	77	329	615	960	1102	864	665	355	149	19	5146
	STD DEV	2	7	31	89	101	166	179	147	116	74	59	12	396



Section 3:

Heating Degree Days

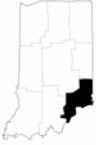
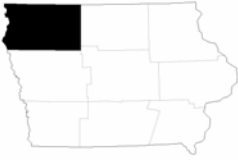
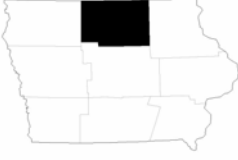
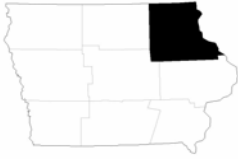
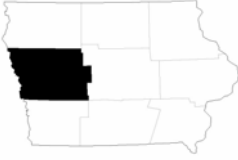
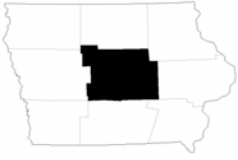
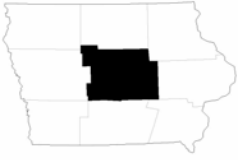
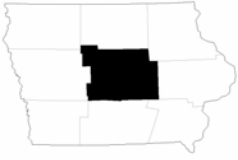
Divisional Normals, 1971-2000 (and previous periods)

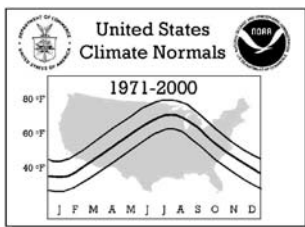
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Indiana – Iowa

Page 23

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
IN-09 Southeast 	31-00 AVERAGE	2	6	66	303	632	956	1063	872	694	357	143	15	5107
	STD DEV	3	6	31	78	93	149	167	131	132	76	54	11	344
	31-60 AVERAGE	1	4	57	283	647	953	1005	858	718	361	139	13	5040
	STD DEV	3	5	28	69	93	138	164	129	153	80	46	12	359
	41-70 AVERAGE	2	7	66	291	643	974	1052	881	716	340	140	14	5126
	STD DEV	3	6	31	76	78	138	139	117	145	82	54	10	317
	51-80 AVERAGE	2	6	65	314	640	954	1102	902	706	343	144	16	5195
	STD DEV	3	6	34	81	83	132	157	143	136	76	56	12	317
	61-90 AVERAGE	2	8	70	319	610	964	1122	906	671	350	146	16	5184
	STD DEV	3	6	33	91	82	165	167	133	118	76	59	9	310
IA-01 Northwest 	71-00 AVERAGE	2	7	72	321	616	948	1096	867	668	359	146	16	5118
	STD DEV	2	6	30	85	99	165	171	142	115	71	56	11	353
	31-00 AVERAGE	16	33	167	476	961	1392	1560	1253	1036	569	254	59	7775
	STD DEV	13	19	58	95	125	168	202	181	167	104	80	32	534
	31-60 AVERAGE	14	27	152	453	957	1352	1529	1272	1071	573	259	63	7720
	STD DEV	11	17	60	104	121	145	200	187	161	107	84	38	546
	41-70 AVERAGE	17	31	177	452	942	1384	1563	1266	1087	571	265	67	7820
	STD DEV	10	17	56	99	113	148	161	126	192	111	78	36	403
	51-80 AVERAGE	15	32	175	476	945	1395	1621	1277	1084	568	252	58	7899
	STD DEV	10	16	54	107	108	148	162	164	184	103	69	30	416
IA-02 North Central 	61-90 AVERAGE	14	36	176	495	944	1442	1586	1268	1018	552	247	55	7833
	STD DEV	8	19	51	94	105	173	214	166	179	106	76	26	507
	71-00 AVERAGE	18	38	172	505	979	1422	1565	1225	989	560	248	55	7776
	STD DEV	16	22	51	76	141	192	212	197	140	109	77	25	581
	31-00 AVERAGE	16	36	160	468	949	1397	1565	1263	1038	573	252	56	7775
	STD DEV	12	20	53	97	124	169	192	170	164	103	80	31	523
	31-60 AVERAGE	14	30	150	449	951	1363	1527	1275	1072	579	261	61	7732
	STD DEV	11	18	58	104	123	151	179	171	160	106	83	36	556
	41-70 AVERAGE	18	35	172	443	937	1389	1567	1282	1088	575	266	63	7835
	STD DEV	11	19	50	102	114	150	157	127	183	112	80	34	427
IA-03 Northeast 	51-80 AVERAGE	17	36	167	467	936	1398	1626	1285	1085	575	250	55	7896
	STD DEV	11	17	47	110	110	148	165	157	175	106	73	30	395
	61-90 AVERAGE	15	38	165	481	929	1442	1598	1281	1022	562	243	52	7826
	STD DEV	10	19	45	100	104	175	213	161	176	108	79	27	474
	71-00 AVERAGE	17	39	162	496	963	1426	1578	1237	990	562	242	52	7763
	STD DEV	14	22	50	81	137	189	206	185	140	106	77	24	546
	31-00 AVERAGE	15	36	156	463	915	1352	1519	1232	1009	555	250	53	7555
	STD DEV	11	20	51	95	114	165	186	166	153	99	78	28	501
	31-60 AVERAGE	14	31	145	446	921	1328	1473	1238	1042	557	255	55	7504
	STD DEV	11	18	56	103	119	148	167	161	157	101	80	33	538
IA-04 West Central 	41-70 AVERAGE	18	36	166	443	909	1352	1516	1247	1048	551	262	59	7607
	STD DEV	11	20	47	102	107	149	152	126	162	108	78	30	407
	51-80 AVERAGE	17	38	165	466	911	1357	1580	1259	1053	559	251	56	7713
	STD DEV	11	18	46	107	104	145	172	154	157	100	73	27	370
	61-90 AVERAGE	15	39	163	478	897	1392	1566	1259	996	550	247	53	7655
	STD DEV	10	20	44	98	93	173	208	158	157	105	78	25	428
	71-00 AVERAGE	16	38	158	486	921	1368	1541	1212	968	549	242	50	7550
	STD DEV	12	22	50	83	123	185	201	184	140	103	76	23	525
	31-00 AVERAGE	10	26	128	416	886	1295	1452	1160	945	500	212	42	7073
	STD DEV	8	16	50	89	116	162	193	176	164	97	71	25	499
IA-05 Central 	31-60 AVERAGE	9	22	117	396	889	1258	1432	1181	983	510	219	45	7061
	STD DEV	9	15	53	97	113	136	188	182	164	100	75	30	528
	41-70 AVERAGE	11	26	140	400	878	1292	1465	1174	1003	506	219	49	7162
	STD DEV	8	16	48	94	105	143	143	132	187	105	70	28	383
	51-80 AVERAGE	10	26	136	420	878	1297	1518	1185	991	500	210	42	7213
	STD DEV	7	14	47	101	101	141	149	164	178	96	61	23	386
	61-90 AVERAGE	9	28	135	434	867	1342	1473	1176	927	482	205	39	7117
	STD DEV	6	15	43	90	96	171	209	162	170	101	67	20	466
	71-00 AVERAGE	11	28	129	439	895	1320	1448	1131	891	488	210	38	7029
	STD DEV	9	18	45	74	131	185	207	191	132	101	66	19	532
IA-05 Central 	31-00 AVERAGE	9	27	130	423	870	1292	1451	1164	942	504	219	45	7074
	STD DEV	7	17	48	95	117	163	186	171	159	94	73	25	483
	31-60 AVERAGE	7	21	115	391	871	1256	1410	1166	966	504	218	45	6971
	STD DEV	7	13	49	96	117	142	170	170	163	97	74	29	512
	41-70 AVERAGE	9	26	135	391	856	1281	1449	1172	983	496	219	48	7066
	STD DEV	7	15	44	96	107	146	144	127	182	102	71	26	389
	51-80 AVERAGE	9	28	138	426	862	1292	1511	1191	988	502	216	46	7208
	STD DEV	7	15	44	105	105	138	159	159	172	96	65	23	386
	61-90 AVERAGE	9	32	140	449	853	1335	1487	1193	934	496	218	45	7190
	STD DEV	6	17	41	98	97	172	205	163	167	99	73	22	428
IA-05 Central 	71-00 AVERAGE	10	31	136	462	881	1320	1469	1151	904	501	222	44	7132
	STD DEV	8	19	48	81	128	185	199	193	135	98	71	21	503



Section 3:

Heating Degree Days

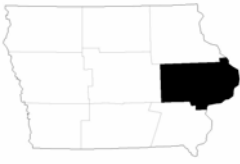
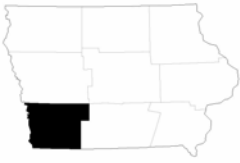
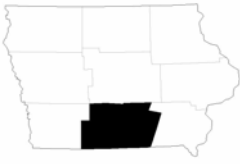
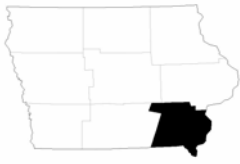
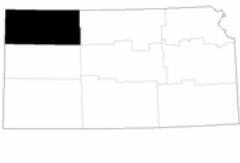
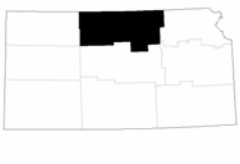
Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

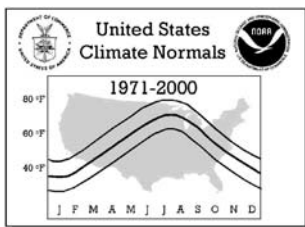
Temperature (°F), Precipitation (inches), and Degree Days

Iowa – Kansas

Page 24

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
IA-06 East Central  1306	31-00 AVERAGE	7	21	110	400	838	1244	1405	1137	916	489	212	34	6812
	STD DEV	6	14	42	90	111	163	180	159	149	93	72	20	441
	31-60 AVERAGE	6	18	104	387	848	1217	1359	1142	949	495	220	37	6782
	STD DEV	6	12	45	95	115	145	161	156	159	94	73	24	471
	41-70 AVERAGE	8	20	115	379	830	1240	1403	1150	953	481	219	38	6835
	STD DEV	6	13	39	94	102	151	141	118	163	98	74	22	351
	51-80 AVERAGE	7	20	110	396	829	1242	1459	1162	952	482	207	34	6900
	STD DEV	6	12	37	101	103	143	166	151	154	91	67	20	346
	61-90 AVERAGE	6	22	111	409	814	1277	1445	1165	900	477	205	32	6864
	STD DEV	5	14	36	95	90	176	203	154	148	97	72	18	394
IA-07 Southwest  1307	71-00 AVERAGE	7	22	113	420	842	1261	1429	1122	876	482	205	32	6811
	STD DEV	6	16	45	82	119	181	194	180	130	96	69	16	471
	31-00 AVERAGE	9	22	107	373	819	1212	1362	1079	869	450	187	34	6525
	STD DEV	7	15	44	87	110	160	189	172	159	91	67	21	466
	31-60 AVERAGE	8	18	98	356	823	1179	1340	1096	910	461	194	36	6520
	STD DEV	7	14	47	93	105	132	186	177	165	93	70	26	513
	41-70 AVERAGE	10	23	117	362	814	1213	1371	1087	925	457	191	40	6611
	STD DEV	7	15	42	90	100	145	129	133	174	100	69	24	370
	51-80 AVERAGE	9	22	113	379	814	1214	1422	1103	909	448	181	34	6647
	STD DEV	7	12	40	97	99	139	149	165	167	89	59	20	376
IA-08 South Central  1308	61-90 AVERAGE	8	25	113	389	801	1256	1389	1101	850	432	179	31	6574
	STD DEV	5	14	37	89	92	176	203	161	154	94	64	17	412
	71-00 AVERAGE	10	23	109	395	826	1233	1366	1062	818	441	187	31	6499
	STD DEV	6	16	42	75	125	182	203	192	130	96	62	15	487
	31-00 AVERAGE	8	23	107	370	807	1206	1355	1080	869	456	195	35	6512
	STD DEV	6	15	45	88	114	161	187	168	157	90	68	20	452
	31-60 AVERAGE	7	19	96	345	814	1176	1325	1091	904	466	196	35	6474
	STD DEV	7	13	46	91	113	136	177	168	162	90	70	25	494
	41-70 AVERAGE	9	23	113	348	799	1205	1362	1091	916	456	195	38	6555
	STD DEV	7	14	41	90	103	146	136	127	175	96	69	22	361
IA-09 Southeast  1309	51-80 AVERAGE	8	22	110	372	800	1206	1417	1106	909	451	189	35	6625
	STD DEV	6	12	40	98	103	136	159	158	165	87	61	19	358
	61-90 AVERAGE	7	25	112	387	785	1244	1387	1105	851	438	190	34	6565
	STD DEV	5	14	38	91	95	176	207	160	157	95	67	18	403
	71-00 AVERAGE	8	24	113	401	811	1226	1363	1062	825	445	199	35	6512
	STD DEV	6	16	46	75	126	182	201	190	131	96	64	17	472
	31-00 AVERAGE	5	17	85	343	772	1170	1324	1058	844	428	178	26	6252
	STD DEV	4	12	37	83	111	164	185	159	153	89	65	17	434
	31-60 AVERAGE	5	15	78	327	782	1143	1283	1063	875	439	183	27	6218
	STD DEV	5	11	39	87	115	145	172	155	163	89	65	20	466
KS-01 Northwest  1401	41-70 AVERAGE	6	18	89	328	768	1170	1331	1072	886	425	182	29	6303
	STD DEV	5	12	35	88	102	151	137	118	171	94	68	18	357
	51-80 AVERAGE	5	18	87	349	768	1171	1389	1088	884	424	175	27	6386
	STD DEV	5	10	35	95	102	135	161	153	160	87	62	17	335
	61-90 AVERAGE	5	19	88	358	750	1205	1364	1088	828	414	174	26	6318
	STD DEV	4	12	33	89	92	177	206	156	152	96	67	15	394
	71-00 AVERAGE	5	18	87	364	773	1189	1341	1042	801	420	175	25	6240
	STD DEV	4	13	39	75	119	183	198	183	126	94	60	14	459
	31-00 AVERAGE	6	13	101	362	787	1083	1164	921	798	445	198	44	5922
	STD DEV	5	10	47	79	99	128	165	148	136	90	67	27	390
KS-02 North Central  1402	31-60 AVERAGE	5	8	82	332	773	1054	1155	938	827	443	191	41	5849
	STD DEV	5	7	40	79	85	103	181	151	151	96	65	30	399
	41-70 AVERAGE	6	12	103	351	773	1082	1164	922	853	445	193	48	5953
	STD DEV	5	9	49	89	81	105	141	132	156	104	63	29	325
	51-80 AVERAGE	6	13	107	365	797	1085	1199	929	834	447	196	43	6021
	STD DEV	5	9	51	87	80	120	151	147	150	82	62	26	312
	61-90 AVERAGE	5	15	114	382	788	1118	1185	928	785	435	200	45	6000
	STD DEV	4	9	47	81	92	150	163	130	127	87	65	25	357
	71-00 AVERAGE	7	15	111	390	810	1098	1167	907	756	450	212	46	5968
	STD DEV	5	11	43	52	116	150	156	160	96	87	63	25	413
	31-00 AVERAGE	4	10	78	305	737	1082	1195	931	757	382	157	29	5666
	STD DEV	5	8	38	75	99	140	174	163	146	86	60	19	417
	31-60 AVERAGE	4	7	66	283	731	1056	1179	940	789	384	157	28	5626
	STD DEV	5	7	38	80	86	116	182	158	163	90	59	23	428
	41-70 AVERAGE	5	10	82	294	726	1090	1199	927	807	381	154	31	5706
	STD DEV	5	8	38	80	81	123	127	133	165	96	61	21	330
	51-80 AVERAGE	4	10	84	309	740	1083	1245	947	788	379	151	27	5767
	STD DEV	4	8	39	80	80	123	145	168	155	76	57	16	336
	61-90 AVERAGE	4	12	88	325	730	1117	1220	953	739	370	155	28	5741
	STD DEV	3	8	33	75	91	158	179	159	132	86	60	17	395
	71-00 AVERAGE	4	12	83	326	750	1095	1196	923	715	383	163	29	5680
	STD DEV	4	10	36	56	119	160	180	189	113	88	56	17	455

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
KA-03 Northeast	31-00	AVERAGE	4	10	76	291	705	1073	1202	931	740	360	138	20	5549
		STD DEV	5	8	37	76	105	147	178	160	148	85	54	14	425
	31-60	AVERAGE	4	7	66	276	708	1044	1174	934	774	365	141	20	5514
		STD DEV	6	7	38	82	102	123	178	156	163	89	53	17	456
	41-70	AVERAGE	6	10	80	283	699	1078	1205	932	791	361	139	22	5605
		STD DEV	6	8	37	81	96	131	120	120	163	94	56	15	341
	51-80	AVERAGE	5	10	80	300	709	1078	1262	963	780	359	136	21	5703
		STD DEV	5	7	37	86	96	119	150	160	152	79	52	13	337
	61-90	AVERAGE	4	11	82	308	692	1112	1238	966	724	348	135	20	5641
		STD DEV	4	8	34	78	93	164	191	158	135	87	55	12	396
71-00	AVERAGE	4	11	79	308	709	1089	1213	924	697	356	139	20	5548	
	STD DEV	4	8	36	63	118	167	190	188	116	87	52	13	447	
1403															
KS-04 West Central	31-00	AVERAGE	2	7	83	331	755	1045	1127	888	764	419	178	36	5635
		STD DEV	2	6	39	74	96	121	158	144	137	88	62	23	357
	31-60	AVERAGE	2	5	72	314	756	1029	1126	916	807	431	185	36	5678
		STD DEV	3	5	36	75	84	101	169	144	145	92	61	27	360
	41-70	AVERAGE	2	7	85	323	744	1050	1122	892	820	418	175	39	5677
		STD DEV	3	6	40	84	84	100	126	124	155	100	60	26	299
	51-80	AVERAGE	2	7	88	329	758	1041	1155	893	789	412	172	33	5679
		STD DEV	2	6	43	86	78	113	144	142	152	81	60	21	307
	61-90	AVERAGE	1	8	91	342	743	1069	1141	889	738	396	173	34	5626
		STD DEV	2	6	39	80	87	137	158	128	129	88	61	21	345
71-00	AVERAGE	2	8	88	348	764	1049	1127	866	712	414	182	35	5593	
	STD DEV	2	7	38	54	112	141	156	156	96	89	60	22	384	
1404															
KS-05 Central	31-00	AVERAGE	2	6	62	268	684	1019	1129	876	704	345	130	20	5244
		STD DEV	3	6	32	70	96	133	167	156	142	82	52	14	391
	31-60	AVERAGE	2	4	53	253	687	996	1111	886	740	350	132	20	5234
		STD DEV	3	5	32	75	88	112	173	151	159	85	50	17	415
	41-70	AVERAGE	3	6	65	261	677	1029	1126	876	754	344	128	22	5290
		STD DEV	4	6	32	75	84	115	121	125	159	92	53	16	326
	51-80	AVERAGE	2	6	67	270	687	1020	1176	901	735	342	127	19	5353
		STD DEV	3	6	36	78	83	112	148	161	150	76	52	12	321
	61-90	AVERAGE	1	8	69	281	673	1052	1160	900	685	332	128	20	5310
		STD DEV	2	6	31	73	87	147	174	156	125	84	54	12	362
71-00	AVERAGE	1	7	66	282	688	1027	1137	866	662	345	134	20	5235	
	STD DEV	2	7	33	55	112	152	174	183	106	84	51	14	414	
1405															
KS-06 East Central	31-00	AVERAGE	3	9	66	261	654	1005	1129	871	683	328	121	16	5145
		STD DEV	4	8	34	71	105	142	169	150	140	81	50	11	392
	31-60	AVERAGE	3	7	57	244	660	978	1099	868	715	334	122	14	5102
		STD DEV	6	7	33	74	99	120	166	144	160	84	46	12	421
	41-70	AVERAGE	5	9	67	251	646	1005	1122	865	727	320	116	16	5150
		STD DEV	6	8	32	75	91	126	118	111	157	88	51	10	327
	51-80	AVERAGE	4	9	66	264	654	1002	1176	893	712	317	115	15	5227
		STD DEV	4	7	35	79	95	110	156	154	144	74	49	10	324
	61-90	AVERAGE	3	11	70	277	639	1039	1168	907	665	312	119	17	5227
		STD DEV	3	8	32	74	95	157	184	152	124	81	52	11	353
71-00	AVERAGE	3	11	71	279	657	1021	1148	870	644	328	126	17	5174	
	STD DEV	3	9	35	60	118	163	180	179	105	82	50	12	411	
1406															
KS-07 Southwest	31-00	AVERAGE	1	3	53	274	686	977	1053	815	681	349	131	21	5046
		STD DEV	1	4	28	66	91	113	151	133	130	84	52	15	329
	31-60	AVERAGE	1	2	43	258	688	953	1039	826	709	354	133	20	5026
		STD DEV	1	3	23	63	80	98	158	131	138	82	49	16	347
	41-70	AVERAGE	1	3	52	268	678	978	1045	821	733	345	126	22	5072
		STD DEV	1	4	25	75	85	96	123	115	147	90	48	15	300
	51-80	AVERAGE	0	3	57	274	694	975	1083	828	706	342	128	19	5107
		STD DEV	1	4	31	78	79	101	150	135	145	78	53	12	299
	61-90	AVERAGE	0	4	61	285	676	1007	1080	833	666	333	130	21	5095
		STD DEV	1	4	29	74	86	124	154	127	128	88	53	14	317
71-00	AVERAGE	0	4	60	290	694	989	1064	803	639	353	138	22	5055	
	STD DEV	1	4	31	53	104	127	151	147	89	91	53	17	336	
1407															
KS-08 South Central	31-00	AVERAGE	0	4	48	234	640	967	1059	810	651	312	105	13	4841
		STD DEV	1	4	27	65	95	126	158	146	135	81	45	10	370
	31-60	AVERAGE	1	3	42	219	637	941	1038	817	679	315	107	12	4811
		STD DEV	2	4	27	68	89	109	164	138	149	80	43	10	388
	41-70	AVERAGE	1	4	50	229	632	973	1056	813	701	307	101	13	4880
		STD DEV	2	5	25	70	86	111	118	114	149	86	45	9	307
	51-80	AVERAGE	1	4	51	236	646	967	1098	833	678	306	101	12	4934
		STD DEV	1	4	30	74	85	105	149	152	144	75	45	8	306
	61-90	AVERAGE	0	5	53	246	633	1002	1092	835	635	298	103	12	4914
		STD DEV	1	4	27	68	86	139	165	149	126	86	44	9	346
71-00	AVERAGE	0	4	51	248	648	980	1072	803	613	315	110	14	4857	
	STD DEV	0	5	29	53	107	141	163	173	100	86	46	11	394	
1408															



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)







CLIMATOGRAPHY OF THE UNITED STATES NO. 85

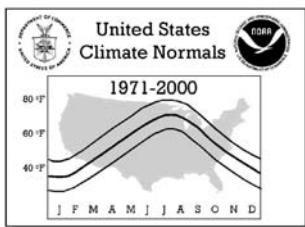
Temperature (°F), Precipitation (inches), and Degree Days

Louisiana

Page 27

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
LA-02 North Central 	31-00 AVERAGE	0	0	5	97	311	530	594	431	297	91	10	0	2366
	STD DEV	0	0	5	41	77	113	133	105	90	38	8	0	282
	31-60 AVERAGE	0	0	4	81	309	496	535	404	294	87	10	0	2221
	STD DEV	0	0	3	40	72	97	125	106	103	33	8	0	274
	41-70 AVERAGE	0	0	5	96	310	530	588	440	320	82	9	0	2380
	STD DEV	0	0	4	44	72	98	121	115	103	38	8	0	279
	51-80 AVERAGE	0	0	6	110	328	545	627	462	317	90	11	0	2496
	STD DEV	0	0	6	48	80	94	134	116	100	37	10	0	258
	61-90 AVERAGE	0	0	7	113	305	563	659	473	303	89	11	0	2523
	STD DEV	0	0	6	43	82	122	130	104	86	39	8	0	237
LA-03 Northeast 	71-00 AVERAGE	0	0	6	108	314	553	627	438	285	101	12	0	2444
	STD DEV	0	0	5	39	82	122	129	97	66	39	9	0	248
	31-00 AVERAGE	0	0	4	92	296	520	590	429	289	86	10	0	2315
	STD DEV	0	0	4	40	76	115	137	107	90	36	8	0	269
	31-60 AVERAGE	0	0	3	83	306	494	535	404	289	85	10	0	2209
	STD DEV	0	0	3	40	70	109	139	110	103	30	9	0	285
	41-70 AVERAGE	0	0	4	90	293	517	579	432	308	74	8	0	2305
	STD DEV	0	0	4	43	67	106	128	121	102	33	7	0	297
	51-80 AVERAGE	0	0	5	101	301	524	610	449	300	79	10	0	2381
	STD DEV	0	0	5	46	76	100	139	126	100	33	9	0	294
LA-04 West Central 	61-90 AVERAGE	0	0	5	102	280	546	652	469	293	82	10	0	2439
	STD DEV	0	0	5	44	81	121	128	107	84	37	8	0	231
	71-00 AVERAGE	0	0	5	95	287	536	618	434	276	92	10	0	2353
	STD DEV	0	0	4	39	83	120	129	97	67	39	8	0	236
	31-00 AVERAGE	0	0	2	84	285	482	548	392	265	77	10	0	2143
	STD DEV	0	0	2	38	78	110	134	104	83	34	8	0	280
	31-60 AVERAGE	0	0	2	69	290	445	497	366	263	72	9	0	2012
	STD DEV	0	0	2	32	73	97	134	106	94	28	9	0	280
	41-70 AVERAGE	0	0	2	79	279	468	530	389	278	64	7	0	2096
	STD DEV	0	0	2	36	68	97	131	118	92	31	6	0	302
LA-05 Central 	51-80 AVERAGE	0	0	3	94	296	493	567	417	278	73	10	0	2230
	STD DEV	0	0	3	45	80	95	145	115	87	31	8	0	290
	61-90 AVERAGE	0	0	3	98	275	517	608	435	273	75	10	0	2295
	STD DEV	0	0	3	43	84	117	128	98	75	35	7	0	232
	71-00 AVERAGE	0	0	3	94	281	509	576	399	255	87	11	0	2214
	STD DEV	0	0	3	39	84	117	129	94	63	36	8	0	258
	31-00 AVERAGE	0	0	1	69	247	431	498	354	231	58	4	0	1894
	STD DEV	0	0	2	34	72	104	130	100	76	28	4	0	256
	31-60 AVERAGE	0	0	1	61	253	401	447	324	230	55	4	0	1776
	STD DEV	0	0	1	34	64	90	129	101	86	23	4	0	250
LA-06 East Central 	41-70 AVERAGE	0	0	2	71	252	429	494	361	252	51	3	0	1915
	STD DEV	0	0	2	36	63	93	123	116	87	27	4	0	277
	51-80 AVERAGE	0	0	2	80	260	445	526	385	246	55	4	0	2002
	STD DEV	0	0	2	41	74	91	133	113	83	26	5	0	267
	61-90 AVERAGE	0	0	2	79	236	459	558	398	238	56	4	0	2031
	STD DEV	0	0	2	37	79	112	123	97	73	29	4	0	225
	71-00 AVERAGE	0	0	2	72	239	450	523	361	218	64	4	0	1932
	STD DEV	0	0	2	34	79	113	123	86	56	31	4	0	220
	31-00 AVERAGE	0	0	1	67	243	408	475	340	220	62	4	0	1821
	STD DEV	0	0	1	33	73	101	128	96	74	29	4	0	225
LA-07 Southwest 	31-60 AVERAGE	0	0	1	64	257	398	441	324	230	66	5	0	1785
	STD DEV	0	0	1	35	64	90	133	103	85	26	5	0	225
	41-70 AVERAGE	0	0	1	68	247	409	472	345	236	54	3	0	1835
	STD DEV	0	0	1	35	62	88	118	114	79	28	3	0	236
	51-80 AVERAGE	0	0	1	75	250	412	490	360	222	54	4	0	1867
	STD DEV	0	0	1	38	74	92	129	111	73	26	3	0	252
	61-90 AVERAGE	0	0	1	73	226	418	520	371	215	55	4	0	1882
	STD DEV	0	0	1	36	80	114	127	94	66	28	3	0	237
	71-00 AVERAGE	0	0	1	70	231	412	489	340	202	65	4	0	1813
	STD DEV	0	0	1	34	81	112	126	80	56	29	3	0	225

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
1608	LA-08 South Central	31-00 AVERAGE	0	0	0	47	197	349	430	302	192	44	1	0	1562
		STD DEV	0	0	1	27	66	93	122	92	67	23	1	0	223
		31-60 AVERAGE	0	0	0	44	210	335	395	281	199	45	1	0	1512
		STD DEV	0	0	1	27	58	79	128	98	77	20	2	0	227
		41-70 AVERAGE	0	0	0	48	204	352	434	311	211	40	1	0	1602
		STD DEV	0	0	1	27	56	82	114	107	73	22	1	0	225
		51-80 AVERAGE	0	0	0	53	204	358	446	327	196	40	1	0	1625
		STD DEV	0	0	1	32	68	84	127	104	70	21	1	0	247
		61-90 AVERAGE	0	0	0	51	180	362	472	335	190	41	1	0	1632
		STD DEV	0	0	0	30	71	108	122	88	62	23	1	0	230
1609	LA-09 Southeast	71-00 AVERAGE	0	0	0	48	185	358	443	304	176	47	1	0	1562
		STD DEV	0	0	0	28	74	104	118	79	50	24	1	0	214
		31-00 AVERAGE	0	0	0	33	165	310	394	274	169	34	1	0	1380
		STD DEV	0	0	0	21	61	88	117	87	61	19	1	0	209
		31-60 AVERAGE	0	0	0	28	171	294	356	253	174	35	1	0	1313
		STD DEV	0	0	0	19	53	76	116	90	67	18	2	0	194
		41-70 AVERAGE	0	0	0	33	170	309	390	277	182	30	1	0	1393
		STD DEV	0	0	0	20	52	79	105	103	66	18	1	0	219
		51-80 AVERAGE	0	0	0	38	174	319	409	298	173	31	1	0	1442
		STD DEV	0	0	0	25	64	82	120	102	61	17	1	0	237
1701	ME-17 Northern	61-90 AVERAGE	0	0	0	39	156	325	438	307	170	32	1	0	1469
		STD DEV	0	0	0	25	67	100	119	86	57	19	1	0	218
		71-00 AVERAGE	0	0	0	36	158	320	412	278	155	36	1	0	1397
		STD DEV	0	0	0	23	69	96	121	76	47	20	1	0	206
		31-00 AVERAGE	73	117	328	673	1003	1482	1666	1447	1266	835	469	166	9525
		STD DEV	35	43	67	78	91	147	138	122	121	75	82	44	442
		31-60 AVERAGE	62	102	298	643	989	1478	1624	1426	1261	817	445	159	9304
		STD DEV	31	42	54	73	101	138	143	121	134	77	75	49	386
		41-70 AVERAGE	73	121	315	642	981	1478	1644	1438	1254	833	476	168	9422
		STD DEV	39	48	70	72	88	137	134	123	118	80	89	48	395
1702	ME-02 Southern Interior	51-80 AVERAGE	79	128	341	675	996	1495	1655	1446	1262	846	488	170	9581
		STD DEV	38	44	70	79	88	151	138	119	117	68	88	46	461
		61-90 AVERAGE	80	131	354	689	1013	1508	1695	1461	1273	849	489	175	9716
		STD DEV	33	45	67	75	85	157	129	116	113	77	79	39	378
		71-00 AVERAGE	79	122	353	710	1017	1483	1703	1451	1269	841	471	171	9671
		STD DEV	31	33	61	71	76	165	127	123	119	76	83	42	444
		31-00 AVERAGE	31	61	239	569	880	1319	1482	1280	1104	712	375	108	8160
		STD DEV	20	28	56	74	78	142	137	117	102	68	72	36	388
		31-60 AVERAGE	27	55	218	545	875	1322	1449	1270	1108	703	361	106	8039
		STD DEV	16	27	47	66	85	139	144	119	116	76	72	41	395
1703	ME-03 Coastal	41-70 AVERAGE	32	65	231	543	869	1329	1472	1283	1103	712	382	108	8130
		STD DEV	21	32	60	68	73	139	128	113	105	72	81	40	356
		51-80 AVERAGE	33	67	246	570	877	1331	1475	1286	1103	718	384	110	8200
		STD DEV	21	30	60	75	76	142	133	109	96	59	80	37	379
		61-90 AVERAGE	32	67	255	581	886	1339	1509	1291	1101	719	385	113	8278
		STD DEV	19	30	58	75	75	149	130	110	92	64	68	33	325
		71-00 AVERAGE	32	61	257	603	886	1306	1509	1269	1096	712	377	112	8219
		STD DEV	20	21	49	70	74	155	131	117	97	64	69	35	392
		31-00 AVERAGE	40	56	214	521	808	1207	1354	1184	1036	695	400	144	7658
		STD DEV	21	27	45	65	75	136	130	104	89	59	62	43	357
1801	MD-01 Southeastern Shore	31-60 AVERAGE	49	64	215	513	802	1211	1325	1179	1049	707	417	169	7701
		STD DEV	21	29	41	62	80	138	135	106	101	67	61	40	405
		41-70 AVERAGE	43	65	213	501	793	1216	1346	1189	1038	697	414	150	7664
		STD DEV	21	30	51	61	64	135	123	95	92	60	67	45	325
		51-80 AVERAGE	35	54	211	514	802	1214	1348	1193	1032	686	393	133	7615
		STD DEV	19	27	49	66	73	139	126	98	81	49	67	40	303
		61-90 AVERAGE	33	51	213	521	811	1224	1381	1198	1028	687	388	128	7663
		STD DEV	17	28	49	67	73	142	130	95	77	52	58	36	278
		71-00 AVERAGE	31	46	213	540	816	1190	1377	1173	1021	680	380	128	7596
		STD DEV	17	19	42	65	73	143	126	107	84	54	57	38	343



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)









