

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

**Heating Degree Days** 

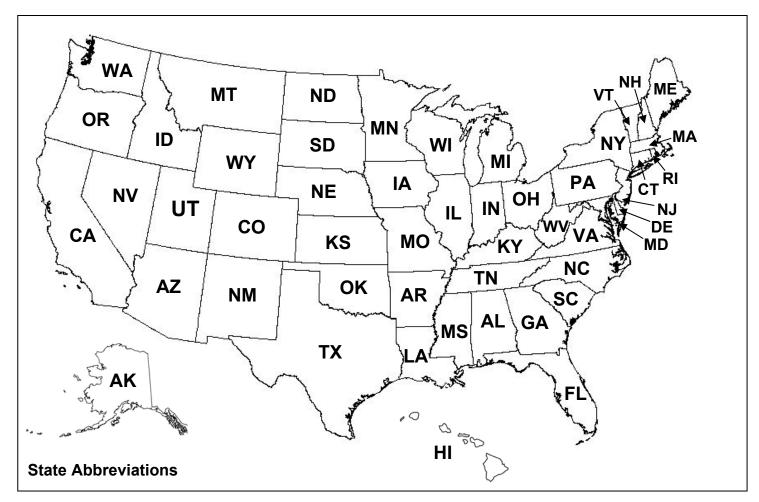
Divisional Normals, 1971-2000 (and previous periods)

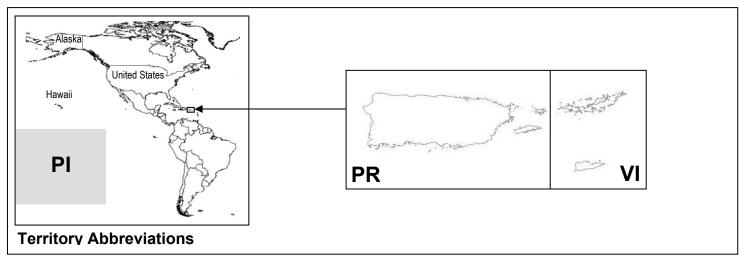
CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Temperature (°F), Precipitation (inches), and Degree Days

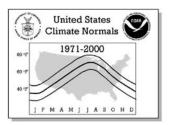
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# Divisional Normals Sections (Present Section Highlighted):

Section 1: Temperature Section 3: Heating Degree Days Section 5: 1971-2000 Maps Section 2: Precipitation Section 4: Cooling Degree Days Section 6: 1931-2000 Maps







**Heating Degree Davs** 

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 Climatography 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.

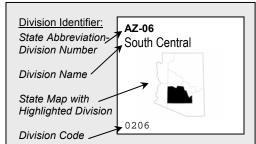
**51-80** = 1951 through 1980 Normal Period of Record.

**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 = Hyrdrological 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.

<u>Divisional Maps Supplement:</u> 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.

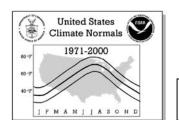
Guttman, N.B. and R.G. Quayle, 1995: "A Historical Perspective of U.S. Climate Divisions", Bulletin of the American Meteorological Society, Statistical descriptors of climate, Bulletin of the American Meteorological Society, Vol. 77, no. 2, pp. 293-303.

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

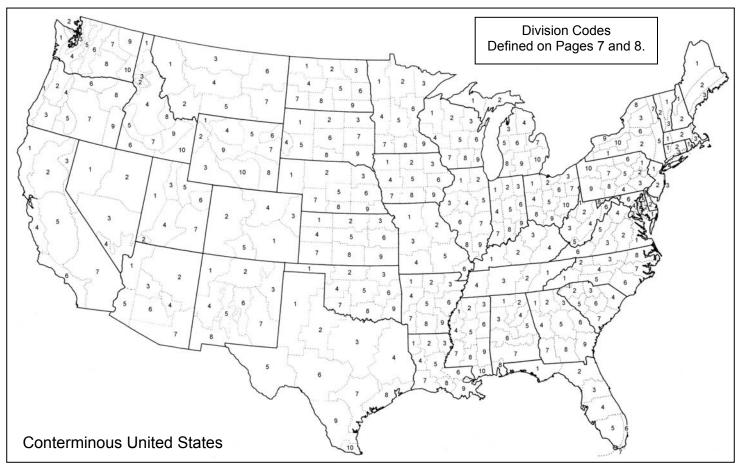


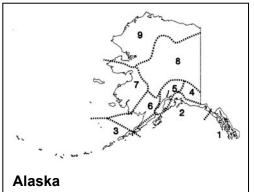
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

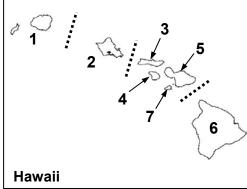
Temperature (°F), Precipitation (inches), and Degree Days

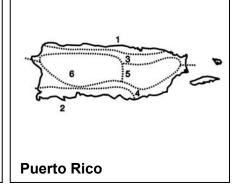
### **United States Climate Divisions**

**Heating Degree Days** 









		State Identification	Codes	(Code/State Name/Abbrevia	ition)		
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		

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**

**Heating Degree Days** 

	Divisional	Population	n by State (	(Code/State A	bbreviation/S	tate 2000 Popu	lation/Divisio	nal Populatior	1)	
Census 2000				Population	n by Division	Number				
State Population	01	02	03	04	05	06	07	08	09	10
·	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 04 CA 33,871,648	393,233 1,261,635	159,275	371,927	334,255	688,777	246,291 17,697,130	135,333	172,053	172,256	
05 CO 4,301,261	801,985	464,447		2,958,506	46,540	17,057,150	2,101,201			
06 CT 3,405,565	155,900	2,029,652	1,220,013							
07 DE 783,600	465,853	317,747		2 000 005	1 177 452	4 002 142	44 720			
08 FL 15,982,378 09 GA 8,186,453	1,222,284 577,068	3,398,646		1,248,322	833,483	4,903,143 517,317	44,739 334,897	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		8,432,331	255,114	707,767	471,451	692,910	337,308	494,209		
12 IN 6,080,485 13 IA 2,926,324	861,318 253,932	712,674 172,771	635,442 374,608	432,173 173,053	1,899,978 720,621	342,095 652,288	501,206 173,259	425,031 196,917		
14 KS 2,688,418	35,050	68,809	360,803	26,918	201,777	932,885	141,515	620,092		
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 18 MD* 5,868,545	97,507 156,417	527,485 95,919	649,931 288,491	2,024,207	56,477	3,018,686	187,488	40,860		
19 MA 6,349,097 20 MI 9,938,444	167,648 202,459	3,491,578 114,685		219,456	284,596	379,775	176 066	1 /21 /05	1,092,001	E 160 611
					·					3,400,044
21 MN 4,919,479 22 MS 2,844,658	181,282 104,058	148,207 297,255	216,732 250,688	182,056 182,701	683,500 352,999	2,323,929 257,538	121,954 419,065	331,475 203,471		448,974
23 MO 5,595,211	1,265,201	2,198,238	472,883	779,640	729,367	149,882		203,171	327,700	110,571
24 MT 902,195 25 NE 1,711,263	285,004 90,363	126,851 34,221	68,031 146,376	166,577	179,935 146,379	46,386 1,040,820	29,411 72,038	67,337	113,729	
				1 206 005		_,,,,,,,	. = 7	,	,	
26 NV 1,998,257 27 NH 1,235,786	517,889 60,863	61,911 1,174,923	21,572	1,396,885						
28 NJ 8,414,350	4,776,329	3,410,745	227,276	F0 F16	740 104	76 022	175 462	010 061		
29 NM 1,819,046 30 NY 18,976,457	191,671 318,546	274,718 725,220	80,460 74,691	58,516 9,429,541	749,124 4,359,020	76,233 401,815	175,463 132,614	212,861 144,961	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 34 OK 3,450,654	948,054 36,959	677,071 161,579	2,843,702 921,156		1,714,244 1,349,891	425,588 311,250	992,821 209,779	2,389,912 260,072		450,388
35 OR 3,421,399		2,397,830	352,718	5,928	4,099	129,953	228,385	56,854		
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 39 SD 754,844	33,146 16,914	1,082,205 27,917	337,665 66,762	619,456 99,556	330,622 69,498	802,096 34,692	806,822 123,619	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 43 VT 608,827	12,351 193,584		1,576,700 106,916	104,904	358,116	39,595	51,327			
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 48 WY 493,782	351,396 3,872	305,694 26,399	163,836 69,700	356,975 46,500	292,562 34,405	932,204 39,086	206,116 7,187	821,015 166,841	1,933,877 35,847	63,945
50 AK 626,932	72,274	14,721	8,162	10,195	371,189	8,003	32,230	95,565		03,943
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 91 PI 281,317	51,181	53,234 57,291	4,197 154,805	69,221						
	04 3				E C-1- 1	-1-				
*Maryland Division	u v4 includ	ies populat	LION IOT th	ne pistrict	OI COLUM	Jia.				

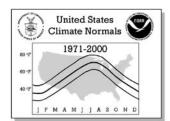
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

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

### **United States Climate Divisions**

**Heating Degree Days** 

		nber	vision Num	niles) by Di	(square n	Area				State Area	
10	09	08	07	06	05	04	03	02	<b>s)</b> 01	(square mile	(
		2,885	14,719	7,716	5,006	4,000	7,648	5,027	4,609	51,610	1 AL
			23,294	14,649	10,013	4,761	8,110	39,777	13,305	113,909	2 AZ
	4,700	6,680	5,056	7,004	5,241	6,723	7,376	5,539	4,785	53,104	3 AR
	,	•	45,640	14,028	33,119	10,585	6,697	27,073	21,551	158,693	4 CA
			, ,	,	7,662	21,193	8,684	38,519	28,188	104,246	5 CO
							744	3,251	1,014	5,009	6 CT
								1,603	454	2,057	7 DE
				2,553	10,957	11,806	7,870	13,211	12,163	58,560	8 FL
	8,390	8,266	6,871	5,823	9,308	7,018	3,379	6,100	3,721	58,876	9 GA
12,876	8,297	4,938	4,721	8,514	6,334	29,120	1,621	2,691	4,445	83,557	0 ID
,	4,664	5,414	7,507	7,535	5,713	6,176	5,555	6,593	7,242	56,399	1 IL
	2,780	3,970	5,026	2,602	6,115	4,152	3,582	3,887	4,177	36,291	2 IN
	5,387	5,578	4,993	6,062	7,357	7,368	6,597	6,096	6,850	56,288	3 IA
	10,349	11,221	11,862	8,761	9,000	8,004	6,310	8,934	7,823	82,264	4 KS
	_0,010	,	,002	0,,01	2,000	12,809	8,564	9,174	9,848	40,395	5 KY
	6,162	3,421	7,584	5,148	7,802	3,955	4,401	6,114	3,935	48,522	6 LA
	0,102	5,121	,,501	5,110	,,002	5,755	4,992	10,307	17,916	33,215	7 ME
		710	951	3,586	703	967	1,118	1,263	1,280	10,578	8 MD*
		710	751	3,300	703	307	2,462	4,217	1,578	8,257	9 MA
6,741	6,526	4,593	4,314	4,686	3,021	6,613	4,832	6,945	9,943	58,214	0 MI
0,741	5,977	6,456	6,129	9,029	10,189	9,601	10,315	13,241	13,131	84,068	1 MN
3,607	6,127	4,399	6,308	5,330	6,179	4,251	3,693	4,791	3,030	47,715	2 MS
3,007	0,127	4,399	0,300	4,125	15,087	11,512	10,265	13,993	14,704	69,686	2 MS 3 MO
			19,834	22,321	17,421	22,144	26,897	14,111	24,410	147,138	4 MT
	6,742	4,549	9,476	8,395	7,367	22,144	7,645	18,828	14,225	77,227	5 NE
	0,742	4,549	9,470	0,393	7,307	9,794	33,903	36,279	30,564	110,540	6 NV
						9,194	33,903	6,440	2,864	9,304	7 NH
							F70				
		10 010	21 000	9,624	0 660	14 201	578	4,381 18,518	2,877	7,836	8 NJ
4 010	7 202	18,919	21,900	•	9,660	14,381	15,050		13,614	121,666	9 NM
4,918	7,303	2,950	3,074	2,732	6,375	1,814	7,050	9,062	4,298	49,576	0 NY
	7 575	6,984	7,058	9,815	5,730	5,593	6,231	3,584	7,717	52,712	1 NC
F 400	7,575	8,056	8,134	5,611	7,342	8,720	8,762	7,088	9,377	70,665	2 ND
5,400	4,135	4,539	3,302	2,972	4,819	4,064	3,784	3,310	4,897	41,222	3 OH
	6,454	8,425	6,922	7,146	10,278	5,999	8,467	8,174	8,055	69,920	4 OK
7 000	10,008	12,734	29,657	8,903	6,013	2,929	8,903	9,465	8,369	96,981	5 OR
7,906	8,205	3,595	4,397	4,035	4,851	2,770	4,384	1,922	3,269	45,334	6 PA
			7 161	4 (04	4 110	C	2 255	4 551	1,214	1,214	7 RI
	10 000	F 062	7,161	4,674	4,112	6,562	3,357	4,571	618	31,055	8 SC
	10,209	5,863	8,706	11,049	10,270	2,828	7,635	7,859	12,628	77,047	9 SD
2 05.	01 040	10 015	01 465	25 222	26 181	9,501	14,781	6,962	11,000	42,244	0 TN
3,074	21,949	12,217	21,467	35,289	36,171	33,204	39,005	25,558	39,406	267,340	1 TX
			21,535	5,723	11,260	17,527	5,604	1,376	21,891	84,916	2 UT
							1,579	3,177	4,854	9,610	3 VT
				7,681	5,200	5,237	7,392	7,751	7,555	40,816	4 VA
5,224	8,333	11,859	7,010	9,465	6,205	9,629	3,614	1,814	5,039	68,192	5 WA
				2,969	2,660	7,307	5,637	4,408	1,199	24,180	6 WV
	2,701	4,863	5,531	4,689	5,424	7,087	6,188	9,973	9,698	56,154	7 WI
15,216	7,520	11,985	7,167	3,828	11,397	11,378	20,347	5,140	3,936	97,914	8 WY



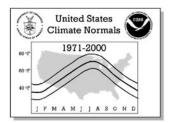
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

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

### **United States Climate Divisions**

**Heating Degree Days** 

1010   Priedmont Plateau   1105   East	
1013   Upper Plains   1104   Vest   2007   East Central Lower   3007   Chample   1016   Parier   1106   Central   2008   Southwest   2009   South Central Lower   3009   Great Lai   1016   Vest Southwest   2010   Southeast Lower   3009   Great Lai   1016   Vest Southwest   2011   Northwest   3101   Southeast   3101   Southeast   3101   Southeast   3101   Southeast   3101   Southeast   3101   Southeast   3102   Northeast   3103   Northeast   3104   Central   3105   Southeast   3106   Southeast   3107   Central   3105   Southeast   3107   Central   3105   Southeast   3107   Central   3107   Southeast   3107   Central   3107   Southeast   3107   Central   3107   Northwest   3107   Central   3107   Southeast   3107   Central   3107   Northwest   3107   Central   3107   Southwest   3107   Central   3107   Southwest   3108   South Central   3108   South Central   3108   South Central   3108   South Central   3108   South	Valley
1014   Eastern Valley	Valley
1016   Piedmont Plafeau	in Valley
1010   Prainie	ence Valley
10107   Coastal Plain	kes
1010   Gulf	
Northwest   1109   Southeast   1201   Northwest   2101   Northwest   3104   Central   3105   Central   3105   Southeast   1201   North Central   2105   Central   3105   Southeast   2104   West Central   2105   Central   3105   Southeast   2106   Southwest   2106   East Central   2107   Southwest   2106   Central   2108   South Central   2109   Southeast   2201   Northwest   2201   Upper Della   2302   Northeast   2201   Northwest   2201   Upper Della   2302   Northeast   2202   North Central   2303   Northeast   2203   Northeast   2204   Dever Della   2305   Central   2306   South Central   2308   South Central   2309   Southeast   2309	n Mountains
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0402         Sacramento Drainage Basin         1308         South Central         2301         Northwest Prairie         3303         Northeast Ocentral           0403         Northeast Interior Basins         1309         Southeast         2302         Northeast Prairie         3304         West Central           0404         Central Coast Drainage Basin         1401         Northvest         2303         West Central Plains         3306         Central Central           0406         South Coast Drainage Basin         1403         Northeast         2305         East Ozarks         3307         Northeast           0501         Arkansas Drainage Basin         1404         West Central         2306         Bootheel         3308         Southve           0502         Colorado Drainage Basin         1406         Central         2401         Western         3309         South Central           0503         Kansas Drainage Basin         1406         East Central         2402         Southwestern         3310         Southeast           0504         Platte Drainage Basin         1408         South Central         2404         Central         3402         North Central           0504         Platte Drainage Basin         1409         Southeast         2405	st
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           0406         South Coast Drainage Basin         1404         West Central         2306         Bootheel         3308         Southwest           0501         Arkansas Drainage Basin         1405         Central         2401         Western         3309         Southwest           0502         Colorado Drainage Basin         1405         Central         2401         Western         3310         Southcest           0503         Kansas Drainage Basin         1407         Southwest         2403         North Central         3401         Panhand           0505         Rio Grande Drainage Basin         1407         Southeast         2403         North Central         3401         Panhand           0505         Rio Grande Drainage Basin         1407         Southeast         2405         South Central	
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0407   Southeast Desert Basins   1404   West Central   2306   Bootheel   3308   Southwest Central   2401   Western   3309   Southwest   2401   Southwestern   3309   Southwest   2402   Southwestern   3309   Southwest   2403   Southwestern   3309   Southwest   2403   Southwestern   3309   Southwest   2403   Southwestern   2404   Southwestern   2404   Southwestern   2405   South Central   2406   Central   2406   Central   2407   Southwestern   2408   South Central   2409   Southwestern   2409   Southwe	
0501         Arkansas Drainage Basin         1405         Central         2401         Western         3309         South Oc           0502         Colorado Drainage Basin         1406         East Central         2402         Southwestern         3310         Southeast           0503         Kansas Drainage Basin         1407         South Western         2403         North Central         3401         Panhand           0504         Platte Drainage Basin         1408         South Central         2404         Central         3402         North east           0601         Northwest         1501         Western         2406         Northeastern         3404         West Ce           0602         Central         1501         Western         2406         Northeastern         3404         West Ce           0603         Coastal         1503         Blue Grass         2501         Panhandle         3406         East Central           0701         Northern         1504         Eastern         2502         North Central         3407         Southwest           0801         Northern         1601         North Central         2503         Northeast         3408         South Central           0802 <t< td=""><td></td></t<>	
0502         Colorado Drainage Basin         1406         East Central         2402         Southwestern         3310         Southeas           0503         Kansas Drainage Basin         1407         Southwest         2403         North Central         3401         Panhand           0504         Platte Drainage Basin         1408         South Central         2404         Central         3402         North Ontheastern         3403         Northeastern           0601         Northwest         1501         Western         2406         Northeastern         3404         West Certral           0602         Central         1502         Central         2407         Southeastern         3405         Central           0603         Coastal         1503         Blue Grass         2501         Panhandle         3406         East Cer           0701         Northern         1504         Eastern         2502         North Central         3407         South Central           0801         Northern         1601         Northwest         2503         Northeast         3408         South Central           0802         North         1603         Northeast         2505         Central         3407         Southeast	
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0903         Northeast         1702         Southern Interior         2701         Northern         3509         Southeast           0904         West Central         1703         Coastal         2702         Southern         3601         Pocono Northeast           0905         Central         1801         Southeastern Shore         2801         Northern         3602         East Central           0906         East Central         1802         Central Eastern Shore         2802         Southern         3603         Southeast           0907         Southwest         1803         Lower Southern         2803         Coastal         3604         Lower Summer Sum	
0904         West Central         1703         Coastal         2702         Southern         3601         Pocono No.           0905         Central         1801         Southeastern Shore         2801         Northern         3602         East Central           0906         East Central         1802         Central Eastern Shore         2802         Southern         3603         Southeast           0907         Southwest         1803         Lower Southern         2803         Coastal         3604         Lower Summer State           0908         South Central         1804         Upper Southern         2901         Northwest Plateau         3605         Middle State	
0905         Central         1801         Southeastern Shore         2801         Northern         3602         East Central           0906         East Central         1802         Central Eastern Shore         2802         Southern         3603         Southeast           0907         Southwest         1803         Lower Southern         2803         Coastal         3604         Lower Summer	
0906         East Central         1802         Central Eastern Shore         2802         Southern         3603         Southeast           0907         Southwest         1803         Lower Southern         2803         Coastal         3604         Lower Su           0908         South Central         1804         Upper Southern         2901         Northwest Plateau         3605         Middle Si	ntral Mountains
0907 Southwest         1803 Lower Southern         2803 Coastal         3604 Lower Southern           0908 South Central         1804 Upper Southern         2901 Northwest Plateau         3605 Middle Southern	stern Piedmont
0908 South Central 1804 Upper Southern 2901 Northwest Plateau 3605 Middle St	usquehanna
	usquehanna
0909 Southeast   1805 Northeastern Shore   2902 Northern Mountains   3606 Upper Su	usquehanna
····     ···     ···	Mountains
	entral Mountains
	st Plateau
1004 Central Mountains 1901 Western 2906 Central Highlands 3610 Northwestern	st Plateau
1005 Southwestern Valleys 1902 Central 2907 Southeast Plains 3701 Rhode Is	land
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 Ce	
1009 Upper Snake River Plains 2003 Northwest Lower 3003 Northern Plateau 3804 Northeas	
1010 Eastern Highlands 2004 Northeast Lower 3004 Coastal 3805 West Cer	ntral



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

4801 Yellowstone Drainage Basin

Southwest 4708 South Central 4709 Southeast

4707

#### Section 3:

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**

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

**Heating Degree Days** 

			· · · · · · · · · · · · · · · · · · ·
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		4808	Lower Platte
	Central	4809	Wind River
		4810	Upper Platte
	South Central	5001	Southeastern
	Southeast	5002	South Coast
4001	Eastern	5002	Southwestern Islands
	Cumberland Plateau	5003	Copper River
	Middle		Cook Inlet
4004	Western		
	High Plains	5006	Bristol Bay
	•	5007	West Central
	Low Rolling Plains	5008	Interior Basin
	North Central	5009	Arctic Drainage Basin
4104	East Texas	5101	Island of Kauai
	Trans Pecos	5102	Island of Cahu
	Edwards Plateau	5103	Island of Molokai
4107	South Central	5104	Island of Lanai
	Upper Coast	5105	Island of Maui
	Southern	5106	Island of Hawaii
	Lower Valley	5107	Island of Kahoolawe
4201	Western	6601	North Coastal
	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	
4302	Western	6702	
4303	Southeastern	6703	St. John
	Tidewater	9102	East of 180th Meridian
	Eastern Piedmont	9103	Western Pacific Islands
	Western Piedmont		Caroline and Mariana Islands
	Northern	0101	
	Southwestern Mountain		
	West Olympic Coastal		
	Northeast Olympic San Juan		
	•		
	Cascade Mountains West		
	East Slope Cascades		
	Okanogan Big Bend		
4508	Central Basin		
4509	Northeastern		
4510	Palouse Blue Mountains		

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	31-00 AVERAGE	0	1	23	182	442	687	761	592	444	177	52	4	3365
Northern Valley	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 1	12 23	59 177	83 453	124 697	161 751	129 597	136	47 158	24 45	3	322
	41-70 AVERAGE STD DEV	0	2	13	61	453 78	118	139	136	466 127	55	45 25	4	3371 315
	51-80 AVERAGE	0	1	25	199	458	696	797	620	463	169	54	5	3487
fr Things	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
72	71-00 AVERAGE	0	1	27	198	435	697	795	597	431	195	61	5	3445
0101	STD DEV	0	2	16	64	99	130	151	107	89	61	31	4	308
AL-02	31-00 AVERAGE	0	0	20	184	439	675	742	579	435	180	53	3	3310
Appalachian Mountain	STD DEV 31-60 AVERAGE	0	1 0	13 16	63 163	89 447	126 661	155 682	117 556	109 443	56 169	29 45	3 2	315 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
h	51-80 AVERAGE	0	0	22	204	460	685	779	608	454	170	56	4	3444
to whop	STD DEV	0	1	15	62	83	118	146	132	113	51	32	4	303
	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
0100	71-00 AVERAGE	0	0	23	199	425	675	773	581	419	196	61	4	3356
0102 AL-03	STD DEV 31-00 AVERAGE	0	0	13 13	66 154	94 392	127 616	145 680	97 517	90 376	58 145	31 38	3 2	303 2931
	STD DEV	0	0	9	154 57	392 86	124	153	115	103	145 51	38 23	2	343
Upper Plains	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
[ 3	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
	51-80 AVERAGE	0	0	14	173	417	635	719	551	399	139	40	2	3091
12-1-17	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 71-00 AVERAGE	0	0	11 16	58 174	91 391	128 633	135 725	106 535	91 372	54 169	25 48	2	263 3066
0103	STD DEV	0	0	10	56	94	128	138	93	86	52	26	2	277
AL-04	31-00 AVERAGE	0	0	13	159	401	626	682	528	384	150	36	2	2981
Eastern Valley	STD DEV	0	0	9	53	87	121	146	110	100	50	22	2	278
Lastern valley	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
	41-70 AVERAGE	0	0	14	161	425	651	682	535	412	139	33	2	3054
₹#	STD DEV	0	0 0	9 15	56 176	81	112	128	127	109	53	20	2	262
The state of the s	51-80 AVERAGE STD DEV	0	0	10	53	422 83	638 110	717 137	556 124	405 102	145 48	40 25	2	3116 261
(2~27)	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
Ls?	71-00 AVERAGE	0	0	15	166	380	614	701	525	359	159	41	2	2962
0104	STD DEV	0	0	8	55	91	122	142	94	80	52	24	2	282
AL-05	31-00 AVERAGE	0	0	14	150	368	584	641	495	357	140	38	2	2790
Piedmont Plateau	STD DEV	0	0	10	56	85	121	148	110	97	49	23	3	352
	31-60 AVERAGE	0	0	9	123	359	554	566 142	450	346	122	27	1	2556
	STD DEV 41-70 AVERAGE	0	0	7 14	51 149	83 386	118 600	142 634	113 495	109 377	40 126	17 32	2	313 2816
	STD DEV	0	0	10	54	77	104	132	128	106	49	19	3	336
	51-80 AVERAGE	0	0	16	171	393	604	682	534	382	138	42	3	2964
	STD DEV	0	0	11	50	78	103	143	123	97	44	24	3	280
[ Land	61-90 AVERAGE	0	0	18	170	368	608	717	547	368	149	48	3	2997
	STD DEV	0	0	11	57	89	123	135	101	87	50	23	3	282
L/ <u>3</u> .}	71-00 AVERAGE	0	0	17	168	365	599	684	516	352	162	50	3	2916
0105	STD DEV	0	0	8	54	90	123	138	85	85	50	25	3	273
AL-06	31-00 AVERAGE STD DEV	0	0 0	6 5	111 45	318	528	587 144	433	300 89	100	18	0	2399
Prairie	31-60 AVERAGE	0	0	4	45 91	80 313	117 502	144 523	108 401	295	40 89	13 14	1	296 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
1357	STD DEV	0	0	5	44	72	103	132	130	99	37	10	1	300
- 8-	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
3	STD DEV	0	0	6	48	87	123	133	102	83	41	14	1	262
0106	71-00 AVERAGE	0	0	7 5	126	316	541	621	445	293	117	23	0	2489
0106	STD DEV	0	0	5	46	87	121	135	84	76	41	15	1	254

# United States Climate Normals 1971-2000 1971-2000

Section 3:

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

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

### Alabama – Arizona

**Heating Degree Days** 

Gulf  STD DEV		ANNUAL  2166 273 2033 249 2165 294 2273 275 2294 266 246 1733 221 1691 217 1742 232 1769 251 1780 242
Coastal Plain  STD DEV 31-60 AVERAGE 0 0 0 2 77 291 460 484 367 268 77 STD DEV 0 0 0 2 34 70 107 137 115 95 28  41-70 AVERAGE 0 0 0 3 87 298 487 532 396 281 71 STD DEV 0 0 0 3 35 70 101 128 129 92 35  51-80 AVERAGE 0 0 0 3 102 307 496 568 428 278 79 1 STD DEV 0 0 0 3 40 76 98 139 122 84 34 19 61-90 AVERAGE 0 0 0 3 40 76 98 139 122 84 34 19 STD DEV 0 0 0 3 43 86 117 132 100 75 39 11 STD DEV 0 0 0 3 43 86 117 132 100 75 39 11 STD DEV 0 0 0 5 42 85 113 132 82 71 39 12  AL-08 Gulf  Gulf  AL-08 Gulf  41-70 AVERAGE 0 0 0 0 1 26 68 100 126 95 72 28 STD DEV 0 0 0 1 25 62 99 130 107 82 23 A1-70 AVERAGE 0 0 0 47 231 386 425 316 224 59 STD DEV 0 0 0 1 25 62 99 130 107 82 23 A1-70 AVERAGE 0 0 0 0 49 224 395 478 349 219 50 STD DEV 0 0 0 1 25 56 91 116 113 77 28 STD DEV 0 0 0 1 29 66 90 130 110 69 25 STD DEV 0 0 0 1 29 66 90 130 110 69 25 STD DEV 0 0 0 1 29 66 90 130 110 69 25 STD DEV 0 0 0 54 222 395 478 349 219 50 STD DEV 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 0 57 206 395 476 332 202 63 STD DEV 0 0 0 1 28 76 104 126 77 58 30		273 2033 249 2165 294 2273 275 2294 266 2226 246 1733 221 1691 217 1742 232 1769 251 1780
31-60 AVERAGE STD DEV 0 0 2 77 291 460 484 367 268 77 28		2033 249 2165 294 2273 275 2294 266 2226 246 1733 221 1691 217 1742 232 1769 251 1780
STD DEV   0		249 2165 294 2273 275 2294 266 246 1733 221 1691 217 1742 232 1769 251 1780
41-70 AVERAGE STD DEV		2165 294 2273 275 2294 266 2226 246 1733 221 1691 217 1742 232 1769 251 1780
STD DEV		294 2273 275 2294 266 2226 246 1733 221 1691 217 1742 232 1769 251 1780
STD DEV	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	275 2294 266 2226 246 1733 221 1691 217 1742 232 1769 251 1780
61-90 AVERAGE   0 0 4 103 283 495 599 440 269 87 11	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2294 266 2226 246 1733 221 1691 217 1742 232 1769 251 1780
STD DEV	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	266 2226 246 1733 221 1691 217 1742 232 1769 251 1780
71-00 AVERAGE 0 0 3 101 280 488 568 411 258 100 107  AL-08 31-00 AVERAGE 0 0 0 51 219 392 461 332 217 58  Gulf 31-60 AVERAGE 0 0 0 1 26 68 100 126 95 72 28  STD DEV 0 0 1 26 68 100 126 95 72 28  STD DEV 0 0 1 25 62 99 130 107 82 23  41-70 AVERAGE 0 0 0 47 231 386 425 316 224 59  STD DEV 0 0 1 25 56 91 116 113 77 28  STD DEV 0 0 1 25 56 91 116 113 77 28  51-80 AVERAGE 0 0 0 54 222 395 478 349 219 50  STD DEV 0 0 1 29 66 90 130 110 69 25  STD DEV 0 0 0 1 30 71 108 126 91 63 29  71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63  STD DEV 0 0 1 28 76 104 126 77 58 30	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2226 246 1733 221 1691 217 1742 232 1769 251 1780
OTO   STD DEV   O	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	246 1733 221 1691 217 1742 232 1769 251 1780
AL-08 Gulf  31-00 AVERAGE STD DEV 0 0 1 26 68 100 126 95 72 28 31-60 AVERAGE STD DEV 0 0 1 25 62 99 130 107 82 23 41-70 AVERAGE STD DEV 0 0 1 25 56 91 116 113 77 28 51-80 AVERAGE 0 0 0 0 54 222 395 478 349 219 51-80 AVERAGE 0 0 0 0 54 222 395 478 349 219 51-80 AVERAGE 0 0 0 0 54 222 395 503 357 212 51 STD DEV 0 0 1 29 66 90 130 110 69 25 61-90 AVERAGE 0 0 0 0 54 202 396 503 357 212 53 STD DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 1 28 76 104 126 77 58 30	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1733 221 1691 217 1742 232 1769 251 1780
Gulf  STD DEV	3 0 3 0 2 0 2 0 2 0 3 0 3 0 4 0	221 1691 217 1742 232 1769 251 1780
31-60 AVERAGE STD DEV 0 0 0 47 231 386 425 316 224 59 23 41-70 AVERAGE 0 0 0 49 224 395 459 333 230 50 50 51-80 AVERAGE 0 0 0 54 222 395 478 349 219 50 51-80 AVERAGE 0 0 0 1 29 66 90 130 110 69 25 51-80 AVERAGE 0 0 0 54 202 396 503 357 212 53 51D DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 51D DEV 0 0 1 28 76 104 126 77 58 30	8 0 2 0 2 0 8 0 8 0 8 0 9 0 9 0	1691 217 1742 232 1769 251 1780
41-70 AVERAGE 0 0 0 49 224 395 459 333 230 50 STD DEV 0 0 1 25 56 91 116 113 77 28 51-80 AVERAGE 0 0 0 54 222 395 478 349 219 50 STD DEV 0 0 1 29 66 90 130 110 69 25 61-90 AVERAGE 0 0 0 54 202 396 503 357 212 53 STD DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 1 28 76 104 126 77 58 30	2 0 2 0 8 0 8 0 8 0 9 0 1 0	1742 232 1769 251 1780
STD DEV 0 0 1 25 56 91 116 113 77 28 51-80 AVERAGE 0 0 0 54 222 395 478 349 219 50 STD DEV 0 0 1 29 66 90 130 110 69 25 61-90 AVERAGE 0 0 0 54 202 396 503 357 212 53 STD DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 1 28 76 104 126 77 58 30	2 0 3 0 3 0 3 0 2 0 4 0	232 1769 251 1780
51-80 AVERAGE 0 0 0 54 222 395 478 349 219 50 STD DEV 0 0 1 29 66 90 130 110 69 25 61-90 AVERAGE 0 0 0 54 202 396 503 357 212 53 STD DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 1 28 76 104 126 77 58 30	3 0 3 0 3 0 2 0 4 0	1769 251 1780
STD DEV 0 0 1 29 66 90 130 110 69 25 61-90 AVERAGE 0 0 0 54 202 396 503 357 212 53 STD DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 1 28 76 104 126 77 58 30	3 0 3 0 2 0 4 0 3 0	251 1780
61-90 AVERAGE 0 0 0 54 202 396 503 357 212 53 STD DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 STD DEV 0 0 1 28 76 104 126 77 58 30	3 0 2 0 4 0 3 0	1780
STD DEV 0 0 1 30 71 108 126 91 63 29 71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 0108 STD DEV 0 0 1 28 76 104 126 77 58 30	2 0 4 0 8 0	
71-00 AVERAGE 0 0 0 55 206 395 476 332 202 63 0108 STD DEV 0 0 1 28 76 104 126 77 58 30	1 0 3 0	
		1732
AZ_01   31_00 AVERAGE   1 5 18   147 410 620   675 500 416   226 0		224
		3168
Northwest STD DEV 2 5 15 65 101 107 128 116 110 85 50 101 107 128 116 110 85 50 101 107 101 101 101 101 101 101 101 10		552
31-60 AVERAGE 2 8 24 172 453 665 734 572 471 263 12- STD DEV 2 6 18 72 110 113 132 111 94 80 50		3520 481
41-70 AVERAGE 1 6 21 158 427 662 705 536 467 264 108		3385
STD DEV 2 6 16 72 110 100 100 110 86 85 40		457
51-80 AVERAGE 0 3 16 141 408 642 684 504 440 255 10	20	3216
STD DEV 1 3 10 48 71 103 93 93 86 66 3		273
61-90 AVERAGE 0 2 16 139 390 639 662 473 404 233 8°		3060
STD DEV 0 2 11 55 71 102 101 81 97 86 30 71-00 AVERAGE 0 1 10 123 380 604 615 435 349 198 60		388 2794
71-00 AVERAGE 0 1 10 123 380 604 615 435 349 198 600201 STD DEV 0 2 9 51 86 100 110 80 103 78 40		451
AZ-02 31-00 AVERAGE 1 7 86 383 734 992 1038 813 734 490 25		5599
Northeast STD DEV 1 5 33 69 81 105 117 101 91 85 68		308
31-60 AVERAGE   1 6 77   374 748 979   1052 832 743   479 25	64	5615
STD DEV 1 5 27 59 86 113 135 119 84 78 78		333
41-70 AVERAGE 1 7 81 372 730 995 1044 820 762 491 25		5627
STD DEV 1 6 33 72 90 101 105 110 90 85 6. 51-80 AVERAGE 1 7 87 377 737 1008 1045 822 757 511 27.		271 5687
51-80 AVERAGE 1 7 87 377 737 1008 1045 822 757 511 275 STD DEV 1 5 31 72 81 107 103 98 98 74 66		254
61-90 AVERAGE 1 8 97 389 721 1009 1048 813 741 499 260		5653
STD DEV 1 5 37 83 66 104 98 77 101 89 6.		274
71-00 AVERAGE   1	2 59	5547
0202 STD DEV 1 4 34 73 75 97 96 75 93 91 66		306
AZ-03 31-00 AVERAGE 0 0 17 191 487 718 750 584 521 314 13.		3736
North Central STD DEV 0 1 13 59 85 95 112 102 99 85 5: 31-60 AVERAGE 0 0 14 195 501 715 790 625 539 314 13:		340 3855
STD DEV 0 0 9 58 94 101 132 111 96 76 5		319
41-70 AVERAGE 0 0 17 196 494 730 768 600 560 332 13		3863
STD DEV 0 1 12 63 89 89 101 107 88 83 4		263
51-80 AVERAGE 0 0 17 191 495 728 756 589 549 345 14		3842
STD DEV 0 1 12 58 70 95 84 94 101 76 55		232
61-90 AVERAGE 0 0 21 195 483 732 741 572 527 326 130		3755
STD DEV 0 1 16 66 62 93 83 75 98 92 40 71-00 AVERAGE 0 0 17 188 478 706 708 545 486 301 120		280 3572
0203 STD DEV 0 0 15 61 80 89 83 77 99 89 55		333
<b>AZ-04</b> 31-00 AVERAGE 0 0 10 139 432 658 686 519 439 244 8.		3221
Fast Central	16	340
31-60 AVERAGE   0 0 6   128 429 636   696 532 432   227 73		3169
STD DEV 0 0 4 43 87 77 97 101 85 64 33		253
41-70 AVERAGE 0 0 11 142 433 668 703 534 479 260 80 STD DEV 0 1 10 52 83 76 82 99 85 77 30		3331
STD DEV 0 1 10 52 83 76 82 99 85 77 30 51-80 AVERAGE 0 0 14 152 454 691 710 545 488 284 100		296 3456
STD DEV 0 1 10 53 70 81 78 90 96 72 30		298
61-90 AVERAGE 0 0 16 156 443 690 700 530 467 268 9		3378
STD DEV 0 1 10 55 63 79 76 74 102 88 30		361
71-00 AVERAGE 0 0 11 141 432 660 660 495 416 240 8		3148
0204 STD DEV 0 0 9 51 79 81 73 75 97 84 3	5 21	379