CLIMATOGRAPHY OF THE UNITED STATES NO. 85







Temperature (°F), Precipitation (inches), and Degree Days

Maryland

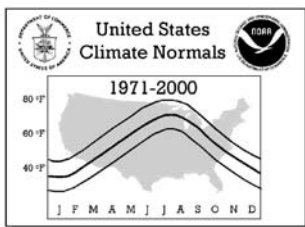
Page 29

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL	
MD-02 Central Eastern Shore 	31-00 AVERAGE	0	0	31	240	523	835	932	807	644	337	100	6	4456	
	STD DEV	0	1	16	67	79	124	147	118	110	69	38	5	323	
	31-60 AVERAGE	0	0	32	241	539	856	902	808	673	345	100	6	4502	
	STD DEV	0	1	18	66	73	122	158	121	128	76	35	5	322	
	41-70 AVERAGE	0	0	32	233	532	871	940	818	664	334	100	6	4531	
	STD DEV	0	1	17	65	65	116	133	92	120	69	44	5	285	
	51-80 AVERAGE	0	0	31	245	531	839	962	829	655	329	104	7	4531	
	STD DEV	0	0	17	67	74	118	119	118	104	68	42	6	260	
	61-90 AVERAGE	0	0	31	242	509	828	985	826	626	341	101	6	4496	
	STD DEV	0	1	17	75	79	127	129	119	89	64	40	5	291	
	71-00 AVERAGE	0	0	27	239	507	798	937	786	610	320	95	6	4325	
	STD DEV	0	1	12	71	86	130	143	123	88	64	34	5	310	
	MD-03 Lower Southern 	31-00 AVERAGE	0	1	38	259	535	841	939	801	641	340	108	7	4511
		STD DEV	0	2	18	69	80	124	149	117	111	71	41	6	311
31-60 AVERAGE		0	1	34	243	537	850	894	792	663	344	102	6	4466	
STD DEV		0	1	18	65	70	118	159	122	134	77	36	6	323	
41-70 AVERAGE		0	1	37	245	540	876	934	807	656	329	102	7	4535	
STD DEV		0	1	19	68	67	117	137	96	125	69	45	5	309	
51-80 AVERAGE		0	1	36	262	546	847	966	823	649	329	108	8	4576	
STD DEV		0	1	19	66	75	122	126	120	106	70	44	6	285	
61-90 AVERAGE		0	1	39	265	523	838	992	823	622	346	111	7	4567	
STD DEV		0	1	20	77	82	131	134	117	89	68	42	5	293	
71-00 AVERAGE		0	1	39	274	531	814	960	788	615	330	112	8	4473	
STD DEV		0	2	17	74	93	131	141	122	88	67	39	7	307	
MD-04 Upper Southern 		31-00 AVERAGE	0	1	42	275	557	875	967	822	662	347	114	8	4670
		STD DEV	0	1	20	70	80	124	149	115	109	71	43	6	307
	31-60 AVERAGE	0	1	42	263	566	886	926	819	685	355	112	8	4662	
	STD DEV	0	1	21	64	73	118	158	120	130	76	37	7	306	
	41-70 AVERAGE	0	1	45	263	566	910	969	833	680	342	116	9	4734	
	STD DEV	0	1	23	68	67	114	134	93	121	73	48	6	276	
	51-80 AVERAGE	0	1	42	281	566	885	998	847	672	339	121	10	4762	
	STD DEV	0	1	21	71	78	120	121	114	103	67	48	8	248	
	61-90 AVERAGE	0	1	44	287	547	875	1021	844	644	351	119	8	4741	
	STD DEV	0	1	21	82	79	131	133	113	88	67	45	6	274	
	71-00 AVERAGE	0	1	40	286	550	849	984	804	637	332	114	8	4603	
	STD DEV	0	1	16	78	90	135	143	119	90	66	42	7	322	
	MD-05 Northeastern Shore 	31-00 AVERAGE	0	1	39	267	556	880	983	846	688	363	117	7	4747
		STD DEV	0	1	19	71	79	121	149	120	109	68	42	6	327
31-60 AVERAGE		0	1	35	250	555	885	943	842	717	364	113	7	4711	
STD DEV		0	1	19	65	73	119	156	123	131	74	37	5	342	
41-70 AVERAGE		0	1	36	248	556	907	983	851	700	355	116	7	4759	
STD DEV		0	1	20	64	66	117	134	95	119	69	46	5	302	
51-80 AVERAGE		0	1	39	274	569	891	1011	868	691	357	123	9	4835	
STD DEV		0	1	20	74	71	116	122	124	97	68	45	7	288	
61-90 AVERAGE		0	1	42	280	552	886	1038	869	667	373	121	8	4837	
STD DEV		0	1	20	80	79	127	134	121	86	64	42	7	292	
71-00 AVERAGE		0	1	42	286	556	859	1001	831	657	353	118	9	4712	
STD DEV		0	1	16	78	89	130	146	129	86	63	40	7	337	
MD-06 Northern Central 		31-00 AVERAGE	0	3	57	311	614	937	1032	886	721	398	142	12	5112
		STD DEV	1	3	25	72	81	126	152	120	112	75	48	8	336
	31-60 AVERAGE	0	3	57	304	623	949	992	882	743	403	138	12	5105	
	STD DEV	1	3	26	69	73	119	159	124	132	83	40	8	332	
	41-70 AVERAGE	0	3	58	299	620	969	1028	894	735	390	142	12	5151	
	STD DEV	1	3	27	70	65	118	135	98	122	77	53	8	303	
	51-80 AVERAGE	1	2	56	316	622	942	1056	906	728	391	148	14	5182	
	STD DEV	1	2	27	73	76	120	126	121	103	75	54	10	286	
	61-90 AVERAGE	1	3	59	320	603	938	1083	910	705	407	149	13	5191	
	STD DEV	1	2	27	83	80	133	139	114	94	70	52	9	300	
	71-00 AVERAGE	1	3	55	315	603	907	1049	868	692	385	141	13	5031	
	STD DEV	1	3	21	80	92	136	151	125	95	70	47	10	349	
	MD-07 Appalachian Mountain 	31-00 AVERAGE	3	9	89	363	667	988	1082	920	764	427	178	25	5515
		STD DEV	3	7	35	78	88	128	158	115	119	77	59	15	346
31-60 AVERAGE		2	7	83	341	669	988	1029	902	774	423	164	21	5404	
STD DEV		3	6	35	67	80	122	162	118	141	86	43	14	333	
41-70 AVERAGE		3	8	86	338	666	1009	1071	921	767	406	168	22	5464	
STD DEV		3	6	36	71	71	121	135	98	132	85	59	14	287	
51-80 AVERAGE		3	7	83	364	669	990	1107	941	765	412	178	28	5546	
STD DEV		3	5	36	78	84	125	140	125	112	78	61	18	318	
61-90 AVERAGE		4	9	91	377	654	992	1138	951	751	435	184	28	5612	
STD DEV		3	6	36	92	84	137	150	113	99	75	60	15	298	
71-00 AVERAGE		4	10	96	389	669	977	1115	920	755	431	191	30	5588	
STD DEV		4	8	31	86	100	139	156	123	106	67	63	17	377	

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL	
MD-08 Allegheny Plateau		31-00 AVERAGE	34	54	180	491	790	1110	1205	1045	914	567	291	84	6765	
		STD DEV	19	25	53	83	98	146	171	134	141	91	74	33	427	
		31-60 AVERAGE	37	58	188	487	820	1130	1170	1045	957	587	297	85	6861	
		STD DEV	20	26	54	76	93	143	186	142	163	103	61	34	417	
		41-70 AVERAGE	40	62	194	483	807	1151	1211	1064	944	561	293	87	6897	
		STD DEV	20	27	58	82	83	140	157	127	151	96	78	33	386	
		51-80 AVERAGE	38	54	180	503	797	1124	1245	1078	926	561	296	93	6895	
		STD DEV	18	24	60	86	88	138	148	134	132	82	81	38	346	
		61-90 AVERAGE	35	53	177	502	766	1110	1259	1071	887	564	293	89	6805	
		STD DEV	18	25	58	98	93	152	159	129	114	79	80	33	386	
1808		71-00 AVERAGE	27	45	165	490	762	1073	1215	1021	868	542	282	79	6569	
		STD DEV	16	22	39	93	104	148	166	132	116	77	76	36	404	
		MA-01 Western	31-00 AVERAGE	23	59	218	538	823	1216	1357	1182	1027	647	325	90	7503
		STD DEV	15	27	53	82	87	133	152	119	114	85	74	32	372	
		31-60 AVERAGE	20	59	211	516	826	1221	1326	1183	1043	643	320	85	7453	
		STD DEV	15	30	53	74	91	128	154	120	138	92	72	33	386	
		41-70 AVERAGE	24	65	212	508	817	1240	1365	1191	1035	635	339	90	7521	
		STD DEV	17	32	60	70	79	127	137	98	121	91	79	32	342	
		51-80 AVERAGE	26	62	222	537	818	1230	1378	1197	1033	642	339	94	7576	
		STD DEV	17	29	61	86	85	128	133	114	95	86	80	34	339	
1901		61-90 AVERAGE	22	59	221	545	814	1231	1399	1197	1017	650	329	96	7581	
		STD DEV	13	27	57	90	84	138	147	110	88	85	75	33	302	
		71-00 AVERAGE	24	57	228	569	822	1195	1368	1163	1008	648	322	95	7499	
		STD DEV	15	21	43	86	84	147	153	127	99	82	70	34	398	
		MA-02 Central	31-00 AVERAGE	6	23	148	447	734	1117	1249	1080	925	572	263	56	6619
		STD DEV	6	14	44	78	81	125	141	112	102	74	65	25	360	
		31-60 AVERAGE	5	19	128	412	723	1115	1213	1071	925	559	243	49	6460	
		STD DEV	4	13	40	68	82	117	139	117	124	84	62	24	340	
		41-70 AVERAGE	6	24	137	411	721	1137	1250	1083	926	556	263	52	6566	
		STD DEV	6	17	48	67	73	121	130	99	114	82	75	23	366	
1902		51-80 AVERAGE	7	24	153	450	735	1134	1265	1093	934	567	272	58	6693	
		STD DEV	6	15	47	78	81	125	125	112	87	76	72	24	363	
		61-90 AVERAGE	7	26	164	471	743	1141	1297	1104	928	585	280	64	6811	
		STD DEV	5	16	44	81	79	132	137	97	82	69	64	26	266	
		71-00 AVERAGE	8	24	165	487	741	1099	1265	1068	916	578	273	63	6687	
		STD DEV	6	12	37	74	82	138	143	114	89	66	57	26	359	
		MA-03 Coastal	31-00 AVERAGE	5	14	107	380	652	995	1124	995	876	577	287	65	6077
		STD DEV	4	10	33	64	76	120	130	102	85	65	58	27	341	
		31-60 AVERAGE	6	15	104	372	653	1011	1107	1003	893	585	289	71	6110	
		STD DEV	4	11	32	62	80	119	138	108	98	69	59	28	370	
1903		41-70 AVERAGE	6	16	107	359	643	1015	1126	1001	884	575	298	68	6099	
		STD DEV	5	11	37	56	65	116	122	84	87	68	67	28	318	
		51-80 AVERAGE	6	14	110	378	649	997	1128	1003	879	572	294	67	6096	
		STD DEV	5	10	39	64	70	116	115	96	71	65	63	24	303	
		61-90 AVERAGE	5	13	113	387	649	997	1149	1004	868	579	293	66	6121	
		STD DEV	4	11	37	70	72	123	127	90	70	63	56	26	275	
		71-00 AVERAGE	4	10	105	395	647	967	1127	974	853	563	277	59	5980	
		STD DEV	4	7	32	68	76	127	126	105	76	61	50	28	328	
		MI-01 West Upper	31-00 AVERAGE	79	114	302	625	1042	1449	1617	1398	1254	804	455	186	9325
		STD DEV	36	44	64	105	106	134	147	144	138	106	101	58	500	
2001		31-60 AVERAGE	72	109	294	612	1054	1439	1582	1404	1291	814	463	180	9314	
		STD DEV	32	46	65	106	116	122	135	128	143	115	90	59	503	
		41-70 AVERAGE	84	116	306	588	1033	1445	1612	1409	1266	788	476	192	9315	
		STD DEV	35	47	60	101	101	105	136	105	144	105	96	55	395	
		51-80 AVERAGE	84	122	315	611	1028	1457	1654	1422	1269	799	462	193	9417	
		STD DEV	35	44	63	116	98	121	139	124	122	88	106	53	391	
		61-90 AVERAGE	79	123	314	634	1027	1480	1653	1421	1237	790	453	197	9406	
		STD DEV	34	43	60	112	85	139	155	145	132	97	110	57	456	
		71-00 AVERAGE	83	115	308	651	1039	1459	1637	1372	1219	796	438	186	9303	
		STD DEV	39	44	65	98	106	158	158	160	129	111	109	57	561	
MI-02 East Upper		31-00 AVERAGE	85	111	281	599	959	1338	1517	1352	1237	819	490	206	8993	
		STD DEV	36	45	58	92	92	124	135	130	122	94	94	58	461	
		31-60 AVERAGE	84	109	281	592	967	1330	1476	1349	1269	836	514	210	9015	
		STD DEV	32	49	59	90	102	106	125	118	131	104	80	57	463	
		41-70 AVERAGE	89	117	285	573	953	1346	1520	1359	1248	808	514	209	9020	
		STD DEV	35	47	56	89	88	96	126	107	128	92	90	51	364	
		51-80 AVERAGE	89	118	291	592	954	1355	1550	1380	1250	812	491	210	9089	
		STD DEV	34	42	58	102	88	114	118	122	108	72	97	54	346	
		61-90 AVERAGE	81	116	284	603	949	1365	1550	1375	1224	804	478	214	9042	
		STD DEV	33	40	56	103	71	134	136	129	110	81	100	56	404	
2002		71-00 AVERAGE	84	108	284	617	958	1343	1540	1336	1206	806	459	198	8937	
		STD DEV	40	42	59	93	89	152	139	141	116	94	102	62	517	

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
2003	MI-03 Northwest Lower	31-00 AVERAGE	45	78	219	532	884	1241	1402	1270	1141	721	409	135	8077
		STD DEV	26	35	54	92	95	119	129	129	132	95	97	50	427
		31-60 AVERAGE	42	72	213	526	895	1245	1371	1273	1176	731	421	131	8097
		STD DEV	25	35	58	93	109	105	125	113	142	101	83	49	402
		41-70 AVERAGE	52	81	223	512	887	1258	1415	1289	1164	711	429	137	8157
		STD DEV	26	36	53	95	96	97	116	101	142	97	94	48	336
		51-80 AVERAGE	51	84	224	525	881	1259	1434	1303	1158	720	413	142	8194
		STD DEV	25	33	53	103	93	106	111	117	119	81	99	49	319
		61-90 AVERAGE	45	84	221	538	871	1259	1430	1291	1126	710	404	146	8124
		STD DEV	22	33	50	101	73	126	129	129	121	90	105	51	381
2004	MI-04 Northeast Lower	71-00 AVERAGE	46	80	226	549	876	1230	1413	1244	1102	713	392	136	8007
		STD DEV	27	35	52	93	86	142	133	142	122	98	104	53	490
		31-00 AVERAGE	45	87	240	560	909	1282	1447	1295	1160	731	406	133	8293
		STD DEV	24	36	55	93	97	126	135	133	134	98	94	48	429
		31-60 AVERAGE	47	86	242	554	924	1289	1416	1304	1204	753	426	136	8382
		STD DEV	22	38	57	92	109	111	129	126	143	107	81	49	404
		41-70 AVERAGE	50	88	239	528	906	1294	1453	1304	1177	722	426	135	8322
		STD DEV	24	37	55	89	93	104	122	103	140	98	92	48	314
		51-80 AVERAGE	48	90	241	548	903	1297	1475	1318	1167	723	405	135	8351
		STD DEV	23	34	57	104	95	117	117	119	119	82	94	45	326
2005	MI-05 West Central Lower	61-90 AVERAGE	41	90	238	568	893	1295	1478	1308	1137	711	394	137	8290
		STD DEV	22	34	52	103	77	136	136	127	119	88	99	47	373
		71-00 AVERAGE	43	85	243	580	899	1269	1461	1270	1118	712	382	129	8190
		STD DEV	25	36	55	94	88	151	144	142	122	95	99	51	487
		31-00 AVERAGE	26	57	183	494	837	1184	1333	1182	1044	645	344	99	7427
		STD DEV	17	27	52	91	95	117	129	128	133	93	91	43	419
		31-60 AVERAGE	23	50	176	483	851	1188	1309	1200	1084	662	354	95	7473
		STD DEV	15	24	53	92	105	108	126	116	144	101	75	43	394
		41-70 AVERAGE	28	55	177	465	833	1191	1343	1197	1058	631	350	94	7421
		STD DEV	16	26	49	92	92	104	116	88	141	93	86	40	309
2006	MI-06 Central Lower	51-80 AVERAGE	28	59	183	489	833	1194	1365	1207	1056	634	338	100	7487
		STD DEV	15	26	51	103	93	107	116	112	119	76	88	43	331
		61-90 AVERAGE	26	62	186	503	819	1194	1361	1194	1022	628	337	106	7436
		STD DEV	14	26	49	100	76	125	133	128	120	84	99	44	381
		71-00 AVERAGE	28	61	193	517	832	1177	1339	1150	1006	634	334	104	7374
		STD DEV	19	30	52	91	92	136	133	143	119	91	102	44	492
		31-00 AVERAGE	18	49	178	493	849	1212	1361	1194	1036	618	306	77	7390
		STD DEV	13	25	52	93	94	124	140	126	134	94	87	35	410
		31-60 AVERAGE	15	41	165	470	850	1203	1317	1196	1064	622	309	72	7324
		STD DEV	11	21	52	88	104	116	131	118	148	103	75	35	378
2007	MI-07 East Central Lower	41-70 AVERAGE	19	48	173	463	845	1219	1368	1205	1050	602	319	77	7388
		STD DEV	12	25	49	92	89	113	121	94	144	100	86	34	324
		51-80 AVERAGE	20	51	181	493	849	1227	1403	1224	1053	611	307	80	7500
		STD DEV	11	23	51	103	90	117	120	114	124	85	86	35	336
		61-90 AVERAGE	18	54	185	516	842	1233	1406	1218	1027	612	306	85	7502
		STD DEV	11	24	47	102	75	130	140	121	122	88	92	35	359
		71-00 AVERAGE	19	53	190	522	852	1213	1383	1179	1010	615	298	81	7415
		STD DEV	14	27	53	95	94	142	145	140	127	91	93	36	478
		31-00 AVERAGE	18	44	164	473	817	1189	1345	1187	1030	630	323	79	7298
		STD DEV	14	23	50	91	93	129	144	128	133	92	87	34	394
2008	MI-08 Southwest Lower	31-60 AVERAGE	15	37	156	457	825	1192	1309	1195	1063	641	333	75	7298
		STD DEV	11	20	51	88	104	119	138	120	149	101	79	34	386
		41-70 AVERAGE	19	43	161	446	816	1208	1362	1205	1048	616	342	78	7343
		STD DEV	12	22	48	91	90	114	129	95	144	99	88	32	317
		51-80 AVERAGE	18	44	162	467	814	1201	1387	1213	1042	618	322	79	7368
		STD DEV	11	20	47	100	93	115	126	115	123	86	87	33	331
		61-90 AVERAGE	17	47	165	486	804	1201	1383	1202	1012	617	315	83	7334
		STD DEV	10	21	45	101	76	134	146	123	117	88	90	35	349
		71-00 AVERAGE	19	48	176	498	815	1178	1356	1165	997	622	309	82	7265
		STD DEV	16	24	50	92	90	149	148	140	121	86	86	37	444

Section 3: **Heating Degree Days**



Section 3:

Heating Degree Days



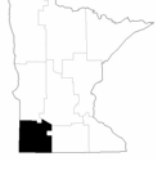





Divisional Normals, 1971-2000 (and previous periods)

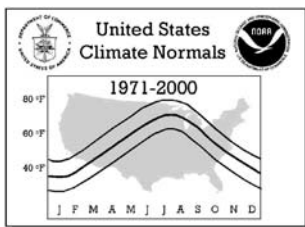
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Minnesota – Mississippi

Page 33

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MN-05 Central 	31-00 AVERAGE	21	41	212	549	1058	1532	1722	1398	1165	650	297	79	8725
	STD DEV	16	22	63	97	129	175	202	185	172	115	87	38	594
	31-60 AVERAGE	19	38	206	545	1070	1518	1709	1438	1216	671	312	86	8829
	STD DEV	13	21	65	110	134	161	205	177	159	116	89	43	584
	41-70 AVERAGE	23	40	223	524	1047	1530	1731	1435	1211	659	321	87	8832
	STD DEV	14	21	63	101	125	154	182	126	189	118	84	41	455
	51-80 AVERAGE	22	43	219	537	1038	1531	1783	1421	1209	655	300	79	8836
	STD DEV	15	22	62	110	115	158	165	149	180	114	82	36	431
	61-90 AVERAGE	19	44	218	552	1036	1567	1741	1400	1142	629	289	74	8712
	STD DEV	14	23	60	96	108	178	214	178	184	119	86	34	562
MN-06 East Central 	71-00 AVERAGE	22	44	212	565	1059	1540	1714	1342	1106	622	274	73	8573
	STD DEV	20	24	57	82	136	200	209	195	153	117	84	32	639
	31-00 AVERAGE	31	59	248	582	1073	1553	1740	1420	1192	687	337	103	9025
	STD DEV	20	28	66	100	125	170	186	178	162	108	90	44	582
	31-60 AVERAGE	29	56	246	576	1089	1541	1721	1461	1252	706	354	109	9138
	STD DEV	18	27	66	107	132	155	183	167	152	113	89	49	555
	41-70 AVERAGE	34	58	261	557	1066	1550	1749	1455	1229	693	365	113	9129
	STD DEV	19	27	63	102	121	143	164	121	171	110	85	47	418
	51-80 AVERAGE	33	63	259	574	1055	1553	1801	1441	1222	687	342	104	9135
	STD DEV	20	29	63	112	111	155	154	140	161	103	87	40	391
MN-07 Southwest 	61-90 AVERAGE	30	64	257	591	1054	1590	1770	1425	1165	672	334	103	9053
	STD DEV	19	30	63	103	100	173	195	168	163	107	90	40	519
	71-00 AVERAGE	32	60	247	600	1072	1562	1738	1364	1135	663	311	97	8882
	STD DEV	22	31	64	89	129	195	197	189	145	109	90	38	651
	31-00 AVERAGE	23	39	194	510	1002	1441	1613	1304	1084	603	276	68	8156
	STD DEV	17	23	65	99	134	174	212	186	170	110	84	35	576
	31-60 AVERAGE	19	31	178	484	997	1404	1581	1320	1113	604	280	72	8082
	STD DEV	14	19	69	107	133	153	212	186	168	114	90	41	603
	41-70 AVERAGE	25	37	209	487	986	1435	1621	1326	1134	608	296	78	8241
	STD DEV	13	20	64	102	120	151	185	126	202	119	80	40	449
MN-08 South Central 	51-80 AVERAGE	24	40	207	509	984	1447	1680	1337	1135	608	283	69	8323
	STD DEV	14	21	61	110	113	152	171	158	191	111	74	34	427
	61-90 AVERAGE	22	44	208	531	988	1490	1642	1326	1072	591	274	65	8251
	STD DEV	13	23	58	97	113	176	223	174	182	113	78	31	520
	71-00 AVERAGE	26	45	201	542	1021	1468	1618	1271	1041	594	267	64	8156
	STD DEV	21	26	56	80	147	199	219	203	137	114	80	29	603
	31-00 AVERAGE	18	37	175	493	978	1428	1606	1301	1075	584	262	63	8020
	STD DEV	15	21	58	100	130	174	203	180	166	108	82	33	566
	31-60 AVERAGE	14	29	158	466	975	1392	1567	1315	1103	583	264	64	7929
	STD DEV	11	17	60	106	130	152	194	179	162	110	84	37	583
MN-09 Southeast 	41-70 AVERAGE	19	35	183	461	961	1417	1606	1322	1117	583	274	67	8044
	STD DEV	11	19	57	102	120	148	174	129	187	115	78	36	454
	51-80 AVERAGE	19	38	183	488	960	1431	1669	1329	1122	587	262	62	8149
	STD DEV	12	19	53	111	112	153	177	161	176	111	76	31	446
	61-90 AVERAGE	18	43	186	513	962	1476	1642	1322	1064	577	259	61	8122
	STD DEV	11	22	51	100	108	179	221	173	180	112	80	31	523
	71-00 AVERAGE	22	43	183	530	994	1458	1620	1269	1033	578	256	60	8047
	STD DEV	19	24	51	83	142	199	213	195	147	113	82	28	601
	31-00 AVERAGE	21	39	185	506	976	1432	1610	1312	1088	601	282	71	8125
	STD DEV	16	21	58	98	120	168	195	172	160	107	84	35	558
MS-01 Upper Delta 	31-60 AVERAGE	18	32	171	488	978	1410	1572	1332	1126	605	281	71	8083
	STD DEV	13	18	57	109	125	150	182	166	159	108	85	40	563
	41-70 AVERAGE	24	40	199	486	975	1433	1617	1343	1133	605	298	78	8230
	STD DEV	14	20	52	106	114	149	168	130	172	113	81	38	444
	51-80 AVERAGE	25	44	203	512	976	1443	1684	1348	1140	614	291	76	8356
	STD DEV	16	19	53	111	108	153	175	155	161	106	81	34	406
	61-90 AVERAGE	22	46	200	524	966	1475	1654	1334	1076	597	286	73	8252
	STD DEV	15	21	52	96	99	175	214	164	167	113	86	33	511
	71-00 AVERAGE	23	42	188	529	982	1447	1620	1274	1039	587	273	68	8070
	STD DEV	18	22	55	83	131	193	207	184	143	111	83	29	597
MS-01 Upper Delta 	31-00 AVERAGE	0	0	12	136	381	637	716	532	379	124	24	0	2942
	STD DEV	0	1	8	53	83	125	146	118	106	47	17	1	319
	31-60 AVERAGE	0	0	9	118	384	607	646	498	371	112	21	0	2767
	STD DEV	0	0	6	52	77	112	137	118	124	37	14	1	308
	41-70 AVERAGE	0	0	12	135	382	636	696	528	400	110	20	0	2918
	STD DEV	0	0	7	57	73	112	127	120	122	43	13	1	315
	51-80 AVERAGE	0	0	13	151	394	645	743	558	398	121	25	0	3048
	STD DEV	0	0	10	59	82	108	143	132	118	41	19	1	312
	61-90 AVERAGE	0	0	14	154	368	664	788	580	385	129	28	0	3111
	STD DEV	0	0	10	55	84	134	140	117	96	51	19	1	258
MS-01 Upper Delta 	71-00 AVERAGE	0	0	14	146	379	658	761	547	374	140	29	1	3048
	STD DEV	0	1	10	50	93	134	141	115	80	52	19	1	279



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

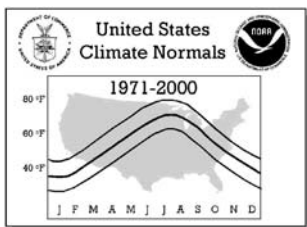
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Mississippi – Missouri

Page 35

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MS-08 South Central 	31-00 AVERAGE	0	0	4	99	289	473	539	394	266	80	10	0	2153
	STD DEV	0	0	3	43	79	111	140	107	84	35	8	0	281
	31-60 AVERAGE	0	0	3	86	287	444	481	359	261	73	8	0	2003
	STD DEV	0	0	3	42	70	98	142	111	95	28	7	0	266
	41-70 AVERAGE	0	0	4	99	293	477	535	398	284	69	8	0	2167
	STD DEV	0	0	4	44	68	97	131	129	92	34	6	0	301
	51-80 AVERAGE	0	0	4	112	308	491	571	426	281	77	11	0	2282
	STD DEV	0	0	4	45	80	97	139	123	88	33	9	0	281
	61-90 AVERAGE	0	0	4	113	281	497	602	440	272	80	12	0	2301
	STD DEV	0	0	3	46	88	120	131	102	78	36	8	0	253
MS-09 Southeast 	71-00 AVERAGE	0	0	4	108	287	489	569	405	257	93	12	0	2222
	STD DEV	0	0	3	42	88	119	131	84	66	36	9	0	238
	31-00 AVERAGE	0	0	5	108	306	499	563	412	285	93	13	0	2284
	STD DEV	0	0	4	45	78	113	140	108	87	38	9	0	276
	31-60 AVERAGE	0	0	4	92	309	480	507	381	282	86	10	0	2150
	STD DEV	0	0	3	42	74	105	141	114	98	31	9	0	255
	41-70 AVERAGE	0	0	5	106	316	508	560	415	303	80	10	0	2304
	STD DEV	0	0	5	45	73	101	131	128	94	38	8	0	289
	51-80 AVERAGE	0	0	5	121	324	518	599	443	301	88	14	0	2413
	STD DEV	0	0	5	46	76	99	138	123	90	36	12	0	265
MS-10 Coastal 	61-90 AVERAGE	0	0	6	123	297	522	628	455	290	93	15	0	2430
	STD DEV	0	0	5	49	82	122	132	102	80	38	10	0	252
	71-00 AVERAGE	0	0	5	119	297	507	591	421	274	106	16	0	2336
	STD DEV	0	0	4	46	83	120	135	85	71	38	11	0	250
	31-00 AVERAGE	0	0	1	58	225	397	467	336	219	59	3	0	1764
	STD DEV	0	0	1	30	69	99	126	95	70	27	3	0	229
	31-60 AVERAGE	0	0	0	50	230	381	423	312	221	57	3	0	1678
	STD DEV	0	0	1	29	63	90	130	101	78	22	3	0	220
	41-70 AVERAGE	0	0	1	56	232	399	467	339	236	51	3	0	1783
	STD DEV	0	0	1	30	63	89	117	113	74	27	3	0	241
MO-01 Northwest Prairie 	51-80 AVERAGE	0	0	1	62	236	406	488	360	226	52	3	0	1834
	STD DEV	0	0	1	31	69	89	126	111	70	25	3	0	239
	61-90 AVERAGE	0	0	1	64	212	409	515	367	218	55	3	0	1844
	STD DEV	0	0	1	33	71	110	123	94	64	28	2	0	234
	71-00 AVERAGE	0	0	1	64	217	408	487	342	206	66	4	0	1794
	STD DEV	0	0	1	32	77	107	123	76	58	30	3	0	213
	31-00 AVERAGE	4	11	78	307	709	1082	1222	959	755	376	147	22	5673
	STD DEV	4	9	38	80	108	153	180	159	145	85	58	14	416
	31-60 AVERAGE	4	9	67	283	715	1056	1191	962	786	381	147	21	5620
	STD DEV	5	8	38	81	106	128	177	160	160	86	57	17	455
MO-02 Northeast Prairie 	41-70 AVERAGE	5	11	78	287	697	1079	1217	956	793	369	144	23	5658
	STD DEV	5	9	34	79	95	141	123	119	162	90	59	15	330
	51-80 AVERAGE	4	11	76	308	703	1078	1271	978	782	364	139	21	5734
	STD DEV	4	7	35	87	97	127	160	155	151	79	52	13	339
	61-90 AVERAGE	4	13	82	327	693	1119	1259	992	737	361	146	22	5755
	STD DEV	3	9	33	84	93	171	195	153	136	87	58	13	367
	71-00 AVERAGE	4	13	86	336	715	1102	1238	953	719	374	153	22	5714
	STD DEV	4	10	40	70	119	172	192	183	118	89	56	13	433
	31-00 AVERAGE	2	9	67	287	664	1026	1156	916	724	350	140	18	5358
	STD DEV	3	7	33	75	107	154	175	148	144	82	55	12	398
MO-03 West Central Plains 	31-60 AVERAGE	2	7	58	267	677	1003	1109	912	750	359	137	16	5297
	STD DEV	3	7	34	72	108	135	165	143	159	82	51	13	415
	41-70 AVERAGE	3	9	67	274	664	1026	1147	920	761	345	138	18	5373
	STD DEV	3	8	31	76	95	144	125	110	159	87	55	12	331
	51-80 AVERAGE	2	9	65	294	665	1023	1204	943	751	340	137	19	5454
	STD DEV	3	6	32	84	97	125	162	148	148	79	53	12	341
	61-90 AVERAGE	2	11	70	306	645	1057	1204	955	709	338	143	19	5460
	STD DEV	3	7	31	84	90	168	190	146	136	86	59	12	353
	71-00 AVERAGE	2	10	73	307	658	1040	1185	909	689	344	144	19	5378
	STD DEV	3	8	34	74	116	171	186	172	118	85	54	12	424
MO-03 West Central Plains 	31-00 AVERAGE	2	7	60	258	622	960	1085	847	667	314	120	15	4958
	STD DEV	3	7	32	72	104	146	166	142	137	78	50	11	371
	31-60 AVERAGE	2	5	52	238	636	934	1045	844	695	321	117	13	4902
	STD DEV	4	6	30	71	102	123	160	137	156	78	46	11	394
	41-70 AVERAGE	3	7	59	245	620	956	1069	843	704	303	114	15	4940
	STD DEV	4	7	28	72	90	133	112	107	153	84	49	10	308
	51-80 AVERAGE	3	7	58	264	626	955	1123	866	688	301	115	16	5021
	STD DEV	3	6	33	77	97	115	159	144	143	75	49	10	320
	61-90 AVERAGE	3	8	64	277	603	992	1126	882	650	300	122	17	5043
	STD DEV	3	6	32	77	92	164	181	143	124	81	52	11	333
2303	71-00 AVERAGE	2	8	68	280	615	980	1113	843	631	314	126	17	4996
	STD DEV	3	7	35	68	113	164	177	165	105	79	50	11	389



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

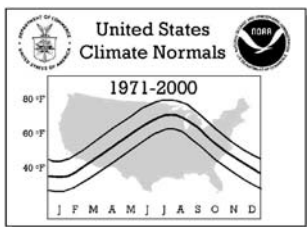
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature (°F), Precipitation (inches), and Degree Days