Section 3:

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

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

### Arizona – Arkansas

**Heating Degree Days** 

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
AZ-05	31-00 AVERAGE	0	0	0	23	179	369	388	246	154	57	8	0	1423
Southwest	STD DEV 31-60 AVERAGE	0	0	0	15 23	58 189	75 358	88 411	73 270	55 157	33 53	8 9	0	206 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 71-00 AVERAGE	0	0	0	16 22	46 173	79 366	78 358	61 221	58 142	39 55	7 8	0	201 1343
0205	STD DEV	0	0	0	15	54	75	70	54	57	34	8	0	207
AZ-06	31-00 AVERAGE	0	0	0	35	220	411	440	304	221	87	13	0	1732
South Central	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
2/2	41-70 AVERAGE STD DEV	0	0 0	0	37 23	221 68	420 67	459 78	324 90	246 63	96 43	15 10	0 1	1818 194
1	51-80 AVERAGE	0	0	0	34	221	420	447	313	240	100	16	0	1792
2-5-	STD DEV	0	0	0	19	57	80	71	84	71	38	11	1	185
5	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
0006	71-00 AVERAGE	0	0	0	32	213	405	405	273	200	81	11	0	1620
0206 <b>AZ-07</b>	STD DEV 31-00 AVERAGE	0	0	0	19 95	62 361	76 567	66 597	59 449	69 366	44 177	9 49	0	219 2665
Southeast	STD DEV	0	0	3	37	73	74	79	84	80	60	25	2	251
Joulineasi	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 51-80 AVERAGE	0	0	3 4	37	80	69 588	84	98	80	58	23	2	262
>- 3 I	STD DEV	0	0	3	102 40	375 65	72	606 73	471 90	398 89	201 53	60 25	2	2807 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
0207	STD DEV	0	0 6	4 46	39	69	69	65 917	66 708	83	64	25	1	244
AR-01	31-00 AVERAGE STD DEV	1 1	6	26	217 64	545 98	822 130	149	125	558 123	250 70	88 38	11 8	4168 327
Northwest	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
3 4	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
1 -1 -1 25	51-80 AVERAGE STD DEV	1 1	7 5	45 28	223 67	553 99	818 96	946 154	729 130	578 138	243 70	84 40	12 9	4240 292
I faith so	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
0301	STD DEV	1	7	29	62	108	150	159	140	93	71	42	10	345
AR-02	31-00 AVERAGE STD DEV	0 1	4 4	36 21	208 64	523 92	809	895	694	534	226 64	76 35	6 5	4011 317
North Central	31-60 AVERAGE	0	3	31	190	92 531	125 782	143 844	121 681	123 546	221	35 72	5	317
	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
The state of the s	STD DEV	1	4	19	69	80	108	110	105	137	70	33	4	280
7-7-3	51-80 AVERAGE	0	5	38	221	537	809	928	721	561	223	75 20	7	4124
La trade	STD DEV 61-90 AVERAGE	0	4 5	23 40	70 225	91 509	98 836	146 950	124 733	137 528	66 226	38 81	6 7	281 4141
	STD DEV	0	4	22	68	89	136	154	119	120	66	38	6	275
7 2 3	71-00 AVERAGE	0	5	40	221	519	828	930	691	511	237	83	7	4071
0302	STD DEV	0	5	22	59	103	139	152	133	96	64	38	6	327
AR-03	31-00 AVERAGE	0	1	23	173	487	770	861	663	489	191	45	1	3704
Northeast	STD DEV 31-60 AVERAGE	0	1 0	15 21	56 165	91 507	126 758	144 815	122 659	119 509	59 198	25 47	2 1	304 3681
	STD DEV	0	1	14	165 56	85	117	135	120	132	198 57	23	2	3081
	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
3	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
1-1-13	61-90 AVERAGE	0	1	25	182	462	785	912	693	476	183	46	1	3766
7 } }	STD DEV 71-00 AVERAGE	0	1 1	17 25	61 178	84 472	136 776	155 892	125 653	113 461	61 190	27 45	2 1	290 3694
0303	STD DEV	0	1	17	55	101	137	154	134	94	62	26	2	3094
	DEV			- '		-01	-51	101		1	- V-L	20		I ""

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	31-00 AVERAGE	0	3	23	160	473	742	825	623	469	180	46	3	3546
West Central	STD DEV 31-60 AVERAGE	0	3 2	15 20	53 147	87 485	117 723	131 790	114 620	113 491	55 186	24 46	3	278 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
and the second second	STD DEV	0	3	13	54	77	96	101	103	124	60	23	2	230
T-3" 38	51-80 AVERAGE	0	3	23	168	482	748	856	647	492	178	44	3	3644
	STD DEV 61-90 AVERAGE	0	3 3	16 26	57 172	90 454	86 766	134 870	119 650	126 454	58 171	26 47	3	241 3615
	STD DEV	0	3	16	55	84	123	139	115	108	57	25	3	245
7 2 3	71-00 AVERAGE	0	3	25	169	467	754	844	610	435	182	49	3	3542
0304	STD DEV	0	3	16	51	97	132	138	123	84	56	25	3	287
AR-05	31-00 AVERAGE STD DEV	0	1 2	18 12	146 51	439 84	699 124	773 133	585 111	428 108	154 50	35 21	1 2	3280 277
Central	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
1 2 3	41-70 AVERAGE	0	1	18	141	436	698	762	593	459	140	31	1	3280
	STD DEV 51-80 AVERAGE	0	2 1	10 19	53 153	72 445	127 696	114 796	104 602	121 441	47 147	18 34	1 2	267 3335
3	STD DEV	0	2	14	57	85	93	141	118	119	47	22	2	273
	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
0305	71-00 AVERAGE	0	2	21	158	438	712	801	578	404	163	39	2	3315
AR-06	STD DEV 31-00 AVERAGE	0	2	14 17	49 148	91 421	131 686	135 768	117 581	85 419	55 146	22 30	2	276 3216
East Central	STD DEV	0	1	11	53	84	124	144	118	110	50	19	1	293
Last Ochtral	31-60 AVERAGE	0	0	14	140	432	665	711	566	428	146	31	0	3134
	STD DEV	0	0	10	55 150	79	114	138	115	126	46	18	1	294
4	41-70 AVERAGE STD DEV	0	0 1	18 10	150 58	424 74	689 113	753 116	588 110	447 124	136 50	28 17	0 1	3234 261
	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
L 2-1-2	61-90 AVERAGE	0	0	20	158	403	706	830	617	413	141	31	1	3320
	STD DEV 71-00 AVERAGE	0	1 0	13 19	56 152	84 415	133 698	146 808	123 580	103 400	54 152	20 32	1 1	279 3255
0306	STD DEV	0	1	13	49	92	134	146	126	86	55	20	1	301
AR-07	31-00 AVERAGE	0	0	12	130	399	643	711	532	387	138	31	1	2985
Southwest	STD DEV	0	1	9	49	85	112	126	105	100	48	18	1	250
	31-60 AVERAGE STD DEV	0	0 0	9 6	115 46	409 76	625 101	668 125	523 106	397 114	133 41	29 17	0 1	2908 260
	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
T-5" ,3	51-80 AVERAGE	0	0	12	135	402	639	732	547	398	130	28	1	3024
	STD DEV 61-90 AVERAGE	0 0	1 0	11 14	55 140	87 376	90 657	129 758	114 556	108 375	44 129	19 31	1 1	217 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
0307	STD DEV	0	1	11	48	95	125	123	109	79	54	21	1	250
AR-08	31-00 AVERAGE STD DEV	0 0	0 1	12 9	128 48	380 81	618 116	685 128	507 106	358 100	115 44	23 16	0 1	2827 267
South Central	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
1 2 2	41-70 AVERAGE	0	0	11	122	378	617	674	512	381	104	19	0	2819
	STD DEV 51-80 AVERAGE	0 0	1 0	8 13	52 139	76 397	103 625	117 712	107 528	112 375	42 113	14 23	1 1	266 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
0308	71-00 AVERAGE STD DEV	0 0	0 1	15 11	143 43	383 87	636 126	715 126	506 105	342 75	127 48	27 18	1 1	2894 252
AR-09	31-00 AVERAGE	0	0	11	126	377	620	694	518	367	120	19	0	2853
Southeast	STD DEV	0	0	8	49	83	118	134	110	103	44	14	1	274
	31-60 AVERAGE	0	0	8	114	392	604	647	508	378	121	19	0	2792
	STD DEV 41-70 AVERAGE	0 0	0 0	6 11	51 126	78 385	110 626	132 688	111 531	117 398	39 114	14 17	0	281 2896
H 7 3	STD DEV	0	0	7	53	78	109	115	109	115	45	12	1	253
1 7 5 3	51-80 AVERAGE	0	0	12	140	392	625	722	544	389	119	20	0	2964
	STD DEV	0	0	10	57	86	101	133	120	116	43	16	1	265
	61-90 AVERAGE STD DEV	0 0	0 0	14 9	141 51	357 85	636 128	748 136	548 114	363 97	116 47	20 15	0 1	2943 265
7	71-00 AVERAGE	0	0	12	136	366	629	721	511	345	126	20	0	2868
0309	STD DEV	0	0	9	47	89	126	134	112	77	49	15	1	277
L	·			'										

# United States Climate Normals 1971-2000 60 -F 10 -F 10

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	Ele	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
CA-01	31-00	AVERAGE	25	30	82	257	488	663	685	526	504	381	245	101	3984
North Coast DB	0.4 . 6 0	STD DEV	15	16	31	53	62	77	91	73	75	75	59	35	329
	31-60	AVERAGE	27 14	37 17	83 27	261 47	484 57	651 78	706	541 72	503 78	370	242	106 37	4011 346
	41-70	STD DEV AVERAGE	30	38	86	270	485	667	108 711	533	529	63 399	61 259	113	4121
<b>1</b>	11 70	STD DEV	16	16	30	48	54	77	89	74	60	76	53	37	268
1	51-80	AVERAGE	27	35	85	267	497	674	704	531	534	414	262	108	4138
3/		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
1	71_00	STD DEV AVERAGE	16 21	13 23	36 79	61 249	55 492	79 664	72 655	70 513	71 491	89 375	53 239	35 93	289 3892
0401	71-00	STD DEV	13	12	33	61	72	78	73	68	77	75	59	32	331
CA-02	31-00	AVERAGE	8	12	60	247	527	737	765	600	560	394	217	70	4197
Sacramento DB		STD DEV	7	10	32	65	77	83	94	79	85	91	70	32	275
	31-60	AVERAGE	7	13 10	57 28	251	519	726 85	790	627 74	565 93	381	218	74 35	4228
	41-70	STD DEV AVERAGE	6 8	14	28 55	63 249	69 517	735	119 783	604	582	83 400	70 225	35 76	311 4247
\ <b>_</b>	11 70	STD DEV	7	11	27	62	64	79	94	83	70	100	66	35	233
18	51-80	AVERAGE	8	14	58	243	525	735	772	590	577	413	224	68	4228
1 / 15		STD DEV	6	12	28	63	64	88	74	75	74	100	69	36	224
the second	61-90	AVERAGE STD DEV	9 8	12 11	67 38	246 68	535 73	746 85	755 69	583 74	564 75	408 107	215 64	63 29	4203 225
115	71-00	AVERAGE	10	12	62	247	73 541	742	739	582	547	396	215	29 67	4158
0402		STD DEV	8	10	37	73	87	83	68	72	86	86	73	31	274
CA-03	31-00	AVERAGE	95	111	273	559	853	1093	1145	947	905	690	485	260	7415
Northeast Interior Basins	21 60	STD DEV	39	42	69	83	92	111	132	106	96	104	89	66	368
	31-60	AVERAGE STD DEV	76 29	96 36	244	537 80	840 96	1064 105	1163 162	971 110	908 105	657 90	470 91	256 67	7281 395
5 ~~	41-70	AVERAGE	81	106	252	537	831	1078	1145	937	919	683	475	261	7303
53 5		STD DEV	30	41	73	82	85	101	138	116	86	109	85	68	341
100	51-80	AVERAGE	86	115	265	547	839	1087	1137	927	917	706	479	244	7349
8/ )/	61 00	STD DEV AVERAGE	30 103	51 120	74 296	81 572	73 864	108 1115	114 1146	102 935	96 912	113 716	92 492	64 250	329 7521
12/23	01-90	STD DEV	38	48	77	87	76	1117	104	100	912	116	76	62	320
11.5	71-00	AVERAGE	114	127	298	586	875	1118	1133	935	896	709	502	267	7559
0403		STD DEV	42	43	64	80	92	114	112	88	95	103	90	68	328
CA-04	31-00	AVERAGE	35	34	56	148	332	494	516	392	379	287	193	92	2957
Central Coast DB	21_60	STD DEV AVERAGE	17 39	17 46	23   59	41 159	61 334	68 489	77 540	67 418	69 388	63 290	50 195	33 98	283 3055
	31-00	STD DEV	18	15	21	37	63	68	92	64	72	53	47	34	291
15-2	41-70	AVERAGE	39	40	57	155	331	497	535	406	402	304	206	101	3072
18 3		STD DEV	19	19	21	41	59	63	78	69	58	65	41	35	244
3	51-80	AVERAGE	36	34	54	145	332	495	520	389	396	308	203	95	3005
	61-90	STD DEV AVERAGE	18 33	18 27	21 56	42 142	48 334	69 504	61 509	62 378	59 380	67 292	44 195	35 87	227 2935
	01 00	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
0404	2.7	STD DEV	14	12	24	42	63	71	60	59	69	62	55	29	271
CA-05	31-00	AVERAGE STD DEV	1 2	2	20 15	153 51	420 74	641 78	662 87	486 72	433 83	281 80	132 53	32 20	3263 261
San Joaquin DB	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
158	41-70	AVERAGE	1	3	20	159	416	643	676	501	459	294	142	39	3355
SE 3	E1 00	STD DEV	2 1	3	13 20	50 150	72 410	73	87 665	78 492	69	87 202	48	23	224
16	21-80	AVERAGE STD DEV	1	3 4	13	150 49	419 58	647 83	665 71	483 69	448 75	302 88	139 53	32 22	3307 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
0405	71-00	AVERAGE	1	2	20	147	427	648	641	462	413	276	127	26	3191
0405 CA-06	31-00	STD DEV AVERAGE	2 7	3 5	17 23	54 88	76 247	80 390	76 422	59 343	84 334	77 228	56 141	17 59	264 2284
South Coast DB	31-00	STD DEV	6	4	16	34	63	74	87	73	76	66	47	28	283
JOURN COAST DD	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
15	41-70	AVERAGE	9	6	25	96 36	250	401	444	361	362	250	156	73	2432
18	51_00	STD DEV AVERAGE	7 6	4 5	15 22	36 89	63 252	67 394	86 427	80 340	69 353	64 254	37 156	28 62	234 2362
1 13	31-00	STD DEV	6	4	13	35	60	80	67	74	71	68	41	31	2382
$\mathcal{Q}$	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
0406	71-00	AVERAGE	5	3	20	80	247	383	389	312	311	211	128	44	2133
0406		STD DEV	5	3	15	33	63	77	62	57	71	67	49	24	254

Section 3:

Divisional Normals, 1971-2000 (and previous periods)

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

# California – Colorado

**Heating Degree Days** 

Climate Division		ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
CA-07		AVERAGE	0	0	6	94	333	552	575	416	332	186	66	8	2568
Southeast Desert Basins		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
	41 70	STD DEV	0	0	6	42	84	87	124	96	85	55	39	7	313
(3)	41-70	AVERAGE STD DEV	0	0	6 7	97 43	339 77	561 79	593 95	432 92	364 73	200 74	72 32	11 7	2674 239
B.A.	51-80	AVERAGE	0	0	6	96	342	562	588	418	359	214	79	9	2671
3		STD DEV	0	0	6	44	66	88	81	83	78	75	38	6	228
H.	61-90	AVERAGE	0	0	7	92	323	562	563	393	331	199	67	7	2542
	71_00	STD DEV AVERAGE	0	0	7	42 85	66 318	97 539	85 534	73 373	87 296	88 171	37 57	7 5	328 2383
0407	71-00	STD DEV	0	0	5	40	80	93	83	69	86	74	40	6	320
CO-01	31-00	AVERAGE	7	24	159	468	849	1101	1159	947	872	574	306	84	6550
Arkansas DB		STD DEV	5	14	50	77	106	110	127	114	108	92	71	36	343
	31-60	AVERAGE STD DEV	7 5	18 9	141	439 64	847 101	1068 97	1153 125	958 131	892 104	572 90	307 72	82 40	6485 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
	61_00	STD DEV AVERAGE	5 7	17 29	58 175	88 487	100 840	115 1134	131 1181	119 959	111 874	86 567	71 311	39 87	332 6651
	01-20	STD DEV	5	29 16	52	90	96	123	139	959	118	96	67	33	335
	71-00	AVERAGE	8	27	169	498	865	1128	1163	934	831	579	315	83	6600
0501	0.5	STD DEV	5	13	47	58	116	118	129	101	84	100	71	32	364
CO-02	31-00	AVERAGE STD DEV	42 20	77 29	273 59	604 72	991 98	1307 105	1384 123	1117 123	1009 104	710 92	437 71	185 53	8134 431
Colorado DB	31-60	AVERAGE	40	29 74	257	586	98	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
	E1 00	STD DEV AVERAGE	17 43	31 91	62 289	81 608	99 1000	94 1331	105 1401	120 1141	94 1055	90 742	66 454	51 191	344 8346
	21-00	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
0502	71-00	AVERAGE STD DEV	44 22	75 28	275 59	616 66	998 100	1320 108	1374 133	1099 106	964 96	707 99	442 67	175 53	8089 469
CO-03	31-00	AVERAGE	4	13	128	421	830	1099	1168	936	846	520	258	62	6284
Kansas DB		STD DEV	4	9	51	82	109	131	156	141	124	95	74	32	361
Transac BB	31-60	AVERAGE	4	10	114	404	831	1079	1171	966	885	525	264	63	6315
	41_70	STD DEV AVERAGE	4 4	7 12	43 130	85 408	103 817	115 1090	162 1166	153 944	124 901	101 516	79 255	37 67	367 6310
(man)	41-70	STD DEV	4	8	55	100	104	96	143	137	134	108	75	36	283
3	51-80	AVERAGE	4	13	130	413	840	1095	1192	936	876	521	252	57	6329
	61 00	STD DEV	4	9	56	95	95	122	151	135	135	87	68	31	299
	61-90	AVERAGE STD DEV	3	14 9	140 55	428 90	823 101	1131 146	1181 163	934 115	833 124	507 94	254 67	60 26	6308 338
	71-00	AVERAGE	5	15	135	441	845	1114	1168	913	795	522	263	61	6276
0503		STD DEV	4	10	47	51	122	153	150	136	90	93	67	28	395
CO-04	31-00	AVERAGE	31	55	241	555	921	1165	1232	1020	958	664	395	151	7389
Platte DB	31-60	STD DEV AVERAGE	18 23	25 39	67 212	85 521	108 903	121 1121	138 1223	123 1031	112 969	97 643	79 379	53 136	396 7201
	31 00	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
	E1 00	STD DEV	15	25 60	70	102	102	97	138	135	122	107	68	59 140	374
5	21-80	AVERAGE STD DEV	30 17	60 27	246 75	547 95	931 97	1159 123	1245 137	1019 119	993 119	679 89	398 73	148 56	7454 407
1	61-90	AVERAGE	34	67	267	578	932	1215	1255	1031	972	676	414	161	7601
154		STD DEV	16	24	70	96	96	126	134	95	123	94	66	49	316
0504	71-00	AVERAGE	38	64 24	258 63	586 58	946	1198	1236	1007	922 86	682 97	415 75	156 49	7507 377
CO-05	31-00	STD DEV AVERAGE	19 118	168	362	685	117 1076	128 1422	121 1497	103 1196	1085	786	526	259	9180
Rio Grande DB		STD DEV	33	42	52	68	103	133	142	134	105	81	66	52	459
1 10 Grando DD	31-60	AVERAGE	119	160	347	671	1079	1415	1504	1206	1094	770	530	258	9151
	41_70	STD DEV	31 122	37 174	45	59 686	98 1072	136	129	146	95 1133	78 790	67 531	53 275	402
	41-70	AVERAGE STD DEV	122 34	174 40	368 49	686 75	1072 98	1415 123	1490 111	1208 127	1133 98	790 84	531 60	275 50	9265 385
1 3 2	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
	71_00	STD DEV AVERAGE	32 121	43 173	53 368	80 699	95 1084	131 1424	141 1486	115 1183	112 1053	84 794	58 525	51 249	406 9159
0505	, 1-00	STD DEV	33	1/3 45	54	63	112	136	166	128	1053	83	525 71	249 53	535
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# **United States** Climate Normals 1971-2000

Section 3:

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Heating Degree Days

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

# Connecticut - Delaware - Florida

J F M A M J J A S O N D															
Climate Division	E	lement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
CT-01	_	) AVERAGE	13	35	170	483	786	1163	1294	1126	974	602	286	68	7000
Northwest		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
	41	STD DEV	8	24	46	82	90	123	148	126	133	99	69	30	427
	41-70	) AVERAGE STD DEV	14 8	39 23	163 46	451 70	775 73	1192 119	1302 132	1134 97	987 116	590 90	300 77	69 28	7015 321
	51_80	SID DEV ) AVERAGE	13	33	164	472	73 773	1165	1303	1132	976	589	292	28 69	6981
	J1-00	STD DEV	8	18	51	82	81	119	123	111	976	78	292 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
	71-00	) AVERAGE	12	32	172	505	779	1128	1293	1102	942	591	272	66	6893
0601	21 00	STD DEV	9	15	39	84	78	137	145	123	94	74	63	27	372
CT-02	31-00	) AVERAGE STD DEV	5 5	20 14	129 40	425 76	712 80	1081 126	1206 143	1044 116	893 104	547 76	250 64	48 22	6360 375
Central	31-60	) AVERAGE	5	21	122	403	719	1093	1182	1051	915	556	254	49	6369
	52 00	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
	c1 00	STD DEV	6	14	45	75	77	124	126	112	90	72 545	69 254	24	347
	61-90	) AVERAGE STD DEV	5 6	20 13	136 44	440 79	702 78	1089 133	1243 140	1056 105	880 85	545 69	254 66	51 20	6420 311
	71-00	SID DEV ) AVERAGE	4	13 16	133	450	702	1048	1207	1016	862	532	237	46	6253
0602	7 = 00	STD DEV	4	9	36	78	82	133	141	117	87	67	60	21	358
CT-03	31-00	) AVERAGE	4	12	86	358	649	999	1122	980	844	518	237	37	5846
Coastal		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
	41 70	STD DEV	3	12	32	71	73	111	136	118	104	75	55	23	352
	41-70	) AVERAGE STD DEV	5 4	16 10	93 34	348 61	654 63	1038	1140 119	993 88	867 92	527 75	263 65	44 21	5987 297
/	51-80	) AVERAGE	4	13	89	361	649	1007	1143	994	853	519	254	43	5929
	31 00	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
0.500	71-00	) AVERAGE	2	8	78	361	632	954	1113	952	807	496	218	32	5653
0603	21 00	STD DEV	3	5	25	72	73	121	137	109	78	57	53	16	325
DE-01	31-00	) AVERAGE STD DEV	0	2 2	47 22	289 71	584 76	911 122	1020 150	880 121	720 107	396 71	136 47	10 7	4995 330
Northern	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
	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
	61 00	STD DEV	0	2	25	71	77 577	120	123	122	97	73	52 120	9 10	287
\	ο1-90	) AVERAGE STD DEV	0	2 2	49 25	300 80	577 79	915 129	1075 139	899 119	705 93	402 68	139 51	10 7	5073 316
	71-00	) AVERAGE	0	1	47	300	575	879	1032	860	692	381	131	10	4908
0701		STD DEV	0	2	17	78	85	128	150	128	92	65	43	7	338
DE-02	31-00	) AVERAGE	0	1	37	259	535	843	935	817	666	370	123	10	4594
Southern		STD DEV	0	1	18	67	82	129	152	118	110	69	42	8	329
	31-60	) AVERAGE	0	1	37	250	545	859	901	813	687	375	119	9	4595
	41.70	STD DEV AVERAGE	0	1 1	19 40	64 253	73 547	128 884	164 944	118 825	130 685	71 369	39 124	7 10	324 4681
	41-70	STD DEV	0	1	20	253 65	54 / 69	122	138	825 89	123	369 70	124 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
0700	71-00	) AVERAGE	0	1	34	262	518	807	943	801	638	356	121	10	4492
0702 <b>FL-01</b>	31-00	STD DEV AVERAGE	0	1	13	73 51	90 212	134 382	146 442	129 325	89 204	66 59	40 4	9	324 1679
	31-00	STD DEV	0	0	1	27	67	100	124	325 97	68	28	3	0	244
Northwest	31-60	) AVERAGE	0	0	0	44	217	370	401	302	204	55	3	0	1596
		STD DEV	0	0	0	21	61	100	124	107	74	24	3	0	222
	41-70	) AVERAGE	0	0	0	47	221	389	437	324	211	49	3	0	1681
fred		STD DEV	0	0	1	22	64	89	105	114	73	27	2	0	246
(30	51-80	) AVERAGE	0	0	0	56	222	395	460	350	208	53	3	0	1749
K	61.00	STD DEV AVERAGE	0	0 0	1 0	28 58	67 206	90 394	125 488	109 358	67 206	25 60	3 4	0	253 1773
~	01-90	STD DEV	0	0	1	32	206 73	106	126	93	206 65	29	3	0	1773 261
Luft on	71-00	) AVERAGE	0	0	0	58	198	386	462	330	197	68	5	0	1704
0801		STD DEV	0	0	1	32	70	102	129	80	61	29	3	0	245
	1		l -			-		-							<u> </u>

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

North		AVERAGE STD DEV	0 0	0	0	30	154	312	364	269	163	39	1	0	
North	31-60		Λ										1	-	1331
	31-60			0	0	16	55	93	109	90	61	21	1	0	221
		AVERAGE STD DEV	0	0	0	27 15	155 50	301 96	332 111	250 96	166 65	36 19	1 1	0	1269 193
	41_70	AVERAGE	0	0	0	30	166	322	363	96 278	172	34	1	0	1366
	41-70	STD DEV	0	0	0	14	56	89	95	104	66	22	1	0	227
7	51-80	AVERAGE	0	0	0	34	166	330	385	297	167	35	1	0	1414
8		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
2,5		STD DEV	0	0	0	19	61	96	110	89	58	21	1	0	245
	71-00	AVERAGE	0	0	0	31 19	141 55	314 89	380 114	270 76	153 53	43 21	2 1	0	1333
0802 FL-03	31-00	STD DEV AVERAGE	0	0	0	8	84	208	260	192	104	20	0	0	877
North Central	31 00	STD DEV	0	0	0	6	37	73	89	74	47	13	1	0	175
North Ochta	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
` <b>``</b>	F1 00	STD DEV AVERAGE	0	0 0	0	5 9	41 91	70 221	72 274	85 215	51 106	13 17	0	0	175 934
F \	21-00	STD DEV	0	0	0	5	37	66	87	81	47	10	0	0	179
5	61-90	AVERAGE	0	0	0	9	84	214	287	212	103	20	0	0	930
- SF		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
0803		STD DEV	0	0	0	7	33	69	98	65	41	15	1	0	184
1	31-00	AVERAGE	0	0	0	3	60	157	203	151	81	12	0 0	0	668
South Central	31-60	STD DEV AVERAGE	0	0	0 0	3 4	30 65	62 158	75 197	64 146	40 86	9 12	0	0	152 666
ĺ	J_ 00	STD DEV	0	0	0	3	29	67	76	72	43	9	0	0	135
	41-70	AVERAGE	0	0	0	4	68	166	207	161	87	11	0	0	704
Jany Jane		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
	61_00	STD DEV AVERAGE	0	0	0 0	2	30 58	57 162	72 220	68 164	40 79	7 13	0	0	153 699
~ }	01-90	STD DEV	0	0	0	3	32	62	80	61	39	10	0	0	172
24	71-00	AVERAGE	0	0	0	3	47	148	202	146	72	13	0	0	631
0804		STD DEV	0	0	0	3	23	54	83	54	33	10	0	0	152
. = 00	31-00	AVERAGE	0	0	0	1	29	97	133	100	42	6	0	0	408
Everglades & SW Coast	21 60	STD DEV	0	0	0	1	18	46	58	49	26	6	0	0	118
	31-60	AVERAGE STD DEV	0	0	0 0	1 1	33 18	98   51	131 56	98 54	45 29	6 6	0	0	411 105
	41-70	AVERAGE	0	0	0	1	34	105	137	106	44	5	0	0	432
for		STD DEV	0	0	0	1	21	47	46	55	28	5	0	0	118
	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	0	1	29	102	146	110	41	6	0	0	434
¥.	71-00	STD DEV AVERAGE	0	0	0	1 0	20 20	46 86	63 130	48 96	25 36	6 6	0	0	129 374
0805	71 00	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
Lower East Coast		STD DEV	0	0	0	0	11	34	46	41	20	2	0	0	93
3	31-60	AVERAGE	0	0	0	0	17	63	92	72	33	3	0	0	280
	41-70	STD DEV AVERAGE	0	0	0	0	11 20	38 70	46 98	46 81	22 33	3 2	0 0	0	85 303
my my	11-10	STD DEV	0	0	0	0	14	36	98 37	48	22	2	0	0	90
7	51-80	AVERAGE	0	0	0	0	17	71	104	85	30	2	0	0	309
2		STD DEV	0	0	0	0	12	33	44	45	20	2	0	0	91
5	61-90	AVERAGE	0	0	0	0	15	64	101	77	28	2	0	0	287
	71 00	STD DEV	0	0	0	0	13	35	51	39	20	2	0	0	103
0806	/T-00	AVERAGE STD DEV	0	0	0 0	0 0	9 5	52 25	90 53	66 35	24 15	2 2	0 0	0	243 88
	31-00	AVERAGE	0	0	0	0	3	23	44	34	9	0	0	0	113
Keys		STD DEV	0	0	0	0	3	16	29	25	8	1	0	0	52
1	31-60	AVERAGE	0	0	0	0	4	24	42	34	10	0	0	0	115
	41	STD DEV	0	0	0	0	4	18	28	28	10	0	0	0	52
4	41-70	AVERAGE	0	0	0	0	4	26	44	37	10	0	0	0	121
prod.	51_00	STD DEV AVERAGE	0	0	0 0	0 0	4 3	17 25	22 47	27 41	9	0	0	0	46 125
7	21-00	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
J.J.		STD DEV	0	0	0	0	3	16	33	24	8	1	0	0	55
	71-00	AVERAGE	0	0	0	0	2	20	44	31	7	0	0	0	105
0807		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	31-00 AVERAGE	0	0	22	189	438	685	744	584	436	181	56	5	3340
Northwest	STD DEV 31-60 AVERAGE	0 0	0	13 16	60 165	87 441	121 667	153 678	113 551	106 436	56 163	30 43	5 3	322 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
1	STD DEV	0	0	14	61	76	110	135	130	118	54	27	4	321
Berger	51-80 AVERAGE	0	0	23	204	453	698	780	615	456	173	59	7	3466
153	STD DEV	0 0	0	15 27	58 212	80 430	110 705	144 818	126 627	107	51 193	31 68	5 7	306 3524
	61-90 AVERAGE STD DEV	0	1	14	63	92	127	142	106	437 91	59	29	4	282
	71-00 AVERAGE	0	0	25	206	428	687	779	592	424	202	69	7	3417
0901	STD DEV	0	1	12	61	95	124	147	94	91	59	33	5	289
GA-02	31-00 AVERAGE	0	0	21	187	441	683	736	588	450	197	62	6	3370
North Central	STD DEV 31-60 AVERAGE	0 0	0 0	12 16	57 166	87 448	118 673	146 677	107 567	105 456	57 183	31 50	6 3	318 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
15.3	STD DEV	1 0	0	15 26	57	80	105	142 804	118	107	56	35 73	7	288
1777	61-90 AVERAGE STD DEV	1	0	26 14	207 63	430 91	697 121	139	624 103	449 89	207 62	73 32	9 6	3525 297
	71-00 AVERAGE	0	0	24	198	426	675	764	585	431	209	71	8	3391
0902	STD DEV	0	0	11	60	95	118	144	92	88	59	33	7	290
GA-03	31-00 AVERAGE	0	0	20	190	442	687	731	586	449	196	62	6	3369
Northeast	STD DEV	0	0	12	58	84	113	139	102	104	57	31	5	298
	31-60 AVERAGE STD DEV	0	0	15 9	169 51	446 76	678 111	678 136	566 110	463 123	186 49	52 24	3	3255 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
1350	51-80 AVERAGE	0	0	22	204	458	701	763	614	466	190	65	8	3491
Land Indian	STD DEV	1	1 0	15	56	76	106	139	110	105	57	34	6	286
	61-90 AVERAGE STD DEV	0 1	1	25 14	209 64	435 86	700 117	792 136	617 100	440 84	202 62	71 31	8 5	3499 296
	71-00 AVERAGE	0	0	22	204	431	680	756	585	427	206	72	8	3390
0903	STD DEV	0	0	10	63	93	116	140	92	87	57	33	6	299
GA-04	31-00 AVERAGE	0	0	8	131	364	593	642	496	359	133	29	1	2755
West Central	STD DEV	0	0	6	46	82	113	139	106	96	45	18	1	262
	31-60 AVERAGE STD DEV	0 0	0 0	7 5	120 43	379 78	592 115	595 146	481 115	374 109	130 41	24 15	0 1	2701 253
	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
- was	51-80 AVERAGE	0	0	9	141	375	600	668	520	369	122	29	1	2833
<b>S</b> 3-1	STD DEV	0	0	7	45	78	103	139	118	97	44	20	2	257
	61-90 AVERAGE STD DEV	0 0	0 0	10 7	141 53	349 84	595 117	698 134	525 102	350 83	132 46	33 18	1 1	2834 266
	71-00 AVERAGE	0	0	9	139	344	585	662	493	336	141	34	1	2743
0904	STD DEV	0	0	5	50	85	114	134	87	81	46	20	2	258
GA-05	31-00 AVERAGE	0	0	5	108	321	545	592	453	315	106	19	1	2464
Central	STD DEV	0	0	4	42	80	113	137	104	91	40	13	1	269
	31-60 AVERAGE STD DEV	0 0	0	4 3	96 36	329 73	537 114	539 138	430 114	323 107	98 33	14 10	0	2371 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
12.	51-80 AVERAGE	0	0	6	115	331	552	617	479	327	97	20	1	2546
	STD DEV 61-90 AVERAGE	0	0	5 6	42 116	76 200	103	138	115	92	37	14	1	260
	STD DEV	0 0	0	5	116 49	308 84	549 115	649 133	485 101	310 74	108 41	23 13	1 1	2554 271
1777	71-00 AVERAGE	0	0	6	116	307	542	618	456	300	117	23	1	2485
0905	STD DEV	0	0	4	47	89	116	134	88	77	43	14	1	272
GA-06	31-00 AVERAGE	0	0	4	104	302	526	573	437	302	96	16	1	2360
East Central	STD DEV	0	0 0	3	42 91	78 304	114 517	137	105 411	90 306	38 85	11 11	1	284
	31-60 AVERAGE STD DEV	0 0	0	2	35	304 72	117	518 138	411 112	306 106	85 29	9	1	2245 259
	41-70 AVERAGE	0	0	4	101	314	541	565	438	320	83	13	1	2379
T B	STD DEV	0	0	4	37	72	103	120	118	102	36	10	1	280
12 miles	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 STD DEV	0 0	0 0	5 4	114	298	532 114	631 132	472 103	302 74	102 39	19 10	1 1	2475 284
2	71-00 AVERAGE	0	0	5	49 114	83 292	114 526	601	103 443	292	109	20	1	284
0906	STD DEV	0	0	3	48	85	114	133	92	74	41	13	1	277
	1			- 1			l			l l				<u> </u>