Missouri – Montana

Page 36

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MO-04 West Ozarks 	31-00 AVERAGE	2	8	58	248	590	895	1000	777	616	289	108	15	4605
	STD DEV	2	7	31	71	100	140	155	131	131	74	44	10	348
	31-60 AVERAGE	1	6	48	223	594	862	952	765	634	291	103	12	4491
	STD DEV	3	6	28	68	97	118	143	126	147	75	38	10	349
	41-70 AVERAGE	2	7	55	233	584	887	979	775	652	275	100	13	4562
	STD DEV	3	7	26	70	88	119	108	107	147	82	42	8	302
	51-80 AVERAGE	2	7	55	251	596	891	1033	799	636	277	103	15	4664
	STD DEV	2	6	32	71	97	107	157	134	142	76	45	10	304
	61-90 AVERAGE	2	9	63	268	578	930	1051	817	603	279	111	16	4728
	STD DEV	2	6	31	75	90	153	170	133	123	76	48	11	306
MO-05 East Ozarks 	71-00 AVERAGE	2	9	67	272	591	920	1037	778	588	294	117	17	4693
	STD DEV	2	7	33	66	108	159	166	151	99	73	47	11	353
	31-00 AVERAGE	1	6	60	267	602	917	1016	796	626	289	109	12	4701
	STD DEV	1	5	30	72	98	139	159	131	132	75	45	9	361
	31-60 AVERAGE	0	4	51	242	606	884	954	774	634	282	102	10	4543
	STD DEV	1	5	28	65	97	121	144	126	150	72	39	8	344
	41-70 AVERAGE	1	6	59	255	604	912	996	795	656	272	101	11	4668
	STD DEV	2	6	27	73	86	120	121	113	150	79	42	8	320
	51-80 AVERAGE	0	6	59	278	613	918	1058	824	649	280	107	13	4805
	STD DEV	1	5	32	78	93	109	156	136	144	73	46	10	330
MO-06 Bootheel 	61-90 AVERAGE	0	8	65	290	590	951	1078	844	620	289	115	14	4864
	STD DEV	1	5	30	80	87	149	169	128	126	79	49	9	306
	71-00 AVERAGE	1	7	67	288	600	942	1062	800	606	302	117	14	4805
	STD DEV	1	6	31	71	106	155	164	145	105	76	48	10	357
	31-00 AVERAGE	0	1	33	212	523	832	928	721	543	227	70	3	4091
	STD DEV	0	2	19	65	94	132	156	128	123	66	33	3	337
	31-60 AVERAGE	0	1	28	195	538	812	870	706	553	224	68	3	3998
	STD DEV	0	1	17	60	91	126	145	124	139	63	29	3	333
	41-70 AVERAGE	0	1	32	204	531	833	911	725	569	213	65	3	4088
	STD DEV	0	2	17	64	81	122	119	113	136	67	33	3	295
MT-01 Western 	51-80 AVERAGE	0	1	32	221	530	832	963	749	563	217	67	3	4178
	STD DEV	0	2	21	69	87	109	151	138	134	63	34	3	319
	61-90 AVERAGE	0	1	35	231	502	854	990	762	537	223	73	3	4211
	STD DEV	0	2	20	73	83	137	163	131	116	69	38	3	307
	71-00 AVERAGE	0	1	36	228	511	845	967	719	524	235	74	3	4143
	STD DEV	0	2	20	67	102	141	164	141	103	70	36	3	357
	31-00 AVERAGE	97	125	347	669	1020	1259	1348	1075	977	680	441	239	8277
	STD DEV	40	44	81	70	111	132	202	139	117	81	80	62	513
	31-60 AVERAGE	91	136	343	655	1027	1232	1382	1129	1018	685	440	254	8392
	STD DEV	34	37	66	79	118	124	235	144	122	81	94	63	594
MT-02 Southwestern 	41-70 AVERAGE	98	135	356	673	1020	1255	1387	1074	1036	703	456	259	8453
	STD DEV	28	40	85	79	97	115	207	107	116	75	78	59	436
	51-80 AVERAGE	99	135	356	681	1033	1250	1382	1055	1021	714	461	246	8434
	STD DEV	28	49	87	63	98	129	183	102	108	74	76	61	393
	61-90 AVERAGE	100	121	362	682	1014	1292	1341	1043	961	684	453	224	8278
	STD DEV	35	50	96	67	106	144	177	114	109	87	59	63	385
	71-00 AVERAGE	102	114	345	676	1020	1281	1313	1042	921	660	434	225	8132
	STD DEV	48	48	74	55	119	145	172	129	90	79	72	60	465
	31-00 AVERAGE	112	139	389	701	1088	1372	1451	1184	1114	787	520	290	9148
	STD DEV	46	47	86	88	130	136	182	146	132	97	86	70	469
MT-03 North Central 	31-60 AVERAGE	103	139	379	685	1089	1346	1491	1237	1161	783	516	302	9232
	STD DEV	35	35	66	90	133	128	207	145	127	86	101	72	491
	41-70 AVERAGE	110	142	397	694	1073	1362	1481	1190	1181	803	531	314	9278
	STD DEV	34	44	95	105	111	109	184	136	129	92	85	65	388
	51-80 AVERAGE	110	150	395	697	1085	1351	1471	1166	1161	819	534	292	9231
	STD DEV	34	51	95	86	107	132	171	128	126	95	78	65	407
	61-90 AVERAGE	111	145	408	709	1078	1397	1434	1153	1099	795	531	277	9138
	STD DEV	36	53	105	93	113	156	164	131	129	112	68	68	442
	71-00 AVERAGE	123	140	391	717	1104	1397	1414	1153	1051	776	523	277	9066
	STD DEV	56	55	81	70	142	151	155	137	108	105	76	69	491
MT-03 North Central 	31-00 AVERAGE	66	99	336	638	1075	1390	1551	1230	1115	707	400	194	8801
	STD DEV	36	42	92	93	169	215	288	213	177	116	83	61	681
	31-60 AVERAGE	58	104	334	637	1066	1351	1565	1297	1185	720	400	213	8930
	STD DEV	27	26	74	102	179	184	314	192	161	115	96	67	617
	41-70 AVERAGE	65	103	346	630	1069	1397	1603	1248	1190	728	420	217	9016
	STD DEV	26	34	94	117	167	212	304	171	195	122	77	63	577
	51-80 AVERAGE	68	106	338	633	1075	1402	1638	1235	1162	743	415	194	9009
	STD DEV	29	46	98	108	159	225	246	200	184	125	76	59	624
	61-90 AVERAGE	67	100	347	631	1080	1447	1550	1204	1084	706	404	175	8794
	STD DEV	27	51	111	97	167	231	289	211	176	128	72	57	707
2403	71-00 AVERAGE	76	97	333	647	1087	1396	1508	1180	1030	678	394	177	8605
	STD DEV	45	53	91	68	177	238	264	232	140	111	77	51	753



Section 3:

Heating Degree Days



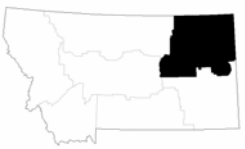
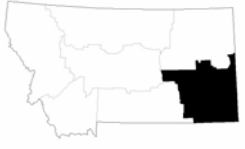
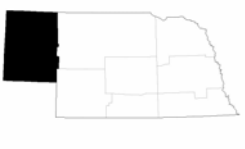
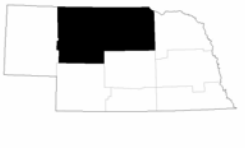
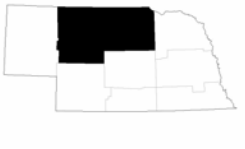
Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

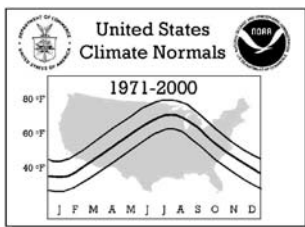
Temperature (°F), Precipitation (inches), and Degree Days

Montana – Nebraska

Page 37

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MT-04 Central 	31-00 AVERAGE	84	100	336	627	1009	1273	1399	1123	1059	719	444	226	8398
	STD DEV	41	42	90	90	150	170	239	187	150	105	85	67	569
	31-60 AVERAGE	73	98	325	620	999	1231	1413	1183	1112	722	437	242	8455
	STD DEV	36	29	70	96	152	142	269	193	140	102	102	75	581
	41-70 AVERAGE	85	105	351	625	1000	1267	1437	1126	1127	737	463	255	8579
	STD DEV	32	35	98	112	135	157	249	145	157	104	80	65	465
	51-80 AVERAGE	86	110	344	626	1012	1271	1463	1110	1099	751	461	230	8564
	STD DEV	32	46	99	98	130	176	211	154	153	107	75	63	502
	61-90 AVERAGE	85	106	355	626	1012	1323	1404	1095	1037	720	452	210	8427
	STD DEV	31	51	109	96	147	186	230	168	148	115	69	61	545
MT-05 South Central 	71-00 AVERAGE	95	102	337	638	1028	1297	1371	1086	989	701	443	211	8298
	STD DEV	47	53	85	69	165	195	215	183	120	106	76	58	620
	31-00 AVERAGE	55	66	287	576	976	1252	1357	1090	999	664	394	181	7898
	STD DEV	34	32	84	89	141	159	217	179	141	101	85	60	519
	31-60 AVERAGE	47	60	271	556	960	1212	1364	1141	1042	659	383	187	7882
	STD DEV	28	21	63	92	139	132	240	190	134	101	101	68	515
	41-70 AVERAGE	55	67	299	565	964	1247	1385	1091	1063	675	407	205	8023
	STD DEV	27	28	95	108	126	136	221	134	144	108	81	58	398
	51-80 AVERAGE	56	75	297	574	987	1253	1416	1080	1040	696	410	185	8068
	STD DEV	28	34	96	95	119	158	194	145	137	100	71	57	448
MT-06 Northeastern 	61-90 AVERAGE	55	73	308	585	983	1302	1369	1071	984	666	405	172	7973
	STD DEV	25	38	103	93	135	172	214	157	142	107	67	54	517
	71-00 AVERAGE	64	70	291	600	999	1274	1335	1057	939	655	400	169	7855
	STD DEV	40	40	75	65	157	185	200	175	119	101	75	53	584
	31-00 AVERAGE	44	67	292	621	1121	1521	1711	1350	1156	677	349	157	9066
	STD DEV	29	34	85	89	164	207	275	220	196	117	88	62	700
	31-60 AVERAGE	39	67	288	619	1126	1491	1735	1428	1232	691	350	169	9234
	STD DEV	23	24	71	99	169	188	297	195	180	120	101	59	665
	41-70 AVERAGE	47	70	309	613	1114	1525	1751	1403	1242	701	377	185	9336
	STD DEV	23	28	89	106	163	207	274	170	220	126	80	68	598
MT-07 Southeastern 	51-80 AVERAGE	47	75	303	615	1111	1522	1779	1370	1206	707	363	162	9260
	STD DEV	27	38	92	103	154	209	226	198	206	127	80	68	585
	61-90 AVERAGE	42	70	304	615	1107	1565	1691	1321	1115	668	348	147	8992
	STD DEV	25	42	100	90	154	215	277	212	196	126	83	69	710
	71-00 AVERAGE	49	66	292	629	1128	1532	1667	1274	1067	649	336	137	8826
	STD DEV	35	44	79	62	174	225	263	239	154	110	84	45	743
	31-00 AVERAGE	38	48	264	580	1032	1369	1506	1196	1049	646	345	144	8218
	STD DEV	27	28	83	90	149	188	246	203	162	103	87	55	600
	31-60 AVERAGE	32	44	250	559	1017	1320	1502	1248	1100	649	340	152	8214
	STD DEV	23	18	70	97	143	155	267	198	150	109	102	63	577
NE-01 Panhandle 	41-70 AVERAGE	39	49	278	572	1022	1361	1529	1214	1115	660	362	165	8366
	STD DEV	22	23	89	106	138	172	247	156	178	117	81	56	492
	51-80 AVERAGE	39	54	276	585	1039	1377	1574	1208	1087	672	355	144	8410
	STD DEV	25	30	91	97	134	183	213	178	163	105	72	50	512
	61-90 AVERAGE	36	55	284	592	1035	1436	1520	1184	1025	641	350	136	8294
	STD DEV	21	33	94	91	144	195	244	187	160	106	75	47	615
	71-00 AVERAGE	44	52	270	604	1053	1395	1490	1151	985	631	345	135	8156
	STD DEV	33	36	74	60	167	217	236	219	135	95	80	47	672
	31-00 AVERAGE	12	23	188	506	909	1187	1269	1020	930	592	310	98	7045
	STD DEV	10	15	65	84	115	138	172	154	128	97	82	44	399
NE-02 North Central 	31-60 AVERAGE	10	18	170	477	905	1155	1262	1050	966	590	309	96	7008
	STD DEV	9	9	57	85	103	115	183	163	128	106	92	50	414
	41-70 AVERAGE	13	23	195	490	893	1176	1268	1027	986	589	315	109	7083
	STD DEV	9	15	68	99	103	109	156	127	139	113	79	48	321
	51-80 AVERAGE	14	27	197	504	914	1184	1305	1024	963	603	314	96	7144
	STD DEV	10	16	72	94	98	134	160	137	133	91	67	44	341
	61-90 AVERAGE	13	29	207	523	903	1230	1290	1022	920	587	317	98	7137
	STD DEV	8	16	70	88	116	155	177	130	126	96	73	39	356
	71-00 AVERAGE	15	26	195	534	928	1209	1270	995	883	593	314	95	7057
	STD DEV	12	16	59	49	134	165	170	156	100	91	73	38	435
NE-02 North Central 	31-00 AVERAGE	15	22	163	464	916	1245	1355	1096	956	557	264	75	7128
	STD DEV	13	15	60	86	123	151	199	183	150	100	79	37	473
	31-60 AVERAGE	13	17	146	445	910	1212	1348	1137	1000	565	267	76	7137
	STD DEV	13	11	57	94	109	124	204	194	146	111	88	43	466
	41-70 AVERAGE	16	21	170	447	896	1241	1360	1109	1019	561	268	83	7192
	STD DEV	12	14	63	100	104	129	163	140	168	115	79	41	357
	51-80 AVERAGE	15	24	168	460	914	1248	1403	1109	996	560	262	73	7232
	STD DEV	10	15	65	99	103	141	169	165	157	93	68	36	392
	61-90 AVERAGE	14	26	177	477	909	1289	1374	1094	938	539	260	72	7169
	STD DEV	8	16	62	87	118	166	210	154	149	95	71	32	447
2502	71-00 AVERAGE	18	25	169	488	939	1262	1349	1056	897	550	266	74	7093
	STD DEV	14	17	51	54	147	181	206	188	115	94	68	33	537

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NE-03 Northeast		31-00 AVERAGE	11	23	133	421	885	1272	1418	1134	934	496	216	45	6990
		STD DEV	10	15	53	86	114	159	205	186	160	100	72	26	503
		31-60 AVERAGE	10	18	117	401	875	1232	1404	1166	968	500	218	45	6953
		STD DEV	10	12	53	89	109	130	215	196	160	106	78	31	531
		41-70 AVERAGE	12	22	144	406	867	1270	1434	1148	991	498	221	51	7063
		STD DEV	9	14	55	94	99	140	156	143	186	107	69	29	384
		51-80 AVERAGE	11	24	141	424	875	1279	1484	1154	974	495	213	45	7118
		STD DEV	8	15	55	101	94	141	153	171	177	92	61	25	401
		61-90 AVERAGE	10	27	146	440	877	1323	1442	1144	916	477	210	43	7056
		STD DEV	6	16	50	90	96	168	210	160	166	97	66	22	467
2503	71-00 AVERAGE	14	27	138	444	907	1295	1408	1100	885	493	217	45	6972	
	STD DEV	12	17	44	69	131	186	211	198	126	103	66	22	537	
NE-05 Central		31-00 AVERAGE	12	19	138	421	868	1209	1320	1053	892	497	226	53	6708
		STD DEV	10	14	54	85	108	150	191	173	146	96	73	30	454
		31-60 AVERAGE	9	12	118	393	850	1170	1301	1071	915	492	222	50	6605
		STD DEV	9	8	52	88	93	121	198	180	150	106	77	34	451
		41-70 AVERAGE	12	17	142	404	846	1204	1325	1058	945	495	225	56	6728
		STD DEV	8	12	56	91	87	124	152	139	169	109	71	32	327
		51-80 AVERAGE	12	19	143	419	865	1213	1373	1067	930	495	222	51	6809
		STD DEV	8	14	57	94	90	138	156	166	160	84	65	28	362
		61-90 AVERAGE	12	24	153	442	868	1258	1347	1066	885	485	223	53	6815
		STD DEV	6	14	52	87	101	166	197	153	149	91	68	27	425
2505	71-00 AVERAGE	15	24	147	451	898	1234	1323	1034	854	502	234	55	6772	
	STD DEV	11	16	47	62	128	179	195	188	112	94	66	28	500	
NE-06 East Central		31-00 AVERAGE	9	17	106	367	818	1198	1339	1061	864	444	189	32	6444
		STD DEV	8	12	45	85	110	153	195	178	156	92	67	21	464
		31-60 AVERAGE	8	12	91	343	812	1161	1324	1083	898	450	193	33	6408
		STD DEV	8	9	46	89	102	126	205	188	162	99	72	26	502
		41-70 AVERAGE	10	16	114	351	801	1193	1349	1064	916	446	191	36	6486
		STD DEV	7	11	46	89	96	137	142	141	180	102	66	24	365
		51-80 AVERAGE	9	17	114	371	810	1201	1402	1078	901	442	184	31	6561
		STD DEV	7	11	46	94	92	138	144	170	169	85	58	19	376
		61-90 AVERAGE	8	20	118	388	806	1245	1359	1076	846	427	183	30	6507
		STD DEV	5	13	41	86	95	165	200	160	155	90	62	17	422
2506	71-00 AVERAGE	10	20	111	394	836	1222	1334	1039	819	439	190	30	6443	
	STD DEV	8	14	39	66	127	175	198	192	124	94	61	17	488	
NE-07 Southwest		31-00 AVERAGE	9	15	130	410	830	1128	1221	961	838	479	226	56	6301
		STD DEV	8	11	54	81	104	141	176	154	134	92	73	31	425
		31-60 AVERAGE	7	10	109	381	814	1088	1191	967	856	472	217	52	6164
		STD DEV	8	7	45	81	94	110	188	157	148	99	74	37	431
		41-70 AVERAGE	10	14	133	400	817	1121	1222	970	894	480	225	62	6348
		STD DEV	7	11	57	95	88	112	155	134	152	106	71	36	328
		51-80 AVERAGE	10	16	139	415	843	1138	1268	981	880	487	229	56	6461
		STD DEV	8	11	61	93	89	132	163	152	147	83	67	31	343
		61-90 AVERAGE	9	18	147	433	836	1182	1260	979	835	474	232	57	6462
		STD DEV	6	11	56	85	100	158	176	139	127	91	71	27	365
2507	71-00 AVERAGE	11	18	139	437	854	1154	1237	952	803	487	238	57	6384	
	STD DEV	8	12	48	51	120	169	167	167	96	87	66	27	434	
NE-08 South Central		31-00 AVERAGE	8	14	108	367	808	1143	1252	985	820	436	189	43	6174
		STD DEV	7	11	47	82	101	143	180	164	147	91	67	26	426
		31-60 AVERAGE	6	9	89	337	793	1109	1237	1001	845	433	185	41	6086
		STD DEV	7	6	43	84	89	118	198	167	162	100	68	30	450
		41-70 AVERAGE	9	13	112	355	794	1148	1261	988	874	436	187	47	6223
		STD DEV	7	9	49	87	83	124	143	138	170	106	65	28	338
		51-80 AVERAGE	8	15	114	370	813	1152	1305	998	858	435	184	42	6292
		STD DEV	6	10	49	88	82	132	145	162	160	83	61	24	339
		61-90 AVERAGE	8	18	123	391	809	1189	1279	998	810	425	189	43	6280
		STD DEV	5	11	43	82	93	160	175	149	139	87	65	23	380
2508	71-00 AVERAGE	10	18	117	395	832	1160	1251	967	782	439	198	44	6214	
	STD DEV	7	12	39	58	119	166	175	180	110	86	61	24	439	
NE-09 Southeast		31-00 AVERAGE	6	14	94	341	778	1145	1283	1006	812	415	173	29	6096
		STD DEV	6	10	42	80	107	149	182	172	152	89	64	19	431
		31-60 AVERAGE	6	10	83	323	781	1120	1274	1025	851	423	180	30	6106
		STD DEV	7	8	44	86	98	124	190	173	161	93	68	24	467
		41-70 AVERAGE	7	13	100	328	768	1149	1293	1005	864	414	173	33	6148
		STD DEV	6	9	41	83	92	132	126	135	172	97	65	22	334
		51-80 AVERAGE	7	13	98	341	769	1143	1337	1021	841	405	165	28	6167
		STD DEV	6	9	41	86	90	131	139	169	163	83	57	17	347
		61-90 AVERAGE	6	16	102	356	758	1182	1299	1022	788	394	165	28	6115
		STD DEV	4	10	36	80	91	167	189	165	145	88	60	16	390
2509	71-00 AVERAGE	7	16	97	362	786	1158	1277	987	764	410	174	28	6066	
	STD DEV	5	12	40	64	125	172	190	194	119	92	58	16	455	



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

New Jersey – New Mexico

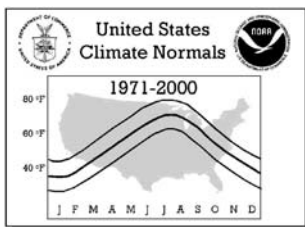
Page 40

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NJ-01 Northern 	31-00 AVERAGE	2	8	89	377	658	1011	1128	973	821	477	201	27	5772
	STD DEV	2	6	33	81	78	118	148	114	105	72	59	15	349
	31-60 AVERAGE	1	7	81	352	658	1017	1086	964	831	468	189	23	5676
	STD DEV	1	7	31	77	78	112	147	118	125	82	50	14	350
	41-70 AVERAGE	1	8	83	349	653	1038	1131	975	828	462	204	26	5759
	STD DEV	2	6	35	72	69	110	135	95	114	81	68	14	342
	51-80 AVERAGE	2	7	91	379	659	1023	1150	989	828	470	212	30	5837
	STD DEV	2	5	38	81	77	116	124	115	90	74	68	17	330
	61-90 AVERAGE	2	8	97	394	655	1023	1183	998	818	489	212	32	5912
	STD DEV	2	6	38	87	78	123	138	105	86	66	64	16	291
NJ-02 Southern 	71-00 AVERAGE	2	8	96	404	658	989	1144	962	803	478	203	31	5777
	STD DEV	3	6	29	84	80	131	150	119	92	62	53	17	356
	31-00 AVERAGE	0	2	55	308	590	919	1024	891	740	425	157	13	5124
	STD DEV	0	2	24	72	78	122	148	117	105	70	50	9	321
	31-60 AVERAGE	0	3	55	296	603	938	998	898	766	432	152	13	5155
	STD DEV	0	3	25	68	75	118	157	121	122	77	43	9	323
	41-70 AVERAGE	0	3	54	290	595	953	1037	902	755	422	158	13	5182
	STD DEV	0	2	26	66	67	115	134	86	112	74	56	9	276
	51-80 AVERAGE	0	2	53	309	592	923	1051	908	746	416	163	15	5179
	STD DEV	0	2	25	71	76	119	121	111	94	71	56	10	264
NJ-03 Coastal 	61-90 AVERAGE	0	2	56	314	576	914	1072	904	722	428	160	14	5163
	STD DEV	0	2	25	82	78	127	136	112	87	66	54	9	292
	71-00 AVERAGE	0	2	53	319	577	884	1026	866	710	411	155	14	5017
	STD DEV	0	2	19	80	83	129	146	123	88	63	47	10	326
	31-00 AVERAGE	0	1	36	256	531	856	976	860	744	450	185	18	4912
	STD DEV	0	1	18	65	74	117	139	111	91	65	50	11	345
	31-60 AVERAGE	0	1	36	248	543	878	957	872	772	463	187	17	4975
	STD DEV	0	1	18	64	74	114	148	118	101	72	45	11	365
	41-70 AVERAGE	0	1	34	231	524	879	980	865	756	443	183	16	4912
	STD DEV	0	1	18	51	60	109	124	81	92	62	50	10	266
NM-01 Northwest Plateau 	51-80 AVERAGE	0	1	35	254	532	856	994	871	746	436	186	19	4930
	STD DEV	0	1	19	64	69	112	114	102	80	62	53	13	261
	61-90 AVERAGE	0	1	38	263	520	850	1014	870	727	447	187	19	4937
	STD DEV	0	1	19	71	72	116	130	99	77	57	51	11	271
	71-00 AVERAGE	0	1	36	271	524	824	978	836	712	435	181	19	4816
	STD DEV	0	1	15	72	78	123	141	116	82	59	51	13	358
	31-00 AVERAGE	2	10	120	437	820	1111	1164	899	801	539	282	66	6250
	STD DEV	2	7	39	68	84	112	122	109	87	82	66	28	316
	31-60 AVERAGE	2	9	107	418	829	1099	1169	920	819	526	280	65	6242
	STD DEV	3	5	32	63	89	127	136	131	79	79	70	30	335
NM-02 Northern Mountains 	41-70 AVERAGE	2	10	114	422	812	1111	1162	904	835	534	271	68	6244
	STD DEV	3	7	38	77	91	112	110	110	86	86	58	32	272
	51-80 AVERAGE	1	12	120	431	819	1130	1169	912	822	556	286	62	6320
	STD DEV	2	8	40	71	87	112	116	106	91	75	69	28	297
	61-90 AVERAGE	2	13	134	448	805	1123	1183	903	803	551	290	67	6322
	STD DEV	2	8	41	77	69	107	111	82	95	86	63	27	298
	71-00 AVERAGE	2	12	128	457	827	1112	1145	876	771	544	291	66	6229
	STD DEV	2	7	42	61	79	97	110	81	80	85	64	27	326
	31-00 AVERAGE	28	52	208	522	872	1133	1191	962	889	620	372	121	6970
	STD DEV	14	22	47	63	88	93	105	107	92	81	64	39	324
NM-03 Northeast Plains 	31-60 AVERAGE	33	52	203	521	889	1129	1204	985	919	624	384	123	7066
	STD DEV	15	18	43	60	90	98	105	119	78	80	63	40	297
	41-70 AVERAGE	28	52	206	516	868	1132	1194	976	934	620	368	125	7022
	STD DEV	17	21	43	69	95	92	101	112	90	84	54	43	292
	51-80 AVERAGE	24	56	209	514	874	1132	1189	973	909	633	374	115	7002
	STD DEV	13	23	45	65	91	100	102	111	101	77	60	38	279
	61-90 AVERAGE	24	56	216	521	851	1139	1200	966	882	617	370	119	6962
	STD DEV	12	24	47	73	74	93	103	89	105	86	58	37	305
	71-00 AVERAGE	26	51	206	525	868	1133	1168	933	843	616	367	114	6849
	STD DEV	13	23	50	62	91	92	104	84	77	87	68	39	333
NM-03 Northeast Plains 	31-00 AVERAGE	1	2	53	283	641	898	939	733	627	352	129	15	4673
	STD DEV	1	3	25	61	93	100	110	97	97	79	43	10	278
	31-60 AVERAGE	1	2	46	272	649	878	935	738	641	351	132	13	4656
	STD DEV	1	2	23	57	87	99	113	107	96	75	42	9	298
	41-70 AVERAGE	1	2	50	278	630	884	936	738	662	344	123	15	4663
	STD DEV	1	2	21	67	96	89	116	106	104	79	31	9	270
	51-80 AVERAGE	1	3	55	285	648	885	943	741	642	353	128	14	4695
	STD DEV	1	3	25	68	96	94	117	103	108	77	40	9	235
	61-90 AVERAGE	1	3	62	293	629	921	956	750	625	349	132	17	4739
	STD DEV	1	3	24	71	91	106	114	82	108	83	41	11	247
2803	71-00 AVERAGE	1	3	59	294	645	916	936	721	595	359	132	16	4678
	STD DEV	1	3	27	54	101	103	103	88	73	86	47	11	285

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

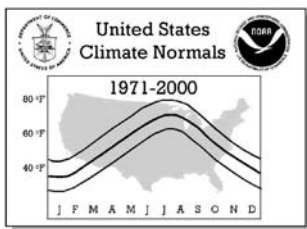
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

New York

Page 42

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NY-02 Eastern Plateau 	31-00 AVERAGE	23	51	197	516	820	1202	1338	1178	1028	639	324	87	7403
	STD DEV	15	24	53	87	93	132	157	125	124	89	77	34	384
	31-60 AVERAGE	18	46	181	489	815	1207	1299	1169	1040	627	314	77	7283
	STD DEV	12	25	51	79	97	125	161	125	150	98	71	33	370
	41-70 AVERAGE	22	52	186	486	811	1227	1347	1185	1035	621	332	84	7387
	STD DEV	14	24	57	79	87	126	144	103	134	96	83	33	339
	51-80 AVERAGE	26	52	199	519	822	1212	1367	1195	1036	632	337	93	7489
	STD DEV	15	22	58	92	92	125	131	123	108	92	83	35	350
	61-90 AVERAGE	26	56	209	535	821	1214	1387	1199	1019	649	334	100	7549
	STD DEV	14	23	56	93	90	137	147	120	99	85	81	34	307
NY-03 Northern Plateau 	71-00 AVERAGE	28	54	213	548	826	1183	1353	1165	1013	647	323	97	7450
	STD DEV	16	23	43	90	89	147	155	135	111	84	74	36	412
	31-00 AVERAGE	66	114	302	640	965	1399	1555	1367	1214	786	425	156	8988
	STD DEV	30	39	64	92	105	152	165	138	131	100	87	46	437
	31-60 AVERAGE	61	110	294	626	972	1417	1537	1374	1239	788	426	148	8992
	STD DEV	30	43	67	88	117	138	171	135	150	103	83	44	449
	41-70 AVERAGE	65	117	287	604	947	1420	1562	1372	1211	773	435	147	8939
	STD DEV	31	43	66	83	97	142	151	110	132	99	94	45	361
	51-80 AVERAGE	69	117	301	634	958	1408	1574	1381	1209	787	433	155	9027
	STD DEV	31	39	68	99	106	142	138	129	111	94	93	47	384
NY-04 Coastal 	61-90 AVERAGE	67	119	308	647	959	1405	1584	1377	1194	787	427	168	9041
	STD DEV	26	38	65	100	98	164	159	134	110	104	88	48	381
	71-00 AVERAGE	68	114	315	666	964	1371	1558	1345	1194	784	416	165	8961
	STD DEV	30	35	52	96	93	170	166	153	125	107	85	52	486
	31-00 AVERAGE	1	3	57	301	588	923	1053	925	794	475	197	22	5337
	STD DEV	1	3	23	68	75	116	135	111	93	69	55	12	342
	31-60 AVERAGE	1	3	58	292	599	944	1035	934	820	488	201	24	5399
	STD DEV	1	4	24	66	76	114	142	120	108	79	49	14	367
	41-70 AVERAGE	1	3	55	280	587	954	1064	934	808	472	203	22	5383
	STD DEV	1	3	25	59	67	110	122	92	95	75	64	13	307
NY-05 Hudson Valley 	51-80 AVERAGE	1	2	55	298	586	928	1070	933	794	463	198	22	5349
	STD DEV	1	2	26	67	73	112	114	106	77	65	62	14	285
	61-90 AVERAGE	1	2	58	307	578	923	1088	935	778	471	196	22	5358
	STD DEV	1	2	26	75	72	116	129	98	75	61	61	12	270
	71-00 AVERAGE	1	2	56	314	576	888	1052	900	764	459	188	21	5219
	STD DEV	1	2	19	73	73	121	136	111	78	58	50	12	331
	31-00 AVERAGE	5	20	139	447	754	1143	1286	1111	939	552	244	45	6686
	STD DEV	5	12	43	80	85	127	153	121	110	82	67	22	351
	31-60 AVERAGE	4	18	130	425	751	1146	1251	1106	952	547	238	41	6608
	STD DEV	4	12	41	72	89	119	151	125	131	94	63	23	357
NY-06 Mohawk Valley 	41-70 AVERAGE	5	21	131	415	743	1167	1293	1115	947	540	254	44	6675
	STD DEV	4	13	46	70	79	121	142	101	117	92	76	22	337
	51-80 AVERAGE	6	20	140	445	749	1152	1304	1123	943	546	254	48	6731
	STD DEV	5	11	49	85	86	125	131	121	95	81	75	23	340
	61-90 AVERAGE	6	22	146	460	750	1154	1329	1130	929	557	251	51	6784
	STD DEV	4	13	48	87	82	138	149	114	91	77	71	22	300
	71-00 AVERAGE	6	21	150	477	757	1123	1299	1098	919	552	242	50	6695
	STD DEV	7	12	37	83	81	141	153	127	100	74	62	22	370
	31-00 AVERAGE	23	50	194	518	837	1254	1410	1234	1074	649	317	85	7644
	STD DEV	16	24	54	86	99	141	154	127	128	96	79	34	405
NY-07 Champlain Valley 	31-60 AVERAGE	20	48	188	506	847	1276	1391	1242	1097	655	321	79	7670
	STD DEV	14	24	54	79	107	128	159	123	152	105	72	31	393
	41-70 AVERAGE	24	54	187	490	830	1282	1425	1244	1079	638	334	85	7670
	STD DEV	16	27	58	78	95	130	140	97	133	101	81	32	333
	51-80 AVERAGE	25	52	194	515	833	1262	1432	1246	1072	646	329	90	7697
	STD DEV	16	25	56	93	98	132	133	120	109	93	82	35	339
	61-90 AVERAGE	23	53	200	526	829	1258	1438	1241	1050	647	318	94	7677
	STD DEV	14	25	54	96	92	149	149	126	105	94	80	36	328
	71-00 AVERAGE	23	50	202	539	829	1218	1409	1208	1050	642	302	90	7562
	STD DEV	16	22	48	92	90	156	155	142	116	93	81	40	459
NY-07 Champlain Valley 	31-00 AVERAGE	15	50	210	542	878	1316	1492	1300	1106	669	313	72	7963
	STD DEV	12	24	55	83	98	150	163	133	131	92	77	28	416
	31-60 AVERAGE	15	48	201	530	882	1337	1478	1306	1136	675	316	73	7996
	STD DEV	12	24	53	79	115	137	164	129	153	98	75	30	447
	41-70 AVERAGE	16	51	199	511	862	1332	1498	1305	1102	659	324	70	7928
	STD DEV	13	27	59	77	88	138	155	111	128	91	87	31	350
	51-80 AVERAGE	16	52	212	543	872	1327	1505	1311	1101	669	318	71	7997
	STD DEV	13	25	59	88	89	140	145	126	106	88	88	29	372
	61-90 AVERAGE	15	54	221	555	877	1325	1513	1308	1087	669	316	75	8015
	STD DEV	11	26	57	91	81	160	167	130	107	93	80	25	339
3007	71-00 AVERAGE	14	49	220	564	875	1281	1492	1277	1077	657	298	70	7872
	STD DEV	11	20	50	86	82	163	163	145	118	90	71	28	419