Section 3:

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

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

# Georgia - Idaho

**Heating Degree Days** 

Climate Division   Element   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   APR	Y JUN 6 0 6 0 5 0 4 0	2001 256
Southwest STD DEV 0 0 1 33 74 109 132 104 80 33 31-60 AVERAGE 0 0 1 62 262 440 457 353 249 67 STD DEV 0 0 1 27 66 110 133 114 90 28	5 0	256
31-60 AVERAGE 0 0 1 62 262 440 457 353 249 67 STD DEV 0 0 1 27 66 110 133 114 90 28		
		1895
1	5 0	222
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 STD DEV 0 0 2 39 83 111 131 101 71 33	7 0 5 0	2096
STD DEV 0 0 2 39 83 111 131 101 71 33 71-00 AVERAGE 0 0 1 81 246 459 539 382 238 84	9 0	273
0907 STD DEV 0 0 1 38 81 111 128 82 68 35	6 0	251
GA-08 31-00 AVERAGE 0 0 1 70 244 439 489 360 233 66	5 0	1906
South Central   STD DEV   0 0 1   32 71 108   130 101 77   30	4 0	265
31-60 AVERAGE 0 0 1 61 246 423 436 334 236 60 STD DEV 0 0 1 28 66 110 127 107 88 25	4 0 3	1800 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 61-90 AVERAGE 0 0 1 77 241 451 546 394 232 66	4 0 6 0	250 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
0908 STD DEV 0 0 1 37 74 106 129 84 64 32	5 0	248
GA-09 31-00 AVERAGE 0 0 0 57 222 417 465 350 230 59	4 0	1804
Southeast STD DEV 0 0 1 28 68 105 125 100 77 27 31-60 AVERAGE 0 0 0 54 231 414 426 335 241 58	3 0 3	260 1762
STD DEV 0 0 1 25 63 111 128 108 90 24	3 0	237
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 STD DEV 0 0 1 26 65 97 122 106 79 24	4 0 3	1904 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
0909	3 0 9 185	263 7298
	2 55	407
31-60 AVERAGE 61 95 270 586 926 1105 1245 1012 898 590 3	5 190	7333
	0 53	478
41-70 AVERAGE   65 96 276   596 915 1121   1246 958 910   614 3' STD DEV   25 37 71   65 88 95   185 91 94   69	<ul><li>3 190</li><li>1 53</li></ul>	7360 396
51-80 AVERAGE 67 96 280 605 924 1117 1232 945 905 626 38		7364
	0 55	345
61-90 AVERAGE 72 86 289 614 912 1156 1205 940 862 610 38		7307
STD DEV 31 43 83 58 94 124 145 92 86 74 5	6 59 6 188	323 7269
	2 58	375
ID-02 31-00 AVERAGE 90 106 286 575 897 1107 1174 933 873 639 43		
I Notur Contrair Tailles	2 63	432
31-60 AVERAGE   73 106 269   552 886 1067   1198 968 888   621 43	1 242 3 65	7282 502
STD DEV   28   33   64   88   113   113   210   140   107   80   9 41-70 AVERAGE   83   111   284   571   886   1092   1205   927   912   650   43		7406
STD DEV 29 39 80 94 87 102 184 110 92 82 8	0 63	375
51-80 AVERAGE 86 116 292 585 902 1093 1192 915 913 669 44		7457
	8 65	357
61-90 AVERAGE   100   111   311   592   903   1143   1174   914   875   659   499	7 238 9 64	7477 350
71-00 AVERAGE 107 107 299 597 919 1144 1152 916 848 642 44		7431
1002   STD DEV   49	6 63	399
ID-03   31-00 AVERAGE   10   22   143   421   763   976   1029   781   667   431   23   23   24   25   25   25   25   25   27   26   26   26   26   26   26   26		5564
North Central Canyons   STD DEV   11	6 37 1 88	360 5583
STD DEV 5 11 43 83 98 98 195 127 87 74 '	3 35	413
41-70 AVERAGE 8 23 140 418 758 961 1062 771 704 446 23	7 91	5618
	5 35	312
51-80 AVERAGE   8 25 144   436 773 965 1045 764 705   462 24 STD DEV   4 17 58   62 86 90 145 82 74 76 6	5 88 3 38	5658 298
61-90 AVERAGE 10 21 154 441 749 995 1020 760 663 440 24		5575
STD DEV   8 17 65   70 92 110   130 85 79   90 !	2 37	333
71-00 AVERAGE 15 22 151 444 763 998 1001 764 639 424 24		5556
1003   STD DEV   14 17 55   64 99 107   125 94 74   83 6	2 41	350

# United States Climate Normals 1971-2000 1971-2000 1971-2000

Section 3:

**Heating Degree Days** 

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

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

Idaho Page 19

Climate Division	El	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ID-04	31-00	AVERAGE	95	128	336	647	1001	1278	1344	1086	1009	718	480	266	8388
Central Mountains		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
	41 70	STD DEV	29	35	62	81	112	114	173	120	113	85	96	65	520
	41-70	AVERAGE STD DEV	100 30	143 46	347 83	657 88	1000 93	1276 92	1376 154	1098 109	1078 101	758 75	507 81	295 61	8635 395
3	51-80	AVERAGE	94	139	343	656	1002	1271	1351	1078	1061	757	501	271	8524
	51 00	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
	71-00	AVERAGE	97	115	332	650	1000	1295	1311	1055	944	684	467	246	8198
1004	0.1.00	STD DEV	50	46	77	65	98	132	118	107	90	89	75	63	414
ID-05	31-00	AVERAGE	9	22	155	438	805	1075	1142	862	717	460	243 70	91 39	6020 450
Southwestern Valleys	31-60	STD DEV AVERAGE	11 7	15 24	55 152	72 426	102 817	134 1043	179 1162	139 896	93 745	83 450	240	100	6064
	31 00	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
183		STD DEV	5	14	57	85	80	89	189	122	82	78	69	39	324
Q 3	51-80	AVERAGE	7	27	158	452	804	1062	1133	846	746	487	252	91	6064
2 %		STD DEV	4	17	58	63	82	97	172	119	90	78	68	37	316
1 27	61-90	AVERAGE	9	23	168	452	793	1112	1156	852	712	474	250	81	6080
	71_00	STD DEV AVERAGE	7 11	17 20	67 155	77 443	92 808	157 1114	161 1133	134 843	94 682	96 456	56 246	35 85	469 5995
1005	, 1-00	STD DEV	15	20 16	59	64	115	155	165	132	92	456 89	246 66	38	522
ID-06	31-00	AVERAGE	61	87	267	545	890	1127	1192	954	901	653	424	227	7327
Southwestern Highlands		STD DEV	34	40	83	123	112	125	160	129	106	105	95	72	530
Coulinestern riiginanas	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
R	E1 00	STD DEV AVERAGE	24 64	36 102	84 284	140 563	99 891	107 1118	172 1190	127 936	84 939	89 688	91 446	62 235	380 7456
\$ £	21-00	STD DEV	23	39	86	112	89	109	142	107	939	92	86	235 59	344
6 (200)	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
2/	71-00	AVERAGE	66	79	264	561	895	1134	1147	923	853	640	425	211	7195
1006		STD DEV	41	41	84	85	119	128	130	108	96	113	80	65	509
ID-07	31-00	AVERAGE	16	35	200	492	856	1139	1218	952	825	547	319	129	6728
Central Plains	21 60	STD DEV	15	21 32	66 185	83 470	107 851	136	176 1239	151 980	110	94 529	81 306	47	494
	31-60	AVERAGE STD DEV	11 6	13	49	83	111	1094 127	206	160	841 100	80	89	130 49	6667 476
	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
Ø 1	51-80	AVERAGE	15	41	205	501	854	1128	1214	942	865	581	333	132	6811
6 2		STD DEV	7	26	73	81	86	109	155	127	104	87	79	45	367
1(27)	61-90	AVERAGE	19	41	223	514	857	1186	1236	954	837	570	339	127	6901
	71_00	STD DEV AVERAGE	11 22	27 36	79 208	89 507	87 874	146 1178	145 1206	136 937	119 791	106 546	65 331	47 125	492 6762
1007	71-00	STD DEV	21	24	68	72	113	146	157	142	112	100	77	47	564
ID-08	31-00	AVERAGE	70	116	321	648	1061	1404	1483	1173	1023	699	451	239	8688
Northeastern Valleys		STD DEV	35	41	76	78	103	134	170	141	121	94	84	67	491
	31-60	AVERAGE	67	119	313	628	1063	1379	1529	1215	1045	685	439	245	8727
	41 50	STD DEV	31	33	65	77	109	130	203	149	124	80	95	71	531
16	41-70	AVERAGE	76 25	125 45	332 82	651 87	1049	1400	1512 182	1174	1078	719 83	461 82	264 59	8841
567	51-80	STD DEV AVERAGE	70	127	328	658	86 1058	105 1389	1489	149 1162	119 1075	733	470	243	384 8802
S &	51 00	STD DEV	22	49	77	72	82	117	159	135	111	85	80	61	372
9 65	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
1008	21 00	STD DEV	42	40	73	70	109	148	139	122	105	103	76	66	497
ID-09		AVERAGE STD DEV	37 25	58 27	265 72	592 81	993 111	1319 137	1408 175	1121 162	988 135	649 97	389 83	183 58	8001 524
Upper Snake River Plains	31-60	AVERAGE	31	57	254	572	995	1280	1437	1162	1026	639	379	188	8020
	00	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
(a) ].	51-80	AVERAGE	34	67	275	607	997	1324	1422	1122	1036	685	402	185	8156
6 2	61 00	STD DEV	14	31	80	76	95	123	167	152	127	85	80	52 175	379
	ρ1-90	AVERAGE STD DEV	36 17	62 33	282 89	609 89	983 83	1360 147	1418 154	$\frac{1117}{147}$	987 144	664 108	403 64	175 55	8097 515
	71-00	AVERAGE	43	55	265	604	1003	1347	1377	1092	144 931	638	398	174	7926
1009	00	STD DEV	33	29	72	70	118	145	159	143	122	104	74	57	565
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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

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Idaho - Illinois

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ID-10	31-00 AVERAGE	63	94	314	643	1027	1331	1419	1162	1071	737	468	243	8572
Eastern Highlands	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
П	STD DEV 41-70 AVERAGE	25 62	26 97	62 317	82 640	124 1020	124 1324	164 1434	149 1164	116 1123	91 751	94 471	72 267	478 8669
	STD DEV	22	36	83	99	110	96	154	138	113	89	84	66	386
2	51-80 AVERAGE	60	104	319	647	1028	1333	1416	1154	1112	767	478	243	8661
2 %	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 71-00 AVERAGE	22 69	43 91	88 315	93 654	80 1032	124 1349	135 1392	126 1144	135 1012	109 726	67 474	61 228	473 8484
1010	STD DEV	42	40	73	71	115	131	145	123	122	109	77	63	550
IL-01	31-00 AVERAGE	7	22	111	404	815	1221	1374	1120	906	491	220	38	6730
Northwest	STD DEV	6	15	43	92	108	164	182	155	144	90	74	21	443
	31-60 AVERAGE STD DEV	5 5	17 11	100 44	377 86	824 114	1193 145	1314 160	$\frac{1117}{147}$	930 160	489 93	220 72	37 25	6623 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
(2)	51-80 AVERAGE	7	22	110	404	814	1228	1432	1148	940	482	218	39	6846
5 7	STD DEV	5	13	39	102	101	145	172	150	143	87	70	21	374
717	61-90 AVERAGE STD DEV	7 5	26 15	116 37	426 103	797 88	1257 177	1430 202	1156 153	898 135	487 91	221 76	39 19	6859 390
125	71-00 AVERAGE	8	27	121	439	815	1238	1410	1111	878	496	221	40	6802
1101	STD DEV	6	18	45	88	114	183	194	176	125	92	73	18	484
IL-02	31-00 AVERAGE	5	20	98	387	782	1176	1320	1089	895	506	239	44	6561
Northeast	STD DEV	5 4	14 16	38 90	89 365	108 796	159	179	145	136 917	88 504	77 240	24 43	430
	31-60 AVERAGE STD DEV	4	10	40	365 85	114	1159 146	1255 160	1087 137	152	92	240 74	43 27	6478 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
(2,2)	51-80 AVERAGE	5	20	93	380	780	1177	1373	1111	917	496	236	44	6633
27	STD DEV 61-90 AVERAGE	4 5	13 23	35 101	99 404	101 761	142 1204	171 1384	141 1122	129 885	85 503	74 241	24 45	377 6679
47	STD DEV	4	14	33	100	87	171	192	142	126	88	79	23	370
525	71-00 AVERAGE	5	24	106	416	776	1183	1358	1076	867	509	237	46	6603
1102	STD DEV	5	15	39	87	113	177	184	161	119	92	77	23	470
IL-03	31-00 AVERAGE STD DEV	5 4	15 11	79 36	331 82	737 109	1122 161	1263 182	1013 152	805 147	408 86	170 64	24 15	5971 418
West	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
	41-70 AVERAGE	5	14	78	313	737	1120	1257	1019	838	400	171	24	5976
	STD DEV 51-80 AVERAGE	5 5	10 15	31 78	84 337	99 737	151 1122	133 1318	113 1041	164 839	91 399	65 167	16 24	348 6082
- mylo-	STD DEV	5	9	34	92	99	134	165	151	152	399 84	62	15	339
3	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
1102	71-00 AVERAGE STD DEV	5	17 12	88 39	358 79	737 117	1141 178	1298 190	1008 176	774 123	407 91	173 62	25	6031 433
1103 IL-04	31-00 AVERAGE	4	15	79	345	747	1125	1262	1023	816	424	178	14 23	6039
Central	STD DEV	4	11	35	85	108	163	179	150	144	86	66	14	412
Contra	31-60 AVERAGE	3	11	70	322	757	1101	1194	1009	835	425	177	22	5926
	STD DEV 41-70 AVERAGE	3	8	35 77	83	114	148	157	138	163	87	62	17	421 6028
2.	STD DEV	4 4	15 10	32	326 86	748 99	1129 153	1249 138	1026 112	843 159	411 89	178 67	23 15	352
7 15	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
7-1-7	61-90 AVERAGE	5	18	82	365	728	1158	1326	1070	808	416	180	23	6181
725	STD DEV 71-00 AVERAGE	4 5	11 18	32 86	94 369	88 743	175 1137	193 1305	153 1023	134 788	90 425	72 178	14 24	353 6102
1104	STD DEV	4	12	37	84	112	180	187	175	123	91	65	13	434
IL-05	31-00 AVERAGE	4	17	85	354	747	1121	1256	1027	827	446	194	26	6105
East	STD DEV	4	12	37	86	107	166	178	146	141	86	69	17	408
	31-60 AVERAGE STD DEV	4 4	13 9	79 38	331 79	763 115	1106 154	1187 156	1016 134	851 158	451 89	198 62	27 20	6025 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
(2.7	51-80 AVERAGE	5	17	81	357	750	1121	1307	1054	848	431	189	27	6187
7.7	STD DEV	4	9	36	92	98 722	140	172	151	142	82	66 102	18	361
717	61-90 AVERAGE STD DEV	5 4	19 11	86 34	376 97	722 85	1147 177	1319 193	1069 151	812 132	436 87	192 75	26 15	6209 359
125	71-00 AVERAGE	5	20	92	383	737	1129	1302	1025	798	447	191	27	6154
1105	STD DEV	4	14	38	87	109	182	187	168	125	89	71	15	433

#### Section 3:

# Divisional Normals, 1971-2000 (and previous periods) CLIMATOGRAPHY OF THE UNITED STATES NO. 85

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

### Illinois - Indiana

**Heating Degree Days** 

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC		FEB	MAR	APR	MAY		ANNUAL
IL-06	31-00 AVERAG		11	67	299	681	1039	1169	936	739	365	145	17	5471
West Southwest	STD DE		8 7	33 58	78 273	105 691	158 1011	175 1102	148 916	142 751	81 366	57 143	11 16	405 5336
	31-60 AVERAG		7	31	72	109	141	155	916 134	163	366 81	143 49	16 12	394
5 17	41-70 AVERAG		10	66	283	684	1038	1153	935	766	352	143	17	5449
Sylven	STD DE	V 3	9	30	79	93	148	132	112	161	84	57	11	356
(27)	51-80 AVERAG		11	67	308	687	1039	1222	968	768	354	144	18	5588
	STD DE		8	34	87	93	130	169	152	147	79	57	11	369
7+7	61-90 AVERAG		13 8	72 32	322 87	664 88	1074	1234	989 150	735 133	358 84	150 65	18 11	5630 353
352	STD DE		8 12	32   75	323	88 674	171 1056	189 1212	150 940	717	84 367	65 147	11 18	353 5545
1106	71-00 AVERAG		8	34	323 76	111	174	184	175	119	84	59	11	424
IL-07	31-00 AVERAG	E 1	8	66	298	671	1019	1141	921	727	363	145	15	5374
East Southeast	STD DE		7	31	80	104	158	176	144	140	78	55	11	393
	31-60 AVERAG		6	60	278	688	999	1071	902	745	367	145	14	5277
	STD DE		6 8	32 66	73 288	107 683	145 1026	155 1127	131 924	161 755	79 351	48 144	12 15	388 5390
	41-70 AVERAG		8 7	30	288 78	683 94	1026	1127	$924 \\ 114$	755 156	351 82	144 55	15 11	334
735	51-80 AVERAG		8	64	311	684	1020	1194	955	753	353	146	16	5504
france	STD DE	V 2	6	33	86	97	133	172	153	146	76	56	11	360
7- P	61-90 AVERAG	E 1	10	68	320	652	1046	1213	972	716	356	148	16	5518
351	STD DE		7	31	92	89 657	171	187	146	129	82	63	10	351
1107	71-00 AVERAG		9 7	71 31	317 86	657 109	1028	1187 187	923 168	701 120	365 79	145 58	16 10	5419 426
11107 IL-08	STD DE		7 5	31 48	86 248	109 594	173 920	187 1032	168 817	120 632	79 289	58 102	10	426 4694
Southwest	STD DE		5	26	73	100	147	167	138	134	289 74	44	8 6	372
Countrool	31-60 AVERAG	E 0	3	40	225	607	893	970	797	642	286	97	7	4567
	STD DE	V 1	4	24	63	102	134	155	133	154	70	37	7	365
	41-70 AVERAG		5 5	46	236	600 87	917	1012	816 115	658 151	273 74	97 42	7	4667
5-1-5-7	STD DE		5 5	23 46	69 258	87 600	137 917	126 1072	115 845	151 653	74 277	42 100	5 8	318 4782
(Land	STD DE		4	27	∠58 77	92	125	165	148	141	71	45	8 6	364
h_(_)	61-90 AVERAG		6	52	270	576	950	1094	865	625	286	107	9	4840
• 7	STD DE	V 1	4	27	84	86	158	176	137	126	80	50	6	335
1100	71-00 AVERAG		6	55	272	586	938	1076	821	613	298	108	9	4780
1108	STD DE		5 4	27	76 254	105 592	161	174	156 818	111	77 293	47 106	6 7	385
IL-09	31-00 AVERAG		4 4	48 25	254 74	592 99	917 147	1026 166	818 136	633 134	293 74	106 45	7 6	4698 360
Southeast	31-60 AVERAG		2	41	231	613	903	972	806	650	292	102	6	4619
	STD DE	V 1	3	24	66	97	137	156	133	154	70	37	7	358
) ] \	41-70 AVERAG		4	48	244	606	923	1011	825	660	276	102	7	4705
5-1-1-	STD DE		4	23	70 265	87 500	139	125	118	148	74	43	6	314
LAnd	51-80 AVERAG		4 4	47 27	265 75	599 95	913 125	1062 164	847 146	651 143	279 72	106 46	8 7	4781 344
7	61-90 AVERAG	-	4 5	51	275	95 567	936	1085	146 859	619	288	46 111	8	4803
	STD DE		4	26	84	88	159	175	135	122	79	51	5	334
₹	71-00 AVERAG	E 0	5	54	275	575	923	1061	813	609	300	113	8	4736
1109	STD DE		4	26	79	106	159	176	151	113	78	49	6	389
IN-01	31-00 AVERAG		20 1 <i>4</i>	94	376	758 106	1139	1277	1060	869	500 80	236	40	6377
Northwest	STD DE		14 15	38 85	85 356	106 777	158 1128	172 1216	142 1052	140 898	89 509	77 241	23 40	406 6322
	STD DE		10	39	81	111	150	154	129	157	93	71	26	416
_	41-70 AVERAG	E 7	20	93	357	765	1149	1272	1068	892	490	243	41	6397
	STD DE	V 5	13	36	86	96	152	146	109	147	91	78	24	345
7-7-	51-80 AVERAG		22	93	380	759 96	1138	1326	1087	888	491 86	236	43	6470
144	STD DE		12 24	37 98	93 396	96 733	136 1158	163 1338	145 1099	131 852	86 491	75 235	24 41	347 6470
) [	61-90 AVERAG		13	36	396 95	85	166	1338	145	129	491 89	235 82	21	355
bowler	71-00 AVERAG		23	104	400	744	1142	1313	1052	834	492	230	41	6381
1201	STD DE	V 6	15	39	86	111	174	179	163	125	91	78	22	440
IN-02	31-00 AVERAG		22	102	388	749	1121	1253	1050	862	489	227	39	6310
North Central	STD DE		14 16	40	87 366	102 762	155	175	141	142	86 490	75 227	21 37	410
	31-60 AVERAGE STD DE		16 10	94 42	366 81	762 108	1108 142	1186 155	1032 128	883 163	490 91	227 66	37 23	6205 403
	41-70 AVERAG		23	105	373	754	1130	1245	1050	880	475	234	40	6319
	STD DE		15	41	89	93	146	148	112	151	89	76	22	375
	51-80 AVERAG	E 9	25	105	399	757	1125	1305	1081	884	483	233	43	6449
1 1 4	STD DE		14	40	91	95	135	164	147	132	83	77	23	350
	61-90 AVERAG		26 1 <i>4</i>	106	411	731 86	1142	1322	1097	851	487	230	41	6453
Embo	STD DE		14 24	37 108	97 407	86 738	165 1122	183 1292	144 1051	130 832	87 486	83 223	20 40	354 6332
1202	71-00 AVERAG		24 15	38	90	738 106	174	182	163	126	486 89	223 77	21	434
-							-, 1					. ,		

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	31-00 AVERAGE	7	21	107	401	759	1130	1261	1066	884	508	235	39	6418
Northeast	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 STD DEV	8 6	21 13	105 41	379 90	763 91	1142 142	1254 141	1067 109	898 145	494 92	239 78	39 21	6409 346
	51-80 AVERAGE	8	22	106	404	760	1131	1302	109	896	495	237	42	6495
	STD DEV	5	12	41	97	94	131	155	146	129	86	76	22	355
{A-A-H	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
bonder	71-00 AVERAGE	8	25	117	425	746	1126	1296	1065	858	501	232	41	6440
1203	STD DEV	6	15	40	95	103	169	171	163	127	86	77	21	439
IN-04	31-00 AVERAGE	4 4	13 10	81	338	693	1060	1179	963	773	408	177 64	25	5714
West Central	STD DEV 31-60 AVERAGE	2	9	36 71	85 309	104 708	163 1039	180 1100	145 933	141 784	84 403	172	16 22	412 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
L-6-3-1	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
1. 1.	STD DEV	4 5	9 16	35 90	95 364	87 691	177	184	147	129	84 416	73	15 27	346
1204	71-00 AVERAGE STD DEV	5 4	16 11	37	364 88	681 109	1071 179	1231 185	972 166	754 126	416 83	180 67	16	5807 417
IN-05	31-00 AVERAGE	4	15	86	351	699	1053	1170	965	780	420	185	28	5757
Central	STD DEV	4	10	37	87	99	158	177	145	139	81	67	17	417
Ochliai	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 STD DEV	5 4	16 9	88 39	366 91	708 88	1055 139	1216 170	999 159	800 138	411 80	190 70	31 18	5885 398
	61-90 AVERAGE	5	19	93	380	685	1077	1245	1020	776	423	195	31	5949
)   <del>]</del>	STD DEV	4	10	37	99	87	168	177	149	126	79	76	16	346
borto	71-00 AVERAGE	5	18	96	378	689	1059	1219	974	764	426	191	31	5849
1205	STD DEV	4	12	37	93	105	173	180	166	125	78	69	18	422
IN-06	31-00 AVERAGE	7	17	100	377	718	1072	1188	992	811	454	208	33	5977
East Central	STD DEV	5	12	40	86	98	160	180	144	141	83	69	19	410
	31-60 AVERAGE STD DEV	6 6	13 10	91 40	353 76	727 102	1056 151	1107 168	957 128	817 164	448 91	202 56	30 19	5806 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
<b>4</b>	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
1-303	STD DEV	5	11	40	99	86	168	175	149	128	80	79	18	345
1206	71-00 AVERAGE	7 5	19	108	401	710	1077	1240	1006	799	460	212	36	6075
IN-07	STD DEV 31-00 AVERAGE	0	13 5	39 55	92 275	104 614	174 947	178 1057	165 852	130 667	80 317	73 124	20 11	415 4926
Southwest	STD DEV	1	5	27	76	100	150	170	137	137	76	50	8	360
Journing	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 STD DEV	0 1	5 5	55	289	619	943	1095	879 150	684	303 74	125	12	5009
	61-90 AVERAGE	0	5 6	29 58	80 295	92 585	130 958	165 1117	150 892	144 646	311	53 129	9 12	347 5008
	STD DEV	1	5	28	89	88	164	176	138	123	78	57	7	328
	71-00 AVERAGE	0	5	59	290	590	943	1090	848	637	319	128	12	4921
1207	STD DEV	1	4	27	83	106	164	178	150	115	76	54	8	376
IN-08	31-00 AVERAGE	1	8	69	304	629	958	1061	862	685	344	141	17	5077
South Central	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 8	31	66 200	101	140	164	129	159	79 222	42 124	12 16	363
	41-70 AVERAGE STD DEV	1 2	8 7	67 31	288 75	639 88	969 142	1044 139	865 120	704 150	322 83	134 52	16 11	5056 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
المراي (	STD DEV	2	6	33	94	85	164	175	135	119	79	61	11	341
borr	71-00 AVERAGE	1	9	77	329	615	960	1102	864	665	355	149	19	5146
1208	STD DEV	2	7	31	89	101	166	179	147	116	74	59	12	396

Section 3:

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

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

Indiana – Iowa

**Heating Degree Days** 

Climate Division		omont	11.11	AUG	CED	OCT	NOV	DEC	IANI		MAD	ADD	MAN	ILINI	ANINILIAI
IN-09		ement AVERAGE	JUL 2	6 6	SEP 66	303	NOV 632	956	JAN 1063	FEB 872	MAR 694	<b>APR</b> 357	MAY 143	JUN 15	ANNUAL 5107
Southeast	51 00	STD DEV	3	6	31	78	93	149	167	131	132	76	54	11	344
Journeast	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
	=4 00	STD DEV	3	6	31	76	78	138	139	117	145	82	54	10	317
F-7-7-1	51-80	AVERAGE STD DEV	2	6	65 34	314 81	640 83	954 132	1102 157	902 143	706 136	343 76	144 56	16 12	5195 317
	61-90	AVERAGE	2	6 8	70	319	610	964	1122	906	671	350	146	16	5184
)	01 00	STD DEV	3	6	33	91	82	165	167	133	118	76	59	9	310
boulet	71-00	AVERAGE	2	7	72	321	616	948	1096	867	668	359	146	16	5118
1209		STD DEV	2	6	30	85	99	165	171	142	115	71	56	11	353
IA-01	31-00	AVERAGE	16	33	167	476	961	1392	1560	1253	1036	569	254	59	7775
Northwest	21 60	STD DEV	13	19	58	95	125	168	202	181	167	104	80	32	534
	31-60	AVERAGE STD DEV	14 11	27 17	152 60	453 104	957 121	1352 145	1529 200	1272 187	1071 161	573 107	259 84	63 38	7720 546
	41-70	AVERAGE	17	31	177	452	942	1384	1563	1266	1087	571	265	67	7820
	11 /0	STD DEV	10	17	56	99	113	148	161	126	192	111	78	36	403
1	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
5 5	61-90	AVERAGE	14	36	176	495	944	1442	1586	1268	1018	552	247	55	7833
	71.00	STD DEV	8 18	19 38	51 172	94 505	105 979	173 1422	214 1565	166 1225	179 989	106 560	76 249	26 55	507 7776
1301	/1-00	AVERAGE STD DEV	18 16	38 22	51	505 76	979 141	192	212	1225	989 140	109	248 77	55 25	581
IA-02	31-00	AVERAGE	16	36	160	468	949	1397	1565	1263	1038	573	252	56	7775
North Central		STD DEV	12	20	53	97	124	169	192	170	164	103	80	31	523
North Ochta	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
	E1_00	STD DEV AVERAGE	11 17	19 36	50 167	102 467	114 936	150 1398	157 1626	127 1285	183 1085	112 575	80 250	34 55	427 7896
	31-00	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
1302	21 00	STD DEV	14	22	50	81	137	189	206	185	140	106	77	24	546
IA-03	31-00	AVERAGE STD DEV	15 11	36 20	156 51	463 95	915 114	1352 165	1519 186	1232 166	1009 153	555 99	250 78	53 28	7555 501
Northeast	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
ξ	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
	61_90	STD DEV AVERAGE	11 15	18 39	46 163	107 478	104 897	145 1392	172 1566	154 1259	157 996	100 550	73 247	27 53	370 7655
7 7	01-50	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
1303		STD DEV	12	22	50	83	123	185	201	184	140	103	76	23	525
IA-04	31-00	AVERAGE	10	26	128	416	886	1295	1452	1160	945	500	212	42	7073
West Central	31 60	STD DEV	8 9	16 22	50 117	89 396	116 889	162	193 1432	176 1181	164 983	97 510	71 219	25 45	499 7061
	31-60	AVERAGE STD DEV	9	15	53	396 97	113	1258 136	188	182	164	100	219 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
	C1 05	STD DEV	7	14	47	101	101	141	149	164	178	96	61	23	386
7 7 3	ρ1-90	AVERAGE STD DEV	9 6	28 15	135 43	434 90	867 96	1342 171	1473 209	1176 162	927 170	482 101	205 67	39 20	7117 466
~	71-00	AVERAGE	11	28	129	439	96 895	1320	1448	1131	891	488	210	38	7029
1304		STD DEV	9	18	45	74	131	185	207	191	132	101	66	19	532
IA-05	31-00	AVERAGE	9	27	130	423	870	1292	1451	1164	942	504	219	45	7074
Central		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
	41-70	STD DEV AVERAGE	7 9	13 26	49 135	96 391	117 856	142 1281	170 1449	170 1172	163 983	97 496	74 219	29 48	512 7066
)     }	11-70	STD DEV	7	26 15	44	96	107	146	1449	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
1 5 4	61-90	AVERAGE	9	32	140	449	853	1335	1487	1193	934	496	218	45	7190
	71 00	STD DEV	6	17	41	98	97	172	205	163	167	99	73	22	428
1205	1,1-00	AVERAGE	10	31	136	462	881	1320	1469	1151	904	501	222	44	7132
1305		STD DEV	8	19	48	81	128	185	199	193	135	98	71	21	503

Section 3:

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

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

Iowa - Kansas

**Heating Degree Days** 

A-06   STD DEV   6																
East Central    STID DAY   6	Climate Division								DEC							ANNUAL
31-60 AVERAGE  STED DEV  6 12 45 95 115 145 161 155 159 94 37 38 48 1217  141-70 AVERAGE  8 20 115 15 79 8 112 150 155 95 145 159 94 38 48 1217  51-80 AVERAGE  8 20 115 79 8 112 140 140 150 150 150 150 150 150 150 150 150 15	IA-06	31-00														
STD DEV 6 1 2 49 99 115 149 161 156 159 94 73 24 471  41 70 AVERAGES 8 20 115 379 830 120 121 118 118 169 953 421 219 28 6858  51 - 8 TD DEV 6 1 3 39 84 102 151 141 118 169 38 74 22 351  51 - 9 AVERAGE 6 22 111 409 814 1277 1445 1165 950 477 205 32 6854  51 - 9 AVERAGE 7 22 113 420 814 1277 1445 1165 950 477 205 32 6854  51 - 10 AVERAGE 7 22 113 420 814 1277 1445 1165 950 477 205 32 6854  1.16 S D D DEV 6 1 2 18 18 18 18 18 18 18 18 18 18 18 18 18	East Central	21 60														
14-70 AVENAGE   8   20   115   379   830   1240   1403   1150   953   431   219   33   6835		31-60														
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STD DEV   5   14   35   95   90   176   203   154   148   97   72   18   384	}															
306	7 7	61-90														
STD DEV   6   16   45   82   119   128   194   180   130   96   69   16   471		71 00														
A-OT   31-00 AVERAGE   9   22   107   373   819   1212   1362   1079   869   450   187   34   6525   550thwest   31-60 AVERAGE   8   18   98   356   823   1179   1340   1096   91.0   461   194   36   6520   44-70 AVERAGE   7   12   417   93   105   132   186   177   165   93   70   26   6520   44-70 AVERAGE   7   23   117   362   814   1212   371   1097   925   457   129   40   6613   44-70 AVERAGE   7   23   117   362   814   1212   371   1097   925   457   129   40   6613   44-70 AVERAGE   7   23   117   362   814   1212   371   1097   925   457   129   40   6613   41-70	1306	71-00														
STO DRY   1	IA-07	31-00														
31-60 AVERAGE STO DRV 7 14 47 93 105 132 186 197 165 93 70 26 531 147 147 AVERAGE STO DRV 7 14 47 93 105 132 186 177 165 93 70 26 531 147 147 147 147 147 147 147 147 147 14	Southwest															
1-70 AVERAGE   10   23   117   362   814   1213   1371   1087   925   457   191   40   661   167   1		31-60														
STID DEV 7 15 42 90 100 145 129 133 174 100 69 24 370 165 167 80 AVERAGE 9 22 113 379 810 125 139 149 165 167 89 59 20 376 160 170 AVERAGE 10 23 100 395 826 1233 136 160 281 441 187 31 6479 31 379 810 125 139 149 150 150 150 150 150 150 150 150 150 150	5	41 70														
S1-80 AVERAGE   9   22   113   379   814   1214   1422   1103   909   448   181   34   6647   871	}   (	41-10														
STD DEV   7   12   40   97   99   139   149   165   167   89   59   20   376		51-80														
STD DEV   5			STD DEV													
307 STD DEV 6 16 42 75 125 182 203 199 130 96 62 15 484 187 31 6499 1A-08 31-00 AVERAGE 8 23 107 370 807 1206 1355 1080 869 456 195 35 6512   South Central STD DEV 6 15 45 88 114 161 187 168 162 90 70 25 494   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 914 466 196 35 6474   STD DEV 7 14 41 90 103 146 136 127 175 96 69 22 36   STD DEV 8 6 12 40 98 103 136 159 158 165 87 60 125   STD DEV 5 14 28 91 103 136 159 158 165 87 61 19 30   STD DEV 5 14 38 91 95 176 207 160 157 95 67 18 40   ALA-09 31-00 AVERAGE 8 24 113 401 811 1226 1363 1062 825 445 199 35 6512   STD DEV 6 16 66 67 123 78 31 11 126 185 185 81 81 81 81 82 81 81 81 11 126 185 81 81 81 81 81 81 81 81 81 81 81 81 81	5 5	61-90														
STD DEV		<b>71</b> 00														
A-08   S1-DO AVERAGE   S   23   107   370   807   1206   1355   1080   869   456   195   55   55   55   55   55   55   5	1307	\T-00				- 1										
South Central    STD DEV   6   15   45   88   114   161   187   168   157   90   68   20   452     STD DEV   7   13   46   91   113   136   177   168   162   90   70   25   594     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     STD DEV   7   14   41   90   103   146   136   127   175   96   69   22   361     STD DEV   6   12   40   98   103   136   159   158   165   87   61   19   95     STD DEV   5   14   38   91   95   176   207   160   157   95   67   18   405     STD DEV   5   14   38   91   95   176   207   160   157   95   67   18   405     STD DEV   6   6   6   46   75   126   182   201   190   131   96   64   17   472     SOutheast   31-60 AVERAGE   5   17   85   343   772   1170   1324   1368   136   875   439   183   27     STD DEV   5   13   39   87   115   145   172   155   163   89   65   17   434     STD DEV   5   13   39   87   115   145   172   155   163   89   65   17   434     STD DEV   5   13   38   89   92   177   206   156   152   96   67   15     STD DEV   5   13   38   89   92   177   206   156   152   96   67   15     STD DEV   5   13   38   97   115   145   172   155   163   89   62   20     STD DEV   5   10   35   95   102   135   161   153   160   87   42   178   636     STD DEV   5   10   35   95   102   135   161   153   160   87   42   178   636     STD DEV   5   10   35   95   102   135   161   153   160   87   42   178   636     STD DEV   5   10   35   95   102   135   161   153   160   87   42   178   636     STD DEV   5   10   37   98   14   151   151   151   151   154   174   1		31-00														
31-60 AVERAGE  31-60		51 00														
41-70 AVERAGE STD DEV	Couli Contai	31-60	AVERAGE	7	19	96	345	814	1176	1325	1091	904	466	196	35	6474
STD DEV 7 14 41 90 103 146 136 127 175 96 69 22 361 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  AL-09 31-00 AVERAGE 5 17 85 343 772 1170 1324 1058 844 422 178 26 6252 SOUTHBAST 31-60 AVERAGE 5 15 78 327 762 1143 1283 1063 875 439 183 27 6218 STD DEV 5 11 39 87 115 145 172 155 163 89 65 20 4466 41-70 AVERAGE 6 18 89 328 768 1170 1331 1072 886 425 182 29 6303 STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 97 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 97 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 99 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 99 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 99 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 99 102 135 161 153 160 87 62 17 335 STD DEV 5 10 35 99 102 135 161 153 160 87 62 17 335 STD DEV 5 10 37 99 128 165 152 199 84 45 198 44 5922 Northwest 5 10 47 79 99 128 165 168 169 169 46 19 40 19 50 10 40 19 40 19 50 10 40 19 50 10 10 10 10 10 10 10 10 10 10 10 10 10																
51-80 AVERAGE STD DEV 61-90 AVERAGE STD DEV 61-90 AVERAGE STD DEV 51 4 38 91 95 176 207 160 157 95 67 18 403 71-00 AVERAGE STD DEV 51 4 38 91 95 176 207 160 157 95 67 18 403 71-00 AVERAGE STD DEV 51 4 38 91 95 176 207 160 157 95 67 18 403 71-00 AVERAGE STD DEV 51 7 85 343 772 1170 1324 1058 844 28 178 26 6252 SOutheast STD DEV 51 7 85 343 772 1170 1324 1058 844 28 178 26 6252 SOutheast STD DEV 51 13 39 87 115 145 172 155 163 89 65 17 434 31-60 AVERAGE 51 12 35 88 102 151 137 118 171 94 68 18 187 187 187 187 187 187 187 187 187	}	41-70														
STD DEV 5 14 38 91 95 176 207 160 157 95 67 18 403 136 159 158 165 87 61 19 358 51 61 90 AVERAGE 7 25 112 387 785 1244 138 1105 851 438 190 34 655   STD DEV 6 16 46 75 126 182 207 160 157 95 67 18 403   31-00 AVERAGE 8 24 113 401 811 1226 1363 1062 825 445 199 35 6512   AL-09 31-00 AVERAGE 5 17 85 343 772 1170 1324 1058 844 428 178 26 6252   AVERAGE 5 15 78 327 782 1143 1283 1063 875 439 183 27 6218   STD DEV 4 12 37 88 111 164 185 159 153 89 65 17 432   31-60 AVERAGE 6 18 89 328 768 1170 1331 1072 886 425 182 29 6303   AL-09 AVERAGE 5 12 35 88 102 151 135 163 89 65 20 468   41-70 AVERAGE 6 18 89 328 768 1170 1331 1072 886 425 182 29 6303   STD DEV 5 10 35 95 102 155 163 89 64 225 182 29 6303   AVERAGE 5 18 87 349 768 1171 1389 1088 884 424 175 27 6366   STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335   STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335   STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 330   AVERAGE 5 18 87 364 773 1189 1341 1042 801 420 175 25 6240   STD DEV 5 10 47 79 99 128 165 148 126 94 60 14 459   STD DEV 5 10 47 79 99 128 165 148 120 199 199 199 445 199 445 199   KS-01 31-00 AVERAGE 5 18 87 332 77 1054 1155 159 169 199 460 14 459   STD DEV 5 10 47 79 99 128 165 148 136 90 67 27 390   AVERAGE 5 18 323 773 1054 115 151 96 65 30 399   AVERAGE 5 18 83 328 773 1054 115 151 96 65 30 399   AVERAGE 5 18 83 328 773 1054 115 151 96 65 30 399   AVERAGE 5 18 83 328 773 1054 115 151 96 65 30 399   AVERAGE 5 18 83 328 773 1054 115 151 96 65 30 399   AVERAGE 5 18 87 364 773 1189 1181 118 151 151 96 65 30 399   AVERAGE 5 18 83 389 81 105 141 132 156 104 63 29 325   AVERAGE 5 18 83 389 81 105 141 132 156 104 63 29 325   AVERAGE 5 18 83 389 81 105 141 132 156 104 63 29 325   AVERAGE 5 18 83 389 81 105 141 132 156 104 63 29 325   AVERAGE 5 18 88 183 28 181 105 141 132 156 104 63 29 325   AVERAGE 5 18 88 183 89 81 105 141 132 156 104 63 29 325   AVERAGE 5 18 88 183 89 81 105 141 132 156 104 63 29 325   AVERAGE 5 10 82 294 726 1090 1199 929 80   AVERAGE 5 18 88 38 80 81 123 127 37 38 17 59 9 30 15 15 28	1	51-80														
STD DEV   5   14   38   91   95   176   20   157   95   67   18   40   40   40   40   40   40   40   4	} ; ; ]	51 00														
308		61-90	AVERAGE	7	25	112	387	785	1244	1387	1105	851	438	190	34	6565
A-09   STD DEV   6	}															
North Central   Standard   Stan	1200	71-00														
Southeast    STD DEV   4   12   37   83   111   164   185   159   153   89   65   17   434		31-00		l .						_						
STD DEV 5 11 39 87 115 146 172 155 163 89 65 20 466 41-70 AVERAGE 5 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 18 357 510 DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 85 750 1205 1364 1088 884 424 175 27 6386 STD DEV 4 12 33 89 92 177 206 156 152 96 67 15 394 71-00 AVERAGE 5 18 87 349 768 1171 1389 1088 844 424 175 27 6386 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 AVERAGE 5 19 88 358 750 1205 1364 1088 828 414 174 26 6318 87 100 AVERAGE 5 19 88 358 750 1205 1364 1088 828 414 174 26 6318 416 416 416 416 416 416 416 416 416 416		31 00														
## A 1-70 AVERAGE   6   18   89   328   768   1170   1331   1072   886   425   182   29   6303   357   351	Countoust	31-60				- 1										
STD DEV 5 12 35 88 102 151 137 118 171 94 68 18 357 5170 DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 6386 STD DEV 61-90 AVERAGE 5 18 87 349 768 1171 1389 1088 884 424 175 27 6386 STD DEV 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 15 394 170 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 KS-01 Northwest 5 10 47 79 99 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 148 136 90 67 27 390 128 165 128 128 128 128 128 128 128 128 128 128		41														
51-80 AVERAGE STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 61-90 AVERAGE STD DEV 5 19 88 358 750 1205 1364 1088 884 424 175 27 6386 87 62 17 335 870 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 88-80 120 180 180 180 180 180 180 180 180 180 18	}	41-70	-													
STD DEV 5 10 35 95 102 135 161 153 160 87 62 17 335 510 20 20 20 20 20 20 20 20 20 20 20 20 20		51-80														
STD DEV   4   12   33   89   92   177   206   156   152   96   67   15   394	}															
T1-00 AVERAGE   STD DEV	7	61-90														
STD DEV   4		71 ^^														
Northwest  31-00 AVERAGE STD DEV 5 10 47 79 99 128 165 148 136 90 67 27 390 51 51 0 47 79 89 128 165 148 136 90 67 27 390 51 0 47 79 89 128 165 148 136 90 67 27 390 51 0 47 79 85 103 181 151 151 96 65 30 399 51 0 41-70 AVERAGE 6 12 103 351 773 1082 1164 922 853 445 193 48 5953 5TD DEV 5 9 49 89 81 105 141 132 156 104 63 29 325 51 0 51 0 51 0 51 0 51 141 132 156 104 63 29 325 51 0 51 0 51 0 51 141 132 156 104 63 29 325 51 0 51 0 51 0 51 141 132 156 104 63 29 325 51 0 51 0 51 0 51 141 132 156 104 63 29 325 51 0 51 0 51 0 51 141 132 156 104 63 29 325 51 0 51 0 51 0 51 141 382 788 1118 1185 928 785 435 200 45 6000 51 0 51 0 51 0 51 0 51 0 51 0 51	1300	1/T-00		_												
Northwest    STD DEV   5		31-00														
31-60 AVERAGE 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 510 DEV 5 9 49 89 81 105 141 132 156 104 63 29 325 51-80 AVERAGE 5 15 114 382 788 1118 1185 928 785 435 200 45 6000 61-90 AVERAGE 7 15 111 390 810 1098 1167 907 756 450 212 46 5968 AVERAGE STD DEV 5 11 43 52 116 150 163 130 127 87 65 25 357 AVERAGE AVERAGE 7 15 111 390 810 1098 1167 907 756 450 212 46 5968 AVERAGE AVERAGE 7 15 114 382 788 1150 150 163 130 127 87 65 25 357 AVERAGE AVERAGE 7 15 111 390 810 1098 1167 907 756 450 212 46 5968 AVERAGE AVE		31 00														
41-70 AVERAGE   6   12   103   351   773   1082   1164   922   853   445   193   48   5953   515   59   49   89   81   105   141   132   156   104   63   29   325   3	1.131(111100)	31-60	AVERAGE	5		82		773	1054	1155	938			191		
STD DEV   5		41 50														
51-80 AVERAGE STD DEV 5 9 51 87 80 120 151 147 150 82 62 26 312 61-90 AVERAGE STD DEV 4 9 47 81 92 150 163 130 127 87 65 25 357 71-00 AVERAGE STD DEV 5 11 43 52 116 150 156 160 96 87 63 25 413 88-401	7	41-70														
STD DEV 61-90 AVERAGE STD DEV 4 9 47 81 92 150 163 130 127 87 65 25 357 71-00 AVERAGE STD DEV 5 11 43 52 116 150 156 160 96 87 63 25 413		51-80														
61-90 AVERAGE STD DEV 4 9 47 81 92 150 163 130 127 87 65 25 357 71-00 AVERAGE STD DEV 5 11 43 52 116 150 156 160 96 87 63 25 413    KS-02 North Central  North Central  1-00 AVERAGE STD DEV 5 11 43 52 116 150 156 160 96 87 63 25 413    KS-02 North Central  1-00 AVERAGE STD DEV 5 8 38 75 99 140 174 163 146 86 60 19 417    31-60 AVERAGE STD DEV 5 7 38 80 86 116 182 158 163 90 59 23 428    41-70 AVERAGE STD DEV 5 8 38 80 86 116 182 158 163 90 59 23 428    41-70 AVERAGE 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 38 33 75 91 158 179 159 132 86 60 17 395    71-00 AVERAGE 4 12 88 326 750 1095 1196 923 715 383 163 29 5680		00														
71-00 AVERAGE 7 15 111 390 810 1098 1167 907 756 450 212 46 5968 87 63 25 413    KS-02 North Central		61-90		5	15				1118		928			200		
STD DEV   S		<b>51</b>														
North Central   31-00   AVERAGE   4   10   78   305   737   1082   1195   931   757   382   157   29   5666	1401	71-00														
North Central    STD DEV   5   8   38   75   99   140   174   163   146   86   60   19   417		31-00														
31-60 AVERAGE   4		31 00														
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	NOILII OGIILIAI	31-60		4	7	66	283	731		1179	940		384	157	28	5626
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																
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	7	41-70														
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	- Louis	51_80														
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		51-00														
71-00 AVERAGE 4 12 83 326 750 1095 1196 923 715 383 163 29 5680		61-90														
אַט עבע עד STU טבּע   4 בע טבּע   4 בע טבּע   4 בע טבּע   4 בער אַר אַר אַר אַר אַר אַר אַר אַר אַר אַ	1402	71-00														
	1402		STU DEV	4	10	36	56	119	160	T80	189	113	88	56	1.7	455

# United States Climate Normals 1971-2000 60 T 10 T

Section 3:

**Heating Degree Days** 

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

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

Kansas Page 25

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
KA-03	31-00 AVERAGE	4	10	76	291	705	1073	1202	931	740	360	138	20	5549
Northeast	STD DEV	5	8	37	76	105	147	178	160	148	85	54	14	425
	31-60 AVERAGE	4	7 7	66 38	276	708 102	1044	1174	934	774	365	141	20 17	5514
	STD DEV 41-70 AVERAGE	6 6	10	80	82 283	699	123 1078	178 1205	156 932	163 791	89 361	53 139	22	456 5605
	STD DEV	6	8	37	81	96	131	1203	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
1403	71-00 AVERAGE STD DEV	4	11 8	79 36	308	709 118	1089 167	1213 190	924	697	356 87	139 52	20 13	5548 447
KS-04	31-00 AVERAGE	4 2	7	83	63 331	755	1045	1127	188 888	116 764	419	178	36	5635
West Central	STD DEV	2	6	39	74	96	121	158	144	137	88	62	23	357
West ochiral	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 51-80 AVERAGE	3 2	6 7	40 88	84 329	84 758	100 1041	126 1155	124 893	155 789	100 412	60 172	26 33	299 5679
1	STD DEV	2	6	43	329 86	78	113	144	142	152	81	60	21	3079
	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
1404	STD DEV	2	7	38	54	112	141	156	156	96	89	60	22	384
KS-05	31-00 AVERAGE STD DEV	2	6 6	62 32	268 70	684 96	1019 133	1129 167	876 156	704 142	345 82	130 52	20 14	5244 391
Central	31-60 AVERAGE	2	4	53	253	96 687	996	1111	886	740	8∠ 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 61-90 AVERAGE	3	6 8	36 69	78 281	83 673	112 1052	148 1160	161 900	150 685	76 332	52 128	12 20	321 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
1405	STD DEV	2	7	33	55	112	152	174	183	106	84	51	14	414
KS-06	31-00 AVERAGE	3	9	66	261	654	1005	1129	871	683	328	121	16	5145
East Central	STD DEV 31-60 AVERAGE	4	8 7	34 57	71 244	105 660	142 978	169 1099	150 868	140 715	81 334	50 122	11 14	392 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
7	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 61-90 AVERAGE	4	7 11	35 70	79 277	95 639	110 1039	156 1168	154 907	144 665	74 312	49 119	10 17	324 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
1406	STD DEV	3	9	35	60	118	163	180	179	105	82	50	12	411
KS-07	31-00 AVERAGE	1	3	53	274	686	977	1053	815	681	349	131	21	5046
Southwest	STD DEV	1	4	28	66 250	91	113	151	133	130	84	52	15	329
	31-60 AVERAGE STD DEV	1 1	2	43 23	258 63	688 80	953 98	1039 158	826 131	709 138	354 82	133 49	20 16	5026 347
	41-70 AVERAGE	1	3	52	268	678	978	1045	821	733	345	126	22	5072
Ž	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 STD DEV	0	4 4	61 29	285 74	676 86	1007 124	1080 154	833 127	666 128	333 88	130 53	21 14	5095 317
	71-00 AVERAGE	0	4	60	290	86 694	989	1064	803	639	353	138	22	5055
1407	STD DEV	1	4	31	53	104	127	151	147	89	91	53	17	336
KS-08	31-00 AVERAGE	0	4	48	234	640	967	1059	810	651	312	105	13	4841
South Central	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 41-70 AVERAGE	2 1	4 4	27 50	68 229	89 632	109 973	164 1056	138 813	149 701	80 307	43 101	10 13	388 4880
7	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	86 640	139	165	149	126	86	44	9	346
1408	71-00 AVERAGE STD DEV	0	4 5	51 29	248 53	648 107	980 141	1072 163	803 173	613 100	315 86	110 46	14 11	4857 394
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Section 3:

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85

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

# Kansas – Kentucky – Louisiana

**Heating Degree Days** 

Climate Division	EI	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
KS-09	31-00	AVERAGE	1	5	49	222	592	922	1035	787	612	275	91	10	4601
Southeast		STD DEV	3	5	28	65	100	138	158	139	130	75	40	7	359
	31-60	AVERAGE	2	4	40	202	594	888	995	775	633	276	89	8	4505
		STD DEV	3	4	25	67	95	115	155	131	148	75	37	7	378
,	41-70	AVERAGE	2	5	49	213	584	919	1026	779	654	265	86	9	4590
	F1 00	STD DEV	3	5	24	68	90	121	113	105	145	80	40	6	302
	51-80	AVERAGE STD DEV	2 2	5 5	50 31	225 70	597 95	923 107	1078 151	809 145	635 136	265 70	85 39	9 6	4683 291
	61_90	AVERAGE	1	6	54	238	581	961	1082	828	600	264	90	10	4716
	01 00	STD DEV	2	5	29	65	93	151	168	141	118	78	41	7	303
	71-00	AVERAGE	1	6	56	241	598	945	1061	793	578	281	96	11	4667
1409		STD DEV	2	6	31	56	112	155	165	165	95	78	40	8	365
KY-01	31-00	AVERAGE	0	2	37	231	551	848	948	756	577	256	85	5	4295
Western		STD DEV	1	3	20	68	95	142	164	132	129	70	38	4	330
	31-60	AVERAGE	0	1	34	219	575	841	896	745	601	262	86	5	4266
\$		STD DEV	1	2	20	65	90	134	161	133	149	66	35	5	336
	41-70	AVERAGE	0	2	39	229	566	861	935	765	606	243	83	5	4334
2 5 /	E1_00	STD DEV AVERAGE	1 0	3 2	20 37	69 243	79 559	132 846	132 982	124 782	145 593	72 242	38 84	5 6	301 4375
	31-60	STD DEV	0	3	22	71	87	121	158	143	140	67	40	5	318
	61-90	AVERAGE	0	2	39	245	527	863	1010	793	561	249	88	5	4381
		STD DEV	0	3	21	77	87	150	167	131	119	74	42	4	302
	71-00	AVERAGE	0	2	37	237	528	843	979	748	547	256	86	5	4269
1501		STD DEV	0	2	20	71	102	153	170	139	103	71	41	4	345
KY-02	31-00	AVERAGE	0	2	48	263	575	869	968	781	610	292	113	9	4531
Central	21	STD DEV	2	3	24	72	95	144	170	132	132	73	46	7	343
	31-60	AVERAGE STD DEV	1 2	2	43 24	251 67	600 91	870 138	919 168	775 134	637 155	295 70	110 41	8 8	4510 354
2	41_70	AVERAGE	1	3	48	258	592	887	961	796	636	274	107	9	4571
	41-70	STD DEV	2	4	23	72	76	138	140	129	148	77	45	7	314
	51-80	AVERAGE	0	2	47	277	583	864	1001	810	621	277	112	10	4604
		STD DEV	1	3	27	77	83	128	165	145	138	72	48	8	334
	61-90	AVERAGE	0	3	52	279	548	874	1029	813	586	286	118	10	4597
	=4 00	STD DEV	1	3	26	84	88	155	172	134	115	77	49	6	327
1502	71-00	AVERAGE	0	3	51 24	273 80	550	857	994	769	580	296 73	119	10	4501
KY-03	31-00	STD DEV AVERAGE	1	3 5	58	288	103 603	152 906	177 1008	135 825	103 659	336	50 137	7 15	358 4842
	31-00	STD DEV	2	5	28	78	93	145	176	137	134	76	52	11	369
Blue Grass	31-60	AVERAGE	1	4	50	266	617	897	945	803	676	332	127	12	4729
-		STD DEV	3	5	26	67	93	136	172	134	160	77	41	11	357
	41-70	AVERAGE	2	5	58	277	618	925	999	837	680	320	131	14	4867
January Mary Mary Mary Mary Mary Mary Mary M		STD DEV	3	6	27	75	77	136	150	131	151	83	50	11	350
~ d	21-80	AVERAGE STD DEV	2	5 4	60 32	306 82	616 81	913 132	1054 165	867 150	676 137	330 77	141 54	18 12	4987 354
	61-90	AVERAGE	2	6	65	311	584	920	1080	870	644	341	148	18	4989
	01 30	STD DEV	2	5	30	91	87	157	170	139	116	78	58	11	341
	71-00	AVERAGE	1	6	65	308	586	901	1041	823	636	344	147	18	4875
1503		STD DEV	2	5	28	86	100	156	178	142	109	73	58	12	381
KS-04	31-00	AVERAGE	1	4	58	296	586	861	940	772	615	311	131	15	4590
Eastern	21 62	STD DEV	2	4	27	79	92	138	171	134	128	72	52	11	365
	31-60	AVERAGE STD DEV	1 2	2	46 23	268 69	594 89	848 133	871 170	741 138	624 155	296 70	113 39	11 9	4414 327
-54-	41-70	AVERAGE	1	4	57	283	598	878	929	777	631	288	119	14	4578
	,0	STD DEV	2	4	27	77	78	131	154	144	147	76	47	10	375
Zund Z	51-80	AVERAGE	1	4	58	312	601	870	980	808	627	304	133	18	4715
2 5		STD DEV	2	4	31	80	81	133	162	148	128	69	53	12	351
	61-90	AVERAGE	1	4	66	319	570	875	1014	817	603	321	146	19	4755
	71 00	STD DEV	2	4	30	90	90	148	161	133	106	71	54	10	328
1504	/1-00	AVERAGE STD DEV	1 1	4 4	66 26	318 87	574 101	857 144	978 167	777 124	600 101	329 71	149 58	19 12	4673 350
LA-01	31-00	AVERAGE	0	0	∠6 5	96	319	538	603	438	304	94	11	0	2408
Northwest	52 00	STD DEV	0	0	5	41	78	110	130	104	90	38	8	0	272
INOLLIMESE	31-60	AVERAGE	0	0	4	82	326	511	561	419	306	91	10	0	2309
		STD DEV	0	0	3	40	73	98	125	104	103	33	8	0	270
} &	41-70	AVERAGE	0	0	5	97	322	537	602	448	331	87	9	0	2437
	E1 0:	STD DEV	0	0	4	42	73	97	117	111	100	39	7	0	260
	51-80	AVERAGE	0	0	7 7	109	333	546	627 127	464 116	322	94	11	0	2515
( John )	61-90	STD DEV AVERAGE	0	0 0	7	48 111	81 308	95 567	137 658	116 477	98 309	38 93	9 12	0	263 2541
- 30 July 1	01-90	STD DEV	0	0	7	42	83	122	131	103	85	40	8	0	2341
a month	71-00	AVERAGE	0	0	6	105	314	558	623	436	287	102	12	0	2443
1601		STD DEV	0	0	6	38	83	120	132	100	63	41	9	0	261
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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	31-00 AVERAGE	0	0	5	97	311	530	594	431	297	91	10	0	2366
North Central	STD DEV	0	0	5	41	77	113	133	105	90	38	8	0	282
	31-60 AVERAGE STD DEV	0 0	0	4 3	81 40	309 72	496 97	535 125	404 106	294 103	87 33	10 8	0	2221 274
3	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
7 7	51-80 AVERAGE	0	0	6	110	328	545	627	462	317	90	11	0	2496
1 1	STD DEV	0	0	6	48	80	94	134	116	100	37	10	0	258
3,200	61-90 AVERAGE	0	0	7	113	305	563	659	473	303	89	11	0	2523
The state of the s	STD DEV	0	0	6	43	82	122	130	104	86	39	8	0	237
1602	71-00 AVERAGE STD DEV	0 0	0	6 5	108 39	314 82	553 122	627 129	438 97	285 66	101 39	12 9	0	2444 248
LA-03	31-00 AVERAGE	0	0	4	92	296	520	590	429	289	86	10	0	2315
Northeast	STD DEV	0	0	4	40	76	115	137	107	90	36	8	0	269
Tronuis de c	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
7.5-3	STD DEV 51-80 AVERAGE	0 0	0	4 5	43 101	67 301	106 524	128 610	121 449	102 300	33 79	7 10	0	297 2381
1	STD DEV	0	0	5	46	76	100	139	126	100	33	9	0	294
3 Logs.	61-90 AVERAGE	0	0	5	102	280	546	652	469	293	82	10	0	2439
The Section of the se	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
1603	STD DEV	0	0	4	39	83	120	129	97	67	39	8	0	236
LA-04	31-00 AVERAGE STD DEV	0 0	0	2 2	84 38	285 78	482 110	548 134	392 104	265 83	77 34	10 8	0	2143 280
West Central	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
3 8	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
3	51-80 AVERAGE STD DEV	0 0	0	3	94 45	296 80	493 95	567 145	417 115	278 87	73 31	10 8	0	2230 290
	61-90 AVERAGE	0	0	3	98	275	517	608	435	273	75	10	0	2295
233	STD DEV	0	0	3	43	84	117	128	98	75	35	7	0	232
grange.	71-00 AVERAGE	0	0	3	94	281	509	576	399	255	87	11	0	2214
1604	STD DEV	0	0	3	39	84	117	129	94	63	36	8	0	258
LA-05	31-00 AVERAGE	0	0	1	69	247	431	498	354	231	58	4	0	1894
Central	STD DEV 31-60 AVERAGE	0 0	0	2	34 61	72 253	104 401	130 447	100 324	76 230	28 55	4 4	0	256 1776
	STD DEV	0	0	1	34	64	90	129	101	86	23	4	0	250
	41-70 AVERAGE	0	0	2	71	252	429	494	361	252	51	3	0	1915
(5) <u>3.</u> 3	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 61-90 AVERAGE	0 0	0	2 2	41 79	74 236	91	133	113	83	26	5	0	267
2 5, 500	STD DEV	0	0	2	37	236 79	459 112	558 123	398 97	238 73	56 29	4 4	0	2031 225
Carrie Con	71-00 AVERAGE	0	0	2	72	239	450	523	361	218	64	4	0	1932
1605	STD DEV	0	0	2	34	79	113	123	86	56	31	4	0	220
LA-06	31-00 AVERAGE	0	0	1	67	243	408	475	340	220	62	4	0	1821
East Central	STD DEV	0	0	1	33	73	101	128	96	74	29	4	0	225
	31-60 AVERAGE STD DEV	0 0	0	1 1	64 35	257 64	398 90	441 133	324 103	230 85	66 26	5 5	0	1785 225
7 3	41-70 AVERAGE	0	0	1	68	247	409	472	345	236		3	0	1835
5 3 3	STD DEV	0	0	1	35	62	88	118	114	79	28	3	0	236
1 2 3	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
23.50	61-90 AVERAGE	0	0	1	73	226	418	520	371	215	55	4	0	1882
3mg	STD DEV 71-00 AVERAGE	0 0	0	1 1	36 70	80 231	114 412	127 489	94 340	66 202	28 65	3 4	0	237 1813
1606	STD DEV	0	0	1	34	81	112	126	80	56	29	3	0	225
LA-07	31-00 AVERAGE	0	0	0	50	208	376	451	318	202	48	2	0	1655
Southwest	STD DEV	0	0	1	29	68	94	122	93	69	24	2	0	226
	31-60 AVERAGE	0	0	0	45	219	357	413	297	208	48	2	0	1589
	STD DEV	0	0 0	1	28 51	60 212	80	124	95 224	78	21 42	2 2	0	225
4 3 3	41-70 AVERAGE STD DEV	0 0	0	1	51 30	212 57	373 81	452 113	324 106	222 75	22	2	0	1676 231
F. F. A	51-80 AVERAGE	0	0	1	58	217	382	471	343	210	43	2	0	1726
	STD DEV	0	0	1	37	71	84	126	104	71	22	2	0	242
Thomas .	61-90 AVERAGE	0	0	1	56	194	394	500	353	205	45	2	0	1749
	STD DEV	0	0	1	33	73	108	120	91	63	24	2	0	220
1607	71-00 AVERAGE	0 0	0 0	1	52 31	199 75	390	467	321	186	51 25	2 2	0	1668
100/	STD DEV	U	U	1	31	/5	105	119	84	52	l <sup>∠5</sup>		0	219

Section 3:

Divisional Normals, 1971-2000 (and previous periods)

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

# Louisiana - Maine - Maryland

**Heating Degree Days** 

Climate Division		ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
LA-08		AVERAGE	0	0	0	47	197	349	430	302	192	44	1	0	1562
South Central		STD DEV	0	0	1	27	66	93	122	92	67	23	1	0	223
SSSGI SOIIGGI	31-60	AVERAGE	0	0	0	44	210	335	395	281	199	45	1	0	1512
	44 50	STD DEV	0	0	1	27	58	79	128	98	77	20	2	0	227
1 2 3 3	41-70	AVERAGE STD DEV	0	0 0	0	48 27	204 56	352 82	434 114	311 107	211 73	40 22	1 1	0	1602 225
F.3-14	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
3ms	71 00	STD DEV AVERAGE	0	0 0	0 0	30 48	71 185	108 358	122 443	88 304	62 176	23 47	1 1	0	230 1562
1608	71-00	STD DEV	0	0	0	28	74	104	118	79	50	24	1	0	214
LA-09	31-00	AVERAGE	0	0	0	33	165	310	394	274	169	34	1	0	1380
Southeast		STD DEV	0	0	0	21	61	88	117	87	61	19	1	0	209
	31-60	AVERAGE STD DEV	0	0 0	0 0	28 19	171 53	294 76	356 116	253 90	174 67	35 18	1 2	0	1313 194
8	41-70	AVERAGE	0	0	0	33	170	309	390	277	182	30	1	0	1393
(5) (3)		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
	61_90	STD DEV AVERAGE	0	0	0 0	25 39	64 156	82 325	120 438	102 307	61 170	17 32	1 1	0	237 1469
La Day	01-90	STD DEV	0	0	0	25	67	100	119	86	57	19	1	0	218
4	71-00	AVERAGE	0	0	0	36	158	320	412	278	155	36	1	0	1397
1609	21 25	STD DEV	0	0	0	23	69	96	121	76	47	20	1	0	206
ME-17	31-00	AVERAGE STD DEV	73 35	117 43	328 67	673 78	1003 91	1482 147	1666 138	1447 122	1266 121	835 75	469 82	166 44	9525 442
Northern	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
1	51-80	STD DEV AVERAGE	39 79	48 128	70 341	72 675	88 996	137 1495	134 1655	123 1446	118 1262	80 846	89 488	48 170	395 9581
The warm		STD DEV	38	44	70	79	88	151	138	119	117	68	88	46	461
Some of the same o	61-90	AVERAGE	80	131	354	689	1013	1508	1695	1461	1273	849	489	175	9716
<b>V</b>	71_00	STD DEV AVERAGE	33 79	45 122	67 353	75 710	85 1017	157 1483	129 1703	116 1451	113 1269	77 841	79 471	39 171	378 9671
1701	71-00	STD DEV	31	33	61	71	76	165	127	123	119	76	83	42	444
ME-02	31-00	AVERAGE	31	61	239	569	880	1319	1482	1280	1104	712	375	108	8160
Southern Interior	21 60	STD DEV	20	28	56	74	78	142	137	117	102	68	72	36	388
	31-60	AVERAGE STD DEV	27 16	55 27	218 47	545 66	875 85	1322 139	1449 144	1270 119	1108 116	703 76	361 72	106 41	8039 395
{	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
(V	51-80	AVERAGE STD DEV	33 21	67 30	246	570 75	877 76	1331 142	1475 133	1286 109	1103 96	718 59	384 80	110 37	8200 379
Some State of the	61-90	AVERAGE	32	67	255	581	886	1339	1509	1291	1101	719	385	113	8278
S. Farrier		STD DEV	19	30	58	75	75	149	130	110	92	64	68	33	325
1700	71-00	AVERAGE	32	61	257	603	886	1306	1509	1269	1096	712	377	112	8219
1702 <b>ME-03</b>	31-00	STD DEV AVERAGE	20 40	21 56	49 214	70 521	74 808	155 1207	131 1354	117 1184	97 1036	64 695	69 400	35 144	392 7658
Coastal	31 00	STD DEV	21	27	45	65	75	136	130	104	89	59	62	43	357
~~	31-60	AVERAGE	49	64	215	513	802	1211	1325	1179	1049	707	417	169	7701
/	41-70	STD DEV AVERAGE	21 43	29 65	41 213	62 501	80 793	138 1216	135 1346	106 1189	101 1038	67 697	61 414	40 150	405 7664
3	11 70	STD DEV	21	30	51	61	64	135	123	95	92	60	67	45	325
Va /	51-80	AVERAGE	35	54	211	514	802	1214	1348	1193	1032	686	393	133	7615
A Province	61 00	STD DEV	19	27	49	66 531	73	139	126	98	81	49	67	40	303
	6I-90	AVERAGE STD DEV	33 17	51 28	213   49	521 67	811 73	1224 142	1381 130	1198 95	1028 77	687 52	388 58	128 36	7663 278
•	71-00	AVERAGE	31	46	213	540	816	1190	1377	1173	1021	680	380	128	7596
1703		STD DEV	17	19	42	65	73	143	126	107	84	54	57	38	343
MD-01	31-00	AVERAGE STD DEV	0	0 0	28 16	232 66	500 80	795 122	890 147	774 113	632 105	339 67	106 39	7 6	4305 324
Southeastern Shore	31-60	AVERAGE	0	0	27	220	507	809	855	763	645	337	98	5	4266
/ R # M n /		STD DEV	0	0	16	62	73	122	158	114	130	74	35	5	341
The first	41-70	AVERAGE	0	0	30	221	506	829	896	779	647	331	103	7	4348
34	51 - 80	STD DEV AVERAGE	0	0 0	17 30	64 242	67 514	117 803	136 923	92 800	122 645	68 332	43 112	5 9	340 4410
5	7	STD DEV	0	0	16	63	74	125	125	116	102	69	41	6	294
- Inc	61-90	AVERAGE	0	0	32	242	490	792	944	801	625	350	114	8	4399
	71 00	STD DEV	0	0	17	75	84	125	133	114	85 613	62	39	6	292
1801	/I-00	AVERAGE STD DEV	0	0 1	27 12	238 71	488 89	765 126	899 138	762 119	612 77	331 62	110 36	8 7	4239 295
		V 1 D 1 V	ı ,	т_	-4	, 1		120	100		, ,	U Z			l 2,,,

Section 3:

**Heating Degree Days** 

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

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Climate Division	Ele	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MD-02	31-00	AVERAGE	0	0	31	240	523	835	932	807	644	337	100	6	4456
Central Eastern Shore		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
The man way	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
2_{_{_{1}}}	51-80	AVERAGE	0	0	31	245	531	839	962	829	655	329	104	7	4531
	7 61 00	STD DEV	0	0	17	67	74	118	119	118	104	68	42	6	260
M de	61-90	AVERAGE STD DEV	0	0 1	31 17	242 75	509 79	828 127	985 129	826 119	626 89	341 64	101 40	6 5	4496 291
	71_00	AVERAGE	0	0	27	239	507	798	937	786	610	320	95	6	4325
1802	71-00	STD DEV	0	1	12	71	86	130	143	123	88	64	34	5	310
MD-03	31-00	AVERAGE	0	1	38	259	535	841	939	801	641	340	108	7	4511
Lower Southern		STD DEV	0	2	18	69	80	124	149	117	111	71	41	6	311
Lower Codulom	31-60	AVERAGE	0	1	34	243	537	850	894	792	663	344	102	6	4466
(A ***)		STD DEV	0	1	18	65	70	118	159	122	134	77	36	6	323
1 2 m	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
\$ 1	51-80	AVERAGE	0	1	36	262	546	847	966	823	649	329	108	8	4576
Jak Jak	61 00	STD DEV	0	1	19	66 265	75 522	122	126	120	106	70	44	6 7	285
62	OT-80	AVERAGE STD DEV	0	1 1	39 20	265 77	523 82	838 131	992 134	823 117	622 89	346 68	111 42	5	4567 293
	71-00	AVERAGE	0	1	39	274	531	814	960	788	615	330	112	8	4473
1803	, 1 00	STD DEV	0	2	17	74	93	131	141	122	88	67	39	7	307
MD-04	31-00	AVERAGE	0	1	42	275	557	875	967	822	662	347	114	8	4670
Upper Southern		STD DEV	0	1	20	70	80	124	149	115	109	71	43	6	307
Oppor Coduletti	31-60	AVERAGE	0	1	42	263	566	886	926	819	685	355	112	8	4662
(A m)		STD DEV	0	1	21	64	73	118	158	120	130	76	37	7	306
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	41-70	AVERAGE	0	1	45	263	566	910	969	833	680	342	116	9	4734
5	F1 00	STD DEV	0	1	23	68	67	114	134	93	121	73	48	6	276
	51-80	AVERAGE STD DEV	0	1 1	42 21	281 71	566 78	885 120	998 121	847 114	672 103	339 67	121 48	10 8	4762 248
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	61-90	AVERAGE	0	1	44	287	547	875	1021	844	644	351	119	8	4741
	01 30	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
1804		STD DEV	0	1	16	78	90	135	143	119	90	66	42	7	322
MD-05	31-00	AVERAGE	0	1	39	267	556	880	983	846	688	363	117	7	4747
Northeastern Shore		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
(a m	41 70	STD DEV	0	1 1	19	65 248	73 556	119 907	156 983	123 851	131 700	74 355	37 116	5 7	342 4759
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	41-70	AVERAGE STD DEV	0	1	36 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
61/2 L	, 51 00	STD DEV	0	1	20	74	71	116	122	124	97	68	45	7	288
Jak /	61-90	AVERAGE	0	1	42	280	552	886	1038	869	667	373	121	8	4837
0		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
1805	21 -	STD DEV	0	1	16	78	89	130	146	129	86	63	40	7	337
MD-06	31-00	AVERAGE	0	3	57	311	614	937	1032	886	721	398	142	12	5112
Northern Central	31-60	STD DEV AVERAGE	1 0	3 3	25 57	72 304	81 623	126 949	152 992	120 882	112 743	75 403	48 138	8 12	336 5105
	31 00	STD DEV	1	3	26	69	73	119	159	124	132	83	40	8	332
Jana,	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
5 82	51-80	AVERAGE	1	2	56	316	622	942	1056	906	728	391	148	14	5182
9. 15	7	STD DEV	1	2	27	73	76	120	126	121	103	75	54	10	286
M. 93	61-90	AVERAGE	1	3	59	320	603	938	1083	910	705	407	149	13	5191
	71 00	STD DEV	1	2	27	83	80 603	133	139	114	94	70	52 141	9 12	300
1806	/1-00	AVERAGE STD DEV	1 1	3	55 21	315 80	603 92	907 136	1049 151	868 125	692 95	385 70	141 47	13 10	5031 349
MD-07	31-00	AVERAGE	3	9	89	363	667	988	1082	920	764	427	178	25	5515
Appalachian Mountain		STD DEV	3	7	35	78	88	128	158	115	119	77	59	15	346
Appaiaoilian woullain	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
1	41-70	AVERAGE	3	8	86	338	666	1009	1071	921	767	406	168	22	5464
	L	STD DEV	3	6	36	71	71	121	135	98	132	85	59	14	287
2 (3	51-80	AVERAGE	3	7	83	364	669	990	1107	941	765	412	178	28	5546
The street	61 00	STD DEV	3	5 9	36 91	78 377	84 654	125	140	125	112	78 425	61 104	18	318
W gr	01-90	AVERAGE STD DEV	4	9 6	36	92	654 84	992 137	1138 150	951 113	751 99	435 75	184 60	28 15	5612 298
	71-00	AVERAGE	4	10	96	389	669	977	1115	920	755	431	191	30	5588
1807	00	STD DEV	4	8	31	86	100	139	156	123	106	67	63	17	377
		·•	<u> </u>						1 77			•			I

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**Heating Degree Days** 

Divisional Normals, 1971-2000 (and previous periods)
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Temperature (°F), Precipitation (inches), and Degree Days

# Maryland – Massachusetts – Michigan

Climate Division	El	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MD-08	31-00		34	54	180	491	790	1110	1205	1045	914	567	291	84	6765
Allegheny Plateau		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
Mary a	41_70	STD DEV AVERAGE	20 40	26 62	54 194	76 483	93 807	143 1151	186 1211	142 1064	163 944	103 561	61 293	34 87	417 6897
S Set	41-70	STD DEV	20	27	58	82	83	140	157	127	151	96	78	33	386
3	51-80	AVERAGE	38	54	180	503	797	1124	1245	1078	926	561	296	93	6895
	7	STD DEV	18	24	60	86	88	138	148	134	132	82	81	38	346
2	61-90	AVERAGE	35	53	177	502	766	1110	1259	1071	887	564	293	89	6805
	71 00	STD DEV AVERAGE	18 27	25	58	98 490	93 762	152 1073	159	129 1021	114 868	79 542	80	33 79	386 6569
1808	71-00	STD DEV	16	45 22	165 39	93	104	148	1215 166	132	116	77	282 76	36	404
MA-01	31-00	AVERAGE	23	59	218	538	823	1216	1357	1182	1027	647	325	90	7503
Western		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
	41 50	STD DEV	15	30	53	74	91	128	154	120	138	92	72	33	386
	41-70	AVERAGE STD DEV	24 17	65 32	212	508 70	817 79	1240 127	1365 137	1191 98	1035 121	635 91	339 79	90 32	7521 342
30	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
75	61-90	AVERAGE	22	59	221	545	814	1231	1399	1197	1017	650	329	96	7581
~ 2	71 00	STD DEV	13	27 57	57	90	84	138	147	110	88	85	75	33	302
1901	/1-00	AVERAGE STD DEV	24 15	21	228	569 86	822 84	1195 147	1368 153	1163 127	1008	648 82	322 70	95 34	7499 398
MA-02	31-00	AVERAGE	6	23	148	447	734	1117	1249	1080	925	572	263	56	6619
Central		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
•	44 50	STD DEV	4	13	40	68	82	117	139	117	124	84	62	24	340
	41-70	AVERAGE STD DEV	6 6	24 17	137 48	411 67	721 73	1137 121	1250 130	1083 99	926 114	556 82	263 75	52 23	6566 366
	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
7.3 2	71 00	STD DEV	5	16	44	81	79	132	137	97	82	69	64	26	266
1902	71-00	AVERAGE STD DEV	8 6	24 12	165 37	487 74	741 82	1099	1265 143	1068 114	916 89	578 66	273 57	63 26	6687 359
MA-03	31-00	AVERAGE	5	14	107	380	652	995	1124	995	876	577	287	65	6077
Coastal		STD DEV	4	10	33	64	76	120	130	102	85	65	58	27	341
Coastai	31-60	AVERAGE	6	15	104	372	653	1011	1107	1003	893	585	289	71	6110
r.	41 70	STD DEV	4	11	32	62	80	119	138	108	98	69	59	28	370
	41-70	AVERAGE STD DEV	6 5	16 11	107 37	359 56	643 65	1015 116	1126 122	1001 84	884 87	575 68	298 67	68 28	6099 318
	51-80	AVERAGE	6	14	110	378	649	997	1128	1003	879	572	294	67	6096
	7	STD DEV	5	10	39	64	70	116	115	96	71	65	63	24	303
	761-90		5	13	113	387	649	997	1149	1004	868	579	293	66	6121
<b>~</b> .	71 00	STD DEV AVERAGE	4 4	11 10	37 105	70 395	72 647	123 967	127 1127	90 974	70 853	63 563	56 277	26 59	275 5980
1903	71-00	STD DEV	4	7	32	68	76	127	126	105	76	61	50	28	328
MI-01	31-00	AVERAGE	79	114	302	625	1042	1449	1617	1398	1254	804	455	186	9325
West Upper		STD DEV	36	44	64	105	106	134	147	144	138	106	101	58	500
	31-60	AVERAGE	72	109	294	612	1054	1439	1582	1404	1291	814	463	180	9314
	41_70	STD DEV AVERAGE	32 84	46 116	65 306	106 588	116 1033	122 1445	135 1612	128 1409	143 1266	115 788	90 476	59 192	503 9315
- Tung	41-70	STD DEV	35	47	60	101	1033	105	136	105	144	105	96	55	395
The state of the s	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
15 5 8	71-00	STD DEV AVERAGE	34 83	43 115	60 308	112 651	85 1039	139 1459	155 1637	145 1372	132 1219	97 796	110 438	57 186	456 9303
2001	71-00	STD DEV	39	44	65	98	1039	158	158	160	1219	111	109	57	561
MI-02	31-00	AVERAGE	85	111	281	599	959	1338	1517	1352	1237	819	490	206	8993
East Upper		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
1	41-70	STD DEV	32	49 117	59	90 573	102	106	125	118	131	104	80 51 <i>4</i>	57 209	463 9020
	41-10	AVERAGE STD DEV	89 35	117 47	285 56	573 89	953 88	1346 96	1520 126	1359 107	1248 128	808 92	514 90	209 51	364
3	51-80	AVERAGE	89	118	291	592	954	1355	1550	1380	1250	812	491	210	9089
30		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
	71 00	STD DEV	33	40	56	103	71	134	136	129	110	81	100	56	404
2002	\T-00	AVERAGE	84	108	284 59	617 93	958 89	1343	1540	1336	1206	806 94	459 102	198	8937
2002		STD DEV	40	42	59	93	89	152	139	141	116	94	102	62	517

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Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MI-03	31-00 AVERAGE	45	78	219	532	884	1241	1402	1270	1141	721	409	135	8077
Northwest Lower	STD DEV	26	35	54	92	95	119	129	129	132	95	97	50	427
	31-60 AVERAGE	42 25	72 35	213 58	526 93	895 109	1245 105	1371 125	1273 113	1176	731 101	421 83	131 49	8097 402
1	STD DEV 41-70 AVERAGE	25 52	35 81	223	512	887	1258	1415	1289	142 1164	711	429	137	8157
- July	STD DEV	26	36	53	95	96	97	116	101	142	97	94	48	336
2/11/2	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
1	61-90 AVERAGE	45	84	221	538	871	1259	1430	1291	1126	710	404	146	8124
155	STD DEV 71-00 AVERAGE	22 46	33 80	50 226	101 549	73 876	126 1230	129 1413	129 1244	121 1102	90 713	105 392	51 136	381 8007
2003	STD DEV	27	35	52	93	86	142	133	142	122	98	104	53	490
MI-04	31-00 AVERAGE	45	87	240	560	909	1282	1447	1295	1160	731	406	133	8293
Northeast Lower	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
1	STD DEV 41-70 AVERAGE	22 50	38 88	57 239	92 528	109 906	111 1294	129 1453	126 1304	143 1177	107 722	81 426	49 135	404 8322
Churchy .	STD DEV	24	37	55	89	93	104	122	103	140	98	92	48	314
2/10/03	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
4	61-90 AVERAGE	41	90	238	568	893	1295	1478	1308	1137	711	394	137	8290
15 5 %	STD DEV 71-00 AVERAGE	22 43	34 85	52 243	103 580	77 899	136 1269	136 1461	127 1270	119 1118	88 712	99 382	47 129	373 8190
2004	STD DEV	25	36	55	94	88	151	144	142	122	95	362 99	51	487
MI-05	31-00 AVERAGE	26	57	183	494	837	1184	1333	1182	1044	645	344	99	7427
West Central Lower	STD DEV	17	27	52	91	95	117	129	128	133	93	91	43	419
	31-60 AVERAGE	23 15	50 24	176 53	483 92	851 105	1188	1309 126	1200 116	1084	662 101	354 75	95 43	7473 394
2	STD DEV 41-70 AVERAGE	28	55	177	92 465	833	1191	1343	1197	1058	631	350	94	7421
and the same	STD DEV	16	26	49	92	92	104	116	88	141	93	86	40	309
47 305	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 STD DEV	26 14	62 26	186 49	503 100	819 76	1194	1361 133	1194 128	1022	628 84	337 99	106 44	7436 381
12.13	71-00 AVERAGE	28	61	193	517	832	1177	1339	1150	1006	634	334	104	7374
2005	STD DEV	19	30	52	91	92	136	133	143	119	91	102	44	492
MI-06	31-00 AVERAGE	18	49	178	493	849	1212	1361	1194	1036	618	306	77	7390
Central Lower	STD DEV	13	25	52	93	94	124	140	126	134	94	87	35	410
	31-60 AVERAGE STD DEV	15 11	41 21	165 52	470 88	850 104	1203 116	1317 131	1196 118	1064 148	622 103	309 75	72 35	7324 378
2	41-70 AVERAGE	19	48	173	463	845	1219	1368	1205	1050	602	319	77	7388
The same of the sa	STD DEV	12	25	49	92	89	113	121	94	144	100	86	34	324
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	51-80 AVERAGE	20	51	181	493	849	1227	1403	1224	1053	611	307	80	7500
	STD DEV 61-90 AVERAGE	11 18	23 54	51 185	103 516	90 842	117 1233	120 1406	114 1218	124 1027	85 612	86 306	35 85	336 7502
	STD DEV	11	24	47	102	75	130	1400	121	122	88	92	35	359
12.15	71-00 AVERAGE	19	53	190	522	852	1213	1383	1179	1010	615	298	81	7415
2006	STD DEV	14	27	53	95	94	142	145	140	127	91	93	36	478
MI-07	31-00 AVERAGE	18	44	164	473	817	1189	1345	1187	1030	630	323	79	7298
East Central Lower	STD DEV 31-60 AVERAGE	14 15	23 37	50 156	91 457	93 825	129 1192	144 1309	128 1195	133 1063	92 641	87 333	34 75	394 7298
	STD DEV	11	20	51	88	104	1192	138	120	149	101	79	34	386
L	41-70 AVERAGE	19	43	161	446	816	1208	1362	1205	1048	616	342	78	7343
Jan Jen	STD DEV	12	22	48	91	90	114	129	95	144	99	88	32	317
4 34 3	51-80 AVERAGE STD DEV	18 11	44 20	162 47	467 100	814 93	1201 115	1387 126	1213 115	1042	618 86	322 87	79 33	7368 331
Ta.	61-90 AVERAGE	17	47	165	486	93 804	1201	1383	1202	1012	617	315	83	7334
12-73	STD DEV	10	21	45	101	76	134	146	123	117	88	90	35	349
744	71-00 AVERAGE	19	48	176	498	815	1178	1356	1165	997	622	309	82	7265
2007	STD DEV 31-00 AVERAGE	16	24	50	92	90	149	148	140	121	86 560	86	37 62	444 6728
MI-08 Southwest Lower	STD DEV	11 8	32 18	124   43	419 88	778 95	1131 129	1270 142	1104 125	945 136	569 91	282 85	63 31	390
Southwest Lower	31-60 AVERAGE	9	26	112	402	791	1123	1228	1104	972	576	288	61	6693
1	STD DEV	7	14	42	86	103	121	135	116	155	98	77	34	393
Charley .	41-70 AVERAGE	12	32	119	398	782	1140	1276	1116	962	555	288	62	6743
I mile	STD DEV 51-80 AVERAGE	8 12	18 34	123	91 421	90 780	118	124	95 1130	144 959	93 560	86 280	32 65	323 6817
300	STD DEV	7	34 17	123 43	421 97	780 91	1141 113	1312 129	1130 119	124	84	280 82	31	319
	61-90 AVERAGE	12	36	129	436	761	1148	1315	1132	933	560	282	66	6809
	STD DEV	7	17	42	97	77	135	148	124	122	89	90	29	337
2000	71-00 AVERAGE	12	35	135	441	769	1129	1290	1087	913	561	275	65	6711
2008	STD DEV	9	20	46	89	95	146	147	141	118	92	89	31	431

#### Section 3:

# Divisional Normals, 1971-2000 (and previous periods) CLIMATOGRAPHY OF THE UNITED STATES NO. 85

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

# Michigan – Minnesota

**Heating Degree Days** 

J F M A M J J A S O N D															
Climate Division	E	lement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MI-09		O AVERAGE	13	35	145	452	808	1172	1311	1138	969	572	280	59	6954
South Central Lower	2.1	STD DEV	10	20	49	93	97	136	153	131	138	90	84	29	397
	31-6(	0 AVERAGE STD DEV	10 8	26 14	130 47	426 87	816 103	1162 127	1261 142	1131 120	992 159	573 96	279 75	55 31	6860 394
1	41-70	STD DEV 0 AVERAGE	14	14 34	141	425	103 809	1183	1317	1148	986	96 560	289	31 60	6965
- Junty	11-/(	STD DEV	8	18	44	92	93	125	1317	97	149	96	84	29	335
3 months	51-80	O AVERAGE	14	37	145	452	810	1184	1354	1168	986	567	282	62	7060
(1)		STD DEV	8	18	46	101	95	120	137	124	128	84	81	29	324
	61-90	O AVERAGE	13	39 19	151	474 103	795 83	1194	1363	1170	957	568	282	64 27	7071
	71-00	STD DEV 0 AVERAGE	7 14	19 40	44 161	103 483	83 803	141 1171	157 1335	130 1127	124 944	88 571	88 278	27 63	333 6991
2009	, 1 -00	STD DEV	11	23	49	483 95	99	154	157	149	122	91	278 87	28	430
MI-10	31-00	O AVERAGE	6	22	119	424	777	1143	1280	1114	951	566	266	51	6719
Southeast Lower		STD DEV	5	13	42	89	92	135	149	123	129	91	80	26	378
	31-60	O AVERAGE	5 5	18 11	113 43	406 82	792 97	1146 126	1241	1114	979	577 102	274 73	51 28	6717 382
1	41-70	STD DEV 0 AVERAGE	5 7	11 23	118	82 396	97 774	126 1155	142 1285	118 1120	148 965	102 552	278	28 51	382 6724
- Junty		STD DEV	6	14	42	88	84	124	134	91	135	96	82	26	307
Share 2	51-80	O AVERAGE	7	22	118	420	770	1145	1314	1133	962	555	268	53	6766
		STD DEV	5	13	44	98	90	119	134	117	116	86	76	26	314
(1112)	61-90	O AVERAGE	6	23	121	142	758 77	1154	1324	1137	937	558	263	54 25	6777
/	71-00	STD DEV 0 AVERAGE	5 6	13 23	42 125	102 448	77 769	140 1134	154 1298	120 1101	114 922	85 557	83 254	25 51	327 6690
2010	, 1-00	STD DEV	6	23 14	42	92	94	154	156	136	117	85	254 81	25	423
MN-01	31-00	O AVERAGE	47	73	296	656	1195	1706	1929	1577	1323	758	377	133	10070
Northwest		STD DEV	27	35	74	105	148	192	218	208	188	124	100	52	664
	31-60	0 AVERAGE STD DEV	42 22	70 28	292 72	647 116	1202	1692 177	1916 225	1622 201	1375 176	777 125	394	141 50	10170
	41-70	STD DEV 0 AVERAGE	49	28 74	307	630	156 1172	1777	1943	1620	176	125 772	98 419	50 145	603 10211
and when the same of the same	11-70	STD DEV	23	31	76	109	133	166	208	143	195	125	88	53	502
	51-80	O AVERAGE	51	80	306	644	1181	1717	1997	1606	1369	770	389	132	10242
) 4 /	61	STD DEV	27	39	75	113	130	182	179	160	185	122	100	50	485
7 3 34	61-9(	0 AVERAGE STD DEV	45 25	79 42	305 76	662 100	1184 130	1748 187	1951 222	1582 193	1306 191	743 122	370 105	129 54	10104 647
3	71-00	STD DEV 0 AVERAGE	50 50	42 77	298	100 675	130	187	1911	193	1259	725	105 342	54 123	9882
2101		STD DEV	32	42	68	83	154	220	223	219	177	126	99	50	741
MN-02	31-00	O AVERAGE	52	91	312	657	1166	1679	1886	1536	1303	772	398	141	9992
North Central	24	STD DEV	30	39	70	105	136	183	204	190	175	119	99	53	625
	31-60	0 AVERAGE STD DEV	47 23	85 35	303 67	645 115	1171 146	1663 166	1860 203	1570 178	1360 170	787 126	412 90	143 53	10044 595
1	41-70	STD DEV 0 AVERAGE	55 55	35 91	319	628	146 1148	1682	1895	1572	1340	126 775	90 436	53 151	10092
" when	- /	STD DEV	26	37	70	107	125	154	190	134	185	123	89	55	483
<b></b>	51-80	0 AVERAGE	57	98	326	649	1153	1695	1954	1561	1340	778	410	143	10162
177	61	STD DEV	29	42	71	115	120	173	169	150	171	110	106	52	441
La Sal	ρ1−9(	0 AVERAGE STD DEV	50 28	97 44	320 71	661 103	1154 113	1721 184	1917 206	1544 183	1278 173	755 113	393 111	140 54	10030 610
	71-00	O AVERAGE	28 56	93	318	679	113 $1174$	1687	1883	1480	1244	748	366	134	9862
2102		STD DEV	35	43	67	86	139	211	213	205	158	120	104	51	695
MN-03	31-00	0 AVERAGE	84	120	336	674	1141	1615	1800	1485	1284	811	466	200	10015
Northeast	21 6-	STD DEV	37	46	69	103	123	171	183	168	144	101	90 471	57 100	570
	31-6(	0 AVERAGE STD DEV	77 32	107 42	319 65	646 106	1139 132	1586 157	1747 169	1488 158	1309 147	806 109	471 78	199 57	9894 548
	41-70	O AVERAGE	85	118	338	635	1126	1608	1797	1508	1296	801	488	207	10005
		STD DEV	35	46	66	100	113	141	170	131	153	107	82	60	484
	51-80	O AVERAGE	82	127	348	662	1131	1630	1861	1509	1308	807	466	195	10127
}   \_ \	61 00	STD DEV 0 AVERAGE	35 80	48 131	69 351	112 685	108 1133	165	165 1852	145 1513	139	97 806	97 465	54 202	472
Lot Sol	01-9(	STD DEV	80 34	131 49	351 68	685 104	1133	1664 174	1852 185	1513 166	1274 148	806 94	465 100	202 57	10157 541
	71-00	O AVERAGE	90	128	350	709	1151	1636	1821	1454	1258	807	449	198	10052
2103		STD DEV	41	47	68	87	126	197	193	178	137	104	101	56	619
MN-04	31-00	O AVERAGE	24	42	216	554	1073	1545	1739	1406	1172	656	299	85	8812
West Central	21 - 60	STD DEV 0 AVERAGE	18 21	24 37	67 205	97 540	136 1074	185 1518	220 1715	195 1436	174 1208	114 668	88 311	40 90	612 8822
	21-0(	STD DEV	14	20	65	540 109	140	167	228	1436	168	115	93	90 43	609
	41-70	O AVERAGE	26	40	227	531	1051	1542	1744	1438	1214	667	327	94	8901
1 Throng		STD DEV	15	21	67	103	125	165	202	128	197	117	84	43	478
	51-80	O AVERAGE	25	43	224	548	1054	1551	1804	1435	1219	667	307	85	8962
1	61 00	STD DEV	17	25 46	67	110 566	118	171	175 1763	159 1417	187	117 643	83 296	39 83	464
F 3-1	01-9(	0 AVERAGE STD DEV	23 15	46 27	229 67	566 94	1059 116	1589 187	1763 227	1417 188	1158 183	643 119	296 87	83 38	8870 589
	71-00	O AVERAGE	27	46	219	576	1086	1561	1737	1361	1127	633	276	79	8729
2104		STD DEV	22	27	60	76	144	214	224	210	152	119	82	35	667
			<u> </u>												

#### Section 3:

### Divisional Normals, 1971-2000 (and previous periods)

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

# Minnesota – Mississippi

**Heating Degree Days** 

Climate Division		lement	JUL	AUG	SEP	OCT	NOV	DEC	IANI	EED	MAD	ΔDD	MAV	JUN	ΔΝΙΝΙΙΛΙ
MN-05	_	lement  O AVERAGE	JUL 21	41	212	549	1058	1532	JAN 1722	FEB 1398	MAR 1165	APR 650	MAY 297	79	ANNUAL 8725
Central	31-00	STD DEV	16	22	63	97	129	175	202	185	172	115	87	38	594
Contrai	31-60	O AVERAGE	19	38	206	545	1070	1518	1709	1438	1216	671	312	86	8829
n		STD DEV	13	21	65	110	134	161	205	177	159	116	89	43	584
- margaret	41-70	) AVERAGE	23	40	223	524	1047	1530	1731	1435	1211	659	321	87	8832
	51-80	STD DEV D AVERAGE	14 22	21 43	63 219	101 537	125 1038	154 1531	182 1783	126 1421	189 1209	118 655	84 300	41 79	455 8836
	31 00	STD DEV	15	22	62	110	115	158	165	149	180	114	82	36	431
₹ <b>.B.</b> ₹	61-90	O 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
2105	71-00	O AVERAGE STD DEV	22 20	44 24	212 57	565 82	1059 136	1540 200	1714 209	1342 195	1106 153	622 117	274 84	73 32	8573 639
MN-06	31-00	O AVERAGE	31	59	248	582	1073	1553	1740	1420	1192	687	337	103	9025
East Central	52 00	STD DEV	20	28	66	100	125	170	186	178	162	108	90	44	582
Last Sontain	31-60	O 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
I my many	41-70	O AVERAGE STD DEV	34 19	58 27	261 63	557 102	1066 121	1550 143	1749 164	1455 121	1229 171	693 110	365 85	113 47	9129 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
<b>7 7 7</b>	61-90	O AVERAGE	30	64	257	591	1054	1590	1770	1425	1165	672	334	103	9053
13-17	71 00	STD DEV	19	30	63	103	100	173	195	168	163	107	90	40	519
2106	/1-00	O AVERAGE STD DEV	32 22	60 31	247 64	600 89	1072 129	1562 195	1738 197	1364 189	1135 145	663 109	311 90	97 38	8882 651
MN-07	31-00	O AVERAGE	23	39	194	510	1002	1441	1613	1304	1084	603	276	68	8156
Southwest		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
	41.70	STD DEV  O AVERAGE	14 25	19 37	69 209	107 487	133 986	153 1435	212 1621	186 1326	168	114 608	90 296	41 78	603 8241
( Farmy	41-/(	STD DEV	25 13	20	64	102	120	151	185	1326	1134 202	119	296 80	78 40	449
	51-80	O AVERAGE	24	40	207	509	984	1447	1680	1337	1135	608	283	69	8323
) 14 2		STD DEV	14	21	61	110	113	152	171	158	191	111	74	34	427
75 34	61-90	) AVERAGE	22	44	208	531	988	1490	1642	1326	1072	591	274	65	8251
	71-00	STD DEV D AVERAGE	13 26	23 45	58 201	97 542	113 1021	176 1468	223 1618	174 1271	182 1041	113 594	78 267	31 64	520 8156
2107	, 1 00	STD DEV	21	26	56	80	147	199	219	203	137	114	80	29	603
MN-08	31-00	O AVERAGE	18	37	175	493	978	1428	1606	1301	1075	584	262	63	8020
South Central		STD DEV	15	21	58	100	130	174	203	180	166	108	82	33	566
	31-60	O AVERAGE STD DEV	14 11	29 17	158 60	466 106	975 130	1392 152	1567 194	1315 179	1103 162	583 110	264 84	64 37	7929 583
	41-70	O AVERAGE	19	35	183	461	961	1417	1606	1322	1117	583	274	67	8044
( E my		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
) 4	61 00	STD DEV	12	19	53	111	112	153	177	161	176	111	76	31	446
12 32	61-90	O AVERAGE STD DEV	18 11	43 22	186 51	513 100	962 108	1476 179	1642 221	1322 173	1064 180	577 112	259 80	61 31	8122 523
	71-00	O AVERAGE	22	43	183	530	994	1458	1620	1269	1033	578	256	60	8047
2108		STD DEV	19	24	51	83	142	199	213	195	147	113	82	28	601
MN-09	31-00	) AVERAGE	21	39	185	506	976	1432	1610	1312	1088	601	282	71	8125
Southeast	31.60	STD DEV D AVERAGE	16 18	21 32	58 171	98 488	120 978	168 1410	195 1572	172 1332	160 1126	107 605	84 281	35 71	558 8083
	21-00	STD DEV	13	18	57	109	125	150	182	166	159	108	85	40	563
The state of the s	41-70	O AVERAGE	24	40	199	486	975	1433	1617	1343	1133	605	298	78	8230
1 has		STD DEV	14	20	52	106	114	149	168	130	172	113	81	38	444
<del></del>	51-80	O AVERAGE	25 16	44	203	512	976 109	1443	1684	1348	1140	614	291	76	8356
175	61-90	STD DEV  O AVERAGE	16 22	19 46	53 200	111 524	108 966	153 1475	175 1654	155 1334	161 1076	106 597	81 286	34 73	406 8252
-5_54	01 00	STD DEV	15	21	52	96	99	175	214	164	167	113	86	33	511
	71-00	O AVERAGE	23	42	188	529	982	1447	1620	1274	1039	587	273	68	8070
2109	21 21	STD DEV	18	22	55	83	131	193	207	184	143	111	83	29	597
MS-01	31-00	O AVERAGE STD DEV	0 0	0 1	12	136 53	381 83	637 125	716 146	532 118	379 106	124 47	24 17	0 1	2942 319
Upper Delta	31-60	O 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	O AVERAGE	0	0	12	135	382	636	696	528	400	110	20	0	2918
	F1 01	STD DEV	0	0	7	57	73	112	127	120	122	43	13	1	315
	51-8(	O AVERAGE STD DEV	0 0	0 0	13 10	151 59	394 82	645 108	743 143	558 132	398 118	121 41	25 19	0 1	3048 312
17-1	61-90	O 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
\l	71-00	O AVERAGE	0	0	14	146	379	658	761	547	374	140	29	1	3048
2201		STD DEV	0	1	10	50	93	134	141	115	80	52	19	1	279

# United States Climate Normals 1971-2000 1971-2000

Section 3:

**Heating Degree Days** 

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

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

Mississippi Page 34

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MS-02	31-00 AVERAGE	0	0	18	165	416	671	748	570	417	155	41	2	3204
North Central	STD DEV	0	1	12	58	87	129	148	119	110	53	24	2	312
	31-60 AVERAGE	0	0	13	140	419	643	687	545	416	142	35	1	3041
1	STD DEV 41-70 AVERAGE	0	0 0	8 17	54 159	80 419	122 671	145 732	124 572	128 439	43 137	21 35	1 1	296 3183
300	STD DEV	0	1	10	60	74	119	127	127	124	51	20	2	302
	51-80 AVERAGE	0	0	19	180	431	675	775	594	435	148	42	2	3302
\$~~	STD DEV	0	1	14	61	86	110	144	134	119	49	27	2	311
1 7	61-90 AVERAGE	0	1	22	187	407	694	814	610	420	161	47	2	3365
	STD DEV	0	1	14	61	91	135	145	117	101	58	26	2	265
\	71-00 AVERAGE	0	1	22	182	414	690	786	579	404	175	49	2	3303
2202 MS-03	STD DEV 31-00 AVERAGE	0	1	13 19	57 170	98 427	135 678	146 753	110 580	85 424	57 158	27 40	2	286 3252
Northeast	STD DEV	0	1	12	61	87	127	149	118	110	54	24	2	306
Northeast	31-60 AVERAGE	0	0	14	145	431	655	699	566	432	148	34	1	3124
	STD DEV	0	0	9	56	80	123	151	124	127	46	21	2	299
A. I	41-70 AVERAGE	0	0	18	162	432	682	742	587	451	141	34	2	3251
	STD DEV	0	1	11	60	79	113	126	127	123	54	20	2	291
1.5 <u>L</u>	51-80 AVERAGE	0 0	0 1	20 14	186	445	686	787 139	606	445	151	42	3	3371
7	STD DEV 61-90 AVERAGE	0	1	23	63 194	89 417	104 698	817	134 613	120 420	51 160	26 45	3	293 3391
	STD DEV	0	1	14	62	93	132	144	118	101	58	25	2	279
	71-00 AVERAGE	0	1	22	191	425	694	786	581	407	175	48	3	3332
2203	STD DEV	0	1	13	60	98	133	149	109	87	57	26	3	292
MS-04	31-00 AVERAGE	0	0	8	110	337	572	646	474	328	97	15	0	2585
Lower Delta	STD DEV	0	0	6	46	81	122	142	112	98	40	11	0	282
	31-60 AVERAGE STD DEV	0 0	0	7 5	101 48	347 77	548 118	587 143	447 115	326 114	93 33	14 12	0	2470 300
n	41-70 AVERAGE	0	0	8	113	344	575	637	481	353	87	13	0	2612
	STD DEV	0	0	6	50	74	113	130	121	112	39	11	0	287
	51-80 AVERAGE	0	0	9	123	351	582	677	502	348	94	15	0	2700
55	STD DEV	0	0	7	53	84	105	138	126	110	37	14	0	274
151	61-90 AVERAGE	0	0	9	122	319	592	708	512	332	97	16	0	2707
	STD DEV 71-00 AVERAGE	0	0	7 8	47 113	83 329	128 587	136 679	111 479	91 316	43 106	12 16	0	238 2633
2204	STD DEV	0	0	6	44	88	128	134	101	71	44	12	0	250
MS-05	31-00 AVERAGE	0	0	9	130	357	574	641	481	344	121	22	0	2680
Central	STD DEV	0	0	7	50	83	120	148	113	99	45	15	1	290
Contrai	31-60 AVERAGE	0	0	7	114	361	550	584	454	345	113	19	0	2548
p (	STD DEV	0	0	5	49	78	114	152	124	116	35	15	0	292
A F-1	41-70 AVERAGE	0	0	9	126	358	573	628	481	362	103	18	0	2658
\$ <b>3</b>	STD DEV 51-80 AVERAGE	0 0	0 0	7 10	52 143	76 369	108 579	132 666	132 502	111 356	42 113	13 22	1	292 2760
<b>3</b>	STD DEV	0	0	8	56	83	104	143	129	105	42	18	1	298
7 7	61-90 AVERAGE	0	0	11	146	343	593	703	518	345	122	24	0	2806
	STD DEV	0	0	8	54	89	125	139	108	91	48	16	1	261
Vend	71-00 AVERAGE	0	0	11	142	354	589	675	489	334	138	26	0	2757
2205	STD DEV	0	0	7	50	93	128	141	93	77	46	16	1	269
MS-06	31-00 AVERAGE STD DEV	0 0	0 0	12 9	138 53	366 84	591 122	661 150	493 114	349 100	121 45	25 17	1 1	2756 301
East Central	31-60 AVERAGE	0	0	9	119	370	569	597	465	347	112	21	0	2610
	STD DEV	0	0	7	53	78	119	153	121	115	37	15	1	296
	41-70 AVERAGE	0	0	12	138	375	600	650	496	371	107	22	1	2771
	STD DEV	0	0	9	56	77	112	138	126	111	44	15	1	307
¥ 5 d	51-80 AVERAGE	0	0	13	157	386	608	699	523	371	117	27	1	2903
* T-	STD DEV 61-90 AVERAGE	0	0 0	11 15	56 150	84	108	141	129	108	124	20	1 1	280
	STD DEV	0 0	0	10	158 53	355 90	614 127	730 137	535 110	355 92	124 47	29 18	1	2916 258
Comment	71-00 AVERAGE	0	0	13	150	359	600	694	501	338	137	30	1	2824
2206	STD DEV	0	0	9	52	93	126	140	100	80	47	19	1	267
MS-07	31-00 AVERAGE	0	0	4	90	295	493	564	413	280	90	10	0	2239
Southwest	STD DEV	0	0	3	39	78	110	138	105	86	37	8	0	257
	31-60 AVERAGE	0	0	3	79	305	475	519	389	285	87	10	0	2154
<i>n</i>	STD DEV 41-70 AVERAGE	0 0	0 0	3 4	38 88	69 300	101 495	145 560	111 420	100 301	30 78	8 8	0	267 2255
A F	STD DEV	0	0	4	40	66	98	127	122	95	36	7	0	262
\$ 7 7 T	51-80 AVERAGE	0	0	4	100	307	498	584	437	289	83	10	0	2313
	STD DEV	0	0	4	45	80	97	137	121	90	35	9	0	267
	61-90 AVERAGE	0	0	5	101	281	510	616	449	279	87	11	0	2339
	STD DEV	0	0	4	43	86	120	132	103	77	37	8	0	239
0007	71-00 AVERAGE	0	0	5	98	287	504	585	414	265	100	12	0	2270
2207	STD DEV	0	0	3	39	88	121	131	88	66	39	9	0	238

Section 3:

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

Mississippi – Missouri

**Heating Degree Days** 

MS-08   STIO DIVE   O	0 0 215 8 0 28 8 0 200				ובט	O/TIN					AL 11.	. 11 41		
SOUTH Central  31-60 AVERAGE  0 0 3 86 287 444 481 359 261 73 88 0 0  5TD DEV 0 0 0 3 462 70 98 142 111 95 288 7 0 0  41-70 AVERAGE  0 0 4 99 293 477 555 398 244 69 8 0 0  51-80 AVERAGE  0 0 4 112 303 491 571 426 281 77 11 0 0  51-80 AVERAGE  0 0 4 112 324 518 599 403 227 280 10 0 0  51-80 AVERAGE  0 0 4 108 293 477 60 240 272 80 12 0 0  51-80 AVERAGE  0 0 4 108 293 477 10 100 278 36 8 0 0  51-80 AVERAGE  0 0 4 108 293 477 10 100 278 36 8 0 0  51-80 AVERAGE  0 0 4 108 293 477 10 100 278 38 8 0 10 0  51-80 AVERAGE  0 0 4 108 293 477 10 10 10 10 10 10 10 10 10 10 10 10 10	8 0 28 8 0 200		80	266 l	394						AUG 0	JUL 0		
STID DEV 0 0 3 46 287 444 481 359 261 73 8 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 0 200	8								3				
41-70 AVERAGE   0 0 4 99 293 477 535 398 284 69 8 0 0 5 5TD DEV   0 0 4 4 108 69 7 131 129 92 34 6 0 0 5 51-80 AVERAGE   0 0 4 112 308 491 571 426 281 77 11 0 2 5 5TD DEV   0 0 4 133 281 497 602 440 272 80 12 0 2 5 5TD DEV   0 0 4 133 281 497 602 440 272 80 12 0 2 5 5TD DEV   0 0 3 4 6 88 120 131 102 78 36 8 0 9 0 5 5TD DEV   0 0 3 4 6 88 120 131 102 78 36 8 0 9 0 5 5TD DEV   0 0 3 4 6 88 120 131 102 78 36 8 0 9 0 5 5TD DEV   0 0 3 4 28 8 119 131 84 66 36 9 0 0 5 5TD DEV   0 0 3 4 2 88 119 131 84 66 36 9 0 0 5 5TD DEV   0 0 4 108 287 489 569 405 257 93 12 0 1 5 5 5 5 108 306 499 563 412 285 93 13 0 1 5 5 5 5 108 306 499 563 412 285 93 13 0 1 5 5 5 5 108 306 499 563 412 285 893 13 0 1 5 5 5 108 306 499 563 412 285 86 10 0 1 5 5 5 108 306 499 563 412 285 86 10 0 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	_													31-60
STD DEV   0   0   4   44   68   97   131   129   92   34   6   0   0   51-80 AVERAGE   0   0   4   112   308   491   571   426   281   77   11   0   0   120   61-90 AVERAGE   0   0   4   113   281   497   602   440   272   80   12   0   120   88   71   70   AVERAGE   0   0   4   113   281   497   602   440   272   80   12   0   120   88   71   70   AVERAGE   0   0   3   46   88   120   131   102   78   36   8   0   71-00   AVERAGE   0   0   3   46   88   120   131   102   78   36   8   0   71-00   AVERAGE   0   0   3   42   88   19   131   84   66   36   9   0   61-90   AVERAGE   0   0   4   45   78   113   140   108   87   38   9   0   61-90   AVERAGE   0   0   4   45   78   113   140   108   87   38   9   0   61-90   AVERAGE   0   0   5   46   76   99   138   123   90   36   12   0   61-90   AVERAGE   0   0   5   46   76   99   138   123   90   36   12   0   61-90   AVERAGE   0   0   5   46   83   120   132   120   80   38   10   0   71-90   AVERAGE   0   0   5   46   83   120   132   120   80   38   10   0   71-90   AVERAGE   0   0   5   46   83   120   132   120   80   38   10   0   71-90   AVERAGE   0   0   5   49   82   122   132   102   80   38   10   0   71-90   AVERAGE   0   0   5   46   83   120   13   75   75   75   75   75   75   75   7	, , ,	•												
STD DEV   0 0 4 4 112 308 491 571 426 281 77 11 0 0 STD DEV   0 0 4 4 5 80 97 139 1426 281 77 11 0 0 STD DEV   0 0 4 4 5 80 97 139 142 88 133 9 0 6 190 NERAGE   0 0 4 4 113 281 497 602 440 272 80 12 0 2 STD DEV   0 0 0 3 4 6 88 120 131 102 78 36 8 0 2 STD DEV   0 0 0 3 4 6 88 120 131 102 78 36 8 0 2 STD DEV   0 0 0 3 4 28 8 119 131 84 66 36 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														41-70
STD DEV  61-90 AVERAGE  61-90 AVERAGE  61-90 AVERAGE  71-00 AVERAG														51-80
STD DEV 0 0 0 3 46 88 120 131 102 78 356 8 0 0 1808 287 71-00 AVERAGE 0 0 0 4 108 287 489 569 405 257 93 12 0 2 208 STD DEV 0 0 0 3 42 88 119 131 84 66 36 9 0 0 2 4 12 88 119 131 84 66 36 9 0 0 18-09 561 80 12 8 12 8 12 8 12 8 12 8 12 8 12 8	9 0 28	9	33	88	123	139	97	80	45	4	0	0	STD DEV	<b>1</b> -3-2-1
## A STD DEV   0 0 3 4 108 287 489   569 405 287 93 12 0 0   ## A STD DEV   0 0 3 4 2 88 119 131 84 66 36 9 0   ## A STD DEV   0 0 3 4 42 88 119 131 84 66 36 9 9 0   ## A STD DEV   0 0 0 4 4 45 78 113 140 108 87 38 9 0 0   ## A STD DEV   0 0 0 4 4 55 78 113 140 108 87 38 9 0 0   ## A STD DEV   0 0 0 4 4 55 78 113 140 108 87 38 9 0 0   ## A STD DEV   0 0 0 4 4 55 78 113 140 108 87 38 9 0 0   ## A STD DEV   0 0 0 5 106 316 508 560 415 303 80 10 0 0   ## A STD DEV   0 0 0 5 45 73 101 131 128 94 38 8 0 0   ## A STD DEV   0 0 0 5 46 76 99 138 129 90 36 12 0 0   ## A STD DEV   0 0 0 5 46 76 99 138 129 90 36 12 0 0   ## A STD DEV   0 0 0 5 49 82 122 132 102 80 88 10 0 0   ## A STD DEV   0 0 0 5 230 381 423 90 36 12 0 0   ## A STD DEV   0 0 0 5 230 381 423 12 201 274 106 16 0 2   ## A STD DEV   0 0 0 1 58 225 397 467 336 219 59 3 0 0   ## A STD DEV   0 0 0 1 58 225 397 467 336 219 59 3 0 0   ## A STD DEV   0 0 1 29 63 90 130 101 78 22 3 0 0   ## A STD DEV   0 0 1 30 69 99 126 95 70 27 3 0 0   ## A STD DEV   0 0 1 30 63 89 117 113 74 27 3 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 33 71 110 123 94 64 28 2 0 0   ## A STD DEV   0 0 1 30 63 89 117 135 153 136 85 11 4   ## A STD DEV   5 8 38 81 10 60 128 177 160 160 86 57 17   ## A STD DEV   5 9 34 99 17 19 17 17 17 17 18 18 118 9 56 13 13   ## A STD DEV   5 9 34 93 17 1 195														61-90
MS-09														71-00
Southeast    STD DEV   0	-													2208
STO DEV   O   O   A   A   A   A   A   A   A   A	3 0 228			285	412	563	499	306		5		0		<b>MS-09</b> 31-00
## AT DEV   0 0 3 3 42 74 105 141 114 98 31 9 0 0   ## AT TO AVERAGE   0 0 0 5 106 316 508 508 415 303 80 10 0 0 2   ## STD DEV   0 0 0 5 45 73 101 131 128 94 38 8 0 0 0   ## STD DEV   0 0 5 121 324 518 599 443 301 88 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														Southeast
## 41-70 AVERAGE   0 0 5 5	-													31-60
STD DEV										5				41-70
STD DEV														
61-90 AVERAGE STD DEV O O O S 49 82 122 132 102 80 33 15 0 0 0 0 0 0 5 119 297 507 591 421 274 106 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-									- 1				51-80
TID DEV 71-00 AVERAGE 0 0 0 5 49 82 122 132 102 80 38 10 0 0   STD DEV STD DEV 0 0 4 46 83 120 135 85 71 38 11 0    MS-10 31-00 AVERAGE 0 0 0 1 58 225 397 467 336 219 59 3 0 3    STD DEV 0 0 0 1 58 225 397 467 336 219 59 3 0 3    Coastal 31-60 AVERAGE 0 0 0 1 56 232 397 467 336 219 59 3 0 3    STD DEV 0 0 1 29 63 90 130 101 78 22 3 0    STD DEV 0 0 1 56 232 399 467 339 236 51 3 0    STD DEV 0 0 1 30 63 89 117 113 74 27 3 0    STD DEV 0 0 1 30 69 99 126 95 70 27 3 0    STD DEV 0 0 1 30 63 89 117 113 74 27 3 0    STD DEV 0 0 1 30 63 89 117 113 74 27 3 0    STD DEV 0 0 1 30 69 89 126 117 103 74 27 3 0    STD DEV 0 0 1 30 69 89 126 117 103 74 27 3 0    STD DEV 0 0 1 33 69 89 126 117 103 74 27 3 0    STD DEV 0 0 1 33 69 89 126 117 103 74 27 3 0    STD DEV 0 0 1 33 69 89 126 117 103 74 27 3 0    STD DEV 0 0 1 33 69 89 126 117 103 74 27 3 0    STD DEV 0 0 1 33 69 89 126 117 103 74 27 3 0    STD DEV 0 0 1 33 69 89 126 111 70 25 3 0    STD DEV 0 0 1 33 71 110 123 94 64 28 2 0    T1-00 AVERAGE 0 0 1 64 212 409 515 367 218 55 3 0    STD DEV 0 0 1 33 71 110 123 94 64 28 2 0    T1-00 AVERAGE 0 0 1 64 217 408 487 342 206 66 4 0    STD DEV 0 0 1 32 77 107 123 76 58 30 3    MO-01 Northwest Prairie 31-60 AVERAGE 4 11 78 307 709 1082 1222 959 755 376 147 22    STD DEV 5 8 38 81 106 128 177 160 160 86 57 17    AUTHORITHM STD DEV 5 8 38 81 106 128 177 160 160 86 57 17    STD DEV 5 9 34 79 95 141 123 119 162 90 59 15    STD DEV 5 9 34 79 95 141 123 119 162 90 59 15    STD DEV 5 9 34 8 371 105 125 99 97 77 361 146 22    STD DEV 5 9 34 8 31 70 0 154 175 148 144 82 55 13    MO-02 NORTHAGE 2 9 67 287 664 1026 1156 916 724 350 140 18    STD DEV 3 7 33 7 33 75 107 154 175 148 144 82 55 12    MO-02 NORTHAGE 2 7 58 267 677 100 119 172 192 183 118 89 56 13    MO-02 NORTHAGE 2 7 58 267 677 100 119 172 192 183 118 89 56 13    MO-02 NORTHAGE 3 9 67 287 664 1026 1157 916 753 355 151    MO-02 NORTHAGE 3 9 67 277 664 1026 1157 912 761 345 138 18    STD DEV 3 8 31 76 67 664 1026 1147 920 761 345 138 18    STD DEV 3 8 31 76 67 67 100 119 172 192 18														61-90
MS-10   STD DEV   0	0 0 25						122	82	49	5	0	0		
Coastal  31-00 AVERAGE STD DEV OO 0 1 30 69 99 126 95 70 27 3 0 31-60 AVERAGE OO 0 1 29 63 90 130 101 78 22 3 0 41-70 AVERAGE OO 0 1 56 230 381 423 312 221 57 3 0 3 0 31 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 22 3 0 0 101 78 20 2 3 0 0 101 78 22 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3 0 0 101 78 20 2 3	6 0 233													
Coastal    STD DEV   0														2209 MC 10 31-00
STD DEV   O														
## A1-70 AVERAGE STD DEV 0 0 1 56 232 399 467 339 236 51 3 0 1	3 0 167	3	57	221	312	423	381	230	50	0	0	0	AVERAGE	31-60
STD DEV														
51-80 AVERAGE STD DEV 0 0 1 31 62 236 406 488 360 226 52 3 0 0 61-90 AVERAGE 0 0 0 1 31 69 89 126 111 70 25 3 0 0 71-00 AVERAGE 0 0 0 1 33 71 110 123 94 64 28 2 0 71-00 AVERAGE 0 0 0 1 64 212 409 515 367 218 55 3 0 2 2210 STD DEV 0 0 1 33 71 110 123 94 64 28 2 0 71-00 AVERAGE 0 0 0 1 64 217 408 487 342 206 66 4 0 2 2 3 77 107 123 76 58 30 3 0 0 1 1 64 217 408 487 342 206 66 4 0 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														41-70
STD DEV	-													51-80
STD DEV 71-00 AVERAGE 0 0 0 1 64 217 408 487 342 206 66 4 0 0 2 2 2 1 0	3 0 23	3	25	70	111	126	89	69	31	1	0	0	STD DEV	12 T
71-00 AVERAGE STD DEV 0 0 1 64 217 408 487 342 206 66 4 0 2 3 487 MO-01 31-00 AVERAGE STD DEV 4 9 38 80 108 153 180 159 145 85 58 14 16 17 0 AVERAGE STD DEV 5 8 38 81 106 128 177 160 160 86 57 17 17 41-70 AVERAGE 5 11 78 287 697 1079 1217 956 793 369 144 23 9 57 127 160 160 86 57 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-													61-90
MO-01 Northwest Prairie    STD DEV   0	-													71 - 00
Northwest Prairie    STD DEV   4   9   38   80   108   153   180   159   145   85   58   14	3 0 21	3	30	58	76	123	107	77	32	1	0		STD DEV	2210
31-60 AVERAGE STD DEV 5 8 38 81 106 128 177 160 160 86 57 17 41-70 AVERAGE STD DEV 5 9 34 79 95 141 123 119 162 90 59 15 51-80 AVERAGE ATD DEV 4 7 35 87 97 127 160 155 151 79 52 13 161-90 AVERAGE ATD DEV 3 9 33 84 93 171 195 153 136 87 58 13 161-90 AVERAGE ATD DEV 4 13 86 336 715 1102 1238 953 719 374 153 22 1301 STD DEV 4 10 40 70 119 172 192 183 118 89 56 13 161-90 AVERAGE ATD DEV 4 10 40 70 119 172 192 183 118 89 56 13 161-90 AVERAGE ATD DEV 4 10 40 70 119 172 192 183 118 89 56 13 161-90 AVERAGE ATD DEV 4 10 40 70 119 172 192 183 118 89 56 13 161-90 AVERAGE ATD DEV 3 7 33 75 107 154 175 148 144 82 55 12 12 156 AVERAGE ATD DEV 3 7 34 72 108 135 165 143 159 82 51 136 136 146 18 18 18 18 18 18 18 18 18 18 18 18 18	7 22 567	147		755		1222	1082	709		78		4	AVERAGE	MO-01 31-00
STD DEV														Northwest Prairie
41-70 AVERAGE 5 11 78 287 697 1079 1217 956 793 369 144 23 55 150 DEV 5 9 34 79 95 141 123 119 162 90 59 15 51-80 AVERAGE 4 11 76 308 703 1078 1271 978 782 364 139 21 55 150 DEV 4 7 35 87 97 127 160 155 151 79 52 13 61-90 AVERAGE 4 13 82 327 693 1119 1259 992 737 361 146 22 55 150 DEV 3 9 33 84 93 171 195 153 136 87 58 13 71-00 AVERAGE 4 13 86 336 715 1102 1238 953 719 374 153 22 55 150 DEV 4 10 40 70 119 172 192 183 118 89 56 13 136 MO-02 Northeast Prairie  MO-02 Northeast Prairie    Al-70 AVERAGE 2 9 67 287 664 1026 1156 916 724 350 140 18 55 12 12 12 12 12 12 12 12 12 12 12 12 12														31-60
51-80 AVERAGE	4 23 565	144	369	793	956	1217	1079	697	287	78	11	5	AVERAGE	41-70
STD DEV 4 7 35 87 97 127 160 155 151 79 52 13 61-90 AVERAGE 4 13 82 327 693 1119 1259 992 737 361 146 22 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5										-				
61-90 AVERAGE   4   13   82   327   693   1119   1259   992   737   361   146   22   570   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140   140														51-80
STD DEV 3 9 33 84 93 171 195 153 136 87 58 13 71-00 AVERAGE 4 13 86 336 715 1102 1238 953 719 374 153 22 9 8 8 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9														61-90
Northeast Prairie    STD DEV   4   10   40   70   119   172   192   183   118   89   56   13	8 13 36	58	87	136	153	195	171	93	84	33	9	3	STD DEV	and and
MO-02 Northeast Prairie  31-00 AVERAGE 2 9 67 287 664 1026 1156 916 724 350 140 18 9 STD DEV 3 7 33 75 107 154 175 148 144 82 55 12  31-60 AVERAGE 2 7 58 267 677 1003 1109 912 750 359 137 16 9 STD DEV 3 7 34 72 108 135 165 143 159 82 51 13 41-70 AVERAGE 3 9 67 274 664 1026 1147 920 761 345 138 18 9 STD DEV 3 8 31 76 95 144 125 110 159 87 55 12														
Northeast Prairie  STD DEV 3 7 33 75 107 154 175 148 144 82 55 12 31-60 AVERAGE 2 7 58 267 677 1003 1109 912 750 359 137 16 910 1109 1109 1109 1109 1109 1109 11														
31-60 AVERAGE 2 7 58 267 677 1003 1109 912 750 359 137 16 5 5 5 5 5 5 5 12 1001 1001 1001 1001 10	5 12 39							107		33	7	3		
41-70 AVERAGE 3 9 67 274 664 1026 1147 920 761 345 138 18 5 5 12 5 5 5 12 5 5 64 125 110 159 87 55 12	7 16 529	137	359	750	912	1109	1003	677	267	58	7	2	AVERAGE	31-60
STD DEV 3 8 31 76 95 144 125 110 159 87 55 12														41.70
														41-70
	7 19 545	137	340	751	943	1204	1023	665	294	65	9	2	AVERAGE	51-80
STD DEV 3 6 32 84 97 125 162 148 148 79 53 12														
61-90 AVERAGE   2 11 70   306 645 1057   1204 955 709   338 143 19   5														61-90
71-00 AVERAGE   2 10 73   307 658 1040   1185 909 689   344 144 19   9														
2302 STD DEV 3 8 34 74 116 171 186 172 118 85 54 12	4 12 42	54	85	118	172	186	171	116	74	34		3	STD DEV	2302
West Cellifat Lights														West Central Plains
STD DEV 4 6 30 71 102 123 160 137 156 78 46 11	6 11 39	46	78	156	137	160	123	102	71	30	6	4	STD DEV	
														41-70
STD DEV 4 7 28 72 90 133 112 107 153 84 49 10 51-80 AVERAGE 3 7 58 264 626 955 1123 866 688 301 115 16 9							1							F1 00
STD DEV 3 6 33 77 97 115 159 144 143 75 49 10														51-80
61-90 AVERAGE 3 8 64 277 603 992 1126 882 650 300 122 17 !	2 17 504	122	300	650	882	1126	992	603	277	64	8	3	AVERAGE	61-90
STD DEV 3 6 32 77 92 164 181 143 124 81 52 11													STD DEV	
														2303 71-00
אמע עזט 105 און און 117 בייני א אמע עזט 105 און און 117 בייני א אמע עזט און און 117 בייני א		50	19	T02	T02	± / /	104		<u> </u>	33	/	3	רזי חדּ∧	2000

Section 3:

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

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

### Missouri - Montana

**Heating Degree Days** 

Climate Division	EI	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MO-04	31-00	AVERAGE	2	8	58	248	590	895	1000	777	616	289	108	15	4605
West Ozarks	0.4.50	STD DEV	2	7	31	71	100	140	155	131	131	74	44	10	348
	31-60	AVERAGE	1 3	6 6	48 28	223 68	594 97	862 118	952	765 126	634	291 75	103 38	12 10	4491 349
	41_70	STD DEV AVERAGE	2	7	28 55	233	584	887	143 979	775	147 652	275	100	13	4562
3 4	41-70	STD DEV	3	7	26	70	88	119	108	107	147	82	42	8	302
7	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
- J		STD DEV	2	6	31	75	90	153	170	133	123	76	48	11	306
	71-00	AVERAGE	2	9	67	272	591	920	1037	778	588	294	117	17	4693
2304 <b>MO-05</b>	21 00	STD DEV	2	7	33	66	108	159	166	151	99	73	47	11	353
	31-00	AVERAGE STD DEV	1 1	6 5	60 30	267 72	602 98	917 139	1016 159	796 131	626 132	289 75	109 45	12 9	4701 361
East Ozarks	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
5 3 >		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
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	61-90	AVERAGE	0 1	8 5	65 30	290 80	590 87	951 149	1078 169	844 128	620	289 79	115 49	14 9	4864 306
2.3	71-00	STD DEV AVERAGE	1	5 7	30 67	288	87 600	942	1062	800	126 606	79 302	49 117	9 14	4805
2305	, 1 -00	STD DEV	1	6	31	71	106	155	164	145	105	302 76	48	10	357
MO-06	31-00	AVERAGE	0	1	33	212	523	832	928	721	543	227	70	3	4091
Bootheel		STD DEV	0	2	19	65	94	132	156	128	123	66	33	3	337
20001001	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
7 7	41-70	AVERAGE	0	1	32	204	531	833	911	725	569	213	65	3	4088
3 3	E1 00	STD DEV	0	2 1	17	64	81	122	119	113 749	136	67	33 67	3	295
	21-80	AVERAGE STD DEV	0	2	32 21	221 69	530 87	832 109	963 151	138	563 134	217 63	34	3	4178 319
7	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
7	71-00	AVERAGE	0	1	36	228	511	845	967	719	524	235	74	3	4143
2306		STD DEV	0	2	20	67	102	141	164	141	103	70	36	3	357
MT-01	31-00	AVERAGE	97	125	347	669	1020	1259	1348	1075	977	680	441	239	8277
Western	21 60	STD DEV	40	44	81	70	111	132	202	139	117	81	80	62	513
	31-60	AVERAGE STD DEV	91 34	136 37	343 66	655 79	1027 118	1232 124	1382 235	1129 144	1018 122	685 81	440 94	254 63	8392 594
	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
hours .	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
hand	F1 00	STD DEV	35	50	96	67	106	144	177	114	109	87	59	63	385
2401	71-00	AVERAGE STD DEV	102 48	114 48	345 74	676 55	1020 119	1281 145	1313 172	1042 129	921 90	660 79	434 72	225 60	8132 465
MT-02	31-00	AVERAGE	112	139	389	701	1088	1372	1451	1184	1114	787	520	290	9148
Southwestern	31 00	STD DEV	46	47	86	88	130	136	182	146	132	97	86	70	469
OOULIWESIEIII	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
1 2 1	F1 0.5	STD DEV	34	44	95	105	111	109	184	136	129	92	85	65	388
/ Lund	51-80	AVERAGE	110	150	395	697	1085	1351	1471	1166	1161	819	534	292	9231
	61-90	STD DEV AVERAGE	34 111	51 145	95 408	86 709	107 1078	132 1397	171 1434	128 1153	126 1099	95 795	78 531	65 277	407 9138
1	01-90	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
2402		STD DEV	56	55	81	70	142	151	155	137	108	105	76	69	491
MT-03	31-00	AVERAGE	66	99	336	638	1075	1390	1551	1230	1115	707	400	194	8801
North Central		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
	41 - 70	STD DEV	27 65	26 103	74	102	179 1069	184	314	192	161	115	96 420	67 217	617
	41-70	AVERAGE STD DEV	65 26	103 34	346 94	630 117	1069 167	1397 212	1603 304	1248 171	1190 195	728 122	420 77	217 63	9016 577
	51-80	AVERAGE	68	106	338	633	1075	1402	1638	1235	1162	743	415	194	9009
3 - Lm	51 00	STD DEV	29	46	98	108	159	225	246	200	184	125	76	59	624
		AVERAGE	67	100	347	631	1080	1447	1550	1204	1084	706	404	175	8794
En The	61-90	AVERAGE													
	1	STD DEV	27	51	111	97	167	231	289	211	176	128	72	57	707
2403	1		27 76 45	51 97 53	111 333 91	97 647 68	167 1087 177	231 1396 238	289 1508 264	211 1180 232	176 1030 140	128 678 111	72 394 77	57 177 51	707 8605 753

#### **United States** Climate Normals 1971-2000 ] F M A M ] J A S O N D

Section 3:

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

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

#### Montana – Nebraska

**Heating Degree Days** 

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
MT-04	31-00 AVERAGE	84	100	336	627	1009	1273	1399	1123	1059	719	444	226	8398
Central	STD DEV	41	42	90	90	150	170	239	187	150	105	85	67	569
	31-60 AVERAGE	73	98 29	325	620	999	1231	1413	1183	1112	722	437	242	8455
	STD DEV 41-70 AVERAGE	36 85	105	70   351	96 625	152 1000	142 1267	269 1437	193 1126	140 1127	102 737	102 463	75 255	581 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
7 7	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
hand	STD DEV 71-00 AVERAGE	31	51 102	109	96	147	186	230	168	148	115	69	61	545
2404	STD DEV	95 47	53	337 85	638 69	1028 165	1297 195	1371 215	1086 183	989 120	701 106	443 76	211 58	8298 620
MT-05	31-00 AVERAGE	55	66	287	576	976	1252	1357	1090	999	664	394	181	7898
South Central	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
1	41-70 AVERAGE STD DEV	55 27	67 28	299 95	565 108	964 126	1247 136	1385 221	1091 134	1063 144	675 108	407 81	205 58	8023 398
& Phone	51-80 AVERAGE	56	75	297	574	987	1253	1416	1080	1040	696	410	185	8068
7 3	STD DEV	28	34	96	95	119	158	194	145	137	100	71	57	448
	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
2405	71-00 AVERAGE	64 40	70 40	291 75	600 65	999 157	1274 185	1335 200	1057 175	939	655	400 75	169 53	7855 584
2405 MT-06	STD DEV 31-00 AVERAGE	40	40 67	292	621	1121	1521	1711	1350	119 1156	101 677	349	157	9066
Northeastern	STD DEV	29	34	85	89	164	207	275	220	196	117	88	62	700
140111160316111	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
1 2 1	STD DEV 51-80 AVERAGE	23 47	28 75	89 303	106 615	163 1111	207 1522	274 1779	170 1370	220 1206	126 707	80 363	68 162	598 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
4	71-00 AVERAGE	49	66	292	629	1128	1532	1667	1274	1067	649	336	137	8826
2406	STD DEV	35	44	79	62	174	225	263	239	154	110	84	45	743
MT-07	31-00 AVERAGE STD DEV	38 27	48 28	264	580 90	1032 149	1369 188	1506 246	1196 203	1049 162	646 103	345 87	144 55	8218 600
Southeastern	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
	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 STD DEV	39 25	54 30	276 91	585 97	1039 134	1377 183	1574 213	1208 178	1087 163	672 105	355 72	144 50	8410 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
formed of	71-00 AVERAGE	44	52	270	604	1053	1395	1490	1151	985	631	345	135	8156
2407	STD DEV	33	36	74	60	167	217	236	219	135	95	80	47	672
NE-01	31-00 AVERAGE	12	23	188	506	909	1187	1269	1020	930	592	310	98	7045
Panhandle	STD DEV 31-60 AVERAGE	10 10	15 18	65 170	84 477	115 905	138 1155	172 1262	154 1050	128 966	97 590	82 309	44 96	399 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 61-90 AVERAGE	10 13	16 29	72 207	94 523	98 903	134 1230	160 1290	137 1022	133 920	91 587	67 317	44 98	341 7137
	STD DEV	8	29 16	70	52 <i>3</i> 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
2501	STD DEV	12	16	59	49	134	165	170	156	100	91	73	38	435
NE-02	31-00 AVERAGE	15	22	163	464	916	1245	1355	1096	956	557	264	75	7128
North Central	STD DEV	13	15 17	60	86	123	151	199	183	150	100	79 267	37	473
	31-60 AVERAGE STD DEV	13 13	17 11	146 57	445 94	910 109	1212 124	1348 204	1137 194	1000 146	565 111	267 88	76 43	7137 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
7	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 25	62	87 400	118	166	210	154	149	95 550	71 266	32 74	447
2502	71-00 AVERAGE STD DEV	18 14	25 17	169 51	488 54	939 147	1262 181	1349 206	1056 188	897 115	550 94	266 68	74 33	7093 537
2502	אַם ענט	1 1	Τ,	2+	24	T1/	TOT	200	100	110				I 33'

#### **United States** Climate Normals 1971-2000 J F M A M J J A S O N D

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

Nebraska Page 38

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NE-03	31-00 AVERAGE		23	133	421	885	1272	1418	1134	934	496	216	45	6990
Northeast	STD DEV 31-60 AVERAGE		15 18	53 117	86 401	114 875	159 1232	205 1404	186 1166	160 968	100 500	72 218	26 45	503 6953
	STD DEV		12	53	89	109	130	215	196	160	106	78	31	531
	41-70 AVERAGE		22	144	406	867	1270	1434	1148	991	498	221	51	7063
	STD DEV		14	55	94	99	140	156	143	186	107	69	29	384
	51-80 AVERAGE		24	141	424	875	1279	1484	1154	974	495	213	45	7118
	STD DEV 61-90 AVERAGE		15 27	55 146	101 440	94 877	141 1323	153 1442	171 1144	177 916	92 477	61 210	25 43	401 7056
	STD DEV		16	50	90	96	168	210	160	166	97	66	22	467
	71-00 AVERAGE		27	138	444	907	1295	1408	1100	885	493	217	45	6972
2503	STD DEV		17	44	69	131	186	211	198	126	103	66	22	537
NE-05	31-00 AVERAGE STD DEV		19 14	138 54	421 85	868 108	1209 150	1320 191	1053 173	892 146	497 96	226 73	53 30	6708 454
Central	31-60 AVERAGE		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		17	142	404	846	1204	1325	1058	945	495	225	56	6728
1	STD DEV 51-80 AVERAGE		12 19	56 143	91 419	87 865	124 1213	152 1373	139 1067	169 930	109 495	71 222	32 51	327 6809
	STD DEV		14	57	94	90	138	156	166	160	84	65	28	362
	61-90 AVERAGE		24	153	442	868	1258	1347	1066	885	485	223	53	6815
	STD DEV		14	52	87	101	166	197	153	149	91	68	27	425
2505	71-00 AVERAGE STD DEV		24 16	147 47	451 62	898 128	1234 179	1323 195	1034 188	854	502 94	234 66	55 28	6772 500
NE-06	31-00 AVERAGE		17	106	367	818	1198	1339	1061	112 864	444	189	32	6444
East Central	STD DEV	_	12	45	85	110	153	195	178	156	92	67	21	464
	31-60 AVERAGE		12	91	343	812	1161	1324	1083	898	450	193	33	6408
	STD DEV 41-70 AVERAGE	_	9 16	46 114	89 351	102 801	126 1193	205 1349	188 1064	162 916	99 446	72 191	26 36	502 6486
	41-70 AVERAGE STD DEV		11	46	351 89	96	137	142	141	180	102	66	24	365
	51-80 AVERAGE		17	114	371	810	1201	1402	1078	901	442	184	31	6561
	STD DEV		11	46	94	92	138	144	170	169	85	58	19	376
	61-90 AVERAGE		20	118	388	806	1245	1359	1076	846	427	183	30	6507
	STD DEV 71-00 AVERAGE		13 20	41 111	86 394	95 836	165 1222	200 1334	160 1039	155 819	90 439	62 190	17 30	422 6443
2506	STD DEV		14	39	66	127	175	198	192	124	94	61	17	488
NE-07	31-00 AVERAGE		15	130	410	830	1128	1221	961	838	479	226	56	6301
Southwest	STD DEV		11	54	81	104	141	176	154	134	92	73	31	425
	31-60 AVERAGE STD DEV		10 7	109 45	381 81	814 94	1088 110	1191 188	967 157	856 148	472 99	217 74	52 37	6164 431
	41-70 AVERAGE		14	133	400	817	1121	1222	970	894	480	225	62	6348
	STD DEV		11	57	95	88	112	155	134	152	106	71	36	328
	51-80 AVERAGE		16	139	415	843	1138	1268	981	880	487	229	56	6461
	STD DEV 61-90 AVERAGE		11 18	61 147	93 433	89 836	132 1182	163 1260	152 979	147 835	83 474	67 232	31 57	343 6462
	STD DEV		11	56	85	100	158	176	139	127	91	71	27	365
	71-00 AVERAGE		18	139	437	854	1154	1237	952	803	487	238	57	6384
2507	STD DEV		12	48	51	120	169	167	167	96	87	66	27	434
NE-08	31-00 AVERAGE STD DEV		14 11	108 47	367 82	808 101	1143 143	1252 180	985 164	820 147	436 91	189 67	43 26	6174 426
South Central	31-60 AVERAGE		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		13	112	355	794	1148	1261	988	874	436	187	47	6223
	STD DEV 51-80 AVERAGE		9 15	49 114	87 370	83 813	124 1152	143 1305	138 998	170 858	106 435	65 184	28 42	338 6292
	STD DEV		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		11	43	82	93	160	175	149	139	87	65	23	380
2508	71-00 AVERAGE STD DEV		18 12	117 39	395 58	832 119	1160 166	1251 175	967 180	782 110	439 86	198 61	44 24	6214 439
NE-09	31-00 AVERAGE		14	94	341	778	1145	1283	1006	812	415	173	29	6096
Southeast	STD DEV	6	10	42	80	107	149	182	172	152	89	64	19	431
	31-60 AVERAGE		10	83	323	781	1120	1274	1025	851	423	180	30	6106
	STD DEV 41-70 AVERAGE		8 13	44 100	86 328	98 768	124 1149	190 1293	173 1005	161 864	93 414	68 173	24 33	467 6148
	STD DEV		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		9	41	86	90	131	139	169	163	83	57	17	347
	61-90 AVERAGE STD DEV		16 10	102 36	356 80	758 91	1182 167	1299 189	1022 165	788 145	394 88	165 60	28 16	6115 390
	71-00 AVERAGE		16	36 97	362	786	1158	1277	987	764	410	174	28	6066
2509	STD DEV		12	40	64	125	172	190	194	119	92	58	16	455
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## United States Climate Normals 1971-2000 60 T 40 T J F M A M J J A S O N D

Section 3:

Divisional Normals, 1971-2000 (and previous periods)

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

#### Nevada – New Hampshire

**Heating Degree Days** 

Climate Division	Ele	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NV-01	31-00	AVERAGE	14	30	160	454	792	1038	1077	833	760	541	323	125	6146
Northwestern		STD DEV	11	18	55	80	93	108	156	117	94	98	83	48	362
	31-60	AVERAGE STD DEV	13 9	32 16	153 45	448 76	800 98	1023 103	1105 194	870 128	779 96	525 83	325 86	134 51	6206 389
	41-70	AVERAGE	15	36	160	452	784	1027	1087	833	800	556	333	143	6226
	11 70	STD DEV	10	20	57	83	85	86	162	111	76	98	81	51	287
	51-80	AVERAGE	13	35	162	453	788	1035	1062	814	788	574	333	124	6179
\		STD DEV	9	22	60	79	74	103	120	95	88	97	87	49	225
65	61-90	AVERAGE	14	31	174	460	788	1054	1073	817	765	562	327	115	6180
6h	71_00	STD DEV AVERAGE	12 15	22 27	68 161	90 460	74 791	118 1050	110 1055	98 804	90 728	113 538	71 321	46 114	312 6063
2601	71-00	STD DEV	14	18	59	81	94	122	124	94	93	101	83	45	371
NV-02	31-00	AVERAGE	38	65	248	569	918	1182	1239	996	920	668	431	202	7476
Northeastern		STD DEV	23	31	68	87	109	127	163	137	108	103	92	65	460
	31-60	AVERAGE	32	62	233	551	913	1152	1263	1029	933	642	420	202	7430
	41_70	STD DEV AVERAGE	17 42	27 78	58 262	89 576	118 916	136 1189	199 1257	153 1009	111 974	90 690	100 445	65 233	542 7671
	41-70	STD DEV	19	32	72	90	104	111	166	144	100	99	86	59	376
	51-80	AVERAGE	38	78	259	574	916	1190	1231	981	959	705	449	208	7590
		STD DEV	18	36	74	81	87	115	131	127	108	94	94	60	343
100 M	61-90	AVERAGE	40	74	268	580	913	1210	1240	983	931	693	445	199	7574
ph	71_00	STD DEV AVERAGE	20 41	36 64	81 251	94 582	76 930	125 1196	126 1216	114 970	109 883	112 669	78 439	65 190	380 7432
2602	,1-00	STD DEV	26	27	63	81	109	127	136	112	95	106	439 86	61	397
NV-03	31-00	AVERAGE	4	13	117	411	761	1022	1066	828	740	507	277	82	5827
South Central		STD DEV	4	11	45	83	94	110	148	116	105	103	78	38	362
	31-60	AVERAGE	3	10	97	395	746	990	1073	852	745	480	267	81	5739
	41 70	STD DEV AVERAGE	3 4	7 13	36 111	76 398	100 746	104 1018	188 1066	135 829	107 779	83 518	77 279	35 94	389 5856
	41-70	STD DEV	4	13	48	398 84	90	1018	142	119	93	105	68	41	320
<u> </u>	51-80	AVERAGE	4	17	122	405	762	1033	1071	824	777	545	294	86	5940
		STD DEV	3	14	48	86	73	116	126	101	103	102	80	39	329
	61-90	AVERAGE	5	17	138	424	769	1056	1078	826	760	537	290	83	5982
16	71 00	STD DEV	4	14	51	93	71	119	115	92	102	116	71	38	296
2603	/1-00	AVERAGE STD DEV	4 4	15 11	128 45	431 85	781 93	1038 114	1061 124	809 93	716 105	512 107	284 83	76 34	5854 363
NV-04	31-00	AVERAGE	0	0	5	116	403	642	668	478	367	180	52	3	2915
Extreme Southern		STD DEV	0	0	6	47	85	88	113	104	90	69	31	3	316
Extromo codinom	31-60	AVERAGE	0	0	4	122	414	637	698	520	381	170	54	3	3003
	41 70	STD DEV	0	0	4 5	47 121	89	86	134	117	85	51	34 57	2	299
<i>-</i>	41-70	AVERAGE STD DEV	0	0	5 6	48	414 82	657 78	693 100	498 102	403 75	194 71	28	4	3047 220
	51-80	AVERAGE	0	0	5	118	416	659	689	482	400	208	63	4	3044
		STD DEV	0	0	5	44	72	85	82	90	84	70	33	3	198
	61-90	AVERAGE	0	0	7	120	401	664	670	465	379	201	56	3	2965
<b>Y</b>	F1 00	STD DEV	0	0	8	51	72	92	83	73	90	82	29	3	253
2604	1/T-00	AVERAGE STD DEV	0 0	0 0	5 7	112 48	395 84	630 93	631 92	438 72	336 92	173 70	48 31	2	2771 318
NH-01	31-00	AVERAGE	64	116	308	641	965	1411	1572	1372	1203	785	428	146	9011
Northern	00	STD DEV	30	42	62	82	92	149	149	126	124	89	85	41	400
#	31-60	AVERAGE	62	114	296	623	966	1433	1551	1377	1229	789	429	147	9015
1	41 50	STD DEV	30	47	61	81	102	140	150	124	144	91	84	45	388
	41-70	AVERAGE STD DEV	68 35	125 50	301 71	613 79	954 87	1438 139	1579 140	1385 109	1212 127	786 87	447 93	151 45	9059 342
	51-80	AVERAGE	70	125	314	640	959	1423	1580	1383	1202	790	438	151	9073
	00	STD DEV	35	46	67	84	94	141	136	115	111	76	95	44	360
نـر }	61-90	AVERAGE	63	119	315	647	965	1416	1595	1375	1184	780	423	148	9032
	F1 00	STD DEV	28	43	63	83	88	159	149	125	104	93	85	38	383
2701	71-00	AVERAGE STD DEV	62 27	110 31	318 51	667 81	963 82	1379 166	1577 147	1351 135	1175 114	774 95	412 80	143 41	8931 440
NH-02	31-00	AVERAGE	17	50	211	536	833	1239	1382	1191	1028	653	326	81	7548
Southern	-1 00	STD DEV	13	24	51	75	83	131	136	114	103	76	73	30	344
Countries	31-60	AVERAGE	17	51	202	520	829	1248	1356	1191	1044	654	323	81	7517
~	45 55	STD DEV	11	26	50	69	85	125	140	121	122	85	70	33	341
5	41-70	AVERAGE	19	56	209	511	822	1257	1382	1195	1034	650	340	84	7558
<i>[</i>	51_00	STD DEV AVERAGE	14 19	28 54	59 219	69 539	76 833	125 1255	125 1392	102 1199	111 1033	81 654	82 336	32 85	318 7618
	21-00	STD DEV	14	26	57	78	84	129	123	108	91	71	82	31	332
	61-90	AVERAGE	17	52	220	546	835	1257	1418	1203	1019	656	330	87	7639
		STD DEV	13	26	54	81	81	138	131	102	84	72	76	29	299
2702	71-00	AVERAGE	16 12	46	216	559 77	836	1218	1396	1177 116	1010	646	316	81	7517
		STD DEV		18	43	.7.7	81	146	136		90	73	67	31	376