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)

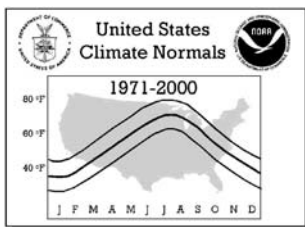
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

New York – North Carolina

Page 43

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NY-08 St. Lawrence Valley  3008	31-00 AVERAGE	22	58	218	546	878	1343	1523	1321	1132	682	335	86	8142
	STD DEV	16	26	57	88	105	167	172	140	138	93	79	32	422
	31-60 AVERAGE	19	52	201	524	870	1346	1494	1310	1142	676	334	80	8047
	STD DEV	14	26	51	81	122	151	178	135	155	99	77	30	453
	41-70 AVERAGE	21	57	201	504	846	1346	1516	1310	1117	660	345	83	8008
	STD DEV	16	28	58	79	95	152	163	114	138	92	89	31	377
	51-80 AVERAGE	24	59	215	534	861	1354	1527	1326	1122	674	339	87	8122
	STD DEV	17	26	62	94	100	158	147	137	123	92	88	31	433
	61-90 AVERAGE	23	64	230	561	883	1365	1544	1337	1122	685	341	97	8252
	STD DEV	15	26	59	96	86	182	173	139	125	93	82	33	345
	71-00 AVERAGE	23	61	236	580	891	1328	1542	1318	1124	688	323	90	8205
	STD DEV	16	23	50	87	90	187	168	156	140	95	75	37	428
	31-00 AVERAGE	14	33	148	449	767	1138	1290	1146	1005	619	309	69	6986
	STD DEV	11	18	47	85	93	133	157	127	127	91	80	29	392
NY-09 Great Lakes  3009	31-60 AVERAGE	11	28	134	428	762	1133	1248	1131	1018	618	311	64	6887
	STD DEV	8	16	45	80	104	124	159	124	147	102	71	28	381
	41-70 AVERAGE	14	34	139	418	752	1150	1291	1143	1005	601	322	69	6938
	STD DEV	10	19	50	82	83	126	145	100	133	98	86	29	343
	51-80 AVERAGE	16	36	151	449	762	1150	1321	1164	1008	613	319	74	7065
	STD DEV	10	18	53	93	89	126	133	128	115	88	82	30	361
	61-90 AVERAGE	15	38	159	467	764	1155	1337	1176	994	622	313	79	7119
	STD DEV	10	19	49	94	79	142	152	123	112	88	83	29	330
	71-00 AVERAGE	15	35	161	477	773	1129	1312	1143	990	620	297	73	7024
	STD DEV	12	18	38	86	89	148	156	141	121	86	79	32	433
	31-00 AVERAGE	19	43	165	468	770	1140	1281	1137	1001	615	307	76	7022
	STD DEV	13	22	51	90	92	131	159	129	131	90	82	32	431
	31-60 AVERAGE	13	34	143	433	756	1130	1231	1117	1002	598	293	63	6813
	STD DEV	10	20	47	80	99	124	160	123	155	96	71	29	395
NY-10 Central Lakes  3010	41-70 AVERAGE	18	41	151	432	752	1156	1282	1137	1002	593	315	72	6950
	STD DEV	12	22	52	84	83	122	150	102	140	94	86	31	388
	51-80 AVERAGE	22	47	170	475	771	1156	1317	1166	1016	616	326	85	7166
	STD DEV	13	21	56	96	90	124	137	127	115	90	84	33	399
	61-90 AVERAGE	23	51	183	497	774	1160	1333	1171	999	629	324	91	7235
	STD DEV	12	21	52	96	84	139	149	123	110	86	85	30	332
	71-00 AVERAGE	23	49	186	507	785	1135	1309	1136	995	628	308	85	7148
	STD DEV	14	20	41	88	90	147	154	144	123	86	81	34	443
NC-01 Southern Mountains  3101	31-00 AVERAGE	1	2	58	296	570	813	862	714	586	317	130	19	4368
	STD DEV	2	2	25	70	88	123	151	109	112	65	46	13	298
	31-60 AVERAGE	1	2	53	281	588	813	813	701	610	319	125	15	4321
	STD DEV	1	2	24	67	83	123	157	119	130	65	42	13	286
	41-70 AVERAGE	1	2	62	293	590	838	856	725	610	302	124	18	4422
	STD DEV	2	3	28	71	78	111	134	127	126	71	46	13	295
	51-80 AVERAGE	1	2	58	312	583	826	895	743	598	307	132	23	4481
	STD DEV	2	2	28	65	79	114	141	119	113	62	49	15	266
	61-90 AVERAGE	2	2	62	312	550	816	920	742	567	317	137	22	4448
	STD DEV	2	2	28	79	88	128	143	105	93	66	45	12	303
	71-00 AVERAGE	1	2	57	304	549	801	885	707	558	318	136	21	4339
	STD DEV	1	2	21	76	93	124	148	92	93	63	49	13	302
	31-00 AVERAGE	5	9	94	354	633	893	951	802	676	392	176	35	5020
	STD DEV	7	7	34	73	86	123	150	108	120	72	54	20	307
NC-02 Northern Mountains  3102	31-60 AVERAGE	7	10	94	344	656	895	908	791	709	402	178	34	5028
	STD DEV	9	9	37	68	79	122	156	121	142	64	47	22	304
	41-70 AVERAGE	8	11	102	350	652	919	945	814	703	381	171	36	5091
	STD DEV	9	9	36	68	76	113	127	117	138	76	55	22	248
	51-80 AVERAGE	6	8	91	364	638	901	979	825	682	374	169	39	5074
	STD DEV	3	5	34	70	80	114	136	112	120	69	56	23	248
	61-90 AVERAGE	5	7	92	359	606	894	1003	825	649	381	172	34	5028
	STD DEV	4	5	34	85	83	129	145	103	93	79	54	16	310
	71-00 AVERAGE	4	8	92	363	614	881	977	797	647	389	180	35	4988
	STD DEV	3	6	30	84	95	127	151	98	96	74	59	20	340
NC-03 Northern Piedmont  3103	31-00 AVERAGE	0	0	30	227	471	746	802	659	508	220	71	6	3740
	STD DEV	0	0	16	67	82	120	145	109	112	57	33	6	329
	31-60 AVERAGE	0	0	23	198	469	737	741	633	510	206	57	3	3577
	STD DEV	0	0	12	54	79	121	146	114	139	51	25	4	318
	41-70 AVERAGE	0	0	29	211	475	768	792	667	522	204	62	5	3735
	STD DEV	0	0	16	61	73	113	129	110	132	59	33	4	342
	51-80 AVERAGE	0	0	31	238	483	759	832	689	526	214	73	8	3853
	STD DEV	0	0	17	66	72	112	131	116	110	59	35	6	282
	61-90 AVERAGE	0	0	36	248	464	758	870	696	509	232	82	8	3903
	STD DEV	0	0	17	76	81	121	131	106	86	62	32	6	280
	71-00 AVERAGE	0	0	35	251	470	741	836	661	501	230	83	8	3816
	STD DEV	0	1	15	73	90	123	138	104	87	60	33	7	304



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

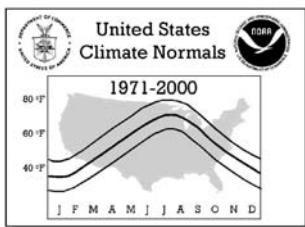
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

North Carolina – North Dakota

Page 44

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NC-04 Central Piedmont 	31-00 AVERAGE	0	0	24	205	459	727	781	636	484	205	60	5	3586
	STD DEV	0	0	13	61	82	120	143	106	108	56	29	5	311
	31-60 AVERAGE	0	0	19	183	460	723	727	613	494	193	49	3	3464
	STD DEV	0	0	11	52	80	122	147	109	131	51	24	3	295
	41-70 AVERAGE	0	0	24	197	467	751	773	645	503	189	53	4	3607
	STD DEV	0	0	15	58	72	113	126	108	126	57	30	4	313
	51-80 AVERAGE	0	0	25	218	469	737	806	666	500	199	62	7	3689
	STD DEV	0	0	14	60	75	111	132	114	110	54	31	5	279
	61-90 AVERAGE	0	0	28	223	450	733	842	670	477	215	68	7	3713
	STD DEV	0	0	15	71	82	120	134	106	86	59	28	5	295
3104 NC-05 Southern Piedmont 	71-00 AVERAGE	0	0	26	223	454	717	809	637	467	214	68	6	3620
	STD DEV	0	0	11	68	90	122	138	101	84	57	30	6	304
	31-00 AVERAGE	0	0	16	177	422	686	737	592	443	174	46	3	3297
	STD DEV	0	0	10	58	80	119	141	105	104	52	25	4	305
	31-60 AVERAGE	0	0	12	156	422	680	682	570	452	164	36	1	3175
	STD DEV	0	0	7	48	75	121	146	114	128	45	19	2	299
	41-70 AVERAGE	0	0	15	168	425	703	725	597	459	157	39	3	3291
	STD DEV	0	0	10	54	71	115	128	109	121	52	24	3	311
	51-80 AVERAGE	0	0	16	188	430	694	761	619	458	166	48	4	3385
	STD DEV	0	0	11	57	74	113	131	110	105	49	27	4	272
3105 NC-06 Southern Coastal Plain 	61-90 AVERAGE	0	0	18	193	414	693	796	624	437	182	54	4	3416
	STD DEV	0	0	11	68	80	119	132	101	81	56	25	4	283
	71-00 AVERAGE	0	0	18	194	421	679	767	592	430	184	55	4	3344
	STD DEV	0	0	9	64	89	121	135	96	81	54	27	4	295
	31-00 AVERAGE	0	0	9	140	352	600	652	527	390	142	29	1	2841
	STD DEV	0	0	6	52	80	119	142	107	98	45	16	2	296
	31-60 AVERAGE	0	0	7	125	357	598	602	509	397	134	24	1	2754
	STD DEV	0	0	4	45	75	125	148	112	120	38	14	1	281
	41-70 AVERAGE	0	0	9	132	363	625	650	537	405	132	25	1	2879
	STD DEV	0	0	7	48	67	113	126	110	114	44	16	2	289
3106 NC-07 Central Coastal Plain 	51-80 AVERAGE	0	0	9	148	365	609	674	553	402	136	29	2	2928
	STD DEV	0	0	7	51	70	113	131	114	100	42	17	2	277
	61-90 AVERAGE	0	0	11	152	344	604	708	557	387	150	32	2	2946
	STD DEV	0	0	8	61	83	120	136	108	78	49	15	2	303
	71-00 AVERAGE	0	0	9	153	339	591	675	526	378	147	32	2	2851
	STD DEV	0	0	5	59	90	119	137	102	78	50	17	2	306
	31-00 AVERAGE	0	0	9	138	357	615	678	559	419	160	32	1	2968
	STD DEV	0	0	6	50	79	120	142	108	102	47	18	2	308
	31-60 AVERAGE	0	0	7	126	365	620	638	546	427	154	27	1	2912
	STD DEV	0	0	5	45	73	123	149	110	126	44	14	1	303
3107 NC-08 Northern Coastal Plain 	41-70 AVERAGE	0	0	9	130	369	645	683	571	437	153	30	1	3028
	STD DEV	0	0	7	46	68	112	120	104	119	45	19	2	290
	51-80 AVERAGE	0	0	9	144	367	621	702	583	432	154	34	2	3048
	STD DEV	0	0	7	50	72	116	129	115	102	45	19	2	285
	61-90 AVERAGE	0	0	11	148	346	615	729	585	417	168	37	2	3058
	STD DEV	0	0	8	59	84	121	137	112	83	50	17	2	317
	71-00 AVERAGE	0	0	9	148	342	598	694	553	405	162	36	2	2947
	STD DEV	0	0	5	57	88	122	140	109	79	51	18	2	320
	31-00 AVERAGE	0	0	11	154	382	644	715	600	461	196	49	3	3214
	STD DEV	0	0	8	52	82	121	142	107	104	53	24	4	301
3108 ND_01 Northwest 	31-60 AVERAGE	0	0	10	146	393	656	678	586	468	189	41	2	3167
	STD DEV	0	0	7	47	74	125	154	110	129	53	19	2	293
	41-70 AVERAGE	0	0	12	147	393	677	719	609	476	185	44	3	3265
	STD DEV	0	0	9	49	68	115	123	99	121	50	26	4	290
	51-80 AVERAGE	0	0	12	161	394	653	740	625	475	190	52	5	3305
	STD DEV	0	0	9	51	74	118	123	113	101	54	26	4	267
	61-90 AVERAGE	0	0	13	162	372	642	765	627	460	207	55	4	3308
	STD DEV	0	0	9	62	84	123	131	110	85	54	24	4	302
	71-00 AVERAGE	0	0	11	160	365	619	730	594	448	196	53	4	3180
	STD DEV	0	0	6	60	93	122	136	108	78	56	23	4	310
3201 ND_01 Northwest 	31-00 AVERAGE	56	86	320	670	1183	1616	1821	1471	1269	741	388	162	9784
	STD DEV	32	41	88	103	167	211	261	232	202	127	96	58	706
	31-60 AVERAGE	50	85	310	658	1187	1584	1830	1537	1334	755	392	176	9899
	STD DEV	26	29	74	120	183	199	277	241	190	128	105	58	705
	41-70 AVERAGE	58	88	330	646	1174	1623	1850	1517	1345	757	423	183	9994
	STD DEV	25	36	93	113	170	208	256	157	220	129	85	56	585
	51-80 AVERAGE	59	93	330	659	1172	1617	1888	1489	1314	761	399	160	9941
	STD DEV	32	47	94	110	157	206	209	183	208	136	93	50	566
	61-90 AVERAGE	54	92	335	674	1170	1663	1814	1457	1232	732	388	149	9761
	STD DEV	29	51	101	94	149	205	269	201	204	135	99	55	697
	71-00 AVERAGE	63	87	327	693	1190	1628	1789	1395	1194	715	366	147	9593
	STD DEV	38	50	82	67	165	226	256	231	179	131	94	53	738



Section 3:

Heating Degree Days

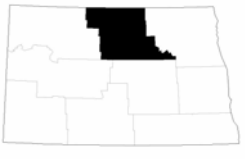
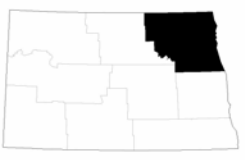
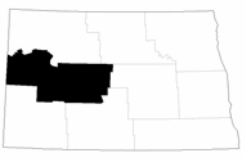
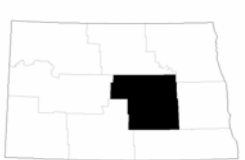
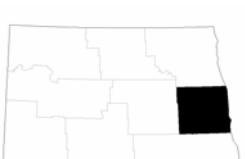
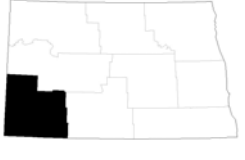
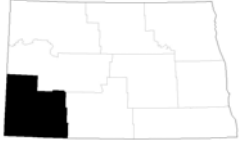
Divisional Normals, 1971-2000 (and previous periods)

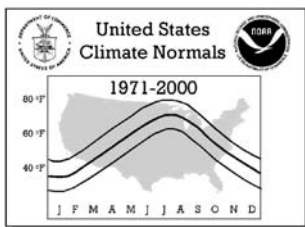
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

North Dakota

Page 45

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ND-02 North Central 	31-00 AVERAGE	56	88	321	686	1223	1694	1904	1551	1326	764	390	155	10156
	STD DEV	31	41	82	104	163	204	248	225	200	127	99	56	697
	31-60 AVERAGE	49	86	311	677	1238	1668	1915	1616	1380	779	396	168	10283
	STD DEV	25	32	74	119	172	198	259	236	187	123	105	53	691
	41-70 AVERAGE	57	90	334	661	1218	1703	1934	1604	1392	782	431	172	10378
	STD DEV	25	38	85	114	157	197	236	153	211	123	87	55	560
	51-80 AVERAGE	58	94	335	673	1206	1699	1973	1572	1373	779	401	152	10316
	STD DEV	30	46	86	112	146	192	196	171	205	135	96	50	535
	61-90 AVERAGE	54	93	338	687	1201	1734	1895	1540	1300	751	390	144	10128
	STD DEV	27	51	90	98	148	193	258	192	208	132	103	57	678
ND-03 Northeast 	71-00 AVERAGE	62	90	327	706	1220	1703	1868	1472	1264	738	363	143	9955
	STD DEV	37	49	75	74	168	219	250	221	192	138	96	54	737
	31-00 AVERAGE	49	81	308	679	1228	1727	1943	1587	1347	777	387	145	10259
	STD DEV	28	39	78	105	155	199	228	217	191	132	102	55	677
	31-60 AVERAGE	44	77	304	675	1241	1710	1948	1643	1396	796	404	159	10395
	STD DEV	23	29	75	122	161	190	233	221	180	129	101	51	640
	41-70 AVERAGE	51	82	320	653	1214	1736	1964	1634	1396	794	431	161	10436
	STD DEV	23	35	84	113	142	180	211	155	202	131	89	56	547
	51-80 AVERAGE	51	89	319	663	1210	1735	2010	1610	1390	789	398	143	10408
	STD DEV	27	45	84	115	137	188	183	174	194	139	102	53	552
ND-04 West Central 	61-90 AVERAGE	48	88	317	674	1207	1762	1942	1582	1328	760	381	136	10225
	STD DEV	26	48	84	96	141	189	239	193	197	132	110	57	680
	71-00 AVERAGE	54	85	309	695	1230	1730	1911	1513	1288	743	352	130	10040
	STD DEV	33	46	69	75	164	221	235	217	182	141	102	52	723
	31-00 AVERAGE	48	70	288	636	1136	1555	1749	1414	1216	714	367	149	9341
	STD DEV	30	34	83	100	158	201	262	230	192	123	95	55	690
	31-60 AVERAGE	45	71	284	631	1147	1531	1764	1485	1284	724	373	161	9499
	STD DEV	26	27	73	114	167	188	275	243	178	124	106	57	683
	41-70 AVERAGE	51	72	303	615	1127	1561	1784	1462	1295	730	400	167	9567
	STD DEV	26	31	86	115	158	196	250	156	213	125	86	55	571
ND-05 Central 	51-80 AVERAGE	49	72	296	627	1124	1556	1822	1437	1266	734	376	146	9506
	STD DEV	29	38	87	111	147	199	208	181	200	129	86	48	542
	61-90 AVERAGE	43	71	296	632	1112	1595	1738	1397	1180	702	364	136	9267
	STD DEV	26	41	94	97	141	203	272	195	190	132	92	51	674
	71-00 AVERAGE	52	69	287	654	1142	1563	1711	1335	1140	691	346	138	9125
	STD DEV	35	41	76	64	160	220	259	225	164	127	89	50	716
	31-00 AVERAGE	42	67	283	642	1175	1631	1833	1493	1262	733	370	140	9672
	STD DEV	26	33	78	99	153	196	246	226	187	125	98	53	681
	31-60 AVERAGE	40	66	277	639	1185	1610	1842	1558	1318	749	388	155	9829
	STD DEV	23	26	70	114	160	185	257	240	175	123	105	55	662
ND-06 East Central 	41-70 AVERAGE	47	69	299	617	1159	1640	1859	1540	1324	748	411	159	9871
	STD DEV	23	30	84	108	142	187	231	147	207	122	87	54	543
	51-80 AVERAGE	44	71	293	630	1157	1636	1896	1512	1303	744	378	138	9802
	STD DEV	24	39	85	110	137	190	196	173	193	131	90	49	520
	61-90 AVERAGE	39	70	296	644	1155	1672	1832	1482	1235	718	363	130	9637
	STD DEV	22	41	88	93	137	192	254	189	193	131	98	52	656
	71-00 AVERAGE	45	67	281	657	1181	1635	1799	1416	1198	703	335	125	9442
	STD DEV	30	39	70	70	160	217	247	220	166	134	90	47	716
	31-00 AVERAGE	37	59	261	624	1166	1652	1864	1512	1260	719	343	116	9612
	STD DEV	24	31	72	102	150	193	234	214	182	121	95	48	646
ND-07 Southwest 	31-60 AVERAGE	32	53	248	612	1167	1627	1856	1555	1298	730	355	124	9657
	STD DEV	19	24	67	115	160	183	245	222	179	123	99	47	639
	41-70 AVERAGE	38	57	269	592	1137	1652	1874	1546	1299	725	377	127	9693
	STD DEV	19	27	78	108	136	178	223	148	204	123	85	49	548
	51-80 AVERAGE	38	61	267	608	1149	1661	1925	1535	1301	728	350	114	9739
	STD DEV	21	35	79	113	131	184	186	176	187	129	91	46	527
	61-90 AVERAGE	35	64	275	629	1157	1697	1875	1515	1246	708	340	112	9653
	STD DEV	20	37	78	97	134	186	241	193	187	124	97	49	630
	71-00 AVERAGE	42	64	267	647	1183	1662	1845	1455	1216	694	315	108	9497
	STD DEV	28	37	64	73	153	215	237	219	164	126	91	47	696
ND-07 Southwest 	31-00 AVERAGE	51	65	287	624	1091	1452	1617	1307	1148	696	374	156	8868
	STD DEV	33	34	87	95	155	195	258	225	177	114	93	57	632
	31-60 AVERAGE	44	62	272	611	1085	1406	1615	1369	1204	696	371	165	8899
	STD DEV	27	23	73	106	156	166	275	235	164	119	107	64	602
	41-70 AVERAGE	54	67	300	609	1081	1446	1641	1335	1215	711	400	177	9036
	STD DEV	26	28	91	113	152	185	251	155	199	126	85	57	522
	51-80 AVERAGE	55	72	301	621	1091	1458	1686	1321	1188	721	386	157	9056
	STD DEV	31	37	93	107	142	197	218	181	182	120	81	53	536
	61-90 AVERAGE	49	71	306	629	1085	1511	1625	1296	1120	692	377	146	8908
	STD DEV	27	42	97	94	143	202	265	194	174	121	86	50	649
3207	71-00 AVERAGE	57	68	293	646	1106	1476	1594	1242	1083	682	364	146	8756
	STD DEV	38	43	79	61	165	219	253	227	152	111	85	50	701



Section 3:

Heating Degree Days

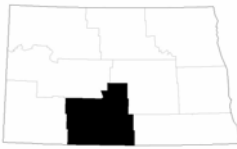
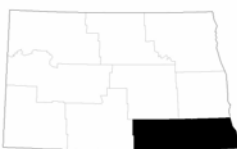





Divisional Normals, 1971-2000 (and previous periods)

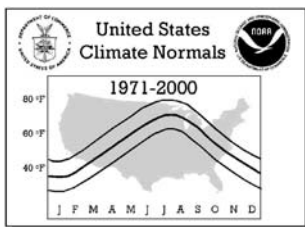
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

North Dakota – Ohio

Page 46

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ND-08 South Central 	31-00 AVERAGE	41	53	254	602	1106	1519	1711	1384	1178	682	341	130	9001
	STD DEV	27	30	77	97	153	199	260	228	181	118	91	51	649
	31-60 AVERAGE	34	47	233	582	1098	1476	1708	1441	1227	674	338	134	8991
	STD DEV	21	20	64	106	160	175	276	245	173	121	105	55	641
	41-70 AVERAGE	42	52	263	573	1088	1513	1731	1419	1239	685	364	144	9111
	STD DEV	21	26	84	110	150	192	248	157	208	125	88	53	562
	51-80 AVERAGE	43	57	266	596	1097	1526	1781	1401	1219	700	351	130	9165
	STD DEV	24	34	85	109	141	199	210	191	190	121	82	48	553
	61-90 AVERAGE	39	60	276	612	1098	1575	1711	1373	1152	681	345	125	9046
	STD DEV	22	36	86	95	139	203	267	196	182	122	85	49	653
ND-09 Southeast 	71-00 AVERAGE	47	58	265	633	1127	1542	1689	1319	1122	676	330	125	8933
	STD DEV	32	36	66	62	157	223	257	228	157	122	81	46	700
	31-00 AVERAGE	34	54	255	603	1119	1574	1773	1440	1199	685	336	113	9183
	STD DEV	23	28	73	95	143	189	234	215	178	115	92	47	623
	31-60 AVERAGE	31	50	244	591	1119	1548	1763	1490	1241	695	347	121	9238
	STD DEV	19	23	69	108	145	168	245	224	168	114	102	50	606
	41-70 AVERAGE	38	54	269	579	1098	1579	1792	1484	1252	699	369	127	9340
	STD DEV	19	26	78	105	132	174	214	141	201	113	85	49	470
	51-80 AVERAGE	35	56	263	590	1101	1581	1835	1461	1241	695	344	112	9315
	STD DEV	21	31	77	108	128	182	184	173	190	120	84	45	489
OH-01 Northwest 	61-90 AVERAGE	30	58	269	609	1106	1616	1782	1434	1178	673	333	107	9194
	STD DEV	18	33	77	92	131	194	239	192	184	120	89	44	608
	71-00 AVERAGE	36	56	256	626	1133	1586	1756	1380	1150	661	311	103	9054
	STD DEV	27	33	64	68	154	216	237	223	159	123	85	42	688
	31-00 AVERAGE	4	18	103	393	746	1111	1236	1051	879	506	229	37	6314
	STD DEV	4	12	41	88	96	150	172	137	135	87	75	20	404
	31-60 AVERAGE	3	14	92	373	758	1105	1178	1039	900	516	230	35	6244
	STD DEV	4	9	41	79	100	142	161	125	153	99	64	21	395
	41-70 AVERAGE	5	19	100	370	746	1124	1227	1053	896	494	235	36	6304
	STD DEV	5	12	41	86	86	142	151	102	140	94	78	20	330
OH-02 North Central 	51-80 AVERAGE	5	20	103	399	749	1117	1278	1082	896	496	231	39	6414
	STD DEV	4	12	44	96	89	133	161	137	123	82	76	20	344
	61-90 AVERAGE	5	22	110	416	731	1129	1297	1092	869	501	232	40	6443
	STD DEV	4	12	42	100	85	157	177	138	124	83	83	19	355
	71-00 AVERAGE	5	21	112	416	736	1106	1271	1048	850	498	225	39	6327
	STD DEV	4	13	39	94	99	166	176	158	125	81	77	21	452
	31-00 AVERAGE	5	15	98	383	724	1085	1212	1040	881	520	239	39	6241
	STD DEV	4	11	39	83	92	146	166	130	136	90	74	22	390
	31-60 AVERAGE	4	12	87	363	735	1080	1156	1024	902	532	238	36	6169
	STD DEV	4	10	37	74	95	140	162	120	150	101	63	22	377
OH-03 Northeast 	41-70 AVERAGE	6	16	96	364	728	1103	1210	1045	900	510	245	39	6262
	STD DEV	5	11	39	83	80	141	149	99	137	96	77	21	328
	51-80 AVERAGE	6	16	98	390	729	1092	1253	1070	898	509	241	42	6345
	STD DEV	4	10	44	89	86	132	150	130	125	86	74	23	328
	61-90 AVERAGE	6	17	105	403	709	1100	1272	1078	871	515	244	44	6363
	STD DEV	4	10	42	95	85	155	164	130	124	84	80	22	342
	71-00 AVERAGE	5	17	107	404	714	1078	1241	1037	853	509	237	42	6244
	STD DEV	4	11	36	89	97	159	167	149	131	84	76	24	432
	31-00 AVERAGE	10	22	115	399	725	1075	1207	1051	900	538	258	51	6351
	STD DEV	8	14	42	82	93	143	165	131	135	90	76	26	388
OH-04 West Central 	31-60 AVERAGE	8	18	103	381	740	1078	1157	1042	925	545	254	46	6298
	STD DEV	8	12	40	77	95	137	161	125	155	101	65	25	372
	41-70 AVERAGE	11	24	114	382	731	1100	1209	1063	919	526	265	51	6394
	STD DEV	8	15	42	85	79	137	149	105	141	97	81	24	331
	51-80 AVERAGE	12	24	117	406	726	1082	1250	1083	913	533	266	57	6469
	STD DEV	7	14	47	89	88	134	150	131	128	88	75	27	336
	61-90 AVERAGE	11	25	121	415	705	1083	1266	1084	881	538	264	58	6451
	STD DEV	7	14	45	93	85	152	163	132	122	84	81	26	360
	71-00 AVERAGE	11	23	124	420	712	1059	1230	1039	869	530	256	56	6327
	STD DEV	7	15	38	85	98	154	168	143	123	84	76	28	430
OH-04 West Central 	31-00 AVERAGE	6	19	102	389	732	1084	1204	1014	836	478	217	34	6116
	STD DEV	5	13	41	86	98	154	175	140	141	86	72	20	405
	31-60 AVERAGE	5	15	92	371	748	1078	1139	996	856	488	215	32	6035
	STD DEV	6	11	42	78	98	142	167	127	159	96	61	20	385
	41-70 AVERAGE	7	19	102	374	742	1104	1195	1021	855	468	219	34	6140
	STD DEV	6	13	42	86	83	145	148	112	147	94	75	18	351
	51-80 AVERAGE	7	20	103	402	743	1093	1253	1052	854	471	221	38	6255
	STD DEV	4	11	45	94	89	137	159	147	136	85	74	21	360
	61-90 AVERAGE	7	22	109	410	717	1103	1272	1059	823	474	222	38	6255
	STD DEV	5	12	44	99	91	164	173	146	130	83	80	19	372
3304	71-00 AVERAGE	6	21	109	408	716	1077	1242	1012	809	471	216	36	6123
	STD DEV	5	14	39	93	104	169	179	161	133	80	73	22	452



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

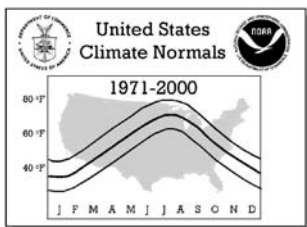
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Ohio

Page 47

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
OH-05 Central 	31-00 AVERAGE	4	13	92	364	703	1043	1158	973	798	449	195	27	5820
	STD DEV	4	10	38	83	93	153	178	137	135	84	66	17	396
	31-60 AVERAGE	3	11	83	346	716	1045	1094	952	818	456	191	24	5738
	STD DEV	5	10	36	75	93	147	175	126	152	96	56	16	372
	41-70 AVERAGE	4	14	92	349	712	1070	1153	978	816	436	194	26	5843
	STD DEV	5	11	38	83	77	149	154	113	140	92	68	15	336
	51-80 AVERAGE	4	13	92	375	710	1049	1203	1004	809	438	194	30	5920
	STD DEV	3	9	43	89	83	140	164	148	131	82	67	18	366
	61-90 AVERAGE	4	15	99	383	688	1056	1227	1015	781	448	201	31	5950
	STD DEV	3	10	42	97	87	162	173	143	126	79	72	17	371
OH-06 Central Hills 	71-00 AVERAGE	4	15	99	383	690	1029	1194	974	774	445	198	31	5837
	STD DEV	3	11	37	91	100	163	179	156	128	78	69	19	443
	31-00 AVERAGE	9	24	122	409	741	1089	1205	1029	863	511	243	51	6296
	STD DEV	7	15	46	87	94	150	176	134	136	84	74	26	406
	31-60 AVERAGE	7	18	107	385	753	1084	1141	1010	885	518	235	44	6188
	STD DEV	7	12	43	75	93	144	171	122	153	96	61	25	379
	41-70 AVERAGE	10	25	121	393	748	1114	1202	1037	885	504	247	50	6337
	STD DEV	7	15	45	86	80	145	153	107	138	92	78	23	331
	51-80 AVERAGE	11	26	125	423	749	1102	1256	1065	878	505	251	58	6449
	STD DEV	6	15	52	92	88	141	157	141	132	84	76	26	361
OH-07 Northeast Hills 	61-90 AVERAGE	11	28	131	431	725	1103	1275	1070	849	513	254	59	6450
	STD DEV	6	16	49	101	89	158	171	138	126	77	80	25	372
	71-00 AVERAGE	10	27	133	434	731	1082	1238	1027	836	504	246	55	6322
	STD DEV	7	16	42	94	102	160	178	152	129	78	76	28	446
	31-00 AVERAGE	8	21	115	407	726	1061	1177	1010	848	502	235	42	6150
	STD DEV	6	14	43	84	92	148	172	136	136	89	72	23	395
	31-60 AVERAGE	7	18	107	390	742	1069	1126	999	875	507	228	38	6106
	STD DEV	7	13	42	76	92	139	175	132	155	102	59	22	369
	41-70 AVERAGE	8	22	111	385	729	1087	1173	1017	865	485	233	40	6155
	STD DEV	7	14	41	83	78	143	154	115	142	97	76	20	314
OH-08 Southwest 	51-80 AVERAGE	8	20	110	410	726	1067	1217	1038	855	491	237	47	6226
	STD DEV	5	13	47	87	86	139	154	138	128	85	75	24	343
	61-90 AVERAGE	8	22	117	421	710	1070	1240	1046	830	506	241	49	6258
	STD DEV	5	13	45	97	85	156	166	135	120	80	78	23	357
	71-00 AVERAGE	8	22	123	427	714	1042	1203	1000	818	498	238	47	6140
	STD DEV	6	14	41	90	100	161	174	147	124	80	74	26	458
	31-00 AVERAGE	2	8	71	326	654	985	1093	909	731	392	167	20	5356
	STD DEV	3	6	32	83	94	151	175	138	133	81	59	13	383
	31-60 AVERAGE	2	6	62	304	666	981	1031	888	750	395	161	17	5263
	STD DEV	4	6	31	71	92	143	171	134	154	91	50	12	382
OH-09 South Central 	41-70 AVERAGE	2	7	67	303	656	998	1074	905	741	367	158	17	5295
	STD DEV	4	7	30	77	76	143	147	120	144	85	59	11	342
	51-80 AVERAGE	2	7	69	332	656	979	1126	933	735	372	163	21	5394
	STD DEV	2	5	37	90	84	133	169	153	130	81	61	15	396
	61-90 AVERAGE	3	9	77	347	637	996	1159	950	714	390	173	23	5475
	STD DEV	3	6	35	98	88	163	175	141	119	78	66	14	361
	71-00 AVERAGE	3	9	81	351	644	981	1135	914	713	397	175	23	5425
	STD DEV	3	7	33	92	102	166	178	152	118	73	63	15	410
	31-00 AVERAGE	2	8	72	327	632	941	1037	863	688	364	153	20	5106
	STD DEV	3	7	32	81	89	147	173	133	130	78	57	14	363
OH-10 Southeast 	31-60 AVERAGE	1	6	60	303	643	937	974	838	704	356	137	15	4974
	STD DEV	3	6	28	71	86	139	177	135	150	81	44	12	344
	41-70 AVERAGE	2	8	70	308	642	962	1029	866	702	343	143	18	5092
	STD DEV	3	7	31	79	73	139	155	127	140	82	54	12	334
	51-80 AVERAGE	2	7	70	337	638	940	1073	890	692	353	151	23	5177
	STD DEV	2	5	35	85	78	136	161	147	127	78	56	16	349
	61-90 AVERAGE	2	9	78	345	613	952	1104	904	669	368	161	24	5227
	STD DEV	2	6	34	92	83	160	162	132	114	77	60	14	329
	71-00 AVERAGE	2	10	82	352	621	933	1072	866	671	373	167	25	5174
	STD DEV	3	8	30	88	98	159	167	137	118	76	62	17	379
OH-10 Southeast 	31-00 AVERAGE	6	15	93	371	689	1012	1114	944	773	436	196	35	5683
	STD DEV	6	11	38	85	91	150	179	136	134	80	65	20	413
	31-60 AVERAGE	5	11	79	342	696	1010	1046	917	787	427	179	27	5526
	STD DEV	6	10	34	76	91	145	180	128	158	87	51	18	378
	41-70 AVERAGE	7	16	95	358	701	1045	1117	954	795	422	192	33	5735
	STD DEV	6	11	39	87	76	146	164	121	146	87	67	18	382
	51-80 AVERAGE	8	16	98	393	704	1027	1169	986	792	436	203	41	5873
	STD DEV	5	10	43	87	80	144	161	145	132	78	67	22	371
	61-90 AVERAGE	8	18	103	396	677	1023	1191	990	760	448	209	43	5866
	STD DEV	5	11	41	96	87	160	165	138	118	77	68	19	374
3310	71-00 AVERAGE	7	17	102	394	679	996	1146	943	754	441	208	41	5727
	STD DEV	5	11	33	91	100	156	170	146	119	76	67	21	422