## United States Climate Normals 1971-2000 60 T 19 F M A M J J A S O N D

Section 3:

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Temperature, Precipitation, and Degree Days

## Heating Degree Days New Jersey – New Mexico

Northern 3 4 5 6 7 <b>NJ-02</b> 3 Southern 3	31-00 31-60 41-70 51-80 51-90 71-00 31-60	AVERAGE STD DEV AVERAGE	JUL  2 2 1 1 1 2 2 2 2 2 2 2 2 3 0	8 6 7 8 6 7 5 8 6	89 33 81 31 83 35 91 38 97	OCT 377 81 352 77 349 72 379 81 394	NOV 658 78 658 78 653 69 659	DEC 1011 118 1017 112 1038 110 1023	JAN 1128 148 1086 147 1131 135	973 114 964 118 975 95	821 105 831 125 828 114	APR 477 72 468 82 462 81	201 59 189 50 204 68	27 15 23 14 26	5772 349 5676 350
Northern 3 4 5 6 7 <b>NJ-02</b> 3 Southern 3	11-70 51-80 51-90 71-00 31-00	AVERAGE STD DEV	1 1 2 2 2 2 2 2 2 2 3	7 7 8 6 7 5 8 6 8	81 31 83 35 91 38 97 38	352 77 349 72 379 81	658 78 653 69 659	1017 112 1038 110	1086 147 1131	964 118 975	831 125 828	468 82 462	189 50 204	23 14	5676 350
2801 NJ-02 Southern	11-70 51-80 51-90 71-00 31-00	STD DEV AVERAGE STD DEV	1 1 2 2 2 2 2 2 2 2 3	7 8 6 7 5 8 6 8	31 83 35 91 38 97 38	77 349 72 379 81	78 653 69 659	112 1038 110	147 1131	118 975	125 828	82 462	50 204	14	350
2801 NJ-02 Southern	51-80 51-90 71-00 31-00	AVERAGE STD DEV	1 2 2 2 2 2 2 2 3	8 6 7 5 8 6 8	83 35 91 38 97 38	349 72 379 81	653 69 659	1038 110	1131	975	828	462	204		
2801 NJ-02 Southern	51-80 51-90 71-00 31-00	STD DEV AVERAGE STD DEV AVERAGE STD DEV AVERAGE STD DEV AVERAGE STD DEV	2 2 2 2 2 2 2 3	6 7 5 8 6 8	35 91 38 97 38	72 379 81	69 659	110						26	
2801 NJ-02 Southern  3	51-90 71-00 31-00 31-60	AVERAGE STD DEV AVERAGE STD DEV AVERAGE STD DEV AVERAGE STD DEV	2 2 2 2 2 3	7 5 8 6 8	91 38 97 38	379 81	659		133					14	5759 342
2801 NJ-02 Southern  3	51-90 71-00 31-00 31-60	STD DEV AVERAGE STD DEV AVERAGE STD DEV AVERAGE STD DEV	2 2 2 2 2 3	5 8 6 8	38 97 38	81			1150	989	828	470	212	30	5837
2801  NJ-02  Southern  3	71-00 31-00 31-60	STD DEV AVERAGE STD DEV AVERAGE STD DEV	2 2 3	6 8	38	394	77	116	124	115	90	74	68	17	330
2801 <b>NJ-02</b> 3 Southern 3	31-00 31-60	AVERAGE STD DEV AVERAGE STD DEV	2	8			655	1023	1183	998	818	489	212	32	5912
2801  NJ-02  Southern  3	31-00 31-60	STD DEV AVERAGE STD DEV	3			87	78	123	138	105	86	66	64	16	291
NJ-02 Southern	31-60	AVERAGE STD DEV			96	404	658	989	1144	962	803	478	203	31	5777
Southern 3	31-60	STD DEV	0	2	29 55	84 308	80 590	131 919	150 1024	119 891	92 740	62 425	53 157	17 13	356 5124
3		AVERAGE	0	2	24	72	78	122	148	117	105	70	50	9	321
} /	11-70		0	3	55	296	603	938	998	898	766	432	152	13	5155
} /	11-70	STD DEV	0	3	25	68	75	118	157	121	122	77	43	9	323
5		AVERAGE STD DEV	0	3 2	54 26	290 66	595 67	953 115	1037 134	902 86	755 112	422 74	158 56	13 9	5182 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
6	51-90	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
2802	/T-00	AVERAGE STD DEV	0	2 2	53 19	319 80	577 83	884 129	1026 146	866 123	710 88	411 63	155 47	14 10	5017 326
	31-00	AVERAGE	0	1	36	256	531	856	976	860	744	450	185	18	4912
Coastal	_ 50	STD DEV	0	1	18	65	74	117	139	111	91	65	50	11	345
3	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
4	11-70	AVERAGE STD DEV	0	1 1	34 18	231 51	524 60	879 109	980 124	865 81	756 92	443 62	183 50	16 10	4912 266
5 56	51-80	AVERAGE	0	1	35	254	532	856	994	871	746	436	186	19	4930
5		STD DEV	0	1	19	64	69	112	114	102	80	62	53	13	261
6	51-90	AVERAGE	0	1	38	263	520	850	1014	870	727	447	187	19	4937
	71 00	STD DEV	0	1	19	71	72	116	130	99	77	57	51	11	271
2803	/1-00	AVERAGE STD DEV	0	1 1	36 15	271 72	524 78	824 123	978 141	836 116	712 82	435 59	181 51	19 13	4816 358
	31-00	AVERAGE	2	10	120	437	820	1111	1164	899	801	539	282	66	6250
Northwest Plateau		STD DEV	2	7	39	68	84	112	122	109	87	82	66	28	316
3	31-60	AVERAGE	2	9	107	418	829	1099	1169	920	819	526	280	65	6242
	11 70	STD DEV AVERAGE	3 2	5 10	32 114	63 422	89 812	127 1111	136 1162	131 904	79 835	79 534	70 271	30 68	335 6244
	11-70	STD DEV	3	7	38	77	91	112	1102	110	86	86	58	32	272
5	51-80	AVERAGE	1	12	120	431	819	1130	1169	912	822	556	286	62	6320
1. 5 2/1 4 1		STD DEV	2	8	40	71	87	112	116	106	91	75	69	28	297
	51-90	AVERAGE	2	13	134	448	805	1123	1183	903	803	551	290	67	6322
	71_00	STD DEV AVERAGE	2 2	8 12	41 128	77 457	69 827	107 1112	111 1145	82 876	95 771	86 544	63 291	27 66	298 6229
2901	1-00	STD DEV	2	7	42	61	79	97	1145	81	80	85	64	27	326
	31-00	AVERAGE	28	52	208	522	872	1133	1191	962	889	620	372	121	6970
Northern Mountains		STD DEV	14	22	47	63	88	93	105	107	92	81	64	39	324
3	31-60	AVERAGE	33	52	203	521	889	1129	1204	985	919	624	384	123	7066
	11-70	STD DEV AVERAGE	15 28	18 52	43 206	60 516	90 868	98 1132	105 1194	119 976	78 934	80 620	63 368	40 125	297 7022
	/0	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
591		STD DEV	13	23	45	65	91	100	102	111	101	77	60	38	279
MANU 6	51-90	AVERAGE	24	56	216	521	851	1139	1200	966	882	617	370	119	6962
	71-00	STD DEV AVERAGE	12 26	24 51	47 206	73 525	74 868	93 1133	103 1168	89 933	105 843	86 616	58 367	37 114	305 6849
2902	1 00	STD DEV	13	23	50	62	91	92	104	84	77	87	68	39	333
	31-00	AVERAGE	1	2	53	283	641	898	939	733	627	352	129	15	4673
Northeast Plains		STD DEV	1	3	25	61	93	100	110	97	97	79	43	10	278
3	31-60	AVERAGE	1	2	46	272	649	878	935	738	641	351	132	13	4656
	11_70	STD DEV AVERAGE	1 1	2 2	23 50	57 278	87 630	99 884	113 936	107 738	96 662	75 344	42 123	9 15	298 4663
	<u>.</u> _ / U	STD DEV	1	2	21	276 67	96	89	116	106	104	79	31	9	270
5	51-80	AVERAGE	1	3	55	285	648	885	943	741	642	353	128	14	4695
591		STD DEV	1	3	25	68	96	94	117	103	108	77	40	9	235
LAND 6	51-90	AVERAGE	1	3	62	293	629	921	956	750	625	349	132	17	4739
	71_00	STD DEV AVERAGE	1 1	3 3	24 59	71 294	91 645	106 916	114 936	82 721	108 595	83 359	41 132	11 16	247 4678
2903	0 0	STD DEV	1	3	27	294 54	101	103	103	88	73	359 86	47	11	285

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Section 3:

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

Temperature, Precipitation, and Degree Days

#### New Mexico – New York

**Heating Degree Days** 

Climate Division	FI	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NM-04		AVERAGE	6	24	138	437	769	1004	1041	831	767	526	288	72	5904
Southwestern Mountains		STD DEV	4	13	36	57	74	90	100	90	80	75	61	29	290
	31-60	AVERAGE	5	22	130	424	780	997	1057	846	778	518	284	65	5909
	41 50	STD DEV	4	12	34	55	78	104	115	101	70	69	63	24	266
1	41-70	AVERAGE STD DEV	6 4	24 15	134 36	433 60	768 80	1009 85	1049 103	846 106	800 78	528 73	291 52	77 31	5963 272
	51-80	AVERAGE	5	27	141	440	776	1012	1041	849	788	545	307	76	6007
<b>3</b> 40 2 1	31 00	STD DEV	4	15	35	59	69	87	96	99	90	66	55	31	257
MAN 7	61-90	AVERAGE	6	27	149	446	757	1008	1043	833	770	535	302	78	5954
		STD DEV	4	14	36	64	58	80	83	80	93	83	53	31	308
2904	71-00	AVERAGE	6 5	23 12	139	446	767	1003	1012	806	739	527	288	70	5825
NM-05	31-00	STD DEV AVERAGE	0	0	39 30	59 254	73 617	83 873	77 897	64 668	76 548	82 295	62 90	29 5	294 4277
Central Valley	31 00	STD DEV	0	1	15	53	75	81	88	91	80	70	33	4	247
Contrai valley	31-60	AVERAGE	0	0	25	244	632	868	900	679	558	285	88	4	4282
		STD DEV	0	0	12	51	74	89	92	101	72	69	32	4	248
1 / 41	41-70	AVERAGE	0	0 1	28	249	618	883	904	686	584	290	87	5	4335
	51-80	STD DEV AVERAGE	0	0	14 32	54 254	79 619	85 886	98 895	102 685	77 565	67 305	29 98	4 5	231 4343
F 4.( \ \	31 00	STD DEV	0	1	16	55	77	85	92	100	91	62	35	4	225
(4)	61-90	AVERAGE	0	1	36	260	599	881	908	672	549	302	97	5	4309
		STD DEV	0	1	15	59	66	76	84	82	94	74	34	4	255
2005	71-00	AVERAGE	0	0	34	264	613	876	882	648	523	305	95 27	5	4245
2905 <b>NM-06</b>	31-00	STD DEV AVERAGE	0 14	1 32	16 152	54 441	77 770	80 1001	78 1045	68 840	75 775	76 521	37 278	4 69	258 5938
Central Highlands	31-00	STD DEV	10	16	41	63	81	86	1013	94	85	77	62	30	311
Ochical i lightanus	31-60	AVERAGE	14	28	141	431	781	992	1051	850	785	519	282	64	5939
		STD DEV	8	12	36	64	77	89	108	99	76	73	62	21	285
1 1	41-70	AVERAGE	14	31	149	437	769	1004	1047	853	808	520	273	75	5979
5	51-80	STD DEV AVERAGE	10 15	17 38	36 163	65 450	82 783	83 1012	112 1048	103 867	86 803	75 545	49 296	36 74	271 6093
H3.77 \	31 00	STD DEV	12	19	39	63	79	86	104	101	97	67	54	37	232
KAN 7	61-90	AVERAGE	14	38	170	452	763	1013	1058	855	781	528	290	77	6039
2 N -		STD DEV	11	18	38	67	73	83	90	86	100	83	57	36	289
2006	71-00	AVERAGE	14	33	156	448	766	1003	1026	817	743	521	277	63	5867
2906 <b>NM-07</b>	31_00	STD DEV AVERAGE	11	17 0	46 25	61 191	88 519	88 751	91 789	76 595	75 475	86 224	69 60	25 2	342 3632
Southeast Plains	31 00	STD DEV	0	1	17	53	86	90	102	90	87	63	26	2	260
Southeast Flains	31-60	AVERAGE	0	0	22	187	533	744	789	606	492	232	66	2	3670
		STD DEV	0	0	15	53	74	98	109	92	83	59	24	2	266
1 2 4	41-70	AVERAGE	0	0	22	190	512	743	790	603	506	221	57	2	3645
TETS	51-80	STD DEV AVERAGE	0	1	10 26	52 197	81 528	89 745	117 789	95 606	92 487	60 223	18 60	2	244 3663
	31-00	STD DEV	0	1	18	56	89	85	110	97	100	62	24	2	223
LAN !	61-90	AVERAGE	0	1	30	201	507	765	809	607	474	220	60	2	3675
		STD DEV	0	1	17	58	88	84	97	79	98	70	25	2	211
2007	71-00	AVERAGE	0	1	28	195	517	760	782	577	443	224	59	2	3587
2907 <b>NM-08</b>	31-00	STD DEV AVERAGE	0	1 0	20 13	51 174	97 509	85 739	91 756	83 563	68 455	70 228	28 61	2	273 3501
Southern Desert	31-00	STD DEV	0	0	8	47	71	739	756	83	74	62	26	2	228
COULIDITI DESCIL	31-60	AVERAGE	0	0	9	155	511	720	756	564	450	214	56	1	3436
		STD DEV	0	0	6	41	69	78	86	92	66	57	26	1	218
1	41-70	AVERAGE	0	0	12	171	505	740	764	573	477	223	59	2	3525
( Torre	51-80	STD DEV AVERAGE	0	0 0	7 15	46 185	73 516	74 753	97 756	96 583	73 475	57 240	23 70	2 2	220 3595
- 33n/ 1	31 00	STD DEV	0	1	8	50	72	71	88	93	86	55	26	2	205
4.40	61-90	AVERAGE	0	0	18	193	507	755	769	579	468	241	70	3	3603
		STD DEV	0	1	8	52	65	65	71	74	86	68	24	2	206
2000	71-00	AVERAGE	0	0	17	189	514	754	743	553	443	240	66	2	3521
2908 <b>NY-01</b>	31_00	STD DEV AVERAGE	0 35	1 69	9 209	47 525	73 827	66 1186	64 1316	65 1168	74 1031	70 651	28 347	2 105	233 7469
Western Plateau	21-00	STD DEV	19	29	56	92	93	136	161	131	131	90	84	40	406
vvesteiii Fiateau	31-60	AVERAGE	28	60	191	497	832	1195	1278	1162	1046	647	332	93	7361
		STD DEV	15	29	53	86	101	130	170	131	152	104	75	37	415
35 13	41-70	AVERAGE	33	68	196	489	821	1209	1322	1172	1033	633	345	98	7420
Ser Daniel	51_00	STD DEV	18 38	30 69	56 207	85 523	83 820	128 1191	150 1344	105 1188	139 1032	97 643	88 356	36 111	349 7521
	21-00	AVERAGE STD DEV	19	69 26	62	95	90	129	1344	127	122	88	356 84	41	361
	61-90	AVERAGE	40	76	222	545	816	1190	1363	1192	1018	658	363	121	7602
Years.	-	STD DEV	18	28	59	99	85	143	149	125	113	82	84	40	324
2001	71-00	AVERAGE	40	74	226	560	823	1169	1334	1155	1016	651	356	116	7522
3001		STD DEV	21	28	44	92	93	151	155	143	125	81	83	44	432

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0								550							
Climate Division		ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NY-02	31-00	AVERAGE	23	51	197	516	820	1202	1338	1178	1028	639	324	87	7403
Eastern Plateau		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
( )	41 50	STD DEV	12	25	51	79	97	125	161	125	150	98	71	33	370
37 13	41-70	AVERAGE	22	52	186	486	811	1227	1347	1185	1035	621	332	84	7387
	F1 00	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
	c1 00	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
	71 00	STD DEV	14	23	56	93	90	137	147	120	99	85	81	34	307
2000	/1-00	AVERAGE	28	54	213	548	826	1183	1353	1165	1013	647	323	97	7450
3002	21 00	STD DEV	16	23	43	90	89	147	155	135	111	84	74	36	412
NY-03	31-00	AVERAGE STD DEV	66	114	302	640 92	965	1399	1555	1367	1214 131	786	425	156	8988
Northern Plateau	21 60		30	39	64 294	92 626	105 972	152 1417	165 1537	138 1374	1239	100 788	87	46 148	437 8992
	31-60	AVERAGE STD DEV	61 30	110 43	67	88	117	138	171	135	150	103	426 83	44	449
	41 70	AVERAGE	65	117	287	604	947	1420	1562	1372	1211	773	435	147	8939
	41-70	STD DEV	31	43	66	83	947	1420	1502	110	132	99	94	45	361
	E1 00	AVERAGE	69	117	301	634	958	1408	1574	1381	1209	787	433	155	9027
	31-80	STD DEV	31	39	68	99	106	142	138	129	111	94	93	47	384
	61_90	AVERAGE	67	119	308	647	959	1405	1584	1377	1194	787	427	168	9041
VE S	- JT-30	STD DEV	26	38	65	100	959	164	1504	134	110	104	88	48	381
Ja	71-00	AVERAGE	68	114	315	666	964	1371	1558	1345	1194	784	416	165	8961
3003	00	STD DEV	30	35	52	96	93	170	166	153	125	107	85	52	486
NY-04	31-00	AVERAGE	1	3	57	301	588	923	1053	925	794	475	197	22	5337
· ·	51 00	STD DEV	1	3	23	68	75	116	135	111	93	69	55	12	342
Coastal	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
\$2	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
> Long Jam 1	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
2/.	61-90	AVERAGE	1	2	58	307	578	923	1088	935	778	471	196	22	5358
Land Control of the C	-	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
3004		STD DEV	1	2	19	73	73	121	136	111	78	58	50	12	331
NY-05	31-00	AVERAGE	5	20	139	447	754	1143	1286	1111	939	552	244	45	6686
Hudson Valley		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
( )	41 50	STD DEV	4	12	41	72	89	119	151	125	131	94	63	23	357
35	41-70	AVERAGE	5	21	131	415	743	1167	1293	1115	947	540	254	44	6675
	F1 00	STD DEV	4 6	13 20	46 140	70 445	79 749	121 1152	142 1304	101 1123	117	92 546	76 254	22 48	337 6731
AL-7.	51-80	AVERAGE STD DEV	5	20 11	49	445 85	749 86	125	1304	123	943 95	81	∠5 <del>4</del> 75	23	340
	61_00	AVERAGE	6	22	146	460	750	1154	1329	1130	929	557	251	23 51	6784
W5.	01-90	STD DEV	4	13	48	87	82	138	149	114	91	77	71	22	300
de	71-00	AVERAGE	6	21	150	477	757	1123	1299	1098	919	552	242	50	6695
3005	71 00	STD DEV	7	12	37	83	81	141	153	127	100	74	62	22	370
NY-06	31-00	AVERAGE	23	50	194	518	837	1254	1410	1234	1074	649	317	85	7644
Mohawk Valley		STD DEV	16	24	54	86	99	141	154	127	128	96	79	34	405
Moriawik 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
8-5	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
25	51-80	AVERAGE	25	52	194	515	833	1262	1432	1246	1072	646	329	90	7697
C Lyd		STD DEV	16	25	56	93	98	132	133	120	109	93	82	35	339
V.	61-90	AVERAGE	23	53	200	526	829	1258	1438	1241	1050	647	318	94	7677
Jan S		STD DEV	14	25	54	96	92	149	149	126	105	94	80	36	328
2006	/T-00	AVERAGE	23	50	202	539	829	1218	1409	1208	1050	642	302	90	7562
3006	21 00	STD DEV	16	22	48	92	90	156	155	142	116	93	81	40	459
NY-07	31-00	AVERAGE	15 12	50 24	210 55	542 83	878 98	1316	1492	1300	1106	669	313 77	72	7963 416
Champlain Valley	31_60	STD DEV AVERAGE	15	24 48	201	530	98 882	150 1337	163 1478	133 1306	131 1136	92 675	316	28 73	7996
	21-00	STD DEV	12	24	53	79	115	137	164	129	153	98	75	30	447
55	41-70	AVERAGE	16	51	199	511	862	1332	1498	1305	1102	659	324	70	7928
	11 ,0	STD DEV	13	27	59	77	88	138	155	111	128	91	87	31	350
Jan Com	51-80	AVERAGE	16	52	212	543	872	1327	1505	1311	1101	669	318	71	7997
	52 00	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
Years.		STD DEV	11	26	57	91	81	160	167	130	107	93	80	25	339
to	71-00	AVERAGE	14	49	220	564	875	1281	1492	1277	1077	657	298	70	7872
3007		STD DEV	11	20	50	86	82	163	163	145	118	90	71	28	419
	1		1		l						I				I

# United States Climate Normals 1971-2000 60 T 1971-3000

Section 3:

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

Temperature, Precipitation, and Degree Days

#### New York - North Carolina

**Heating Degree Days** 

Climate Division		ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		ANNUAL
NY-08	31-00	AVERAGE	22	58	218	546	878	1343	1523	1321	1132	682	335	86	8142
St. Lawrence Valley	2.1	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
	41 70	STD DEV AVERAGE	14 21	26 57	51 201	81 504	122 846	151 1346	178 1516	135 1310	155 1117	99 660	77 345	30 83	453 8008
	IT-/0	AVERAGE STD DEV	16	28	58	504 79	846 95	1346	163	1310 $114$	138	92	345 89	8 <i>3</i> 31	377
Jan Com	51-80	AVERAGE	24	20 59	215	534	861	1354	1527	1326	1122	674	339	87	8122
The state of the s	33	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
Harry.		STD DEV	15	26	59	96	86	182	173	139	125	93	82	33	345
2000	71-00	AVERAGE	23	61	236	580	891	1328	1542	1318	1124	688	323	90	8205
3008	21 0-	STD DEV	16	23	50	87	90	187	168	156	140	95	75	37	428
NY-09	31-00	AVERAGE STD DEV	14 11	33 18	148 47	449 85	767 93	1138 133	1290 157	1146 127	1005 127	619 91	309 80	69 29	6986 392
Great Lakes	31-60	AVERAGE	11	28	134	428	93 762	1133	1248	1131	1018	618	311	29 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
- Lys	61 0-	STD DEV	10	18	53	93 467	89 764	126	133	128	115	88 633	82	30 70	361
VII.	ο1-90	AVERAGE	15 10	38 19	159 49	467 94	764 79	1155 142	1337 152	1176 123	994 112	622 88	313 83	79 29	7119 330
Jan	71 - 00	STD DEV AVERAGE	10	19 35	161	94 477	773	1129	1312	1143	990	88 620	83 297	73	7024
3009		STD DEV	12	18	38	86	89	148	1512	141	121	86	79	32	433
NY-10	31-00	AVERAGE	19	43	165	468	770	1140	1281	1137	1001	615	307	76	7022
Central Lakes		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
(	41 70	STD DEV	10	20 41	47	80 432	99 752	124	160	123	155	96 593	71 315	29 72	395 6950
_ 35 4	±1-70	AVERAGE STD DEV	18 12	41 22	151 52	432 84	752 83	1156 122	1282 150	1137 102	1002	593 94	315 86	72 31	6950 388
5	51-80	AVERAGE	22	47	170	475	771	1156	1317	1166	1016	616	326	85	7166
	3 3	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
Jans.		STD DEV	12	21	52	96	84	139	149	123	110	86	85	30	332
2010	71-00	AVERAGE	23	49	186	507	785	1135	1309	1136	995	628	308	85	7148
3010 NC 04	31-00	STD DEV AVERAGE	14 1	20 2	41 58	88 296	90 570	147 813	154 862	144 714	123 586	86 317	81 130	34 19	443 4368
NC-01	00-1د	AVERAGE STD DEV	2	2	25	296 70	570 88	123	862 151	109	112	317 65	130 46	19 13	4368 298
Southern Mountains	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
Lung Lung	41-70	AVERAGE	1	2	62	293	590	838	856	725	610	302	124	18	4422
- X 5	1	STD DEV	2	3	28	71	78	111	134	127	126	71	46	13	295
	51-80	AVERAGE STD DEV	1 2	2 2	58 28	312 65	583 79	826 114	895 141	743 119	598 113	307 62	132 49	23 15	4481 266
$\searrow$	61-00	STD DEV AVERAGE	2	2	62	65 312	79 550	816	141 920	119 742	567	62 317	49 137	15 22	266 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
3101		STD DEV	1	2	21	76	93	124	148	92	93	63	49	13	302
NC-02	31-00	AVERAGE	5	9	94	354	633	893	951	802	676	392	176	35	5020
Northern Mountains	31 60	STD DEV	7	7 10	34 94	73 344	86 656	123 895	150 908	108 791	120 709	72 402	54 178	20 34	307 5028
	21-00	AVERAGE STD DEV	9	10 9	37	344 68	656 79	122	908 156	791 121	142	402 64	178 47	34 22	304
Juny Mary	41-70	AVERAGE	8	11	102	350	652	919	945	814	703	381	171	36	5091
and the same of th	)	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
	<b>C</b> 1 .	STD DEV	3	5	34	70	80	114	136	112	120	69	56 172	23	248
	01-90	AVERAGE	5 4	7 5	92 34	359 85	606 83	894 129	1003 145	825 103	649 93	381 79	172 54	34 16	5028 310
	71-00	STD DEV AVERAGE	4	5 8	92	85 363	83 614	881	977	103 797	647	79 389	54 180	16 35	310 4988
3102	00	STD DEV	3	6	30	84	95	127	151	98	96	369 74	59	20	340
NC-03	31-00	AVERAGE	0	0	30	227	471	746	802	659	508	220	71	6	3740
Northern Piedmont		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
	41 72	STD DEV	0	0	12	54 211	79 475	121	146	114 667	139	51 204	25 62	4	318
The same of the sa	#T-10	AVERAGE STD DEV	0	0 0	29 16	211 61	475 73	768 113	792 129	667 110	522 132	204 59	62 33	5 4	3735 342
	51-80	AVERAGE	0	0	31	238	73 483	759	832	689	526	214	33 73	8	342
	- 30	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
2102	71-00	AVERAGE	0	0	35	251	470	741	836	661 104	501	230	83	8	3816
3103		STD DEV	0	1	15	73	90	123	138	104	87	60	33	7	304

## United States Climate Normals 1971-2000 60 T 40 T

Section 3:

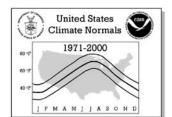
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

### North Carolina – North Dakota

**Heating Degree Days** 

J F M A M J J A S O N D															
Climate Division	El	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
NC-04		AVERAGE	0	0	24	205	459	727	781	636	484	205	60	5	3586
Central Piedmont		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
Per 1	41 70	STD DEV AVERAGE	0	0 0	11   24	52 197	80 467	122 751	147 773	109 645	131 503	51 189	24 53	3 4	295 3607
	41-70	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
	E1 00	STD DEV	0	0	15	71	82	120	134	106	86	59	28	5	295
3104	71-00	AVERAGE STD DEV	0	0 0	26 11	223 68	454 90	717 122	809 138	637 101	467 84	214 57	68 30	6 6	3620 304
NC-05	31-00	AVERAGE	0	0	16	177	422	686	737	592	443	174	46	3	3297
Southern Piedmont		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
( Contraction of the state of t	41-70	AVERAGE STD DEV	0	0 0	15 10	168 54	425 71	703 115	725 128	597 109	459 121	157 52	39 24	3	3291 311
200	51-80	AVERAGE	0	0	16	188	430	694	761	619	458	166	48	4	3385
	- 00	STD DEV	0	0	11	57	74	113	131	110	105	49	27	4	272
	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
2105	71-00	AVERAGE STD DEV	0	0	18	194	421	679	767	592	430	184	55 27	4 4	3344
3105 <b>NC-06</b>	31-00	AVERAGE	0	0	9	64 140	89 352	121 600	135 652	96 527	81 390	54 142	27 29	1	295 2841
Southern Coastal Plain	J_ 00	STD DEV	0	0	6	52	80	119	142	107	98	45	16	2	296
Couliforn Coasial Flaiii	31-60	AVERAGE	0	0	7	125	357	598	602	509	397	134	24	1	2754
1,44		STD DEV	0	0	4	45	75	125	148	112	120	38	14	1	281
my m	41-70	AVERAGE STD DEV	0	0 0	9 7	132 48	363 67	625 113	650 126	537 110	405 114	132 44	25 16	1 2	2879 289
	51-80	AVERAGE	0	0	9	148	365	609	674	553	402	136	29	2	2928
	51 00	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
	== 00	STD DEV	0	0	8	61	83	120	136	108	78	49	15	2	303
3106	71-00	AVERAGE STD DEV	0	0 0	9 5	153 59	339 90	591 119	675 137	526 102	378 78	147 50	32 17	2	2851 306
NC-07	31-00	AVERAGE	0	0	9	138	357	615	678	559	419	160	32	1	2968
Central Coastal Plain	51 00	STD DEV	0	0	6	50	79	120	142	108	102	47	18	2	308
Ochilai Odastai i iaili	31-60	AVERAGE	0	0	7	126	365	620	638	546	427	154	27	1	2912
7		STD DEV	0	0	5	45	73	123	149	110	126	44	14	1	303
The state of the s	41-70	AVERAGE STD DEV	0	0 0	9 7	130 46	369 68	645 112	683 120	571 104	437 119	153 45	30 19	1 2	3028 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
	E1 00	STD DEV	0	0	8	59	84	121	137	112	83	50	17	2	317
3107	\T-00	AVERAGE STD DEV	0	0	9 5	148 57	342 88	598 122	694 140	553 109	405 79	162 51	36 18	2 2	2947 320
NC-08	31-00	AVERAGE	0	0	11	154	382	644	715	600	461	196	49	3	3214
Northern Coastal Plain		STD DEV	0	0	8	52	82	121	142	107	104	53	24	4	301
	31-60	AVERAGE	0	0	10	146	393	656	678	586	468	189	41	2	3167
	41 70	STD DEV	0	0	7	47 147	74	125	154	110	129	53 105	19	2	293
and the same of th	<del>1</del> 1-/0	AVERAGE STD DEV	0	0 0	12   9	147 49	393 68	677 115	719 123	609 99	476 121	185 50	44 26	3 4	3265 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
	71 00	STD DEV AVERAGE	0	0 0	9 11	62 160	84 365	123 619	131 730	110 594	85 448	54 196	24 53	4	302 3180
3108	/1-00	STD DEV	0	0	6	60	93	122	136	108	78	196 56	23	4	3180
ND_01	31-00	AVERAGE	56	86	320	670	1183	1616	1821	1471	1269	741	388	162	9784
Northwest		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
	41 - 70	STD DEV AVERAGE	26 58	29 88	74 330	120 646	183 1174	199 1623	277 1850	241 1517	190 1345	128 757	105 423	58 183	705 9994
}	±1-10	STD DEV	25	88 36	93	113	1174	208	256	1517	220	129	423 85	183 56	585
The state of the s	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
	71 00	STD DEV	29	51 97	101	94	149	205	269	201	204	135	99 366	55 147	697
3201	11-00	AVERAGE STD DEV	63 38	87 50	327 82	693 67	1190 165	1628 226	1789 256	1395 231	1194 179	715 131	366 94	147 53	9593 738
		עמע עוי	1		٥٧	0 /	100	220	200	271	112	1 101			1 , 50



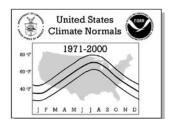
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

## **Heating Degree Days**

North Dakota Page 45

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ND-02	31-00 AVERAGE	56	88	321	686	1223	1694	1904	1551	1326	764	390	155	10156
North Central	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 STD DEV	57 25	90 38	334 85	661 114	1218 157	1703 197	1934 236	1604 153	1392 211	782 123	431 87	172 55	10378 560
has the	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
	71-00 AVERAGE	62	90	327	706	1220	1703	1868	1472	1264	738	363	143	9955
3202	STD DEV	37	49	75	74	168	219	250	221	192	138	96	54	737
ND-03	31-00 AVERAGE	49	81 39	308 78	679 105	1228 155	1727 199	1943 228	1587 217	1347 191	777 132	387 102	145 55	10259 677
Northeast	STD DEV 31-60 AVERAGE	28 44	39 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
7	STD DEV	23	35	84	113	142	180	211	155	202	131	89	56	547
1, m	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
	61-90 AVERAGE STD DEV	48 26	88 48	317 84	674 96	1207 141	1762 189	1942 239	1582 193	1328 197	760 132	381 110	136 57	10225 680
	71-00 AVERAGE	54	48 85	309	96 695	1230	1730	1911	1513	1288	132 743	352	130	10040
3203	STD DEV	33	46	69	75	164	221	235	217	182	141	102	52	723
ND-04	31-00 AVERAGE	48	70	288	636	1136	1555	1749	1414	1216	714	367	149	9341
West Central	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 STD DEV	51 26	72 31	303 86	615 115	1127 158	1561 196	1784 250	1462 156	1295 213	730 125	400 86	167 55	9567 571
1 ha	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
3204	STD DEV 31-00 AVERAGE	35 42	41 67	76 283	64 642	160 1175	220 1631	259	225 1493	164 1262	127 733	89 370	50	716 9672
ND-05	STD DEV	26	33	283 78	99	153	196	1833 246	226	187	125	98	140 53	681
Central	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
	41-70 AVERAGE	47	69	299	617	1159	1640	1859	1540	1324	748	411	159	9871
1 4	STD DEV	23	30	84	108	142	187	231	147	207	122	87	54	543
	51-80 AVERAGE STD DEV	44 24	71 39	293 85	630 110	1157 137	1636 190	1896 196	1512 173	1303 193	744 131	378 90	138 49	9802 520
	61-90 AVERAGE	39	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
3205	STD DEV	30	39	70	70	160	217	247	220	166	134	90	47	716
ND-06	31-00 AVERAGE	37	59	261	624	1166	1652	1864	1512	1260	719	343	116	9612
East Central	STD DEV	24	31	72	102	150	193	234	214	182	121	95 355	48	646
	31-60 AVERAGE STD DEV	32 19	53 24	248 67	612 115	1167 160	1627 183	1856 245	1555 222	1298 179	730 123	355 99	124 47	9657 639
	41-70 AVERAGE	38	57	269	592	1137	1652	1874	1546	1299	725	377	127	9693
1 4 1	STD DEV	19	27	78	108	136	178	223	148	204	123	85	49	548
my hard	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 71-00 AVERAGE	20 42	37 64	78 267	97 647	134 1183	186 1662	241 1845	193 1455	187 1216	124 694	97 315	49 108	630 9497
3206	STD DEV	28	37	64	73	153	215	237	219	164	126	91	47	696
ND-07	31-00 AVERAGE	51	65	287	624	1091	1452	1617	1307	1148	696	374	156	8868
Southwest	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
for I had	41-70 AVERAGE	54	67 29	300	609	1081	1446	1641	1335	1215	711	400	177	9036
	STD DEV 51-80 AVERAGE	26 55	28 72	91 301	113 621	152 1091	185 1458	251 1686	155 1321	199 1188	126 721	85 386	57 157	522 9056
5'	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
	71-00 AVERAGE	57	68	293	646	1106	1476	1594	1242	1083	682	364	146	8756
3207	STD DEV	38	43	79	61	165	219	253	227	152	111	85	50	701