Section 3:

Heating Degree Days



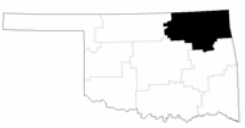
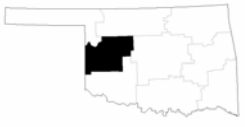
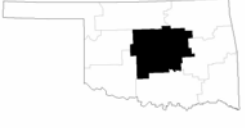
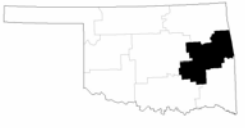
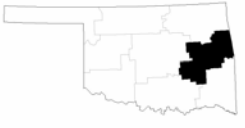
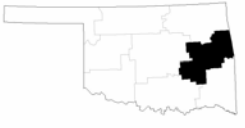
Divisional Normals, 1971-2000 (and previous periods)

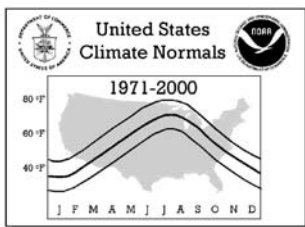
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Oklahoma

Page 48

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
OK-01 Panhandle 	31-00 AVERAGE	0	2	39	235	627	913	982	759	628	312	110	14	4622
	STD DEV	1	2	23	61	92	109	142	125	123	81	46	11	314
	31-60 AVERAGE	0	1	34	224	634	891	975	769	659	325	117	14	4644
	STD DEV	1	2	20	57	81	102	149	123	128	74	45	11	335
	41-70 AVERAGE	0	1	38	229	618	902	973	762	677	307	106	14	4629
	STD DEV	1	2	19	69	89	95	126	110	135	82	42	10	315
	51-80 AVERAGE	0	2	40	232	631	898	1000	766	641	298	105	12	4625
	STD DEV	0	3	26	74	87	93	149	128	134	76	47	8	300
	61-90 AVERAGE	0	2	44	245	614	936	1001	777	609	291	107	14	4640
	STD DEV	0	3	24	71	88	119	149	122	121	86	46	11	300
OK-02 North Central 	71-00 AVERAGE	0	2	43	247	632	931	991	747	585	309	113	15	4615
	STD DEV	0	3	26	52	103	117	139	138	87	89	46	12	315
	31-00 AVERAGE	0	2	29	180	553	864	955	722	559	243	69	5	4181
	STD DEV	0	3	20	55	92	122	151	137	125	71	33	4	329
	31-60 AVERAGE	0	1	25	166	553	837	927	719	580	245	71	4	4126
	STD DEV	1	2	17	57	87	96	156	127	138	68	32	4	341
	41-70 AVERAGE	0	2	29	175	542	860	945	717	599	235	66	4	4174
	STD DEV	1	3	16	58	86	104	117	106	138	74	33	3	279
	51-80 AVERAGE	0	2	30	181	555	861	982	737	574	233	67	4	4225
	STD DEV	0	2	22	62	89	99	153	147	136	70	34	3	303
OK-03 Northeast 	61-90 AVERAGE	0	2	32	191	547	900	990	751	546	233	67	5	4264
	STD DEV	0	2	22	57	86	137	159	146	119	77	32	4	315
	71-00 AVERAGE	0	2	32	195	562	884	977	723	530	250	73	5	4236
	STD DEV	0	3	23	46	98	141	153	165	92	76	33	5	348
	31-00 AVERAGE	0	3	34	177	517	817	925	694	526	213	58	4	3969
	STD DEV	1	3	22	57	97	128	145	128	122	64	28	4	314
	31-60 AVERAGE	0	2	28	164	529	793	896	691	549	219	58	3	3933
	STD DEV	1	3	19	58	90	107	140	123	137	64	26	3	335
	41-70 AVERAGE	0	3	33	173	514	817	921	695	571	206	56	4	3992
	STD DEV	1	3	18	61	85	110	107	100	135	70	28	3	269
OK-04 West Central 	51-80 AVERAGE	0	3	33	182	519	815	957	714	545	205	56	4	4034
	STD DEV	1	3	25	63	96	102	149	134	132	66	30	4	272
	61-90 AVERAGE	0	3	36	188	497	846	965	726	511	199	59	5	4034
	STD DEV	1	3	25	58	91	142	159	131	114	66	31	4	276
	71-00 AVERAGE	0	3	38	188	512	832	943	691	491	215	61	5	3979
	STD DEV	0	4	26	52	107	147	154	151	86	65	30	4	325
	31-00 AVERAGE	0	1	28	174	538	836	912	688	536	233	63	5	4014
	STD DEV	0	2	18	53	89	113	145	131	118	70	31	4	325
	31-60 AVERAGE	0	1	23	160	536	812	886	687	553	233	65	4	3958
	STD DEV	1	2	15	55	84	92	150	125	132	67	32	3	345
OK-05 Central 	41-70 AVERAGE	0	1	27	172	530	829	910	693	579	224	61	5	4031
	STD DEV	1	2	14	56	85	95	122	108	132	71	32	3	287
	51-80 AVERAGE	0	1	28	175	543	830	939	706	551	224	62	4	4064
	STD DEV	0	2	21	60	88	95	146	137	129	69	34	3	299
	61-90 AVERAGE	0	1	31	185	533	868	948	716	528	225	62	5	4104
	STD DEV	0	2	21	55	83	127	150	133	112	75	30	5	296
	71-00 AVERAGE	0	2	31	186	548	855	930	684	510	242	66	6	4061
	STD DEV	0	2	22	44	96	128	143	151	84	75	31	5	335
	31-00 AVERAGE	0	1	25	150	492	786	881	656	496	196	45	2	3729
	STD DEV	0	2	17	50	91	117	142	127	117	60	23	2	292
OK-06 East Central 	31-60 AVERAGE	0	1	21	141	503	770	858	657	520	202	48	2	3723
	STD DEV	0	1	15	53	88	94	145	119	129	60	24	2	306
	41-70 AVERAGE	0	1	24	149	486	785	883	661	539	190	45	2	3764
	STD DEV	0	2	13	53	86	101	112	100	130	64	23	2	241
	51-80 AVERAGE	0	1	25	154	494	782	909	673	509	188	44	2	3781
	STD DEV	0	2	19	57	93	94	143	134	130	62	25	2	258
	61-90 AVERAGE	0	1	27	158	476	812	916	684	480	183	43	2	3782
	STD DEV	0	2	19	51	85	135	151	132	112	64	22	2	270
	71-00 AVERAGE	0	1	27	157	490	797	892	649	462	198	45	3	3720
	STD DEV	0	2	20	46	96	137	145	151	84	62	22	3	313
OK-06 East Central 	31-00 AVERAGE	0	2	24	149	463	744	840	628	466	176	41	2	3534
	STD DEV	0	3	17	52	93	120	139	120	115	55	23	2	282
	31-60 AVERAGE	0	1	19	140	479	726	810	624	489	179	41	2	3509
	STD DEV	0	2	13	54	86	100	135	113	128	54	22	2	301
	41-70 AVERAGE	0	2	22	145	461	745	836	630	506	165	37	2	3551
	STD DEV	0	2	13	53	82	102	104	97	129	58	21	2	236
	51-80 AVERAGE	0	2	23	152	463	739	869	644	481	168	39	2	3581
	STD DEV	0	2	20	58	95	93	144	127	128	56	24	2	247
	61-90 AVERAGE	0	2	26	156	439	767	878	657	449	164	40	2	3582
	STD DEV	0	2	20	54	86	133	151	126	110	57	24	2	257
OK-06 East Central 	71-00 AVERAGE	0	2	28	158	458	758	860	623	435	181	44	3	3548
	STD DEV	0	3	20	49	100	140	146	141	82	57	24	3	291



Section 3:

Heating Degree Days

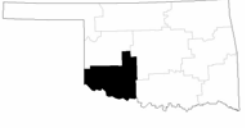
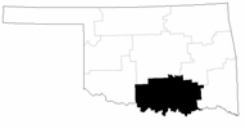




Divisional Normals, 1971-2000 (and previous periods)

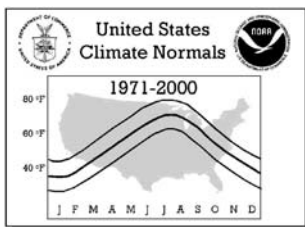
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Oklahoma – Oregon

Page 49

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
OK-07 Southwest  3407	31-00 AVERAGE	0	0	16	139	473	764	840	620	462	174	38	1	3527
	STD DEV	0	1	12	48	85	105	133	119	110	57	22	2	282
	31-60 AVERAGE	0	0	13	130	480	745	815	618	483	175	41	1	3501
	STD DEV	0	0	10	50	79	83	138	114	123	54	24	1	302
	41-70 AVERAGE	0	0	15	138	465	753	840	625	501	163	36	1	3538
	STD DEV	0	1	9	50	81	91	119	102	126	57	20	1	258
	51-80 AVERAGE	0	0	16	142	476	755	863	633	470	162	36	1	3555
	STD DEV	0	1	15	55	88	89	136	126	124	58	22	1	265
	61-90 AVERAGE	0	0	18	146	460	791	875	646	448	163	35	2	3586
	STD DEV	0	1	14	50	80	123	137	122	105	61	20	2	256
	71-00 AVERAGE	0	1	19	146	477	783	854	615	432	181	39	2	3547
	STD DEV	0	1	15	44	92	120	129	136	72	61	22	2	291
	OK-08													
	South Central													
 3408	31-00 AVERAGE	0	0	14	120	422	693	786	574	418	146	27	1	3201
	STD DEV	0	1	12	45	88	111	133	117	107	49	16	1	271
	31-60 AVERAGE	0	0	11	111	430	672	757	569	436	144	27	0	3157
	STD DEV	0	0	9	46	85	89	135	108	117	46	16	1	284
	41-70 AVERAGE	0	0	13	117	410	684	783	575	453	135	24	0	3195
	STD DEV	0	0	9	45	82	95	110	96	119	49	13	1	228
	51-80 AVERAGE	0	0	15	124	426	686	811	589	430	139	26	1	3246
	STD DEV	0	1	15	51	93	91	138	126	119	49	16	1	245
	61-90 AVERAGE	0	0	17	129	407	719	826	605	409	140	26	1	3277
	STD DEV	0	1	14	47	86	126	138	122	106	54	16	1	250
	71-00 AVERAGE	0	0	17	127	425	712	804	570	391	154	29	1	3231
	STD DEV	0	1	15	43	94	128	133	136	76	52	17	1	286
	OK-09													
	Southeast													
 3409	31-00 AVERAGE	0	1	16	135	427	684	765	571	420	151	32	1	3204
	STD DEV	0	2	13	49	89	114	130	113	107	50	19	2	270
	31-60 AVERAGE	0	0	11	120	430	659	724	557	430	144	29	1	3106
	STD DEV	0	1	7	48	82	97	122	111	117	44	19	1	262
	41-70 AVERAGE	0	1	15	131	421	681	760	576	455	137	27	1	3206
	STD DEV	0	2	10	49	79	95	106	101	118	48	16	1	231
	51-80 AVERAGE	0	1	17	143	437	686	796	596	441	147	32	1	3297
	STD DEV	0	2	16	54	92	89	141	123	118	48	21	2	253
	61-90 AVERAGE	0	1	20	147	414	712	813	607	417	148	34	2	3315
	STD DEV	0	2	16	50	86	122	139	113	106	52	20	2	244
	71-00 AVERAGE	0	1	20	148	433	702	789	571	397	164	36	2	3263
	STD DEV	0	2	15	46	98	132	136	123	77	54	21	2	282
	OR-01													
	Coastal Area													
 3501	31-00 AVERAGE	139	128	180	342	522	651	681	552	568	473	358	224	4816
	STD DEV	34	34	41	46	65	72	95	75	68	58	53	40	330
	31-60 AVERAGE	145	139	188	339	522	637	701	573	581	465	351	224	4863
	STD DEV	39	32	36	50	61	70	114	74	73	58	56	44	388
	41-70 AVERAGE	145	139	184	348	518	651	706	558	592	489	365	226	4921
	STD DEV	37	34	40	49	58	66	101	78	57	56	48	46	314
	51-80 AVERAGE	148	139	180	344	522	652	694	550	593	499	376	232	4929
	STD DEV	33	38	45	42	57	70	80	75	58	52	43	49	280
	61-90 AVERAGE	141	125	179	346	523	670	678	545	565	489	372	224	4855
	STD DEV	27	35	44	48	63	77	76	75	62	59	37	40	237
	71-00 AVERAGE	130	114	171	345	526	661	658	539	550	468	356	225	4744
	STD DEV	30	29	41	44	73	77	73	70	67	57	51	36	301
	OR-02													
	Willamette Valley													
 3502	31-00 AVERAGE	65	65	148	378	612	772	808	635	603	456	306	157	5006
	STD DEV	29	28	48	58	79	78	116	83	76	69	65	48	335
	31-60 AVERAGE	68	73	152	374	624	759	838	662	625	446	297	163	5079
	STD DEV	30	25	45	66	75	76	137	84	83	70	67	48	377
	41-70 AVERAGE	68	75	154	387	610	766	836	635	634	474	317	166	5120
	STD DEV	31	28	46	63	68	67	129	81	64	65	63	50	304
	51-80 AVERAGE	65	73	151	378	613	762	815	626	631	483	325	164	5086
	STD DEV	30	31	49	51	70	74	105	75	64	65	62	54	261
	61-90 AVERAGE	67	64	156	383	608	790	799	622	595	474	325	153	5035
	STD DEV	26	30	51	55	74	88	95	75	67	71	50	49	250
	71-00 AVERAGE	61	57	142	379	608	785	780	620	578	452	306	156	4922
	STD DEV	29	28	49	53	88	87	91	76	71	66	65	48	316
	OR-03													
	Southwestern Valleys													
 3503	31-00 AVERAGE	40	44	141	384	658	832	853	667	634	477	307	140	5176
	STD DEV	24	23	51	67	76	75	98	83	80	84	72	48	320
	31-60 AVERAGE	37	46	136	383	664	824	879	694	644	460	295	147	5209
	STD DEV	21	25	45	70	77	73	114	82	89	80	77	52	354
	41-70 AVERAGE	40	50	139	388	649	830	874	671	658	490	310	149	5248
	STD DEV	24	25	50	72	66	67	93	82	66	86	70	54	263
	51-80 AVERAGE	39	51	141	386	658	838	862	661	661	503	318	141	5258
	STD DEV	23	25	54	65	63	78	79	79	71	87	70	58	264
	61-90 AVERAGE	43	45	154	386	662	848	849	657	638	499	321	132	5233
	STD DEV	24	22	57	71	63	80	80	76	71	91	56	46	261
	71-00 AVERAGE	42	41	144	384	658	834	822	647	619	478	313	139	5119
	STD DEV	27	22	55	68	81	83	77	77	79	81	70	45	323



Section 3:

Heating Degree Days

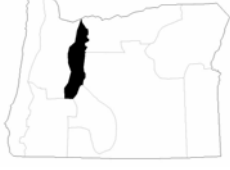
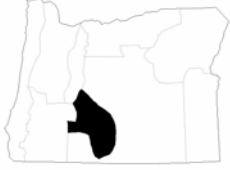
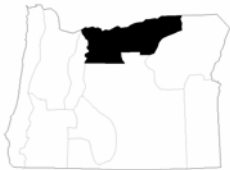

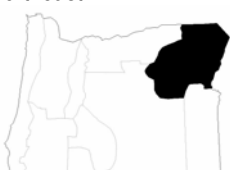


Divisional Normals, 1971-2000 (and previous periods)

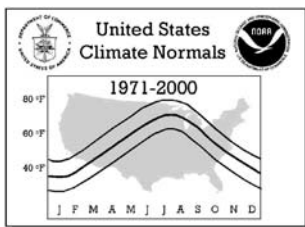
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Oregon

Page 50

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
OR-04 Northern Cascades 	31-00 AVERAGE	105	115	229	484	750	926	962	779	762	583	420	240	6355
	STD DEV	42	44	70	91	83	86	109	92	90	99	89	68	503
	31-60 AVERAGE	96	115	212	461	743	906	981	800	775	546	390	236	6260
	STD DEV	38	44	60	107	81	91	133	93	106	105	99	75	653
	41-70 AVERAGE	108	128	232	503	744	923	985	780	794	608	436	250	6490
	STD DEV	41	42	68	93	73	85	117	94	85	84	78	68	480
	51-80 AVERAGE	106	128	234	490	747	916	974	765	792	623	444	243	6461
	STD DEV	39	47	72	82	74	86	93	84	78	80	78	68	396
	61-90 AVERAGE	115	121	256	503	756	943	955	769	761	617	450	239	6484
	STD DEV	40	46	78	80	79	86	88	87	75	91	63	66	343
OR-05 High Plateau 	71-00 AVERAGE	112	115	241	500	768	946	946	776	749	602	439	253	6447
	STD DEV	45	44	74	75	91	83	87	89	82	82	78	61	360
	31-00 AVERAGE	173	203	371	642	926	1136	1181	967	961	766	575	356	8256
	STD DEV	58	62	83	80	93	101	133	109	95	97	89	78	477
	31-60 AVERAGE	191	235	394	655	932	1133	1238	1015	1001	776	594	397	8561
	STD DEV	52	54	73	82	90	107	150	98	89	83	91	69	422
	41-70 AVERAGE	180	229	380	655	913	1129	1206	968	997	786	589	379	8410
	STD DEV	51	61	81	83	79	100	128	97	67	89	86	79	365
	51-80 AVERAGE	163	213	366	643	916	1123	1174	943	986	793	583	349	8249
	STD DEV	50	64	82	74	75	103	106	89	85	92	85	79	320
OR-06 North Central 	61-90 AVERAGE	163	186	369	634	921	1144	1151	937	945	767	570	321	8107
	STD DEV	52	58	89	82	78	105	99	96	89	113	69	72	351
	71-00 AVERAGE	155	170	346	625	930	1141	1135	934	915	741	554	323	7968
	STD DEV	60	53	83	77	106	101	108	105	92	102	89	74	407
	31-00 AVERAGE	28	43	158	433	743	950	1011	776	675	474	282	120	5693
	STD DEV	19	24	56	67	105	113	184	112	71	78	71	44	378
	31-60 AVERAGE	24	45	147	416	754	928	1052	808	682	455	265	121	5697
	STD DEV	15	19	43	72	97	105	211	119	80	70	77	43	398
	41-70 AVERAGE	27	49	156	438	740	936	1046	760	699	483	285	124	5744
	STD DEV	17	26	53	74	86	88	199	93	65	74	72	45	339
OR-07 South Central 	51-80 AVERAGE	27	51	165	443	752	933	1028	754	704	506	299	122	5785
	STD DEV	16	29	59	65	91	96	183	87	64	78	69	50	303
	61-90 AVERAGE	31	46	179	449	738	977	999	757	678	498	303	115	5769
	STD DEV	18	29	66	67	109	131	161	93	66	86	55	47	335
	71-00 AVERAGE	30	39	165	445	739	972	981	766	660	476	290	123	5685
	STD DEV	22	23	62	58	122	130	159	106	68	81	66	47	394
	31-00 AVERAGE	73	99	260	541	846	1060	1112	879	828	626	427	224	6977
	STD DEV	36	39	70	75	98	107	148	105	86	93	82	63	389
	31-60 AVERAGE	73	112	263	538	845	1038	1145	911	844	609	423	240	7040
	STD DEV	29	37	58	77	94	108	175	98	90	80	89	61	404
OR-08 Northeast 	41-70 AVERAGE	78	115	265	549	833	1049	1136	877	864	643	439	243	7092
	STD DEV	32	40	73	81	79	94	151	97	68	88	81	63	303
	51-80 AVERAGE	72	110	261	547	843	1051	1116	861	863	661	443	225	7056
	STD DEV	31	44	76	70	77	101	131	91	80	90	80	69	271
	61-90 AVERAGE	73	94	271	545	848	1087	1107	862	830	647	437	206	7007
	STD DEV	34	40	84	81	88	114	115	98	84	108	66	64	350
	71-00 AVERAGE	72	85	255	542	855	1081	1085	861	802	623	425	212	6897
	STD DEV	42	37	75	75	114	114	128	106	83	96	79	64	411
	31-00 AVERAGE	65	94	273	566	885	1126	1195	943	855	617	413	219	7250
	STD DEV	35	38	73	75	103	124	164	133	93	85	79	61	434
OR-09 Southeast 	31-60 AVERAGE	59	102	267	551	891	1102	1227	989	888	612	408	234	7331
	STD DEV	23	31	59	78	107	121	190	133	94	74	95	65	457
	41-70 AVERAGE	66	104	274	570	879	1116	1220	943	897	639	427	238	7371
	STD DEV	25	37	75	83	81	92	171	116	79	78	81	64	329
	51-80 AVERAGE	61	102	274	574	888	1117	1200	920	886	648	426	218	7313
	STD DEV	22	42	81	68	79	100	149	113	85	84	72	61	306
	61-90 AVERAGE	69	92	289	578	878	1154	1193	919	844	629	424	203	7270
	STD DEV	31	43	87	79	90	136	138	122	89	99	55	58	400
	71-00 AVERAGE	71	86	275	576	889	1150	1173	916	814	603	411	208	7171
	STD DEV	45	41	76	69	113	139	149	125	87	87	70	58	460
OR-09 Southeast 	31-00 AVERAGE	13	31	183	482	848	1103	1176	890	759	516	288	120	6409
	STD DEV	14	18	61	74	98	133	175	132	82	86	75	47	415
	31-60 AVERAGE	10	31	176	461	856	1069	1203	924	773	497	276	125	6402
	STD DEV	5	14	46	74	93	128	206	137	86	72	86	48	425
	41-70 AVERAGE	11	30	175	474	823	1063	1181	873	777	514	282	126	6330
	STD DEV	6	16	61	87	72	91	183	114	74	84	76	48	280
	51-80 AVERAGE	11	33	181	488	837	1081	1159	865	783	538	295	119	6390
	STD DEV	6	20	63	66	76	98	164	110	75	85	73	50	280
	61-90 AVERAGE	13	32	196	496	835	1136	1181	875	759	532	300	108	6463
	STD DEV	10	22	74	77	88	147	145	123	80	100	58	43	426
3509	71-00 AVERAGE	17	31	188	496	858	1144	1163	877	740	520	300	117	6452
	STD DEV	20	22	65	67	110	145	154	124	80	93	69	49	451



Section 3:

Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods)

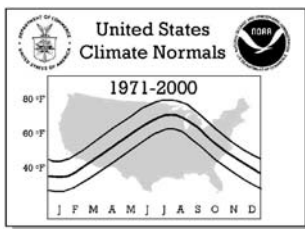
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Pennsylvania

Page 51

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
3601 PA-01 Pocono Mountains	31-00 AVERAGE	19	41	177	489	785	1149	1270	1111	963	590	285	72	6951
	STD DEV	13	22	50	87	89	125	151	118	121	80	72	29	364
	31-60 AVERAGE	17	40	168	465	790	1153	1229	1107	980	585	277	66	6875
	STD DEV	12	23	48	86	91	115	155	119	150	95	66	30	407
	41-70 AVERAGE	17	42	167	457	778	1171	1272	1116	969	571	287	67	6915
	STD DEV	12	22	54	85	77	113	143	100	137	90	80	30	380
	51-80 AVERAGE	20	40	173	489	787	1161	1300	1131	975	582	298	75	7033
	STD DEV	13	19	56	86	84	122	127	117	105	80	80	32	324
	61-90 AVERAGE	21	43	183	503	778	1160	1321	1130	951	598	295	80	7063
	STD DEV	10	22	55	91	84	134	138	116	94	75	77	27	289
3602 PA-02 East Central Mountains	71-00 AVERAGE	21	41	186	514	781	1130	1285	1093	941	589	284	79	6945
	STD DEV	14	21	43	88	91	143	148	123	100	68	66	28	344
	31-00 AVERAGE	6	15	109	400	693	1046	1157	999	845	489	214	36	6007
	STD DEV	5	10	38	83	88	119	154	118	109	78	67	19	383
	31-60 AVERAGE	5	14	99	377	691	1044	1107	983	854	479	203	31	5886
	STD DEV	4	10	36	72	83	113	148	113	127	90	51	18	314
	41-70 AVERAGE	6	17	109	385	698	1076	1165	1008	857	479	223	35	6058
	STD DEV	5	11	43	84	77	108	141	101	117	92	74	18	389
	51-80 AVERAGE	7	16	114	415	705	1065	1193	1026	862	486	233	40	6162
	STD DEV	5	9	44	92	91	114	133	122	89	83	75	22	394
3603 PA-03 Southeastern Piedmont	61-90 AVERAGE	7	17	119	420	692	1062	1221	1034	843	506	229	42	6193
	STD DEV	5	10	41	96	92	125	145	115	93	69	78	20	380
	71-00 AVERAGE	6	14	113	415	690	1026	1173	989	825	489	212	40	5991
	STD DEV	5	8	30	88	94	133	154	126	97	67	65	22	387
	31-00 AVERAGE	0	4	65	329	622	960	1072	922	762	423	158	14	5330
	STD DEV	1	4	27	77	79	119	150	115	109	72	53	9	325
	31-60 AVERAGE	0	3	57	305	622	965	1021	909	770	414	144	12	5221
	STD DEV	1	3	25	70	76	114	152	120	128	81	42	8	325
	41-70 AVERAGE	0	4	59	302	616	983	1065	920	764	405	156	13	5286
	STD DEV	1	4	29	70	65	113	138	98	117	80	59	8	319
3604 PA-04 Lower Susquehanna	51-80 AVERAGE	0	3	61	328	621	964	1091	932	762	408	164	16	5349
	STD DEV	1	3	29	75	75	117	127	119	95	75	59	10	296
	61-90 AVERAGE	0	4	69	343	615	967	1127	946	751	432	168	16	5440
	STD DEV	1	4	31	84	77	124	137	107	90	69	57	10	268
	71-00 AVERAGE	1	4	71	355	623	940	1097	917	749	425	165	17	5363
	STD DEV	1	4	24	83	87	129	146	119	99	63	52	11	331
	31-00 AVERAGE	1	7	80	355	658	992	1095	937	775	430	173	18	5521
	STD DEV	2	7	31	78	81	122	150	114	112	75	57	12	326
	31-60 AVERAGE	1	6	73	332	663	999	1046	923	786	426	158	15	5427
	STD DEV	2	7	31	68	75	114	149	113	130	84	46	11	299
3605 PA-05 Middle Susquehanna	41-70 AVERAGE	1	7	75	331	660	1020	1093	941	780	415	170	17	5510
	STD DEV	2	7	32	72	65	113	128	95	122	84	62	10	271
	51-80 AVERAGE	2	6	75	357	659	1000	1119	956	779	415	180	21	5568
	STD DEV	2	4	33	79	79	119	126	120	99	75	62	13	282
	61-90 AVERAGE	2	7	83	370	647	998	1149	964	764	436	185	21	5626
	STD DEV	2	5	34	89	79	129	140	111	93	71	61	12	279
	71-00 AVERAGE	2	8	87	380	656	971	1120	931	762	430	184	22	5554
	STD DEV	3	7	28	85	91	136	150	121	104	67	56	14	371
	31-00 AVERAGE	7	17	111	409	701	1053	1156	993	837	475	212	38	6009
	STD DEV	6	12	41	83	83	125	160	116	115	77	68	20	391
3606 PA-06 Upper Susquehanna	31-60 AVERAGE	5	13	95	377	691	1049	1090	963	832	457	191	31	5793
	STD DEV	5	10	36	75	81	123	152	109	134	81	56	18	322
	41-70 AVERAGE	7	18	108	389	700	1080	1154	1000	847	468	217	38	6025
	STD DEV	6	12	45	82	69	120	145	104	126	88	75	18	372
	51-80 AVERAGE	9	17	115	423	710	1071	1191	1024	855	479	232	44	6170
	STD DEV	6	11	47	85	80	126	137	124	99	80	71	21	349
	61-90 AVERAGE	9	20	126	436	704	1068	1226	1037	843	496	234	48	6246
	STD DEV	5	13	45	87	82	128	146	110	100	76	71	19	312
	71-00 AVERAGE	8	18	121	435	710	1042	1190	995	830	480	220	44	6093
	STD DEV	6	13	32	84	89	136	156	120	108	71	64	22	378
3606 PA-06 Upper Susquehanna	31-00 AVERAGE	28	57	195	513	807	1173	1292	1136	993	618	317	88	7217
	STD DEV	18	27	55	90	89	131	157	118	126	85	80	35	388
	31-60 AVERAGE	22	48	177	484	809	1178	1251	1128	1008	610	302	78	7095
	STD DEV	15	25	54	80	93	125	159	113	146	92	71	33	363
	41-70 AVERAGE	27	58	190	487	805	1199	1301	1146	1009	609	326	87	7245
	STD DEV	17	26	60	87	82	120	145	97	134	94	86	32	327
	51-80 AVERAGE	33	62	202	524	807	1184	1325	1162	1008	618	336	99	7360
	STD DEV	18	24	60	96	91	124	135	118	109	84	84	36	339
	61-90 AVERAGE	33	64	209	533	800	1180	1343	1161	982	626	332	103	7364
	STD DEV	17	26	57	99	86	138	149	116	105	84	82	34	339
3606	71-00 AVERAGE	32	62	210	544	807	1158	1310	1125	975	621	321	97	7262
	STD DEV	19	27	45	95	91	149	155	129	119	81	76	38	429



Section 3:

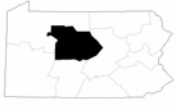
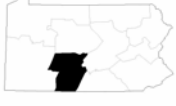






Heating Degree Days

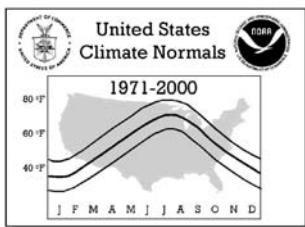
Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Pennsylvania – Rhode Island – South Carolina Page 52

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
PA-07 Central Mountains 	31-00 AVERAGE	19	44	166	481	776	1125	1233	1076	934	556	282	70	6763
	STD DEV	13	24	52	86	86	138	160	126	122	84	78	30	414
	31-60 AVERAGE	17	42	159	460	786	1136	1187	1066	953	554	268	63	6690
	STD DEV	13	24	49	80	88	135	163	123	142	97	66	30	398
	41-70 AVERAGE	21	51	175	471	790	1168	1245	1096	958	553	289	72	6888
	STD DEV	14	25	58	88	74	130	142	108	135	99	83	28	363
	51-80 AVERAGE	23	49	173	500	783	1145	1275	1110	951	558	300	81	6945
	STD DEV	14	24	61	90	87	135	137	128	115	80	82	31	347
	61-90 AVERAGE	22	49	177	503	765	1133	1294	1109	925	568	300	82	6926
	STD DEV	13	24	59	95	86	142	148	122	102	75	81	27	343
PA-08 South Central Mountains 	71-00 AVERAGE	19	42	167	498	765	1100	1251	1060	910	551	286	74	6722
	STD DEV	12	22	43	91	90	147	158	131	109	74	77	32	436
	31-00 AVERAGE	8	25	128	426	731	1067	1169	1011	864	505	233	45	6211
	STD DEV	7	16	44	84	88	135	158	118	122	82	69	23	363
	31-60 AVERAGE	7	22	119	404	743	1072	1124	998	877	505	218	39	6128
	STD DEV	7	15	45	74	86	127	163	119	145	96	54	22	372
	41-70 AVERAGE	8	26	126	406	737	1095	1167	1018	872	487	227	42	6211
	STD DEV	6	15	45	80	73	127	132	100	134	95	72	20	288
	51-80 AVERAGE	9	23	121	430	725	1067	1192	1029	862	487	236	49	6229
	STD DEV	6	13	44	87	85	130	137	124	113	78	74	25	299
PA-09 Southwest Plateau 	61-90 AVERAGE	8	26	129	438	710	1069	1217	1036	848	505	243	51	6279
	STD DEV	5	14	44	95	79	141	150	115	102	74	72	22	283
	71-00 AVERAGE	10	28	136	451	725	1051	1195	1007	853	506	247	53	6261
	STD DEV	8	16	38	90	95	147	160	126	107	68	72	25	394
	31-00 AVERAGE	10	23	120	413	715	1045	1151	996	843	496	236	51	6098
	STD DEV	8	15	44	86	89	146	173	133	133	84	72	26	389
	31-60 AVERAGE	7	19	107	384	722	1044	1089	975	861	489	220	42	5960
	STD DEV	7	13	43	74	87	142	174	132	157	98	55	24	345
	41-70 AVERAGE	9	24	119	393	720	1074	1149	1002	855	474	232	47	6097
	STD DEV	7	15	46	83	75	139	154	118	144	95	76	23	330
PA-10 Northwest Plateau 	51-80 AVERAGE	11	23	121	426	720	1055	1197	1028	850	488	243	57	6218
	STD DEV	7	13	49	90	85	139	152	140	126	83	77	28	357
	61-90 AVERAGE	12	27	131	438	706	1059	1226	1039	833	509	253	61	6295
	STD DEV	8	16	48	97	87	155	160	128	115	75	78	26	335
	71-00 AVERAGE	12	26	130	442	710	1032	1182	993	824	503	248	59	6162
	STD DEV	9	16	38	92	98	156	171	140	119	72	74	29	433
	31-00 AVERAGE	27	48	167	474	787	1134	1262	1112	964	595	305	81	6955
	STD DEV	16	24	51	87	89	140	167	131	131	90	82	34	404
	31-60 AVERAGE	20	40	148	446	791	1132	1207	1100	982	592	290	69	6818
	STD DEV	14	22	49	78	90	133	171	132	153	107	67	33	385
RI-01 Rhode Island 	41-70 AVERAGE	27	50	163	450	784	1156	1262	1119	974	579	307	79	6949
	STD DEV	16	24	54	83	76	132	152	112	143	102	84	31	351
	51-80 AVERAGE	31	50	170	481	786	1143	1299	1137	971	589	315	90	7063
	STD DEV	16	22	58	92	88	135	148	133	125	87	83	36	384
	61-90 AVERAGE	31	54	180	494	775	1147	1324	1143	952	602	318	95	7114
	STD DEV	15	23	55	97	86	148	155	126	115	80	86	32	356
	71-00 AVERAGE	31	52	182	504	784	1126	1290	1104	944	596	313	91	7017
	STD DEV	16	24	41	91	96	155	163	137	120	77	84	37	433
	31-00 AVERAGE	5	15	105	372	637	982	1105	970	859	558	281	62	5952
	STD DEV	5	11	35	67	74	117	130	104	85	64	59	24	330
SC-01 Mountain 	31-60 AVERAGE	6	16	100	359	637	990	1079	968	871	563	282	64	5934
	STD DEV	4	12	32	62	73	114	135	111	99	68	56	26	338
	41-70 AVERAGE	6	18	107	355	631	1011	1111	973	870	556	297	65	5997
	STD DEV	5	13	40	58	64	114	124	85	89	69	67	26	312
	51-80 AVERAGE	6	16	113	381	637	997	1120	977	864	551	291	66	6018
	STD DEV	5	12	41	67	73	118	119	101	78	69	67	25	311
	61-90 AVERAGE	6	15	113	384	634	991	1136	984	853	560	289	64	6028
	STD DEV	5	12	39	74	75	123	128	94	71	64	59	24	281
	71-00 AVERAGE	5	13	105	388	635	955	1113	958	840	549	270	58	5887
	STD DEV	4	8	32	74	79	123	124	109	76	61	52	25	335
SC-01 Mountain 	31-00 AVERAGE	8	16	65	277	533	791	838	695	575	297	134	27	4255
	STD DEV	6	12	29	69	96	118	150	115	128	76	52	17	382
	31-60 AVERAGE	8	16	60	262	544	786	794	689	607	301	131	22	4219
	STD DEV	7	14	26	67	90	116	153	136	159	84	57	16	473
	41-70 AVERAGE	7	12	60	251	519	784	806	680	575	260	112	21	4086
	STD DEV	5	8	26	58	79	114	129	130	144	61	45	13	349
	51-80 AVERAGE	6	11	58	271	521	780	847	700	569	267	119	26	4174
	STD DEV	5	8	31	63	83	111	148	121	124	60	46	16	339
	61-90 AVERAGE	7	14	67	285	512	794	888	714	551	290	132	27	4282
	STD DEV	7	9	29	76	96	122	148	103	94	69	45	15	314
SC-01 Mountain 	71-00 AVERAGE	7	17	70	294	529	795	867	690	551	302	142	31	4294
	STD DEV	6	12	30	75	107	126	154	95	89	68	46	19	323



Section 3:

Heating Degree Days









Divisional Normals, 1971-2000 (and previous periods)

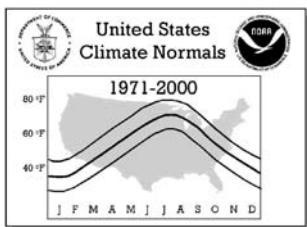
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

South Carolina

Page 53

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
SC-02 Northwest 	31-00 AVERAGE	0	0	16	180	434	685	730	585	444	181	49	3	3308
	STD DEV	0	0	10	57	81	111	137	100	101	53	26	3	277
	31-60 AVERAGE	0	0	12	161	439	682	681	570	461	174	41	1	3224
	STD DEV	0	0	8	50	77	112	140	109	121	47	21	2	270
	41-70 AVERAGE	0	0	16	170	439	699	717	589	463	163	41	2	3301
	STD DEV	0	0	11	53	74	104	120	108	116	53	24	3	267
	51-80 AVERAGE	0	0	16	187	434	686	749	605	453	169	48	4	3350
	STD DEV	0	0	11	54	76	103	133	108	104	49	27	3	259
	61-90 AVERAGE	0	0	19	194	419	689	784	610	432	185	55	4	3389
	STD DEV	0	0	11	65	80	112	131	98	82	57	26	3	273
3802 SC-03 North Central 	71-00 AVERAGE	0	0	18	197	431	681	756	582	425	191	57	4	3342
	STD DEV	0	0	8	63	89	116	135	89	82	55	28	4	285
	31-00 AVERAGE	0	0	14	162	394	652	694	554	408	153	38	2	3070
	STD DEV	0	0	9	56	81	117	138	106	102	50	22	3	295
	31-60 AVERAGE	0	0	11	142	399	651	645	537	421	146	31	1	2983
	STD DEV	0	0	7	48	75	118	141	118	123	43	17	1	299
	41-70 AVERAGE	0	0	14	154	402	670	686	561	426	140	32	2	3087
	STD DEV	0	0	11	53	72	109	123	113	116	50	19	2	299
	51-80 AVERAGE	0	0	14	172	399	654	714	578	419	145	38	3	3135
	STD DEV	0	0	11	51	77	111	134	111	103	47	22	3	272
3803 SC-04 Northeast 	61-90 AVERAGE	0	0	16	177	380	650	748	581	398	158	43	3	3155
	STD DEV	0	0	11	64	83	116	134	101	80	55	21	3	282
	71-00 AVERAGE	0	0	15	178	386	644	717	549	389	160	45	3	3086
	STD DEV	0	0	8	63	89	121	135	93	82	53	24	3	284
	31-00 AVERAGE	0	0	6	127	333	574	621	490	351	117	21	1	2642
	STD DEV	0	0	5	48	81	118	140	106	95	41	13	1	287
	31-60 AVERAGE	0	0	5	118	342	579	575	476	360	110	18	0	2582
	STD DEV	0	0	4	44	76	124	144	114	114	34	12	1	270
	41-70 AVERAGE	0	0	6	123	344	597	621	499	368	108	19	1	2685
	STD DEV	0	0	6	45	71	112	125	113	107	39	13	1	280
3804 SC-05 West Central 	51-80 AVERAGE	0	0	6	135	342	579	643	515	363	112	22	1	2717
	STD DEV	0	0	6	47	75	110	135	111	97	37	14	1	274
	61-90 AVERAGE	0	0	7	136	325	572	675	517	347	123	25	1	2727
	STD DEV	0	0	6	56	85	116	137	107	78	45	13	1	304
	71-00 AVERAGE	0	0	6	133	318	560	639	486	338	123	24	1	2628
	STD DEV	0	0	4	56	88	116	137	98	79	46	14	2	295
	31-00 AVERAGE	0	0	11	144	366	614	656	513	374	138	33	1	2850
	STD DEV	0	0	8	51	81	112	140	105	98	47	21	2	291
	31-60 AVERAGE	0	0	8	124	364	603	599	488	382	128	26	1	2722
	STD DEV	0	0	7	44	75	112	143	114	116	40	15	1	275
3805 SC-06 Central 	41-70 AVERAGE	0	0	11	136	368	621	640	512	388	121	27	1	2825
	STD DEV	0	0	10	48	72	104	128	116	112	45	17	2	301
	51-80 AVERAGE	0	0	11	153	373	616	677	539	384	130	34	2	2920
	STD DEV	0	0	8	48	75	104	137	114	99	43	21	2	271
	61-90 AVERAGE	0	0	13	159	357	618	714	546	367	143	39	2	2958
	STD DEV	0	0	8	58	82	114	133	102	80	49	19	2	277
	71-00 AVERAGE	0	0	12	160	364	617	688	518	362	149	40	2	2911
	STD DEV	0	0	6	56	89	116	132	93	83	51	24	3	279
	31-00 AVERAGE	0	0	6	121	330	569	613	476	334	107	19	1	2577
	STD DEV	0	0	5	46	79	117	139	105	94	40	13	1	282
3806 SC-07 Southern 	31-60 AVERAGE	0	0	5	110	338	569	563	456	343	101	16	0	2501
	STD DEV	0	0	4	42	74	124	141	112	113	35	10	0	274
	41-70 AVERAGE	0	0	7	118	339	587	610	482	351	97	16	0	2606
	STD DEV	0	0	7	45	72	111	123	115	108	41	11	1	277
	51-80 AVERAGE	0	0	6	130	335	569	636	500	343	99	20	1	2639
	STD DEV	0	0	7	47	74	109	136	114	97	38	13	1	271
	61-90 AVERAGE	0	0	7	131	319	566	668	505	328	111	22	1	2659
	STD DEV	0	0	7	54	81	112	136	107	76	44	12	1	289
	71-00 AVERAGE	0	0	6	129	317	560	636	475	320	113	23	1	2581
	STD DEV	0	0	3	52	85	115	137	96	77	42	14	2	284
3807 SC-07 Southern 	31-00 AVERAGE	0	0	2	85	271	490	540	420	291	84	9	0	2194
	STD DEV	0	0	2	37	75	111	133	104	87	33	7	1	270
	31-60 AVERAGE	0	0	2	79	281	493	495	402	300	79	8	0	2138
	STD DEV	0	0	2	34	69	118	135	112	104	26	6	0	252
	41-70 AVERAGE	0	0	3	85	286	516	541	428	309	79	8	0	2254
	STD DEV	0	0	3	35	71	102	120	116	100	33	6	1	266
	51-80 AVERAGE	0	0	3	93	283	499	567	448	303	83	10	0	2289
	STD DEV	0	0	3	37	72	100	130	111	90	31	7	1	259
	61-90 AVERAGE	0	0	3	89	263	488	594	449	287	88	11	0	2272
	STD DEV	0	0	3	43	81	109	130	103	72	35	6	1	290
3807 SC-07 Southern 	71-00 AVERAGE	0	0	2	89	253	477	558	419	276	89	11	0	2174
	STD DEV	0	0	2	42	80	108	130	92	71	36	8	1	272



Section 3:

Heating Degree Days

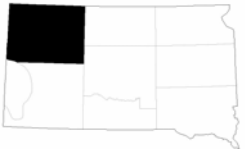
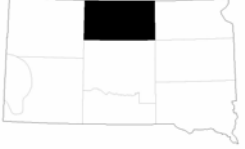
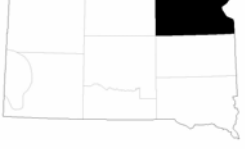
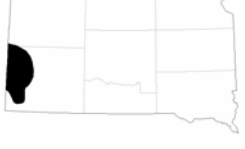
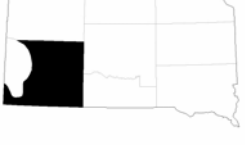
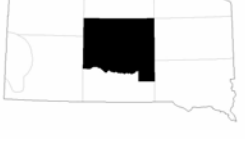
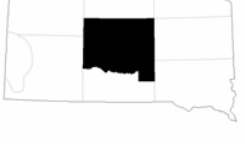
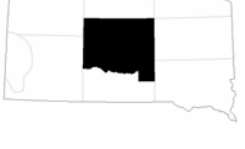
Divisional Normals, 1971-2000 (and previous periods)

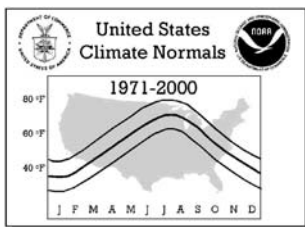
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

South Dakota

Page 54

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
SD-01 Northwest 	31-00 AVERAGE	33	40	230	561	1022	1373	1506	1229	1084	649	340	130	8198
	STD DEV	24	24	76	89	146	185	243	215	170	108	89	52	595
	31-60 AVERAGE	30	38	222	551	1011	1323	1499	1284	1138	658	344	140	8237
	STD DEV	21	18	67	99	143	150	260	218	164	119	105	60	577
	41-70 AVERAGE	36	42	247	551	1014	1364	1524	1252	1150	659	361	150	8348
	STD DEV	20	22	80	109	136	170	231	155	192	121	83	55	475
	51-80 AVERAGE	34	43	240	559	1026	1383	1570	1242	1114	663	342	127	8342
	STD DEV	21	24	83	102	127	185	207	185	175	106	73	51	492
	61-90 AVERAGE	29	42	242	566	1020	1434	1518	1220	1057	634	335	118	8215
	STD DEV	17	26	84	91	138	196	244	189	161	106	75	44	578
SD-02 North Central 	71-00 AVERAGE	35	41	228	578	1040	1404	1496	1177	1023	633	331	120	8107
	STD DEV	29	28	68	53	162	213	240	228	142	103	78	44	662
	31-00 AVERAGE	32	39	219	561	1069	1491	1669	1354	1141	652	319	110	8655
	STD DEV	24	24	72	92	143	195	247	225	178	111	88	46	629
	31-60 AVERAGE	28	35	203	545	1063	1453	1667	1415	1185	654	322	115	8684
	STD DEV	18	19	63	104	144	170	265	234	178	118	102	54	625
	41-70 AVERAGE	34	39	230	537	1049	1484	1683	1388	1199	660	341	123	8766
	STD DEV	18	22	77	106	136	179	229	158	207	118	85	50	496
	51-80 AVERAGE	33	40	225	552	1059	1497	1729	1368	1180	663	325	108	8779
	STD DEV	19	24	77	102	127	188	200	191	188	111	76	45	515
SD-03 Northeast 	61-90 AVERAGE	29	42	235	568	1063	1544	1672	1341	1119	644	317	104	8677
	STD DEV	17	25	79	88	131	198	251	196	173	111	78	41	612
	71-00 AVERAGE	37	43	224	587	1090	1513	1650	1291	1091	639	306	105	8575
	STD DEV	29	27	63	57	156	224	245	231	149	111	76	40	697
	31-00 AVERAGE	31	42	218	562	1087	1535	1725	1399	1160	659	311	96	8825
	STD DEV	22	25	68	94	138	190	231	207	174	114	87	42	615
	31-60 AVERAGE	27	37	203	544	1082	1503	1708	1437	1194	664	316	100	8815
	STD DEV	19	22	65	106	139	164	242	209	170	118	97	48	607
	41-70 AVERAGE	34	42	230	540	1066	1536	1739	1431	1205	666	337	108	8935
	STD DEV	19	23	73	103	126	170	208	133	204	118	82	46	461
SD-04 Black Hills 	51-80 AVERAGE	32	43	226	558	1078	1549	1795	1429	1206	670	320	97	9003
	STD DEV	19	25	71	107	120	177	179	171	191	114	78	43	464
	61-90 AVERAGE	28	45	232	575	1079	1582	1740	1402	1142	647	309	92	8873
	STD DEV	17	27	71	89	123	196	238	193	180	116	81	38	593
	71-00 AVERAGE	34	46	224	589	1105	1553	1713	1349	1121	643	295	91	8763
	STD DEV	26	28	57	69	152	221	235	223	150	119	80	36	687
	31-00 AVERAGE	90	87	294	592	973	1221	1315	1101	1048	718	436	204	8077
	STD DEV	45	40	91	104	132	146	183	155	137	111	99	71	612
	31-60 AVERAGE	72	69	259	546	949	1172	1295	1120	1067	691	410	191	7842
	STD DEV	46	34	87	109	135	121	204	180	144	124	118	84	737
SD-05 Southwest 	41-70 AVERAGE	93	86	307	580	968	1218	1324	1113	1105	722	451	225	8192
	STD DEV	39	36	90	105	118	113	172	122	149	128	87	68	484
	51-80 AVERAGE	97	98	310	596	989	1228	1368	1107	1088	747	451	210	8289
	STD DEV	39	38	90	97	105	131	157	122	136	101	71	64	415
	61-90 AVERAGE	94	100	324	619	979	1276	1337	1105	1046	729	452	208	8269
	STD DEV	32	39	88	94	119	152	179	123	134	104	77	56	422
	71-00 AVERAGE	106	102	317	641	1008	1256	1324	1084	1015	736	457	212	8258
	STD DEV	42	38	74	64	137	167	173	148	104	98	77	60	483
	31-00 AVERAGE	23	21	175	490	932	1252	1364	1105	979	590	298	104	7331
	STD DEV	18	14	65	90	134	162	209	192	154	103	82	47	492
SD-06 Central 	31-60 AVERAGE	19	17	161	471	925	1221	1369	1153	1031	596	300	109	7372
	STD DEV	16	10	58	97	128	128	224	202	151	115	95	56	497
	41-70 AVERAGE	24	20	182	471	911	1242	1378	1115	1043	593	309	119	7405
	STD DEV	15	14	69	109	122	137	184	141	171	120	80	51	394
	51-80 AVERAGE	22	23	177	481	926	1245	1407	1112	1006	597	293	99	7388
	STD DEV	15	16	72	102	113	155	181	164	156	100	65	45	425
	61-90 AVERAGE	20	23	186	496	926	1296	1366	1095	950	571	290	94	7313
	STD DEV	11	16	70	90	131	176	212	163	144	96	70	36	460
	71-00 AVERAGE	27	24	184	519	956	1269	1349	1064	918	583	297	99	7287
	STD DEV	21	16	59	51	152	196	210	197	121	93	72	40	543
SD-06 Central 	31-00 AVERAGE	22	24	166	486	975	1370	1517	1227	1040	584	276	88	7773
	STD DEV	18	16	63	89	135	183	237	215	172	107	82	42	578
	31-60 AVERAGE	18	19	151	466	961	1330	1499	1269	1084	583	278	91	7749
	STD DEV	15	12	59	102	132	157	253	225	175	119	94	49	597
	41-70 AVERAGE	24	24	180	471	958	1371	1533	1253	1106	588	293	101	7901
	STD DEV	14	14	65	105	124	169	210	157	201	120	79	44	460
	51-80 AVERAGE	23	25	176	485	974	1386	1586	1253	1085	594	281	86	7954
	STD DEV	15	16	67	99	117	175	191	191	185	103	70	41	468
	61-90 AVERAGE	20	26	180	498	972	1423	1538	1229	1020	573	274	81	7833
	STD DEV	12	17	65	83	122	184	243	191	165	100	74	35	543
SD-06 Central 	71-00 AVERAGE	26	26	169	511	999	1389	1510	1180	983	577	270	83	7723
	STD DEV	22	19	54	54	150	210	237	225	131	102	71	35	620



Section 3:

Heating Degree Days

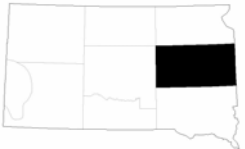
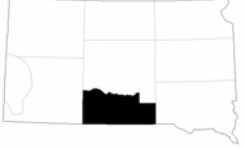
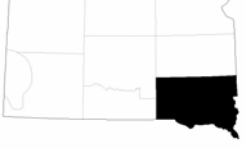
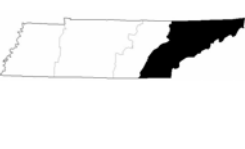



Divisional Normals, 1971-2000 (and previous periods)

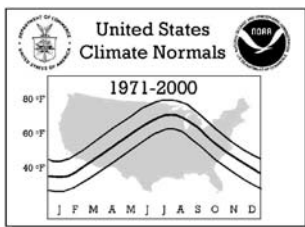
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

South Dakota – Tennessee

Page 55

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
SD-07 East Central 	31-00 AVERAGE	29	35	199	530	1029	1466	1638	1320	1098	617	293	88	8340
	STD DEV	21	21	66	93	132	178	224	205	170	109	85	41	584
	31-60 AVERAGE	25	30	185	512	1026	1438	1623	1357	1138	623	298	93	8347
	STD DEV	18	18	67	104	133	155	230	210	167	117	95	47	588
	41-70 AVERAGE	31	35	214	513	1015	1468	1654	1346	1151	623	311	98	8459
	STD DEV	17	19	68	102	123	161	188	136	201	117	82	45	415
	51-80 AVERAGE	28	34	207	527	1021	1478	1708	1349	1145	622	296	86	8500
	STD DEV	17	19	67	107	113	160	175	172	189	107	73	40	430
	61-90 AVERAGE	26	37	208	541	1016	1509	1656	1325	1076	599	287	82	8362
	STD DEV	14	22	66	90	112	184	233	184	176	107	77	36	548
SD-08 South Central 	71-00 AVERAGE	32	39	202	554	1045	1481	1626	1273	1050	603	282	84	8271
	STD DEV	25	24	56	70	147	206	232	221	137	111	77	34	645
	31-00 AVERAGE	20	22	157	458	922	1275	1402	1137	984	565	270	81	7292
	STD DEV	16	16	62	91	137	170	220	200	163	106	80	39	528
	31-60 AVERAGE	16	16	140	433	908	1244	1398	1184	1030	562	268	81	7280
	STD DEV	13	11	58	102	127	145	238	214	160	117	92	46	551
	41-70 AVERAGE	20	20	167	438	900	1277	1415	1155	1048	565	277	90	7373
	STD DEV	13	13	63	106	115	153	182	146	187	120	81	42	395
	51-80 AVERAGE	20	23	165	454	921	1287	1458	1154	1025	571	270	79	7426
	STD DEV	13	15	64	103	110	160	175	177	170	99	66	37	418
SD-09 Southeast 	61-90 AVERAGE	18	25	172	472	920	1324	1415	1134	964	554	268	75	7343
	STD DEV	11	17	62	86	130	177	223	169	156	98	69	31	484
	71-00 AVERAGE	24	26	165	490	950	1289	1388	1091	925	565	272	79	7263
	STD DEV	19	19	53	51	158	201	220	204	125	100	67	34	573
	31-00 AVERAGE	15	24	149	450	935	1349	1502	1200	995	536	238	60	7454
	STD DEV	14	16	58	88	127	169	222	198	168	103	76	32	547
	31-60 AVERAGE	12	19	134	426	924	1309	1482	1236	1037	540	241	62	7422
	STD DEV	11	13	59	97	120	141	231	207	165	113	86	38	553
	41-70 AVERAGE	16	23	161	433	913	1344	1511	1215	1055	538	248	67	7525
	STD DEV	11	15	60	97	112	151	179	139	196	113	75	35	406
TN-01 Eastern 	51-80 AVERAGE	15	25	158	453	926	1360	1571	1225	1042	538	239	59	7610
	STD DEV	10	15	59	101	105	148	173	176	186	97	64	30	420
	61-90 AVERAGE	13	27	161	470	926	1400	1528	1208	974	519	232	57	7516
	STD DEV	8	17	57	85	109	178	228	174	174	98	67	27	524
	71-00 AVERAGE	18	27	154	477	958	1375	1495	1161	943	531	235	58	7432
	STD DEV	16	18	49	64	145	198	228	212	130	104	67	27	602
	31-00 AVERAGE	0	1	38	253	539	798	859	695	544	261	96	8	4093
	STD DEV	1	1	19	71	90	128	160	124	115	65	42	7	323
	31-60 AVERAGE	0	0	30	229	551	785	797	669	557	250	81	6	3955
	STD DEV	1	1	17	63	84	128	159	134	139	60	33	6	300
TN-02 Cumberland Plateau 	41-70 AVERAGE	0	1	38	243	554	816	851	702	563	243	87	8	4105
	STD DEV	1	1	20	69	79	121	142	142	134	71	39	7	336
	51-80 AVERAGE	1	1	38	269	552	809	896	727	558	253	99	11	4213
	STD DEV	1	1	22	68	81	123	152	137	115	63	44	8	309
	61-90 AVERAGE	1	1	44	276	523	812	931	736	532	267	108	11	4243
	STD DEV	1	1	21	81	91	136	150	117	95	67	43	7	295
	71-00 AVERAGE	0	1	42	272	524	796	891	699	527	274	110	11	4146
	STD DEV	0	1	18	78	99	127	157	104	91	65	46	8	311
	31-00 AVERAGE	1	2	50	261	548	808	886	718	565	273	110	11	4234
	STD DEV	2	3	24	73	96	137	166	130	125	70	45	9	330
TN-03 Middle 	31-60 AVERAGE	1	2	44	241	566	801	833	702	585	273	101	9	4157
	STD DEV	2	3	23	70	90	137	166	139	147	67	40	10	331
	41-70 AVERAGE	1	3	51	258	569	832	883	731	592	256	103	11	4291
	STD DEV	2	3	23	74	83	130	143	144	141	75	44	10	328
	51-80 AVERAGE	1	2	51	282	566	820	929	752	583	262	113	14	4375
	STD DEV	1	3	26	74	86	126	159	146	129	68	48	11	314
	61-90 AVERAGE	1	3	55	282	527	820	954	751	547	270	117	13	4338
	STD DEV	1	3	25	79	94	144	162	130	107	70	46	8	316
	71-00 AVERAGE	0	3	54	275	526	799	910	711	538	280	119	12	4228
	STD DEV	1	3	23	77	104	135	168	117	99	69	49	9	327
TN-03 Middle 	31-00 AVERAGE	0	1	35	230	511	772	855	679	517	229	81	6	3917
	STD DEV	0	2	19	71	91	136	163	128	122	65	38	5	341
	31-60 AVERAGE	0	1	28	205	517	752	792	657	523	218	71	4	3769
	STD DEV	1	2	16	65	89	132	163	134	143	58	33	5	331
	41-70 AVERAGE	0	2	34	220	519	780	840	683	539	208	72	6	3902
	STD DEV	1	3	17	68	78	129	141	138	139	65	35	5	335
	51-80 AVERAGE	0	2	36	246	525	775	886	707	535	219	81	8	4019
	STD DEV	0	2	21	72	82	121	158	146	129	61	39	6	343
	61-90 AVERAGE	0	2	41	253	497	792	925	718	512	233	89	8	4071
	STD DEV	0	2	21	79	88	143	156	127	108	67	38	5	301
4003	71-00 AVERAGE	0	2	41	251	504	781	891	682	501	247	92	8	3998
	STD DEV	0	2	20	76	100	140	160	120	95	68	42	6	322











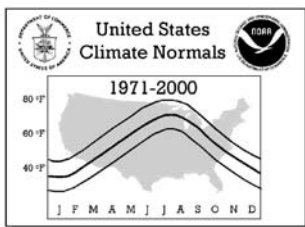
Section 3: Heating Degree Days

Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85
Temperature, Precipitation, and Degree Days

Tennessee – Texas

Page 56

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
TN-04 Western 	31-00 AVERAGE	0	1	27	197	475	753	840	654	486	193	56	2	3683
	STD DEV	0	2	16	64	91	134	156	127	119	61	30	2	317
	31-60 AVERAGE	0	0	23	177	487	735	784	635	493	188	51	1	3574
	STD DEV	0	1	15	61	84	129	152	126	136	56	26	2	315
	41-70 AVERAGE	0	1	27	193	484	757	825	657	510	179	50	2	3685
	STD DEV	0	2	15	65	78	123	130	125	135	61	27	2	302
	51-80 AVERAGE	0	1	28	211	486	755	872	681	504	184	56	2	3780
	STD DEV	0	2	18	68	87	112	153	143	132	57	33	2	318
	61-90 AVERAGE	0	1	30	216	457	774	906	694	483	193	61	2	3817
	STD DEV	0	2	18	71	91	142	157	131	114	63	33	2	287
TX-01 High Plains 	71-00 AVERAGE	0	1	30	212	463	761	877	655	468	204	62	2	3735
	STD DEV	0	1	17	66	100	141	158	130	94	65	33	2	310
	31-00 AVERAGE	0	1	31	196	542	793	853	649	512	237	67	5	3885
	STD DEV	0	1	19	56	90	97	118	106	101	68	29	4	255
	31-60 AVERAGE	0	0	27	186	549	776	840	653	527	241	70	4	3873
	STD DEV	0	1	16	53	80	91	124	107	104	64	27	3	282
	41-70 AVERAGE	0	0	30	196	533	781	849	656	549	233	65	4	3896
	STD DEV	0	1	13	59	89	88	116	102	114	70	28	3	258
	51-80 AVERAGE	0	1	32	200	549	777	863	661	524	231	66	4	3908
	STD DEV	0	2	21	66	94	86	124	113	117	69	31	3	242
TX-02 Low Rolling Plains 	61-90 AVERAGE	0	1	36	205	527	811	876	667	505	226	65	5	3925
	STD DEV	0	2	21	64	89	107	119	99	107	73	29	4	224
	71-00 AVERAGE	0	1	35	205	546	812	859	637	483	241	69	5	3893
	STD DEV	0	2	23	50	99	102	111	107	73	75	31	5	245
	31-00 AVERAGE	0	0	13	115	405	664	729	537	384	135	26	1	3009
	STD DEV	0	1	11	45	86	99	122	108	102	51	15	2	259
	31-60 AVERAGE	0	0	10	106	409	646	710	537	401	136	26	1	2983
	STD DEV	0	0	9	44	80	86	123	105	110	49	16	1	283
	41-70 AVERAGE	0	0	11	114	394	645	724	537	414	126	24	1	2991
	STD DEV	0	0	7	44	81	87	113	95	115	50	13	1	248
TX-03 North Central 	51-80 AVERAGE	0	0	14	120	413	647	744	545	389	126	25	1	3024
	STD DEV	0	1	14	53	93	84	130	114	116	51	16	1	257
	61-90 AVERAGE	0	0	16	123	395	684	759	559	375	129	25	1	3065
	STD DEV	0	1	13	50	86	115	129	109	102	53	14	2	233
	71-00 AVERAGE	0	0	16	121	412	685	740	529	356	141	27	2	3028
	STD DEV	0	1	14	43	94	109	123	120	70	53	16	2	259
	31-00 AVERAGE	0	0	5	78	324	562	640	462	313	95	13	0	2492
	STD DEV	0	0	5	36	82	102	123	103	94	37	10	0	234
	31-60 AVERAGE	0	0	4	72	334	547	618	462	330	98	14	0	2477
	STD DEV	0	0	4	37	76	87	118	100	105	35	10	0	246
TX-04 East Texas 	41-70 AVERAGE	0	0	5	78	317	553	641	469	345	89	12	0	2509
	STD DEV	0	0	4	35	74	93	110	93	103	38	7	0	206
	51-80 AVERAGE	0	0	5	84	331	554	661	478	320	90	13	0	2536
	STD DEV	0	0	7	43	89	89	135	112	103	40	10	0	228
	61-90 AVERAGE	0	0	6	84	307	580	675	486	302	87	12	0	2540
	STD DEV	0	0	7	38	83	120	133	106	91	38	9	0	217
	71-00 AVERAGE	0	0	6	81	323	577	648	451	286	100	14	0	2486
	STD DEV	0	0	7	35	89	115	128	113	62	39	10	0	251
	31-00 AVERAGE	0	0	2	72	285	495	565	404	266	77	9	0	2174
	STD DEV	0	0	3	34	77	106	126	101	83	34	7	0	251
TX-05 Trans Pecos 	31-60 AVERAGE	0	0	1	62	287	462	519	382	267	73	8	0	2060
	STD DEV	0	0	1	32	68	90	115	102	95	28	7	0	242
	41-70 AVERAGE	0	0	2	68	275	480	554	402	283	66	7	0	2138
	STD DEV	0	0	2	32	67	92	112	103	90	31	5	0	226
	51-80 AVERAGE	0	0	3	79	290	496	585	424	275	73	8	0	2234
	STD DEV	0	0	4	42	83	90	139	111	88	32	7	0	250
	61-90 AVERAGE	0	0	3	81	271	522	615	440	266	74	9	0	2282
	STD DEV	0	0	4	39	81	119	133	100	77	35	7	0	229
	71-00 AVERAGE	0	0	3	81	291	526	592	412	255	88	10	0	2259
	STD DEV	0	0	3	36	86	115	130	100	61	37	8	0	247
TX-05 Trans Pecos 	31-00 AVERAGE	0	0	9	97	370	586	616	430	294	96	13	0	2510
	STD DEV	0	0	7	39	75	77	92	81	73	39	8	0	221
	31-60 AVERAGE	0	0	9	93	382	582	607	426	306	102	15	0	2521
	STD DEV	0	0	7	37	67	82	100	78	67	37	7	0	222
	41-70 AVERAGE	0	0	8	103	382	594	629	446	327	96	13	0	2598
	STD DEV	0	0	5	40	62	82	109	87	73	39	6	0	195
	51-80 AVERAGE	0	0	9	109	391	597	624	459	311	96	15	0	2610
	STD DEV	0	0	8	45	72	81	96	86	80	38	9	0	177
	61-90 AVERAGE	0	0	9	106	362	597	641	454	293	90	13	0	2565
	STD DEV	0	0	8	44	75	76	80	75	82	43	9	0	181
TX-05 Trans Pecos 	71-00 AVERAGE	0	0	9	97	356	587	611	417	264	94	13	0	2447
	STD DEV	0	0	9	38	87	71	79	73	58	44	10	0	218



Section 3:

Heating Degree Days









Divisional Normals, 1971-2000 (and previous periods)


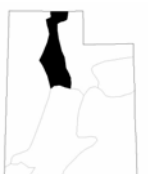


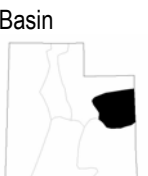

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

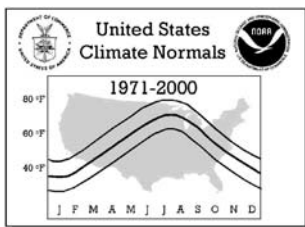
Temperature, Precipitation, and Degree Days

Texas – Utah

Page 57

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
TX-06 Edwards Plateau 	31-00 AVERAGE	0	0	4	75	289	501	556	388	247	70	8	0	2138
	STD DEV	0	0	5	35	75	94	112	91	79	33	6	0	241
	31-60 AVERAGE	0	0	3	66	289	471	519	367	251	73	8	0	2046
	STD DEV	0	0	3	35	71	79	110	84	85	34	6	0	253
	41-70 AVERAGE	0	0	3	78	292	497	560	397	274	68	7	0	2176
	STD DEV	0	0	3	34	68	87	110	98	86	32	5	0	232
	51-80 AVERAGE	0	0	5	87	310	513	579	414	257	68	9	0	2240
	STD DEV	0	0	6	41	79	86	118	102	88	32	6	0	227
	61-90 AVERAGE	0	0	5	85	286	536	604	426	251	66	8	0	2266
	STD DEV	0	0	6	39	79	104	108	90	81	31	6	0	180
TX-07 South Central 	71-00 AVERAGE	0	0	4	79	291	525	572	391	229	72	8	0	2170
	STD DEV	0	0	6	34	79	99	108	89	56	33	7	0	218
	31-00 AVERAGE	0	0	0	28	176	347	421	284	165	31	2	0	1454
	STD DEV	0	0	0	20	62	92	111	84	63	19	2	0	212
	31-60 AVERAGE	0	0	0	26	186	332	397	274	171	32	2	0	1419
	STD DEV	0	0	0	19	54	77	105	82	71	19	2	0	217
	41-70 AVERAGE	0	0	0	29	173	336	421	287	182	27	1	0	1456
	STD DEV	0	0	0	17	50	83	101	88	69	15	1	0	196
	51-80 AVERAGE	0	0	0	33	183	347	433	298	165	27	2	0	1487
	STD DEV	0	0	0	25	68	83	119	93	66	16	2	0	219
TX-08 Upper Coast 	61-90 AVERAGE	0	0	0	31	164	367	457	311	164	28	2	0	1524
	STD DEV	0	0	0	24	67	110	116	85	60	17	2	0	201
	71-00 AVERAGE	0	0	0	29	174	364	427	282	149	33	2	0	1460
	STD DEV	0	0	0	22	71	103	116	83	44	19	2	0	224
	31-00 AVERAGE	0	0	0	25	164	315	392	271	158	31	1	0	1357
	STD DEV	0	0	0	19	61	87	111	85	59	18	1	0	208
	31-60 AVERAGE	0	0	0	23	173	298	362	256	164	32	1	0	1310
	STD DEV	0	0	0	16	53	69	108	84	67	18	2	0	207
	41-70 AVERAGE	0	0	0	24	160	307	395	275	174	27	1	0	1362
	STD DEV	0	0	0	15	46	76	99	90	65	15	1	0	196
TX-09 Southern 	51-80 AVERAGE	0	0	0	29	170	321	409	293	163	28	1	0	1415
	STD DEV	0	0	0	25	66	79	117	92	60	16	1	0	219
	61-90 AVERAGE	0	0	0	27	152	338	433	304	159	28	1	0	1443
	STD DEV	0	0	0	23	66	103	113	83	54	17	1	0	198
	71-00 AVERAGE	0	0	0	26	161	332	402	273	142	32	1	0	1370
	STD DEV	0	0	0	22	71	99	113	84	41	18	1	0	217
	31-00 AVERAGE	0	0	0	17	132	297	354	218	111	16	1	0	1145
	STD DEV	0	0	0	14	52	86	101	72	53	13	1	0	192
	31-60 AVERAGE	0	0	0	17	144	291	336	211	119	17	1	0	1135
	STD DEV	0	0	0	13	44	75	94	66	60	15	1	0	195
TX-10 Lower Valley 	41-70 AVERAGE	0	0	0	18	135	298	369	226	128	14	0	0	1189
	STD DEV	0	0	0	12	43	82	96	78	58	11	1	0	183
	51-80 AVERAGE	0	0	0	21	143	303	372	235	113	13	1	0	1202
	STD DEV	0	0	0	18	59	79	108	81	55	9	1	0	197
	61-90 AVERAGE	0	0	0	19	121	310	388	244	110	13	1	0	1205
	STD DEV	0	0	0	17	58	99	107	74	48	11	1	0	176
	71-00 AVERAGE	0	0	0	16	125	304	353	213	94	16	1	0	1122
	STD DEV	0	0	0	16	60	96	104	73	35	13	1	0	201
	31-00 AVERAGE	0	0	0	6	68	179	244	138	67	5	0	0	706
	STD DEV	0	0	0	8	36	72	86	58	38	5	0	0	162
TX-11 Western 	31-60 AVERAGE	0	0	0	6	71	162	216	125	71	5	0	0	656
	STD DEV	0	0	0	7	30	54	76	52	42	6	0	0	153
	41-70 AVERAGE	0	0	0	6	68	173	249	141	77	4	0	0	717
	STD DEV	0	0	0	4	27	66	86	63	42	3	0	0	173
	51-80 AVERAGE	0	0	0	8	78	188	258	156	69	4	0	0	761
	STD DEV	0	0	0	9	41	67	94	65	40	3	0	0	181
	61-90 AVERAGE	0	0	0	7	66	201	282	165	67	4	0	0	791
	STD DEV	0	0	0	9	42	88	88	59	34	4	0	0	147
	71-00 AVERAGE	0	0	0	6	66	193	250	139	54	5	0	0	714
	STD DEV	0	0	0	9	44	81	88	58	25	5	0	0	159
UT-01 Western 	31-00 AVERAGE	4	10	143	470	856	1153	1218	936	808	540	293	100	6531
	STD DEV	4	7	51	78	101	122	174	139	107	93	77	43	417
	31-60 AVERAGE	4	10	136	459	875	1136	1251	981	848	537	301	109	6645
	STD DEV	3	6	46	78	103	127	199	158	95	83	85	43	447
	41-70 AVERAGE	4	11	146	467	852	1147	1230	944	858	558	298	117	6631
	STD DEV	3	9	60	88	99	100	175	145	96	88	73	44	344
	51-80 AVERAGE	3	11	144	467	851	1150	1198	916	833	563	297	97	6529
	STD DEV	2	9	58	76	95	114	149	113	104	81	77	37	287
	61-90 AVERAGE	3	11	154	478	834	1180	1221	919	800	549	295	92	6537
	STD DEV	3	9	60	87	78	125	141	115	113	102	66	40	344
UT-02 Western 	71-00 AVERAGE	4	8	142	478	851	1161	1188	907	753	525	287	85	6387
	STD DEV	5	6	44	72	98	126	156	114	99	100	70	39	404

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
UT-02 Dixie		31-00 AVERAGE	0	0	19	190	522	785	812	594	482	271	98	9	3781
		STD DEV	0	1	15	67	88	94	119	107	99	85	46	7	324
		31-60 AVERAGE	0	0	11	164	511	763	820	608	471	240	87	7	3682
		STD DEV	0	0	7	67	92	93	145	125	91	67	43	4	314
		41-70 AVERAGE	0	0	18	185	516	791	820	599	510	279	99	11	3827
		STD DEV	0	1	18	67	83	92	107	116	94	88	42	9	312
		51-80 AVERAGE	0	0	23	201	533	803	830	603	524	306	117	11	3952
		STD DEV	0	1	17	56	75	99	97	101	101	80	48	9	271
		61-90 AVERAGE	0	0	27	212	528	812	827	600	511	302	112	10	3943
		STD DEV	0	1	18	65	71	100	100	83	104	91	46	9	294
4202	71-00 AVERAGE	0	0	21	209	535	786	793	576	468	279	103	8	3778	
	STD DEV	0	0	14	62	87	92	99	84	101	86	48	6	310	
UT-03 North Central		31-00 AVERAGE	4	10	138	441	826	1121	1204	942	805	523	279	96	6388
		STD DEV	5	8	53	83	105	118	167	141	114	97	78	42	442
		31-60 AVERAGE	3	8	124	419	830	1083	1212	955	823	503	272	98	6329
		STD DEV	2	4	40	76	109	118	188	153	105	89	84	42	432
		41-70 AVERAGE	3	11	140	438	816	1109	1207	943	847	533	278	112	6438
		STD DEV	2	11	60	94	99	95	166	138	109	96	73	42	347
		51-80 AVERAGE	3	13	146	449	829	1134	1196	940	842	555	288	99	6493
		STD DEV	2	11	62	81	95	105	151	128	114	84	76	38	349
		61-90 AVERAGE	3	13	157	462	818	1167	1232	955	818	546	292	95	6559
		STD DEV	2	11	64	95	78	111	138	134	122	103	68	39	398
4203	71-00 AVERAGE	4	10	142	455	834	1146	1194	934	766	524	286	87	6380	
	STD DEV	7	7	50	76	107	119	158	131	109	103	74	39	483	
UT-04 South Central		31-00 AVERAGE	12	26	177	501	856	1131	1198	953	859	605	357	133	6808
		STD DEV	8	16	54	81	100	113	143	125	102	98	80	49	375
		31-60 AVERAGE	12	24	162	485	852	1103	1209	978	866	580	349	134	6753
		STD DEV	7	13	45	72	105	116	169	147	97	89	82	47	394
		41-70 AVERAGE	13	30	181	492	847	1125	1206	963	901	616	358	151	6883
		STD DEV	7	19	62	86	100	104	137	130	95	95	74	48	326
		51-80 AVERAGE	10	31	186	497	861	1142	1199	954	896	637	369	134	6916
		STD DEV	5	19	60	81	95	117	122	115	104	83	83	44	322
		61-90 AVERAGE	10	29	195	511	852	1162	1214	951	875	627	368	130	6923
		STD DEV	6	19	64	95	83	115	118	99	112	100	74	47	345
4204	71-00 AVERAGE	11	25	182	518	869	1147	1185	936	832	612	365	124	6807	
	STD DEV	9	12	48	81	95	113	129	99	100	104	78	49	380	
UT-05 Northern Mountains		31-00 AVERAGE	61	97	312	642	1010	1303	1382	1146	1057	746	485	244	8486
		STD DEV	29	35	66	79	110	118	141	133	121	96	81	66	466
		31-60 AVERAGE	64	103	307	637	1024	1280	1412	1177	1094	739	486	255	8580
		STD DEV	26	29	52	71	119	121	154	147	112	93	89	66	426
		41-70 AVERAGE	68	110	325	645	1008	1293	1397	1162	1116	765	491	276	8656
		STD DEV	24	33	71	91	112	99	137	136	113	96	76	57	339
		51-80 AVERAGE	62	113	325	645	1013	1306	1383	1148	1097	783	499	253	8626
		STD DEV	20	36	71	81	102	112	126	123	119	78	75	57	362
		61-90 AVERAGE	57	102	327	649	996	1329	1387	1144	1055	759	496	239	8540
		STD DEV	20	38	79	96	84	117	122	113	126	101	67	63	440
4205	71-00 AVERAGE	60	88	306	644	1010	1318	1355	1122	999	738	486	224	8348	
	STD DEV	33	38	66	74	107	124	135	112	105	104	76	64	516	
UT-06 Unita Basin		31-00 AVERAGE	6	21	180	529	964	1361	1494	1162	908	570	299	102	7596
		STD DEV	6	12	54	71	103	166	221	209	128	92	73	41	601
		31-60 AVERAGE	7	23	174	523	977	1339	1523	1205	944	574	307	113	7710
		STD DEV	5	9	42	58	97	172	231	229	124	87	84	40	613
		41-70 AVERAGE	7	23	185	524	949	1352	1519	1170	953	580	297	117	7674
		STD DEV	5	14	64	82	104	150	202	205	123	89	66	40	491
		51-80 AVERAGE	5	23	185	527	963	1376	1500	1160	936	591	300	99	7664
		STD DEV	3	15	66	77	110	178	206	200	129	74	65	38	523
		61-90 AVERAGE	4	20	189	534	946	1395	1512	1159	905	569	300	93	7626
		STD DEV	3	15	68	89	103	169	207	193	130	98	60	40	553
4206	71-00 AVERAGE	6	17	175	533	966	1363	1458	1137	852	554	295	87	7443	
	STD DEV	7	9	50	65	100	167	230	201	114	98	65	39	633	
UT-07 Southeast		31-00 AVERAGE	0	3	76	379	792	1108	1187	885	733	450	200	41	5855
		STD DEV	1	3	34	73	90	116	157	141	102	90	64	22	412
		31-60 AVERAGE	0	3	73	381	823	1111	1219	931	768	449	207	47	6011
		STD DEV	1	2	30	64	87	122	157	166	80	87	72	21	408
		41-70 AVERAGE	0	4	78	372	788	1109	1189	893	779	462	202	50	5927
		STD DEV	1	4	40	79	90	112	121	128	82	89	57	23	276
		51-80 AVERAGE	0	4	79	372	784	1123	1196	887	766	471	209	41	5932
		STD DEV	1	4	37	74	87	120	139	132	98	75	61	22	304
		61-90 AVERAGE	0	3	84	381	760	1115	1195	871	732	457	203	39	5838
		STD DEV	1	4	40	87	71	117	146	109	110	93	54	23	333
4207	71-00 AVERAGE	0	2	72	379	778	1090	1147	849	678	434	193	32	5654	
	STD DEV	0	1	31	73	87	109	157	111	99	93	58	20	387	



Section 3:

Heating Degree Days







Divisional Normals, 1971-2000 (and previous periods)

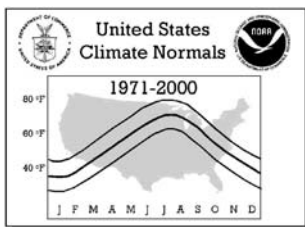
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Vermont - Virginia

Page 59

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
VT-01 Northeastern 	31-00 AVERAGE	49	92	274	608	931	1387	1552	1349	1169	743	389	119	8663
	STD DEV	27	36	64	86	95	154	160	132	124	90	85	39	404
	31-60 AVERAGE	43	85	255	584	921	1399	1525	1343	1181	735	381	110	8563
	STD DEV	24	38	56	74	107	150	165	135	147	93	83	37	411
	41-70 AVERAGE	49	95	261	575	910	1402	1557	1350	1164	733	400	114	8609
	STD DEV	29	41	68	76	91	151	151	116	129	89	92	39	367
	51-80 AVERAGE	50	93	272	598	917	1393	1558	1353	1158	738	390	116	8635
	STD DEV	29	38	66	85	95	151	145	127	109	80	94	39	369
	61-90 AVERAGE	49	95	281	614	931	1395	1574	1357	1151	740	386	125	8697
	STD DEV	24	35	67	90	89	164	158	126	104	89	83	40	327
4301	71-00 AVERAGE	53	96	295	645	944	1366	1562	1339	1160	748	385	128	8722
	STD DEV	26	28	56	87	83	167	155	139	117	94	85	43	436
VT-02 Western 	31-00 AVERAGE	18	52	209	531	853	1276	1449	1268	1082	660	315	74	7785
	STD DEV	14	24	54	83	95	148	164	133	123	88	76	28	376
	31-60 AVERAGE	17	50	196	510	848	1278	1420	1257	1087	652	310	70	7694
	STD DEV	13	26	50	75	106	136	165	131	143	91	71	29	385
	41-70 AVERAGE	18	54	196	494	832	1287	1455	1264	1074	644	325	71	7714
	STD DEV	14	28	56	72	91	138	155	110	126	87	82	28	343
	51-80 AVERAGE	18	52	209	521	844	1284	1462	1278	1079	659	318	72	7794
	STD DEV	14	25	57	85	94	140	146	131	105	86	86	27	363
	61-90 AVERAGE	16	52	215	538	854	1293	1480	1288	1076	664	315	77	7867
	STD DEV	11	24	56	87	86	162	165	129	107	91	79	28	305
4302	71-00 AVERAGE	19	52	224	566	862	1260	1463	1263	1077	667	309	78	7841
	STD DEV	15	20	49	83	85	167	161	147	117	93	75	31	401
VT-03 Southeastern 	31-00 AVERAGE	33	75	243	579	868	1289	1438	1249	1084	688	353	102	8000
	STD DEV	19	33	56	79	90	142	154	127	116	89	79	34	444
	31-60 AVERAGE	37	81	246	575	891	1323	1435	1275	1127	705	365	108	8168
	STD DEV	19	33	57	74	96	135	160	134	137	99	76	36	444
	41-70 AVERAGE	37	84	241	558	869	1327	1461	1276	1104	690	375	106	8127
	STD DEV	21	37	63	71	86	136	139	114	123	95	87	37	389
	51-80 AVERAGE	35	77	243	572	855	1295	1447	1255	1081	683	365	105	8012
	STD DEV	21	33	64	82	85	133	127	115	100	81	87	37	349
	61-90 AVERAGE	31	73	244	581	852	1289	1463	1247	1061	682	352	105	7979
	STD DEV	18	33	60	87	83	141	144	114	87	84	80	31	326
4303	71-00 AVERAGE	27	65	243	594	848	1243	1421	1205	1041	668	329	95	7777
	STD DEV	15	25	44	85	82	151	155	122	92	81	70	35	408
VA-01 Tidewater 	31-00 AVERAGE	0	0	19	199	455	744	829	705	558	274	75	4	3863
	STD DEV	0	0	12	60	80	124	147	112	106	64	31	4	307
	31-60 AVERAGE	0	0	17	188	461	755	790	694	570	272	69	3	3819
	STD DEV	0	0	12	56	71	126	160	117	130	67	27	3	318
	41-70 AVERAGE	0	0	19	185	457	772	827	710	571	264	71	4	3879
	STD DEV	0	0	12	56	65	118	132	98	123	61	34	4	299
	51-80 AVERAGE	0	0	19	200	458	741	851	726	566	264	78	5	3907
	STD DEV	0	0	12	59	75	121	124	117	103	64	33	4	277
	61-90 AVERAGE	0	0	21	207	443	740	882	731	552	284	81	5	3947
	STD DEV	0	0	13	69	82	126	133	113	86	61	31	4	286
4401	71-00 AVERAGE	0	0	19	211	448	721	847	696	540	267	78	5	3831
	STD DEV	0	0	9	67	92	129	139	114	80	64	30	5	309
VA-02 Eastern Piedmont 	31-00 AVERAGE	0	1	40	261	521	813	881	734	580	279	92	7	4209
	STD DEV	0	1	20	70	82	126	149	112	113	64	37	6	318
	31-60 AVERAGE	0	0	35	242	528	816	830	718	592	274	80	5	4120
	STD DEV	0	1	19	61	72	126	155	115	141	66	29	6	302
	41-70 AVERAGE	0	0	41	248	529	842	877	743	594	266	84	7	4232
	STD DEV	0	1	22	68	66	120	134	101	133	63	39	6	311
	51-80 AVERAGE	0	0	41	267	529	820	909	760	588	267	94	9	4284
	STD DEV	0	1	21	69	77	124	129	119	112	62	39	7	293
	61-90 AVERAGE	0	1	44	273	508	815	941	763	571	287	100	8	4310
	STD DEV	0	1	22	82	84	130	137	115	90	64	37	6	318
4402	71-00 AVERAGE	0	1	41	275	512	793	904	727	566	279	102	9	4208
	STD DEV	0	1	17	77	96	129	142	114	85	64	36	7	328
VA-03 Western Piedmont 	31-00 AVERAGE	0	1	48	267	525	812	872	727	584	275	102	10	4224
	STD DEV	1	1	22	73	82	124	145	108	112	64	42	8	329
	31-60 AVERAGE	0	1	41	238	523	801	811	700	590	261	85	7	4058
	STD DEV	1	1	21	59	80	125	141	110	140	64	32	7	289
	41-70 AVERAGE	0	1	49	251	530	833	861	734	596	258	93	9	4216
	STD DEV	1	1	23	66	70	117	125	103	131	70	43	7	304
	51-80 AVERAGE	0	1	50	280	536	823	905	761	595	270	106	13	4340
	STD DEV	1	1	23	72	73	117	130	114	109	64	44	9	279
	61-90 AVERAGE	0	1	54	290	519	826	940	768	579	289	114	12	4393
	STD DEV	1	1	23	85	78	125	137	105	88	66	42	8	301
4403	71-00 AVERAGE	0	1	52	293	527	809	906	731	576	285	118	13	4311
	STD DEV	1	1	19	81	90	129	144	106	87	61	40	9	333



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

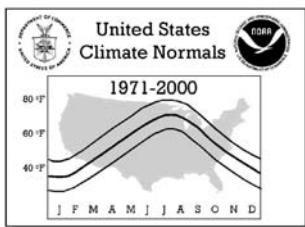
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Virginia – Washington

Page 60

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
VA-04 Northern 	31-00 AVERAGE	0	3	62	316	602	919	1004	850	695	371	141	14	4978
	STD DEV	1	3	26	75	83	127	155	117	115	75	50	10	327
	31-60 AVERAGE	0	2	57	294	608	925	956	841	713	371	128	12	4907
	STD DEV	1	2	27	68	77	124	166	126	139	87	41	9	365
	41-70 AVERAGE	0	2	58	292	601	942	992	853	699	349	129	12	4930
	STD DEV	1	2	26	71	67	121	141	103	132	74	53	8	315
	51-80 AVERAGE	0	2	57	316	604	919	1026	867	693	352	139	16	4991
	STD DEV	1	2	27	75	77	120	131	120	112	69	53	11	287
	61-90 AVERAGE	0	2	65	331	589	921	1060	876	678	374	147	15	5059
	STD DEV	1	2	27	84	81	133	139	109	94	67	49	10	265
VA-05 Central Mountain 	71-00 AVERAGE	1	3	66	339	595	899	1028	838	680	368	152	17	4985
	STD DEV	1	3	22	81	94	135	146	117	95	65	49	12	312
	31-00 AVERAGE	2	5	78	331	626	915	988	830	685	371	148	19	4997
	STD DEV	3	4	32	75	86	129	153	118	119	70	51	13	339
	31-60 AVERAGE	2	5	71	309	629	908	932	814	708	368	136	17	4899
	STD DEV	3	5	30	63	78	127	152	121	141	72	41	12	306
	41-70 AVERAGE	3	6	80	318	632	941	983	844	706	358	142	19	5030
	STD DEV	4	5	34	69	70	126	136	112	134	76	55	12	320
	51-80 AVERAGE	3	5	77	340	634	921	1021	859	691	361	149	23	5084
	STD DEV	3	4	35	77	79	127	141	127	120	69	56	15	313
VA-06 Southwestern Mountain 	61-90 AVERAGE	3	6	85	350	617	925	1055	866	668	381	157	23	5135
	STD DEV	3	4	35	90	86	136	145	117	99	69	52	13	326
	71-00 AVERAGE	2	5	80	349	621	903	1014	823	660	371	158	22	5008
	STD DEV	3	4	29	84	99	133	152	119	98	68	52	15	361
	31-00 AVERAGE	5	9	93	363	650	924	988	828	689	392	182	36	5159
	STD DEV	5	7	36	82	87	131	162	122	121	73	60	21	352
	31-60 AVERAGE	4	7	81	334	657	916	930	804	709	378	163	29	5011
	STD DEV	5	8	33	72	83	127	165	133	146	70	51	18	325
	41-70 AVERAGE	5	8	89	340	651	936	971	828	698	362	164	31	5084
	STD DEV	5	8	33	74	75	124	142	135	142	76	56	17	322
WA-01 West Olympic Coastal 	51-80 AVERAGE	6	8	90	373	656	925	1017	852	691	379	179	42	5217
	STD DEV	5	6	37	78	79	124	152	135	121	72	59	24	322
	61-90 AVERAGE	7	10	103	386	638	933	1056	866	669	404	195	43	5310
	STD DEV	4	7	37	93	87	141	153	116	96	75	57	21	323
	71-00 AVERAGE	6	10	103	390	644	922	1024	833	674	413	205	44	5270
	STD DEV	4	7	34	90	97	136	162	110	97	70	62	23	361
	31-00 AVERAGE	172	158	225	419	613	749	786	645	652	521	390	259	5589
	STD DEV	41	42	50	57	74	77	107	79	73	60	58	48	353
	31-60 AVERAGE	181	173	232	400	609	729	806	669	672	515	386	265	5637
	STD DEV	45	37	40	61	75	67	125	81	77	64	60	47	403
WA-02 NE Olympic San Juan 	41-70 AVERAGE	179	176	230	414	609	743	811	644	676	539	398	266	5684
	STD DEV	44	37	45	61	70	70	118	75	66	56	58	52	343
	51-80 AVERAGE	180	173	227	419	616	743	804	640	683	545	406	271	5708
	STD DEV	38	44	54	53	63	78	88	70	58	53	52	55	285
	61-90 AVERAGE	174	152	226	431	618	770	782	633	646	534	404	258	5629
	STD DEV	34	44	56	55	72	88	91	75	68	58	46	50	281
	71-00 AVERAGE	159	141	216	435	622	766	766	633	629	514	385	255	5521
	STD DEV	36	41	55	50	79	83	86	74	73	57	57	46	338
	31-00 AVERAGE	153	144	240	448	635	762	809	658	647	502	364	231	5593
	STD DEV	41	39	46	45	75	79	113	78	62	48	53	46	361
WA-03 Puget Sound Lowlands 	31-60 AVERAGE	167	163	250	440	637	746	829	684	668	503	369	242	5697
	STD DEV	46	34	40	53	73	66	134	83	65	52	56	47	413
	41-70 AVERAGE	159	161	245	448	635	761	832	654	669	515	372	234	5686
	STD DEV	47	36	44	53	67	69	127	68	57	45	56	52	377
	51-80 AVERAGE	154	151	236	453	639	755	825	648	667	518	372	236	5656
	STD DEV	42	41	50	40	64	79	94	64	56	43	52	57	322
	61-90 AVERAGE	151	137	238	459	639	780	804	644	639	513	372	228	5604
	STD DEV	31	38	49	39	78	91	97	70	57	44	40	45	252
	71-00 AVERAGE	139	125	229	454	635	774	788	644	625	493	352	225	5481
	STD DEV	32	36	47	34	84	90	89	73	59	47	50	43	310
WA-03 Puget Sound Lowlands 	31-00 AVERAGE	87	89	190	418	630	775	818	652	627	468	312	170	5236
	STD DEV	32	32	48	52	81	86	123	83	70	58	58	45	357
	31-60 AVERAGE	93	102	200	413	634	754	840	680	645	463	308	177	5307
	STD DEV	36	25	41	58	81	80	149	90	75	61	61	43	409
	41-70 AVERAGE	87	99	196	419	629	771	847	649	651	483	318	173	5323
	STD DEV	35	30	45	57	73	84	138	75	65	55	62	48	357
	51-80 AVERAGE	89	98	192	421	637	770	838	643	656	492	325	177	5339
	STD DEV	33	36	51	48	70	83	103	72	63	52	57	54	315
	61-90 AVERAGE	88	84	189	425	631	799	815	638	622	483	326	167	5265
	STD DEV	26	35	52	51	81	95	102	74	67	56	44	48	278
4503	71-00 AVERAGE	81	75	177	424	631	794	794	639	606	461	307	168	5157
	STD DEV	29	32	49	44	89	88	95	75	67	55	57	45	333



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

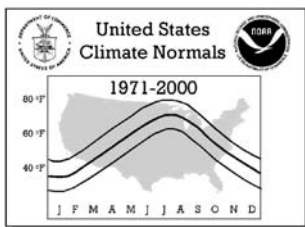
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Washington

Page 61

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WA-04 E Olympic Cascade Fthls 	31-00 AVERAGE	102	102	205	450	678	833	876	699	671	504	343	199	5663
	STD DEV	36	37	54	58	82	78	122	88	80	69	67	53	382
	31-60 AVERAGE	102	108	204	439	683	817	906	730	691	493	331	201	5704
	STD DEV	39	32	47	63	80	70	144	96	86	74	71	53	435
	41-70 AVERAGE	105	114	211	454	676	832	910	700	702	525	353	206	5786
	STD DEV	41	36	51	61	73	72	132	79	72	65	69	56	353
	51-80 AVERAGE	108	116	215	455	684	829	897	693	707	534	363	210	5813
	STD DEV	39	42	58	53	70	79	100	74	66	62	66	62	314
	61-90 AVERAGE	108	102	215	460	678	853	867	685	667	525	363	199	5721
	STD DEV	32	43	60	58	82	90	102	76	72	65	51	58	307
4504 WA-05 Cascade Mountains West 	71-00 AVERAGE	101	94	202	459	680	845	845	683	647	500	344	202	5601
	STD DEV	35	39	58	54	90	85	95	78	77	63	64	53	369
	31-00 AVERAGE	205	206	328	594	857	1038	1086	900	895	712	535	354	7711
	STD DEV	64	64	82	82	98	87	134	100	101	87	89	84	556
	31-60 AVERAGE	219	236	346	604	876	1038	1140	949	944	731	550	388	8021
	STD DEV	67	56	74	93	98	80	147	98	100	86	93	80	533
	41-70 AVERAGE	216	234	346	622	878	1061	1142	916	946	752	564	380	8056
	STD DEV	69	66	77	87	87	73	136	90	87	75	87	90	458
	51-80 AVERAGE	211	225	339	603	873	1044	1120	900	939	748	563	368	7933
	STD DEV	65	73	79	75	81	90	107	85	81	73	84	92	439
4505 WA-06 East Slope Cascades 	61-90 AVERAGE	203	192	332	591	853	1049	1065	878	878	718	544	337	7640
	STD DEV	56	65	84	80	95	102	109	80	80	85	68	79	354
	71-00 AVERAGE	193	178	308	580	842	1030	1031	866	844	679	513	331	7393
	STD DEV	62	58	86	76	105	95	109	90	91	83	86	77	475
	31-00 AVERAGE	93	108	270	593	918	1165	1224	966	875	624	410	224	7471
	STD DEV	38	43	72	66	98	112	162	113	88	80	78	63	451
	31-60 AVERAGE	96	123	270	584	921	1136	1258	1008	908	628	413	243	7587
	STD DEV	37	37	58	72	94	98	189	123	94	87	86	60	501
	41-70 AVERAGE	98	122	273	601	915	1153	1255	954	908	649	427	238	7594
	STD DEV	39	43	64	74	88	99	180	102	85	76	82	68	457
4506 WA-07 Okanogan Big Bend 	51-80 AVERAGE	94	118	281	603	924	1145	1240	944	909	653	430	229	7569
	STD DEV	38	48	71	64	88	105	149	95	80	70	78	72	375
	61-90 AVERAGE	95	103	285	605	915	1192	1209	939	860	633	424	211	7469
	STD DEV	36	46	82	67	103	127	141	91	74	78	61	65	362
	71-00 AVERAGE	88	91	268	596	925	1193	1197	949	840	608	399	212	7366
	STD DEV	40	39	81	63	110	126	134	94	79	76	74	61	418
	31-00 AVERAGE	36	50	199	525	891	1160	1242	957	797	515	295	133	6800
	STD DEV	22	26	65	71	110	125	185	141	91	78	74	48	463
	31-60 AVERAGE	34	57	195	507	901	1132	1274	1006	819	509	286	140	6861
	STD DEV	20	23	58	81	106	108	222	159	96	83	85	45	509
4507 WA-08 Central Basin 	41-70 AVERAGE	35	58	198	529	885	1147	1277	948	830	533	301	137	6878
	STD DEV	20	26	61	80	98	107	206	125	91	74	77	49	456
	51-80 AVERAGE	35	57	205	538	892	1146	1261	938	833	543	310	135	6891
	STD DEV	18	29	65	61	95	115	162	120	89	70	71	54	386
	61-90 AVERAGE	38	48	211	540	879	1188	1230	929	787	525	309	123	6806
	STD DEV	20	28	73	65	113	137	155	110	87	78	58	52	407
	71-00 AVERAGE	39	43	201	539	894	1190	1213	931	769	509	299	134	6761
	STD DEV	24	27	69	59	123	143	149	118	88	75	70	52	458
	31-00 AVERAGE	15	23	135	426	782	1024	1094	817	670	430	225	81	5723
	STD DEV	12	14	51	67	110	120	193	127	76	75	65	35	424
4508 WA-09 Northeastern 	31-60 AVERAGE	13	25	129	412	802	1006	1141	861	690	422	214	84	5799
	STD DEV	10	13	44	75	105	112	227	139	84	80	75	35	473
	41-70 AVERAGE	14	26	133	431	783	1017	1137	808	701	449	230	83	5811
	STD DEV	10	15	47	75	96	101	215	116	73	74	68	37	419
	51-80 AVERAGE	14	27	137	431	786	1004	1109	793	696	456	236	81	5771
	STD DEV	9	17	51	60	99	106	182	107	70	72	63	41	347
	61-90 AVERAGE	16	23	146	435	765	1047	1070	788	657	444	239	75	5705
	STD DEV	10	16	59	64	112	134	163	102	67	77	51	37	356
	71-00 AVERAGE	18	21	142	439	774	1046	1057	796	647	427	231	84	5682
	STD DEV	14	15	55	54	121	135	158	110	70	70	61	37	406
4509 WA-09 Northeastern 	31-00 AVERAGE	61	88	266	603	949	1194	1272	994	867	582	356	178	7410
	STD DEV	30	38	74	68	103	121	186	127	97	82	77	56	482
	31-60 AVERAGE	57	100	264	589	955	1168	1306	1040	889	570	342	183	7462
	STD DEV	24	33	61	73	102	108	224	143	100	85	84	53	513
	41-70 AVERAGE	62	102	272	611	949	1189	1309	991	909	607	369	189	7557
	STD DEV	25	39	71	75	89	108	201	106	94	80	81	53	444
	51-80 AVERAGE	64	99	279	619	962	1189	1297	980	913	619	381	187	7589
	STD DEV	26	44	78	63	86	122	162	100	88	75	77	56	398
	61-90 AVERAGE	65	84	280	618	947	1225	1269	973	866	602	379	174	7481
	STD DEV	30	42	86	67	103	135	152	95	95	84	59	62	421
4509 	71-00 AVERAGE	63	74	265	611	951	1219	1241	962	831	573	355	174	7317
	STD DEV	36	36	78	60	115	135	150	108	89	76	72	59	491



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

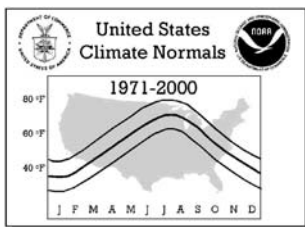
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Washington – West Virginia

Page 62

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WA-10 Palouse Blue Mountains 	31-00 AVERAGE	36	53	195	484	803	1016	1083	834	740	514	316	150	6225
	STD DEV	22	28	64	73	113	122	192	125	81	78	73	52	423
	31-60 AVERAGE	29	56	185	465	810	987	1120	875	755	497	296	151	6227
	STD DEV	16	24	54	77	109	110	228	135	88	78	79	47	457
	41-70 AVERAGE	33	57	190	480	798	1001	1122	823	770	522	315	152	6263
	STD DEV	19	27	64	85	91	97	210	101	80	78	73	50	383
	51-80 AVERAGE	35	59	194	485	806	994	1097	809	770	539	328	150	6265
	STD DEV	17	33	65	67	95	101	178	96	78	74	70	58	352
	61-90 AVERAGE	40	52	208	496	796	1047	1075	808	736	534	336	145	6272
	STD DEV	22	31	75	74	115	140	162	102	79	80	57	59	397
4510 WV-01 Northwestern 	71-00 AVERAGE	44	51	205	504	807	1048	1053	815	719	516	330	157	6249
	STD DEV	26	31	65	60	128	139	159	116	74	76	68	57	438
	31-00 AVERAGE	2	7	72	336	646	964	1060	902	739	406	175	23	5332
	STD DEV	3	6	31	78	90	143	171	132	127	80	60	15	354
	31-60 AVERAGE	1	6	65	320	663	970	1005	889	762	403	164	19	5268
	STD DEV	2	5	30	71	85	137	174	131	147	91	46	14	323
	41-70 AVERAGE	2	8	73	322	656	993	1063	913	756	390	170	22	5367
	STD DEV	3	6	33	79	74	140	153	119	137	87	61	13	317
	51-80 AVERAGE	3	7	73	350	654	972	1110	936	749	402	177	28	5461
	STD DEV	3	5	36	83	81	139	151	139	122	77	62	17	326
4601 WV-02 North Central 	61-90 AVERAGE	3	8	77	352	628	968	1129	939	721	414	183	28	5448
	STD DEV	3	6	35	91	88	155	159	131	110	74	65	15	346
	71-00 AVERAGE	3	7	76	352	629	942	1083	893	713	406	182	27	5313
	STD DEV	3	6	28	87	100	149	168	137	112	73	63	17	392
	31-00 AVERAGE	4	11	85	359	657	957	1045	889	733	408	182	32	5361
	STD DEV	4	8	35	84	92	144	177	134	131	78	61	20	376
	31-60 AVERAGE	3	8	73	329	661	950	976	859	746	391	162	24	5182
	STD DEV	3	6	32	73	88	139	183	136	157	85	44	17	343
	41-70 AVERAGE	4	11	84	340	663	982	1042	894	747	387	170	28	5351
	STD DEV	4	7	37	84	75	139	164	133	146	85	59	17	373
4602 WV-03 Southwestern 	51-80 AVERAGE	5	11	85	376	669	966	1095	927	743	408	186	37	5509
	STD DEV	4	7	39	85	80	138	156	147	126	77	63	23	346
	61-90 AVERAGE	5	13	93	384	648	967	1123	936	717	426	198	40	5549
	STD DEV	4	9	38	96	92	156	157	132	110	72	64	20	332
	71-00 AVERAGE	5	12	93	383	653	947	1081	895	719	421	200	40	5449
	STD DEV	4	9	29	91	104	150	164	132	110	72	66	22	367
	31-00 AVERAGE	1	4	58	298	592	883	966	807	644	327	136	18	4735
	STD DEV	2	4	28	78	90	139	169	131	127	74	52	13	343
	31-60 AVERAGE	1	3	49	277	604	883	905	788	668	319	124	14	4634
	STD DEV	2	3	25	71	87	133	172	135	150	77	41	12	330
4603 WV-04 Central 	41-70 AVERAGE	1	4	58	284	602	907	964	814	663	312	129	16	4754
	STD DEV	2	4	28	77	73	135	157	129	140	82	52	12	340
	51-80 AVERAGE	1	4	59	311	603	888	1008	839	651	325	139	22	4850
	STD DEV	2	3	31	82	80	138	156	142	125	74	54	15	337
	61-90 AVERAGE	1	5	65	317	576	890	1037	846	621	337	147	22	4863
	STD DEV	2	4	30	90	88	151	156	130	108	74	55	13	335
	71-00 AVERAGE	1	4	64	318	578	868	997	802	620	335	148	21	4757
	STD DEV	2	5	25	86	99	146	164	129	107	70	55	14	352
	31-00 AVERAGE	20	36	154	453	747	1043	1126	965	836	510	262	75	6226
	STD DEV	13	19	48	86	96	146	174	131	136	80	70	33	365
4604 WV-05 Southern 	31-60 AVERAGE	18	35	146	433	762	1041	1066	946	860	505	251	68	6131
	STD DEV	13	18	48	77	89	143	181	137	162	86	57	35	350
	41-70 AVERAGE	21	39	158	438	758	1072	1118	975	854	489	251	74	6247
	STD DEV	14	19	50	83	78	139	158	135	151	88	73	34	355
	51-80 AVERAGE	22	36	151	465	756	1052	1167	996	841	500	261	85	6332
	STD DEV	12	17	51	85	87	140	158	143	134	78	74	38	351
	61-90 AVERAGE	21	37	156	467	726	1049	1194	1000	809	516	267	82	6326
	STD DEV	12	19	51	100	94	157	163	129	112	76	72	31	359
	71-00 AVERAGE	20	36	158	471	735	1029	1159	963	814	515	274	81	6255
	STD DEV	12	20	41	96	110	152	167	124	117	74	75	33	382
4605 WV-05 Southern 	31-00 AVERAGE	5	8	89	360	652	941	1007	845	704	389	175	35	5209
	STD DEV	5	6	36	83	92	134	163	124	128	77	59	20	354
	31-60 AVERAGE	4	6	77	333	658	938	945	819	724	377	156	26	5063
	STD DEV	4	5	32	72	88	127	163	131	153	77	47	18	341
	41-70 AVERAGE	5	8	90	345	661	965	1000	852	722	371	166	33	5218
	STD DEV	5	7	38	79	77	129	150	135	145	87	59	19	386
	51-80 AVERAGE	6	8	89	375	664	947	1048	877	711	386	178	42	5332
	STD DEV	5	7	41	79	81	134	151	136	129	77	61	23	332
	61-90 AVERAGE	6	9	96	381	638	944	1077	884	681	400	188	42	5347
	STD DEV	4	7	39	96	90	149	153	120	104	78	57	18	328
4605	71-00 AVERAGE	5	9	94	379	642	928	1038	844	683	399	192	41	5254
	STD DEV	4	7	31	92	105	142	160	114	107	72	61	21	327



Section 3:

Heating Degree Days









Divisional Normals, 1971-2000 (and previous periods)







CLIMATOGRAPHY OF THE UNITED STATES NO. 85

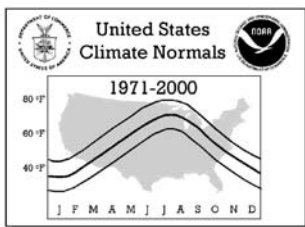
Temperature, Precipitation, and Degree Days

West Virginia – Wisconsin

Page 63

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WV-06 Northeastern 	31-00 AVERAGE	3	8	85	361	652	966	1051	889	742	414	170	22	5365
	STD DEV	3	7	33	76	85	130	157	117	116	74	56	14	313
	31-60 AVERAGE	3	8	81	344	664	976	1006	880	760	416	159	20	5316
	STD DEV	3	7	33	68	77	126	162	119	139	83	45	14	307
	41-70 AVERAGE	4	9	87	345	661	997	1051	901	755	401	165	22	5399
	STD DEV	3	8	36	73	70	125	141	101	130	80	61	14	301
	51-80 AVERAGE	4	8	84	369	659	970	1084	918	748	404	174	26	5447
	STD DEV	3	6	37	76	82	126	137	123	116	71	62	16	289
	61-90 AVERAGE	4	9	89	376	636	964	1105	918	726	421	178	25	5451
	STD DEV	3	7	36	88	84	137	149	118	96	67	59	13	293
WI-01 Northwest 	71-00 AVERAGE	3	9	87	376	641	941	1069	877	721	409	177	24	5334
	STD DEV	3	7	27	84	96	139	153	122	98	66	57	15	326
	31-00 AVERAGE	39	71	260	593	1056	1525	1705	1412	1199	714	372	125	9070
	STD DEV	24	32	63	101	120	163	180	166	154	105	92	47	551
	31-60 AVERAGE	37	67	253	580	1065	1506	1667	1440	1251	727	388	127	9109
	STD DEV	21	32	64	106	126	150	171	151	150	111	84	51	542
	41-70 AVERAGE	43	70	267	560	1048	1518	1707	1439	1227	706	392	131	9107
	STD DEV	24	33	60	100	114	134	161	112	161	104	86	50	418
	51-80 AVERAGE	42	76	269	583	1045	1533	1769	1440	1226	707	375	126	9190
	STD DEV	24	32	61	111	107	147	155	133	146	94	92	45	380
WI-02 North Central 	61-90 AVERAGE	37	76	267	602	1039	1563	1747	1425	1172	696	367	126	9117
	STD DEV	23	32	58	105	96	169	188	161	152	99	97	46	501
	71-00 AVERAGE	41	73	262	619	1056	1539	1719	1366	1148	699	349	120	8991
	STD DEV	27	33	65	90	127	188	190	182	141	108	96	44	617
	31-00 AVERAGE	57	95	286	618	1056	1504	1674	1411	1224	741	390	144	9200
	STD DEV	30	39	65	106	116	152	166	152	147	106	99	53	509
	31-60 AVERAGE	50	87	271	597	1066	1489	1633	1431	1269	746	392	137	9166
	STD DEV	27	38	65	106	121	135	156	133	150	112	92	54	507
	41-70 AVERAGE	60	94	289	578	1052	1504	1676	1435	1250	728	403	145	9211
	STD DEV	27	39	57	102	111	125	153	108	154	107	93	54	400
WI-03 Northeast 	51-80 AVERAGE	60	102	297	606	1048	1513	1729	1438	1248	738	395	149	9325
	STD DEV	26	37	62	118	109	137	151	126	135	88	101	50	367
	61-90 AVERAGE	56	103	298	630	1039	1539	1715	1426	1201	728	392	153	9280
	STD DEV	26	37	59	116	95	163	174	154	142	97	106	53	461
	71-00 AVERAGE	63	102	298	653	1056	1515	1695	1373	1183	738	385	149	9209
	STD DEV	32	39	68	99	123	179	175	170	137	110	107	51	579
	31-00 AVERAGE	46	81	257	584	996	1420	1585	1345	1168	709	370	127	8685
	STD DEV	27	35	63	104	111	146	163	139	132	100	93	49	511
	31-60 AVERAGE	35	65	228	549	982	1387	1520	1339	1190	703	361	114	8474
	STD DEV	20	31	59	97	119	125	150	128	138	107	82	47	487
WI-04 West Central 	41-70 AVERAGE	46	76	254	543	988	1415	1575	1355	1185	694	379	124	8634
	STD DEV	23	34	51	96	107	115	146	104	140	103	88	47	410
	51-80 AVERAGE	48	85	269	576	999	1434	1635	1376	1195	710	373	131	8833
	STD DEV	24	32	56	111	104	127	146	123	120	89	98	46	387
	61-90 AVERAGE	49	93	280	607	1001	1466	1644	1378	1167	708	377	140	8910
	STD DEV	24	32	52	112	89	153	160	139	127	95	103	50	415
	71-00 AVERAGE	55	92	281	628	1010	1446	1629	1330	1144	712	371	136	8833
	STD DEV	29	35	61	98	113	173	163	153	130	105	102	48	531
	31-00 AVERAGE	19	43	190	516	974	1425	1604	1315	1091	606	285	74	8141
	STD DEV	14	22	56	101	117	164	185	164	151	104	85	36	521
WI-05 Central 	31-60 AVERAGE	16	37	177	502	980	1405	1563	1338	1134	616	287	72	8130
	STD DEV	11	22	57	108	122	144	171	155	151	109	84	39	534
	41-70 AVERAGE	20	39	193	484	961	1415	1598	1333	1119	598	294	75	8130
	STD DEV	12	21	51	103	112	140	160	116	159	107	82	38	394
	51-80 AVERAGE	20	44	197	508	963	1426	1662	1339	1122	604	285	75	8244
	STD DEV	13	20	51	115	106	147	172	141	147	98	83	34	387
	61-90 AVERAGE	19	46	200	528	958	1464	1647	1332	1069	594	285	77	8218
	STD DEV	13	21	48	106	94	172	203	156	153	102	88	35	460
	71-00 AVERAGE	22	47	197	542	981	1441	1621	1280	1047	597	280	75	8128
	STD DEV	17	23	57	91	125	191	199	178	137	107	86	32	575
WI-05 Central 	31-00 AVERAGE	23	52	202	526	963	1397	1565	1305	1102	632	311	87	8163
	STD DEV	16	26	57	99	115	155	174	151	149	101	88	39	504
	31-60 AVERAGE	21	47	193	516	980	1393	1539	1338	1154	646	321	87	8234
	STD DEV	15	27	58	106	122	141	164	136	149	105	84	41	507
	41-70 AVERAGE	27	54	214	503	966	1410	1583	1338	1141	627	329	93	8284
	STD DEV	16	29	50	104	113	134	150	106	154	100	86	42	389
	51-80 AVERAGE	26	57	215	526	962	1407	1629	1336	1139	634	318	93	8340
	STD DEV	16	25	52	111	108	134	158	125	140	91	89	39	346
	61-90 AVERAGE	22	57	210	536	941	1424	1601	1312	1079	617	309	90	8197
	STD DEV	15	25	50	104	89	161	189	145	143	99	94	40	449
WI-05 Central 	71-00 AVERAGE	23	53	202	545	953	1393	1567	1256	1046	615	296	84	8032
	STD DEV	16	25	59	91	120	180	184	161	137	105	90	35	537

Climate Division		Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL	
WI-06 East Central		31-00 AVERAGE	21	44	174	493	896	1304	1468	1248	1079	666	348	100	7840	
		STD DEV	15	23	50	89	104	147	163	136	124	88	84	41	459	
		31-60 AVERAGE	17	37	165	475	905	1294	1427	1261	1110	668	353	97	7808	
		STD DEV	13	23	52	92	114	130	147	125	129	97	73	42	458	
		41-70 AVERAGE	22	43	179	464	893	1312	1472	1265	1098	647	359	102	7854	
		STD DEV	14	25	45	90	103	123	141	101	131	86	79	42	370	
		51-80 AVERAGE	23	47	181	490	894	1314	1521	1274	1103	663	351	105	7967	
		STD DEV	14	22	44	98	100	129	155	119	116	79	85	39	362	
		61-90 AVERAGE	21	48	180	504	882	1333	1512	1265	1066	662	347	105	7926	
		STD DEV	12	22	42	95	80	157	176	134	119	82	92	42	417	
4706	71-00 AVERAGE	23	48	181	519	895	1307	1488	1222	1046	666	339	101	7833		
	STD DEV	16	23	51	82	104	173	174	149	118	90	93	40	512		
	WI-07 Southwest		31-00 AVERAGE	15	37	161	474	911	1334	1504	1228	1018	569	266	61	7579
			STD DEV	12	21	51	98	114	159	184	157	145	98	80	31	473
31-60 AVERAGE			12	29	146	453	917	1312	1456	1234	1053	570	266	59	7507	
STD DEV			9	16	52	102	120	142	165	148	151	101	79	34	505	
41-70 AVERAGE			16	34	162	444	901	1333	1503	1241	1047	555	269	63	7567	
STD DEV			10	19	46	102	108	142	152	117	155	100	78	33	384	
51-80 AVERAGE			16	38	163	468	904	1337	1562	1258	1051	567	263	63	7689	
STD DEV			11	19	45	108	105	143	175	144	144	93	78	30	366	
61-90 AVERAGE			15	41	167	486	891	1368	1550	1253	998	560	263	63	7653	
STD DEV			10	20	41	104	91	168	202	151	143	97	82	30	401	
4707	71-00 AVERAGE	18	42	171	504	916	1349	1529	1208	980	568	265	63	7614		
	STD DEV	14	24	52	89	120	180	198	173	133	103	81	27	496		
	WI-08 South Central		31-00 AVERAGE	12	37	153	467	882	1302	1462	1210	1008	572	271	62	7436
			STD DEV	9	22	50	99	111	156	180	151	141	96	81	31	467
31-60 AVERAGE			9	29	135	440	883	1278	1405	1212	1037	569	272	60	7330	
STD DEV			7	18	50	95	119	139	160	141	153	102	77	34	481	
41-70 AVERAGE			13	34	150	434	876	1303	1460	1223	1033	552	277	63	7416	
STD DEV			8	21	45	96	107	142	152	115	152	97	79	33	384	
51-80 AVERAGE			13	38	152	460	880	1307	1519	1238	1038	564	268	63	7541	
STD DEV			8	20	43	108	105	140	172	139	138	90	79	31	393	
61-90 AVERAGE			12	43	163	487	872	1339	1517	1240	997	566	271	65	7573	
STD DEV			8	21	41	110	90	166	195	144	135	93	85	30	390	
4708	71-00 AVERAGE	14	44	167	503	889	1317	1494	1195	976	576	268	63	7505		
	STD DEV	10	24	51	96	116	178	190	170	129	99	83	27	494		
	WI-09 Southeast		31-00 AVERAGE	13	32	139	446	845	1248	1402	1169	994	599	304	79	7269
			STD DEV	10	19	46	90	108	153	174	141	133	89	84	36	446
31-60 AVERAGE			11	25	128	424	856	1237	1353	1177	1024	595	304	76	7210	
STD DEV			9	17	49	89	115	139	159	134	146	97	81	40	463	
41-70 AVERAGE			15	31	140	420	846	1259	1404	1185	1016	579	309	80	7284	
STD DEV			10	20	42	91	103	140	146	110	142	90	82	37	366	
51-80 AVERAGE			15	34	140	442	844	1254	1456	1193	1019	593	301	81	7370	
STD DEV			9	18	40	99	101	136	165	128	125	86	82	34	367	
61-90 AVERAGE			14	36	146	464	829	1278	1455	1193	982	598	306	82	7381	
STD DEV			9	18	38	99	83	163	187	134	123	87	88	33	376	
4709	71-00 AVERAGE	15	36	149	474	841	1250	1428	1148	961	601	301	81	7283		
	STD DEV	11	20	46	87	113	174	184	155	118	91	85	32	479		
	WY-01 Yellowstone DB		31-00 AVERAGE	170	211	458	778	1163	1453	1544	1266	1208	884	616	365	10116
			STD DEV	53	59	89	96	117	134	163	128	136	100	83	85	519
31-60 AVERAGE			179	228	461	768	1176	1422	1566	1302	1262	895	625	394	10276	
STD DEV			49	46	79	93	112	124	179	128	111	86	93	89	470	
41-70 AVERAGE			183	225	470	768	1154	1450	1574	1279	1281	913	631	402	10329	
STD DEV			48	53	96	101	99	108	157	110	114	84	79	84	344	
51-80 AVERAGE			167	217	455	768	1165	1455	1569	1259	1257	912	620	364	10207	
STD DEV			43	57	93	86	103	132	156	106	124	89	68	74	377	
61-90 AVERAGE			163	208	465	788	1148	1500	1553	1260	1191	887	615	341	10117	
STD DEV			40	62	103	110	109	145	155	113	147	116	70	77	510	
4801	71-00 AVERAGE	163	191	450	794	1167	1471	1514	1237	1131	857	608	332	9913		
	STD DEV	61	63	84	95	131	150	151	129	120	111	80	76	571		
	WY-02 Snake DB		31-00 AVERAGE	190	232	472	797	1199	1542	1607	1329	1264	917	627	381	10558
			STD DEV	54	55	73	84	122	128	142	119	113	92	80	70	442
31-60 AVERAGE			180	228	455	764	1193	1499	1627	1344	1293	909	620	386	10496	
STD DEV			43	41	56	71	134	126	157	126	106	91	90	74	473	
41-70 AVERAGE			181	226	461	776	1180	1517	1621	1327	1307	917	616	391	10519	
STD DEV			39	49	77	92	120	100	158	122	106	82	80	69	373	
51-80 AVERAGE			179	238	469	795	1191	1533	1601	1319	1303	939	619	375	10560	
STD DEV			35	64	78	82	115	115	154	118	112	78	78	66	409	
61-90 AVERAGE			186	239	488	819	1196	1580	1610	1331	1260	927	635	372	10643	
STD DEV			44	67	86	96	94	129	135	112	120	95	69	67	431	
4802	71-00 AVERAGE	209	243	492	833	1228	1589	1595	1328	1223	922	647	382	10689		
	STD DEV	64	64	69	67	109	126	123	107	103	97	69	72	408		



Section 3:

Heating Degree Days








Divisional Normals, 1971-2000 (and previous periods)

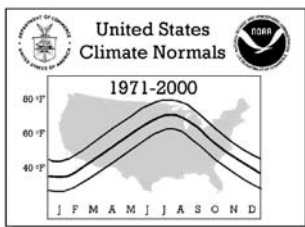
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Wyoming

Page 65

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WY-03 Green and Bear DB 	31-00 AVERAGE	97	137	390	734	1138	1458	1546	1282	1176	822	540	282	9603
	STD DEV	39	42	77	85	120	141	143	136	123	98	79	69	471
	31-60 AVERAGE	91	132	368	709	1128	1413	1561	1292	1204	813	528	280	9518
	STD DEV	30	35	63	74	127	131	154	140	108	89	89	70	437
	41-70 AVERAGE	96	141	390	732	1124	1441	1552	1282	1233	833	539	300	9663
	STD DEV	26	42	84	96	121	111	142	139	112	92	75	65	366
	51-80 AVERAGE	91	147	396	732	1143	1450	1542	1273	1220	850	545	281	9669
	STD DEV	24	46	82	86	111	131	145	135	125	82	71	64	411
	61-90 AVERAGE	95	147	411	750	1139	1495	1542	1280	1176	834	555	280	9704
	STD DEV	29	46	89	102	98	147	139	128	134	108	64	68	494
4803 WY-04 Big Horn 	71-00 AVERAGE	106	140	403	752	1162	1491	1535	1282	1122	818	552	276	9639
	STD DEV	48	43	72	74	119	152	142	130	112	108	70	71	522
	31-00 AVERAGE	35	51	273	590	1005	1312	1411	1109	977	648	377	156	7943
	STD DEV	24	25	80	91	137	146	189	163	126	98	86	57	465
	31-60 AVERAGE	30	48	257	567	999	1281	1421	1154	1016	643	367	159	7941
	STD DEV	20	17	62	93	134	117	204	176	112	97	99	62	457
	41-70 AVERAGE	34	51	277	573	989	1301	1420	1106	1031	652	378	172	7984
	STD DEV	20	23	89	110	122	105	180	131	125	105	81	59	356
	51-80 AVERAGE	34	57	276	582	1011	1302	1435	1090	1010	675	382	155	8008
	STD DEV	20	29	89	95	118	144	185	125	124	94	73	57	406
4804 WY-05 Powder, Little MO, Tongue 	61-90 AVERAGE	34	58	295	603	1003	1354	1421	1093	964	653	391	152	8021
	STD DEV	18	30	95	97	130	170	186	136	126	106	70	53	446
	71-00 AVERAGE	41	54	282	615	1026	1338	1400	1083	924	641	386	150	7939
	STD DEV	30	30	74	65	153	176	180	159	110	100	79	55	539
	31-00 AVERAGE	46	70	286	608	1018	1306	1405	1140	1038	704	428	188	8238
	STD DEV	29	34	81	95	138	158	189	166	135	103	93	63	493
	31-60 AVERAGE	44	69	274	579	1005	1255	1402	1180	1089	707	429	199	8232
	STD DEV	25	27	71	95	137	121	200	182	122	108	110	70	491
	41-70 AVERAGE	47	67	285	578	993	1278	1400	1132	1089	697	427	204	8196
	STD DEV	26	33	94	110	126	126	173	133	144	111	91	68	407
4805 WY-06 Belle Fourche DB 	51-80 AVERAGE	46	73	282	592	1018	1299	1440	1124	1064	713	418	180	8249
	STD DEV	30	38	94	101	115	157	180	129	134	98	73	61	470
	61-90 AVERAGE	45	75	303	623	1023	1366	1423	1131	1019	698	431	177	8313
	STD DEV	27	40	92	99	129	175	192	132	133	106	73	57	482
	71-00 AVERAGE	48	67	289	638	1045	1346	1403	1115	973	693	424	172	8212
	STD DEV	35	37	70	68	151	187	191	163	104	100	82	56	552
	31-00 AVERAGE	45	56	268	591	1013	1307	1412	1149	1051	696	409	174	8169
	STD DEV	29	31	84	97	136	153	192	172	142	103	92	62	479
	31-60 AVERAGE	39	48	249	563	1003	1261	1406	1189	1099	699	406	180	8143
	STD DEV	28	22	73	104	134	117	206	189	130	110	110	70	471
4806 WY-07 Cheyenne Niobrara DB 	41-70 AVERAGE	49	57	280	572	1001	1291	1415	1153	1113	703	421	196	8253
	STD DEV	26	29	91	115	125	121	179	132	151	116	86	63	370
	51-80 AVERAGE	49	65	278	586	1024	1309	1460	1148	1082	715	416	172	8304
	STD DEV	28	34	93	101	112	143	173	131	141	99	72	58	396
	61-90 AVERAGE	45	65	288	606	1014	1363	1430	1142	1031	688	415	166	8252
	STD DEV	23	35	92	96	126	169	191	134	138	103	76	54	458
	71-00 AVERAGE	51	60	275	621	1035	1340	1408	1117	992	684	408	163	8154
	STD DEV	33	35	72	60	151	182	190	170	116	98	80	55	542
	31-00 AVERAGE	27	37	238	565	992	1285	1368	1111	1007	665	377	143	7813
	STD DEV	21	20	76	90	134	152	183	165	136	102	89	56	461
4807 WY-08 Lower Platte 	31-60 AVERAGE	28	36	230	549	988	1239	1359	1142	1057	679	388	156	7849
	STD DEV	23	18	66	95	127	120	193	177	126	110	104	63	482
	41-70 AVERAGE	31	37	249	556	976	1271	1371	1112	1072	672	390	162	7898
	STD DEV	22	20	85	103	124	118	163	130	145	117	86	61	367
	51-80 AVERAGE	28	40	247	564	999	1282	1412	1107	1039	680	378	137	7913
	STD DEV	20	21	88	96	109	140	171	130	139	98	68	56	358
	61-90 AVERAGE	23	39	250	573	987	1336	1388	1107	985	649	372	129	7838
	STD DEV	14	22	86	93	134	167	185	135	134	101	73	47	424
	71-00 AVERAGE	28	37	238	584	1014	1318	1371	1088	946	648	368	130	7768
	STD DEV	22	22	67	59	152	181	184	166	104	94	75	49	501
4808 WY-08 Lower Platte 	31-00 AVERAGE	19	33	229	551	932	1172	1243	1031	966	661	384	138	7360
	STD DEV	13	17	68	84	118	128	159	135	125	101	84	52	390
	31-60 AVERAGE	18	29	217	534	930	1137	1247	1059	1005	665	389	140	7369
	STD DEV	14	14	58	80	111	117	168	147	116	103	94	58	396
	41-70 AVERAGE	20	32	232	540	916	1159	1244	1035	1029	662	386	154	7407
	STD DEV	14	19	76	104	112	103	149	121	130	114	82	57	326
	51-80 AVERAGE	19	37	234	546	942	1165	1272	1029	1005	678	387	137	7452
	STD DEV	14	20	80	96	103	124	150	115	130	94	71	55	333
	61-90 AVERAGE	18	39	245	561	930	1212	1258	1031	959	657	388	136	7434
	STD DEV	11	19	78	97	112	140	165	110	130	105	72	48	365
4808	71-00 AVERAGE	21	35	234	568	949	1197	1239	1010	910	654	384	131	7331
	STD DEV	13	17	64	56	132	142	157	129	94	101	76	48	423



Section 3:

Heating Degree Days






Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Alaska

Page 67

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
AK-05 Cook Inlet  5005	31-00 AVERAGE	264	330	551	966	1318	1567	1610	1315	1275	904	624	359	11083
	STD DEV	39	50	59	111	168	220	240	193	154	93	61	58	652
	31-60 AVERAGE	266	328	547	931	1294	1603	1633	1311	1292	894	618	347	11065
	STD DEV	39	50	45	115	183	228	237	204	143	89	55	62	704
	41-70 AVERAGE	272	337	547	963	1329	1625	1637	1312	1296	923	627	358	11225
	STD DEV	37	49	50	100	181	245	215	181	179	79	66	62	625
	51-80 AVERAGE	269	331	549	973	1314	1626	1657	1335	1322	923	637	373	11307
	STD DEV	41	48	49	97	183	228	223	180	175	86	67	64	646
	61-90 AVERAGE	268	333	550	984	1352	1552	1594	1327	1265	932	637	381	11176
	STD DEV	37	51	52	96	161	233	273	184	176	98	66	54	615
AK-06 Bristol Bay  5006	31-00 AVERAGE	315	352	536	952	1247	1546	1581	1353	1356	1001	701	435	11375
	STD DEV	58	58	67	110	174	257	289	236	215	136	87	69	868
	31-60 AVERAGE	317	357	544	935	1292	1640	1652	1347	1425	1008	699	431	11648
	STD DEV	70	65	68	122	197	243	302	230	179	131	76	82	819
	41-70 AVERAGE	325	360	546	972	1279	1664	1645	1381	1404	1036	715	431	11758
	STD DEV	50	56	59	108	195	251	278	229	219	104	83	66	706
	51-80 AVERAGE	331	358	547	971	1237	1626	1624	1408	1424	1049	729	454	11757
	STD DEV	49	55	50	108	171	240	284	218	235	126	92	71	834
	61-90 AVERAGE	325	352	533	969	1233	1482	1526	1377	1322	1035	724	454	11333
	STD DEV	45	56	54	102	149	248	303	244	240	135	93	57	824
AK-07 West Central  5007	31-00 AVERAGE	389	443	652	1104	1456	1831	1892	1672	1721	1288	878	522	13849
	STD DEV	58	65	75	99	161	219	263	228	205	173	113	85	742
	31-60 AVERAGE	379	433	652	1074	1467	1863	1927	1641	1720	1222	854	477	13707
	STD DEV	54	48	62	97	184	197	281	188	196	173	103	94	706
	41-70 AVERAGE	397	446	645	1095	1445	1882	1865	1649	1718	1284	871	519	13817
	STD DEV	56	52	59	98	170	207	250	212	221	145	119	87	650
	51-80 AVERAGE	404	437	644	1112	1433	1881	1869	1715	1749	1331	873	550	13997
	STD DEV	62	65	55	95	165	213	260	229	236	165	120	77	811
	61-90 AVERAGE	402	443	649	1119	1449	1793	1837	1718	1717	1361	901	564	13953
	STD DEV	61	80	65	85	148	229	278	270	219	169	120	58	751
AK-08 Interior Basin  5008	31-00 AVERAGE	199	362	681	1301	1865	2232	2305	1906	1753	1144	641	269	14658
	STD DEV	51	71	90	151	213	261	303	247	198	148	98	63	823
	31-60 AVERAGE	211	372	684	1255	1848	2272	2310	1906	1789	1160	653	269	14729
	STD DEV	47	60	71	145	228	265	309	245	167	141	88	72	784
	41-70 AVERAGE	217	375	692	1300	1872	2294	2333	1894	1782	1193	667	281	14898
	STD DEV	51	68	72	151	220	281	269	228	222	116	100	75	710
	51-80 AVERAGE	215	357	691	1324	1856	2311	2381	1947	1814	1184	658	290	15029
	STD DEV	50	77	72	150	236	273	282	237	225	128	98	62	783
	61-90 AVERAGE	198	355	679	1325	1895	2213	2311	1939	1749	1176	645	282	14766
	STD DEV	52	80	78	145	212	286	335	252	227	139	100	57	826
AK-09 Arctic Drainage Basin  5009	31-00 AVERAGE	571	644	893	1442	1886	2277	2371	2209	2312	1801	1241	753	18399
	STD DEV	109	100	91	152	200	196	226	220	181	164	106	98	784
	31-60 AVERAGE	629	677	897	1363	1827	2244	2394	2197	2309	1778	1282	814	18411
	STD DEV	110	85	79	110	190	176	230	198	182	156	100	95	833
	41-70 AVERAGE	597	658	886	1406	1831	2280	2330	2196	2312	1794	1244	783	18317
	STD DEV	99	85	76	143	184	185	219	210	196	168	101	86	864
	51-80 AVERAGE	586	640	891	1466	1874	2328	2339	2250	2337	1819	1237	764	18530
	STD DEV	76	107	88	139	180	208	219	204	200	142	88	82	757
	61-90 AVERAGE	540	619	883	1497	1928	2278	2317	2213	2301	1826	1209	717	18328
	STD DEV	87	109	90	151	201	214	241	265	183	178	98	78	717
5009	71-00 AVERAGE	502	600	889	1507	1957	2312	2384	2207	2319	1821	1201	685	18383
	STD DEV	74	101	110	152	205	213	228	243	165	168	97	57	714

[illegible]