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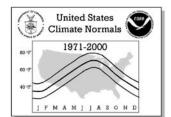
JGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

#### North Dakota – Ohio

**Heating Degree Days** 

Climate Division	El	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
ND-08		AVERAGE	41	53	254	602	1106	1519	1711	1384	1178	682	341	130	9001
South Central	21 60	STD DEV	27	30	77	97	153	199	260	228	181	118	91	51	649
	31-60	AVERAGE STD DEV	34 21	47 20	233 64	582 106	1098 160	1476 175	1708 276	1441 245	1227 173	674 121	338 105	134 55	8991 641
	41-70	AVERAGE	42	52	263	573	1088	1513	1731	1419	1239	685	364	144	9111
1 - 7 - 1		STD DEV	21	26	84	110	150	192	248	157	208	125	88	53	562
The state of the s	51-80	AVERAGE	43	57	266	596 109	1097	1526 199	1781	1401 191	1219 190	700	351 82	130 48	9165 553
	61-90	STD DEV AVERAGE	24 39	34 60	85 276	612	141 1098	1575	210 1711	1373	1152	121 681	345	125	9046
	01 00	STD DEV	22	36	86	95	139	203	267	196	182	122	85	49	653
	71-00	AVERAGE	47	58	265	633	1127	1542	1689	1319	1122	676	330	125	8933
3208	21 00	STD DEV	32	36	66	62	157	223	257	228	157	122	81	46	700
ND-09 Southeast	31-00	AVERAGE STD DEV	34 23	54 28	255 73	603 95	1119 143	1574 189	1773 234	1440 215	1199 178	685 115	336 92	113 47	9183 623
Southeast	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
my the	51-80	STD DEV AVERAGE	19 35	26 56	78 263	105 590	132 1101	174 1581	214 1835	141 1461	201 1241	113 695	85 344	49 112	470 9315
	31 00	STD DEV	21	31	77	108	128	182	184	173	190	120	84	45	489
	61-90	AVERAGE	30	58	269	609	1106	1616	1782	1434	1178	673	333	107	9194
	71 00	STD DEV	18	33	77	92	131	194	239	192	184	120	89	44	608
3209	1/T-00	AVERAGE STD DEV	36 27	56 33	256 64	626 68	1133 154	1586 216	1756 237	1380 223	1150 159	661 123	311 85	103 42	9054 688
OH-01	31-00	AVERAGE	4	18	103	393	746	1111	1236	1051	879	506	229	37	6314
Northwest		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
7	41 70	STD DEV AVERAGE	4 5	9 19	41 100	79 370	100 746	142 1124	161 1227	125 1053	153 896	99 494	64 235	21 36	395 6304
	41-70	STD DEV	5	12	41	86	86	142	151	1033	140	94	235 78	20	330
	51-80	AVERAGE	5	20	103	399	749	1117	1278	1082	896	496	231	39	6414
- 5 S		STD DEV	4	12	44	96	89	133	161	137	123	82	76	20	344
4-6-	61-90	AVERAGE STD DEV	5 4	22 12	110 42	416 100	731 85	1129 157	1297 177	1092 138	869 124	501 83	232 83	40 19	6443 355
The said	71-00	AVERAGE	5	21	112	416	736	1106	1271	1048	850	498	225	39	6327
3301		STD DEV	4	13	39	94	99	166	176	158	125	81	77	21	452
OH-02	31-00	AVERAGE	5	15	98	383	724	1085	1212	1040	881	520	239	39	6241
North Central	21 60	STD DEV AVERAGE	4	11 12	39 87	83 363	92 735	146 1080	166 1156	130 1024	136 902	90 532	74 238	22 36	390 6169
	31-00	STD DEV	4	10	37	74	735 95	140	162	120	150	101	430 63	22	377
	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
7.5	61-90	STD DEV AVERAGE	4 6	10 17	44 105	89 403	86 709	132 1100	150 1272	130 1078	125 871	86 515	74 244	23 44	328 6363
4 5 40	01 30	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
3302	21 00	STD DEV	4	11	36	89	97	159	167	149	131	84	76	24	432
OH-03	31-00	AVERAGE STD DEV	10 8	22 14	115 42	399 82	725 93	1075 143	1207 165	1051 131	900 135	538 90	258 76	51 26	6351 388
Northeast	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
	51-80	STD DEV AVERAGE	8 12	15 24	42 117	85 406	79 726	137 1082	149 1250	105 1083	141 913	97 533	81 266	24 57	331 6469
	31-00	STD DEV	7	14	47	89	88	134	150	131	128	88	75	27	336
1-4	61-90	AVERAGE	11	25	121	415	705	1083	1266	1084	881	538	264	58	6451
my Total		STD DEV	7	14	45	93	85	152	163	132	122	84	81	26	360
3303	71-00	AVERAGE STD DEV	11 7	23 15	124 38	420 85	712 98	1059 154	1230 168	1039 143	869 123	530 84	256 76	56 28	6327 430
OH-04	31-00	AVERAGE	6	19	102	389	732	1084	1204	1014	836	478	217	34	6116
West Central		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
	11 70	STD DEV	6	11	102	78	98 742	142	167	127	159	96 469	61 210	20	385
	41-/0	AVERAGE STD DEV	7 6	19 13	102 42	374 86	742 83	1104 145	1195 148	1021 112	855 147	468 94	219 75	34 18	6140 351
	51-80	AVERAGE	7	20	103	402	743	1093	1253	1052	854	471	221	38	6255
		STD DEV	4	1,1	45	94	89	137	159	147	136	85	74	21	360
4-[	61-90	AVERAGE	7	22	109	410	717	1103	1272	1059	823	474	222	38	6255
Mary Carlot	71-00	STD DEV AVERAGE	5 6	12 21	44 109	99 408	91 716	164 1077	173 1242	146 1012	130 809	83 471	80 216	19 36	372 6123
3304	/1-00	AVERAGE STD DEV	5	21 14	39	93	104	169	179	161	133	80	73	36 22	452
	1	01D DEV	l ,	11	رد	ا ا	T 0 T	109	113	T O T	100		1 3	22	1 124



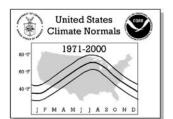
**Heating Degree Days** 

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Temperature, Precipitation, and Degree Days

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Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
OH-05	31-00 AVERAGE	4	13	92	364	703	1043	1158	973	798	449	195	27	5820
Central	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 61-90 AVERAGE	3 4	9 15	43   99	89 383	83 688	140 1056	164 1227	148 1015	131 781	82 448	67 201	18 31	366 5950
L 3 403	STD DEV	3	10	42	97	87	162	173	143	126	79	72	17	371
	71-00 AVERAGE	4	15	99	383	690	1029	1194	974	774	445	198	31	5837
3305	STD DEV	3	11	37	91	100	163	179	156	128	78	69	19	443
OH-06	31-00 AVERAGE	9	24	122	409	741	1089	1205	1029	863	511	243	51	6296
Central Hills	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 6	26 15	125 52	423 92	749 88	1102	1256 157	1065 141	878 132	505 84	251 76	58 26	6449 361
7 3	STD DEV 61-90 AVERAGE	11	28	131	92 431	725	141 1103	1275	1070	849	513	254	26 59	6450
Ly 3 400	STD DEV	6	16	49	101	89	158	171	138	126	77	80	25	372
La salar	71-00 AVERAGE	10	27	133	434	731	1082	1238	1027	836	504	246	55	6322
3306	STD DEV	7	16	42	94	102	160	178	152	129	78	76	28	446
OH-07	31-00 AVERAGE	8	21	115	407	726	1061	1177	1010	848	502	235	42	6150
Northeast Hills	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 STD DEV	8 7	22 14	111   41	385 83	729 78	1087 143	1173 154	1017 115	865 142	485 97	233 76	40 20	6155 314
	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
74	61-90 AVERAGE	8	22	117	421	710	1070	1240	1046	830	506	241	49	6258
my 2 5075	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
3307	STD DEV	6	14	41	90	100	161	174	147	124	80	74	26	458
OH-08	31-00 AVERAGE	2	8	71	326	654	985	1093	909	731	392	167	20	5356
Southwest	STD DEV	3	6	32	83	94	151	175	138	133	81	59	13	383
	31-60 AVERAGE STD DEV	2 4	6 6	62 31	304 71	666 92	981 143	1031 171	888 134	750 154	395 91	161 50	17 12	5263 382
7	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
- 5 3	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
7	STD DEV	3	6	35	98	88	163	175	141	119	78	66	14	361
2200	71-00 AVERAGE	3	9	81	351	644	981	1135 178	914	713	397 73	175	23	5425
3308 <b>OH-09</b>	STD DEV 31-00 AVERAGE	3 2	8	33 72	92 327	102 632	166 941	1037	152 863	118 688	364	63 153	15 20	410 5106
	STD DEV	3	7	32	81	89	147	173	133	130	78	57	14	363
South Central	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
7 _ 5	STD DEV	2	5 9	35 78	85	78	136	161	147	127	78	56	16	349
he shows	61-90 AVERAGE STD DEV	2 2	9 6	34	345 92	613 83	952 160	1104 162	904 132	669 114	368 77	161 60	24 14	5227 329
	71-00 AVERAGE	2	10	82	352	621	933	1072	866	671	373	167	25	5174
3309	STD DEV	3	8	30	88	98	159	167	137	118	76	62	17	379
OH-10	31-00 AVERAGE	6	15	93	371	689	1012	1114	944	773	436	196	35	5683
Southeast	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 16	39 98	87 202	76 704	146	164	121	146 792	87 426	67 202	18	382
	51-80 AVERAGE STD DEV	8 5	16 10	98 43	393 87	704 80	1027 144	1169 161	986 145	132	436 78	203 67	41 22	5873 371
	61-90 AVERAGE	8	18	103	396	677	1023	1191	990	760	448	209	43	5866
m 3 - 73	STD DEV	5	11	41	96	87	160	165	138	118	77	68	19	374
was.	71-00 AVERAGE	7	17	102	394	679	996	1146	943	754	441	208	41	5727
3310	STD DEV	5	11	33	91	100	156	170	146	119	76	67	21	422
				'										•



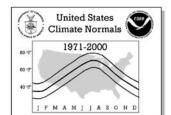
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

### **Heating Degree Days**

Oklahoma Page 48

OK-01	314 4644 335 4629 315 4625 300 4640 300 4615 315 4181 329
31-60 AVERAGE STD DEV 1 2 20 57 81 102 149 123 128 74 45 11   41-70 AVERAGE 0 1 1 38 229 618 902 973 762 677 307 106 14   51-80 AVERAGE 0 2 40 232 631 898 1000 766 641 298 105 12   STD DEV 0 3 26 74 87 93 149 128 134 76 47 8   STD DEV 0 3 24 71 88 119 149 122 121 86 46 11   STD DEV 0 3 24 71 88 119 149 122 121 86 46 11   STD DEV 0 3 26 52 103 117 139 138 87 89 46 11   STD DEV 0 3 26 52 103 117 139 138 87 89 46 11   STD DEV 0 3 26 52 103 117 139 138 87 89 46 11   STD DEV 0 3 20 55 92 122 151 137 125 71 33   STD DEV 0 3 20 55 92 122 151 137 125 71 33   STD DEV 1 2 17 57 87 96 156 127 139 68 32 4   41-70 AVERAGE 0 2 29 175 542 860 945 717 599 235 66   STD DEV 1 3 16 58 86 104 117 106 138 74 33 3   STD DEV 1 3 16 58 86 104 117 106 138 74 33 3   STD DEV 1 3 16 58 86 104 117 106 138 74 33 3   STD DEV 3 3 34 67 98 141 17 106 138 74 33 3   STD DEV 3 3 34 69 89 141 15 170 161 18 74 33 3   STD DEV 3 3 34 69 89 141 15 170 161 18 74 33 3   STD DEV 3 3 34 69 89 141 15 170 161 18 74 33 3   STD DEV 1 2 27 75 87 99 99 75 15 542 860 945 717 23 50 68 32   STD DEV 3 3 34 67 89 84 141 17 106 138 74 33 3   STD DEV 3 3 34 67 89 84 141 17 106 138 74 33 3   STD DEV 3 3 34 67 89 84 141 17 106 138 74 33 3   STD DEV 3 3 34 67 89 84 141 17 106 138 74 33 3   STD DEV 3 3 3 67 89 99 15 560 884 977 723 530 250 773 574 233 67   STD DEV 3 3 25 56 84 977 723 530 250 773 574 233 67   STD DEV 1 3 22 57 97 128 145 128 122 64 28   STD DEV 1 3 32 5 63 96 102 149 134 132 66 30   STD DEV 1 3 32 5 63 96 102 149 134 132 66 30   STD DEV 1 3 32 5 63 96 102 149 134 132 66 30   STD DEV 1 3 25 63 96 102 149 134 132 66 30   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91 142 159 131 114 66 31 4   STD DEV 1 3 25 68 91	4644 335 4629 315 4625 300 4640 300 4615 315 4181 329
STD DEV 1 2 2 20 57 81 102 149 123 128 74 45 11 41-70 AVERAGE 0 1 38 229 618 902 973 762 677 307 106 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	335 4629 315 4625 300 4640 300 4615 315 4181 329
## 41-70 AVERAGE  STD DEV  STD	4629 315 4625 300 4640 300 4615 315 4181 329
STD DEV 1 2 2 19 69 89 95 126 110 135 82 42 10 151-80 AVERAGE STD DEV 0 3 26 74 87 93 149 128 134 76 47 8 17 10 12 12 18 64 61 11 11 135 12 12 18 64 61 11 11 135 12 12 18 64 61 11 11 12 12 18 64 61 11 11 12 12 18 61 12 12 18 64 61 11 11 12 12 18 61 12 18 12 12 18 64 61 11 11 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 18 61 12 12 12 18 61 12 12 12 18 61 12 12 12 18 61 12 12 12 18 61 12 12 12 18 61 12 12 12 18 61 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 18 61 12 12 12 12 12 12 12 12 12 12 12 12 12	315 4625 300 4640 300 4615 315 4181 329
STD DEV	300 4640 300 4615 315 4181 329
STD DEV   0   3   24   245   614   936   1001   777   609   291   107   147   120   121   86   46   11   17   100   1777   609   291   107   14   149   122   121   86   46   11   17   100   120   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121   121	4640 300 4615 315 4181 329
STD DEV	300 4615 315 4181 329
North Central	4615 315 4181 329
3401	315 4181 329
North Central    STD DEV   0   3   20   55   92   122   151   137   125   71   33   43   43   44   44   45   45   45	329
STD DEV   1   3   1.60   2   2   1.66   5.53   8.37   9.27   71.9   5.80   24.5   71   4.6   71.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5   7.5	1
STD DEV	1 1100
## 1-70 AVERAGE   0   2   29   175   542   860   945   717   599   235   66   48   517   DEV   1   3   16   58   86   104   117   106   138   74   33   33   33   33   33   33   33	
STD DEV 1 3 16 58 86 104 117 106 138 74 33 67 51-80 AVERAGE 0 2 30 181 555 861 982 737 574 233 67 4 36 61-90 AVERAGE 0 2 32 191 547 900 990 751 546 233 67 8 517 DEV 0 2 22 2 57 86 137 159 146 119 77 32 4 71-00 AVERAGE 0 2 32 195 562 884 977 723 530 250 73 8 71-00 AVERAGE 0 3 34 177 517 817 925 694 526 213 58 AVERAGE 0 3 34 177 517 817 925 694 526 213 58 AVERAGE 0 2 28 164 529 793 896 691 549 219 58 31 51-80 AVERAGE 0 3 33 170 51 48 17 921 695 571 206 56 4 52 51 DEV 1 3 18 61 85 110 107 100 135 70 28 31 51-80 AVERAGE 0 3 36 188 497 846 965 726 511 199 59 58 51 51-80 AVERAGE 0 3 36 188 497 846 965 726 511 199 59 50 51 51 51 50 AVERAGE 0 3 38 188 512 832 943 691 491 215 61 51 51 51 51 61 51 51 51 61 51 51 51 51 51 51 51 51 51 51 51 51 51	
STD DEV 61-90 AVERAGE 0 2 32 191 547 900 990 751 546 233 67 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1
61-90 AVERAGE STD DEV 0 2 32 191 547 900 990 751 546 233 67 25 170 DEV 0 2 22 57 86 137 159 146 119 77 32 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
STD DEV	1
71-00 AVERAGE STD DEV 0 3 23 46 98 141 153 165 92 76 33 58	4264 315
3402	4236
Northeast    STD DEV   1   3   22   57   97   128   145   128   122   64   28   42   42   42   42   42   42   4	1
Notificast   31-60 AVERAGE   0   2   28   164   529   793   896   691   549   219   58   33   3170   58   90   107   140   123   137   64   26   33   33   173   514   817   921   695   571   206   56   43   41-70   AVERAGE   0   3   33   182   519   815   957   714   545   205   56   43   53   53   53   53   53   53   53	3969
STD DEV	
41-70 AVERAGE STD DEV 1 3 18 61 85 110 107 100 135 70 28 33 182 51-80 AVERAGE O 3 33 182 519 815 957 714 545 205 56 45 510 51 51 51 51 51 51 51 51 51 51 51 51 51	
51-80 AVERAGE	
STD DEV 1 3 25 63 96 102 149 134 132 66 30 4 61-90 AVERAGE 0 3 36 188 497 846 965 726 511 199 59 5 5 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	269
61-90 AVERAGE 0 3 36 188 497 846 965 726 511 199 59 59 59 50 510 510 510 510 510 510 510 510 510	
STD DEV 1 3 25 58 91 142 159 131 114 66 31 47 17-00 AVERAGE 0 3 38 188 512 832 943 691 491 215 61 59 131 114 66 31 491 215 61 59 131 114 66 31 491 215 61 59 131 114 66 31 491 215 61 59 131 114 66 31 491 215 61 59 131 114 66 31 491 215 61 59 131 114 66 31 491 215 61 59 131 114 51 131 114 66 31 491 215 61 59 131 114 51 131 114 51 131 114 70 31 491 215 61 59 131 114 70 31 491 215 61 59 131 114 70 31 491 215 61 51 61 51 61 61 61 61 61 61 61 61 61 61 61 61 61	
71-00 AVERAGE 0 3 38 188 512 832 943 691 491 215 61 59 107 147 154 151 86 65 30 40 108-108 151 151 151 151 151 151 151 151 151 15	
OK-04 West Central         31-00 AVERAGE STD DEV         0         1         28 28         174 174         538 538         836 836         912 912         688 536         536 233         63 63         536 233         63 63         536 233         63 63         536 233         63 65 65         536 233         63 65 65         536 233         65 65 233         65 65 65         64 32         65 32         67 32         32 32         33 41-70         67 32         32 32         33 41-70         69 32         61 41-70         69 32         69 34         61 32         69 34         69 34         63 32         63 32         63 32         63 32         63 32         63 32         63 32         63 32         63 32         65 32         65 32         65 32         65 32         65 32         65 32         65 32         67 32         32 32         65 32         67 32         32 32         33 32         65 32         41 32         67 32         32 32         33 32         65 32         42 42         62 42         42 42         42	3979
West Central  STD DEV	
31-60 AVERAGE 0 1 23 160 536 812 886 687 553 233 65 4 5 5 5 5 5 5 84 92 150 125 132 67 32 3 65 4 6 6 7 5 7 7 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8	1
STD DEV 1 2 15 55 84 92 150 125 132 67 32 34 170 AVERAGE 0 1 27 172 530 829 910 693 579 224 61 55 180 AVERAGE 0 1 28 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 48 175 543 830 939 706 551 224 62 62 62 62 62 62 62 62 62 62 62 62 62	1
41-70 AVERAGE 0 1 27 172 530 829 910 693 579 224 61 5 STD DEV 1 2 14 56 85 95 122 108 132 71 32 3 51-80 AVERAGE 0 1 28 175 543 830 939 706 551 224 62 4 STD DEV 0 2 21 60 88 95 146 137 129 69 34	1
51-80 AVERAGE 0 1 28 175 543 830 939 706 551 224 62 4 52 510 DEV 0 2 21 60 88 95 146 137 129 69 34	
STD DEV 0 2 21 60 88 95 146 137 129 69 34 3	
	1
01 90 11/11/11/10	
STD DEV 0 2 21 55 83 127 150 133 112 75 30 5	1
71-00 AVERAGE 0 2 31 186 548 855 930 684 510 242 66 6	4061
3404 STD DEV 0 2 22 44 96 128 143 151 84 75 31 5	
OK-05     31-00 AVERAGE     0     1     25     150     492     786     881     656     496     196     45     2       Central     STD DEV     0     2     17     50     91     117     142     127     117     60     23	
Central STD DEV 0 2 17 50 91 117 142 127 117 60 23 2 31-60 AVERAGE 0 1 21 141 503 770 858 657 520 202 48 2	
STD DEV 0 1 15 53 88 94 145 119 129 60 24 2	
41-70 AVERAGE 0 1 24 149 486 785 883 661 539 190 45 2	
STD DEV 0 2 13 53 86 101 112 100 130 64 23 2	
51-80 AVERAGE 0 1 25 154 494 782 909 673 509 188 44 2 STD DEV 0 2 19 57 93 94 143 134 130 62 25 2	
61-90 AVERAGE 0 1 27 158 476 812 916 684 480 183 43	
STD DEV 0 2 19 51 85 135 151 132 112 64 22 2	
71-00 AVERAGE 0 1 27 157 490 797 892 649 462 198 45	
3405 STD DEV 0 2 20 46 96 137 145 151 84 62 22 3	
OK-06     31-00 AVERAGE     0     2     24     149     463     744     840     628     466     176     41     2       Fast Central     STD DEV     0     3     17     52     93     120     139     120     115     55     23	1
East Central STD DEV 0 3 17 52 93 120 139 120 115 55 23 2 31-60 AVERAGE 0 1 19 140 479 726 810 624 489 179 41 2	
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	1
STD DEV 0 2 13 53 82 102 104 97 129 58 21 2	1
51-80 AVERAGE 0 2 23 152 463 739 869 644 481 168 39 2 STD DEV 0 2 20 58 95 93 144 127 128 56 24 2	
61-90 AVERAGE 0 2 26 156 439 767 878 657 449 164 40 2	
STD DEV 0 2 20 54 86 133 151 126 110 57 24 2	1 2204
71-00 AVERAGE 0 2 28 158 458 758 860 623 435 181 44	
3406 STD DEV 0 3 20 49 100 140 146 141 82 57 24 3	257 3548



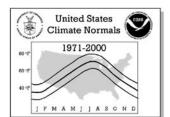
## Divisional Normals, 1971-2000 (and previous periods) CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

### **Heating Degree Days**

#### Oklahoma - Oregon

Climate Division	Ele	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
OK-07	31-00	AVERAGE	0	0	16	139	473	764	840	620	462	174	38	1	3527
Southwest		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
	41 50	STD DEV	0	0	10	50	79	83	138	114	123	54	24	1	302
	41-70	AVERAGE STD DEV	0	0 1	15 9	138 50	465 81	753 91	840 119	625 102	501 126	163 57	36 20	1 1	3538 258
	51_80	AVERAGE	0	0	16	142	81 476	755	863	633	470	162	20 36	1	3555
	31-80	STD DEV	0	1	15	55	88	89	136	126	124	58	22	1	265
manufacture	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
3407		STD DEV	0	1	15	44	92	120	129	136	72	61	22	2	291
OK-08	31-00	AVERAGE	0	0	14	120	422	693	786	574	418	146	27	1	3201
South Central	21 60	STD DEV	0	1 0	12	45	88	111	133	117	107	49	16	1	271
	31-60	AVERAGE STD DEV	0	0	11 9	111 46	430 85	672 89	757 135	569 108	436 117	144 46	27 16	0 1	3157 284
	41-70	AVERAGE	0	0	13	117	410	684	783	575	453	135	24	0	3195
	11 70	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
2400	71-00	AVERAGE	0	0	17	127	425	712	804	570	391	154	29	1	3231
3408	31 00	STD DEV AVERAGE	0	1 1	15 16	43 135	94 427	128 684	133 765	136 571	76 420	52 151	17 32	1	286 3204
OK-09	31-00	STD DEV	0	2	13	135 49	427 89	114	130	113	107	50	32 19	2	270
Southeast	31-60	AVERAGE	0	0	11	120	430	659	724	557	430	144	29	1	3106
	55	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
W 7 7 7 3		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
manner .	61 00	STD DEV	0	2	16	54	92	89	141	123	118	48	21	2	253
	61-90	AVERAGE	0	1 2	20 16	147 50	414 86	712	813 139	607 113	417 106	148 52	34 20	2 2	3315 244
	71-00	STD DEV AVERAGE	0	1	20	148	433	702	139 789	571	397	52 164	20 36	2	3263
3409	, 1 00	STD DEV	0	2	15	46	98	132	136	123	77	54	21	2	282
OR-01	31-00	AVERAGE	139	128	180	342	522	651	681	552	568	473	358	224	4816
Coastal Area		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
Lymn J	4.5 = -	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
	E1 00	STD DEV AVERAGE	37 148	34 139	40 180	49 344	58 522	66 652	101 694	78 550	57 593	56 499	48 376	46 232	314 4929
1	21-80	STD DEV	33	38	45	344 42	522 57	70	694 80	550 75	593	499 52	376 43	232 49	280
<b>5</b> 6)	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
3501		STD DEV	30	29	41	44	73	77	73	70	67	57	51	36	301
OR-02	31-00	AVERAGE	65	65	148	378	612	772	808	635	603	456	306	157	5006
Willamette Valley	21 62	STD DEV	29	28	48	58	79	78	116	83	76	69	65	48	335
	31-60	AVERAGE	68 30	73 25	152 45	374 66	624 75	759	838 137	662 84	625	446	297 67	163	5079
	41-70	STD DEV AVERAGE	30 68	25 75	154	66 387	610	76 766	137 836	84 635	83 634	70 474	67 317	48 166	377 5120
	11 /0	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
13 7)	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
2500	71-00	AVERAGE	61	57	142	379	608	785	780	620	578	452	306	156	4922
3502	21 00	STD DEV	29	28	49	53	88	87	91	76	71	66	65	140	316
OR-03	31-00	AVERAGE STD DEV	40 24	44 23	141 51	384 67	658 76	832 75	853 98	667 83	634 80	477 84	307 72	140 48	5176 320
Southwestern Valleys	31-60	AVERAGE	37	46	136	383	664	824	98 879	694	644	460	7 <i>2</i> 295	$\frac{48}{147}$	5209
		STD DEV	21	25	45	70	77	73	114	82	89	80	77	52	354
11 72 -5 /	41-70	AVERAGE	40	50	139	388	649	830	874	671	658	490	310	149	5248
1/11		STD DEV	24	25	50	72	66	67	93	82	66	86	70	54	263
1 A A A A	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
	71 00	STD DEV	24	22	57	71	63	80	80	76	71	91	56	46	261
	1/1-00	AVERAGE	42	41	144	384	658	834	822	647	619	478	313	139	5119
3503	71-00	STD DEV	27	22	55	68	81	83	77	77	79	81	70	45	323



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

Temperature, Precipitation, and Degree Days

### **Heating Degree Days**

Oregon Page 50

OR-04   Northern Cascades	Climate Division	FI	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
Northern Cascades																6355
31-60 AVERAGE 96 115 212 461 743 906 981 800 775 546 390 236 6 1					44									89		503
41-70 AVERAGE   108   128   232   503   744   923   985   780   794   608   436   250   6	Northern Odscades	31-60	AVERAGE	96	115	212	461	743	906	981	800	775	546	390	236	6260
STD DEV   41   42   68   93   73   85   117   94   85   84   78   68   69   31   79   69   61   78   623   44   243   68   61   77   765   792   623   44   243   68   61   77   765   792   623   44   243   68   61   79   77   765   792   623   44   243   68   77   77   77   77   77   77   77			STD DEV	38	44	60	107	81	91	133	93	106	105	99	75	653
S1-80 AVERAGE   106   128   234   490   747   916   974   765   792   623   444   243   6	11 1 5	41-70	AVERAGE							985						6490
STID DEV   39																480
61-90 AVERAGE   115   121   256   503   756   943   955   769   761   617   450   239   66   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   670   6		51-80								_						6461
71-00 AVERAGE 112 115 241 500 798 866 88 87 75 91 63 66 63 830 93 93 94 6776 749 602 439 253 6 6 84 775 91 83 87 89 82 82 78 61 87 87 87 87 87 89 82 82 78 81 81 81 81 81 81 81 81 81 81 81 81 81	(	61 00										- 1				396
STID DEV   10   AVERAGE   112   115   241   500   768   946   946   776   749   602   439   253   661		61-90														6484 343
STD DEV   45		71_00		_												6447
OR-05   High Plateau   173   203   371   642   926   1136   1181   967   961   766   575   556   8	3504	71-00								-		- 1				360
High Plateau		31-00								-				-		8256
31-60 AVERAGE   191   235   394   655   932   1133   1238   1015   1001   776   594   397   8   870   870   570   570   570   576   594   397   8   870   576   576   576   576   576   577   576   589   579   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576   576	High Plateau		STD DEV	58	62	83	80	93	101		109	95	97	89	78	477
A1-70 AVERAGE   180   229   380   655   913   1129   1206   968   997   786   589   379   8   870   951   51-80 AVERAGE   163   213   366   642   916   1123   1174   943   946   793   583   349   8   799   61-90 AVERAGE   163   186   369   644   921   1144   1135   937   945   767   570   321   8   8   791   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701   701	m	31-60	AVERAGE	191	235	394	655	932	1133	1238	1015	1001	776	594	397	8561
STD DEV   51			STD DEV			- 1										422
ST-80 AVERAGE   163   213   366   643   916   1123   1174   943   986   793   583   349   86   870   570   570   870   61-90 AVERAGE   163   186   369   634   921   1144   1151   937   945   767   570   321   88   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770   770	1) 1257 1	41-70														8410
STD DEV 50 64 82 74 75 103 106 89 885 92 85 79 870 AVERAGE 163 186 369 634 921 1144 1315 934 915 767 570 321 8 870 DEV 52 58 89 82 78 105 99 96 89 113 69 72 71-00 AVERAGE 155 170 346 625 930 1141 1315 934 915 741 554 223 7 870 DEV 60 53 83 77 106 101 108 105 92 102 89 74 207 AVERAGE 28 43 158 43 374 3950 1011 776 675 474 282 120 5 870 DEV 105 24 56 67 105 113 184 112 71 78 71 44 115 754 89 115 105 113 184 112 71 78 71 44 115 754 89 115 115 115 115 115 115 115 115 115 11	16 11 208			_												365
STD DEV   162   186   369   634   921   1144   1151   937   945   767   570   321   8   321   7   7   7   7   7   7   7   7   7		51-80														8249
STD DEV   52   58   89   82   78   105   99   96   89   113   69   72	{} <b>=</b>	61-00														320 8107
71-00 AVERAGE   155   170   346   625   930   1141   1135   934   915   741   554   322   750	(5)	01-90								_						351
STD DEV   19		71-00		_												7968
North Central   28	3505															407
STO DEV   15   19   41   41   41   41   41   41   41		31-00	AVERAGE	28	43	158	433	743	950	1011	776	675	474	282	120	5693
STD DEV   15	North Central			_												378
41-70 AVERAGE   27   49   156   438   740   936   1046   760   699   483   285   124   55   51   520   51   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520   520	m	31-60														5697
STD DEV 17 26 53 74 86 88 199 93 65 74 72 45 51-80 AVERAGE 27 51 165 443 752 933 1028 754 704 506 299 122 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10		44 50														398
STD DEV   16   29   59   65   91   96   183   87   64   78   69   50   50   50   50   50   50   50   5		41-70														5744 339
STD DEV 16 29 59 65 91 96 183 87 64 78 69 50 50 57D DEV 18 29 66 67 109 131 161 93 66 86 55 47 71-00 AVERAGE 30 39 165 445 739 972 981 766 660 476 290 123 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		51_80														5785
61-90 AVERAGE   31	1341	31 00														303
The first color   The first	(3 6)	61-90														5769
3506			STD DEV	18	29	66	67	109	131	161	93	66	86	55	47	335
OR-07   South Central   STD DEV   36   39   70   75   98   107   148   105   86   93   82   63   63   82   63   82   63   83   84   84   84   84   85   84   85   84   84		71-00	AVERAGE	30	39	165	445	739	972		766	660	476	290	123	5685
South Central    STD DEV   36   39   70   75   98   107   148   105   86   93   82   63   73   112   263   538   845   1038   1145   911   844   609   423   240   73   81   79   94   108   175   98   90   80   89   61   80   80   61   80   80   80   61   80   80   80   80   80   80   80   8				1												394
31-60 AVERAGE STD DEV 29 37 58 77 94 108 175 98 90 80 89 61 41-70 AVERAGE 78 115 265 549 843 1051 116 861 863 661 443 225 7 STD DEV 31 44 76 70 77 101 131 91 80 90 80 69 69 61 75 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 542 855 1081 1085 861 802 623 425 212 6 85 545 85 545 855 1081 1085 861 802 623 425 212 6 85 545 85 545 855 1081 1085 861 802 623 425 212 6 85 545 85 545 855 1081 1085 861 802 623 425 212 6 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545 85 545		31-00														6977
STD DEV	South Central	21 60														389 7040
A1-70 AVERAGE STD DEV 32 40 73 81 79 94 151 97 68 88 81 63 51-80 AVERAGE 72 110 261 547 843 1051 1116 861 863 661 443 225 7 810 DEV 31 44 76 70 77 101 131 91 80 90 80 69 80 69 81 81 81 81 81 81 81 81 81 81 81 81 81	m -	31-60														404
STD DEV   32   40   73   81   79   94   151   97   68   88   81   63   51-80   AVERAGE   72   110   261   547   843   1051   1116   861   863   661   443   225   7   77   101   131   91   80   90   80   69   61-90   AVERAGE   73   94   271   545   848   1087   1107   862   830   647   437   206   7   870   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208   208	1196-7	41-70				- 1										7092
STD DEV 61-90 AVERAGE 73 94 271 545 848 1087 1107 862 830 647 437 206 7						- 1										303
61-90 AVERAGE STD DEV 34 40 84 81 88 114 115 98 84 108 66 64 64 71-00 AVERAGE STD DEV 42 37 75 542 855 1081 1085 861 802 623 425 212 6 850 AVERAGE STD DEV 35 38 73 75 114 114 128 106 83 96 79 64 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	16.7	51-80	AVERAGE	72	110	261	547	843	1051	1116	861	863	661	443	225	7056
STD DEV 71-00 AVERAGE 72 85 255 542 855 1081 1085 861 802 623 425 212 6   STD DEV 42 37 75 75 114 114 128 106 83 96 79 64   OR-08 31-00 AVERAGE 65 94 273 566 885 1126 1195 943 855 617 413 219 7   Northeast 31-60 AVERAGE 59 102 267 551 891 1102 1227 989 888 612 408 234 7   STD DEV 23 31 59 78 107 121 190 133 94 74 95 65   STD DEV 25 37 75 83 81 92 171 116 79 78 81 64   STD DEV 25 37 75 83 81 92 171 116 79 78 81 64   STD DEV 22 42 81 68 79 100 149 113 85 84 72 61   STD DEV 31 43 87 79 90 136 138 122 89 99 55 58   STD DEV 31 43 87 79 90 136 138 122 89 99 55 58   STD DEV 31 43 87 79 90 136 138 122 89 99 55 58   STD DEV 45 41 76 69 113 139 149 125 87 87 70 58   OR-09 31-00 AVERAGE 13 31 183 482 848 1103 1176 890 759 516 288 120 6   STD DEV 5 14 46 74 98 133 175 132 82 86 75 47   STD DEV 5 14 46 74 98 133 175 132 82 86 72 86 48   STD DEV 5 14 46 74 93 128 206 137 86 72 86 48	// 5		STD DEV	31	44	76	70	77	101	131	91	80	90	80	69	271
71-00 AVERAGE STD DEV 42 37 75 75 114 114 128 106 83 96 79 64 70 70 75 75 114 114 128 106 83 96 79 64 70 70 75 75 114 114 128 106 83 96 79 64 70 70 75 75 114 114 128 106 83 96 79 64 70 70 70 70 70 70 70 70 70 70 70 70 70	13	61-90														7007
3507				_								- 1				350
OR-08 Northeast         31-00 AVERAGE STD DEV         65         94         273 35         566 38         885 75         1126 1195         1195 943         943 855         617 413         219 219         7           Northeast         31-60 AVERAGE STD DEV         59 23         102 267         267 551         891 891         1102 1227         1227 989         888 86         612 408         234 234         7           41-70 AVERAGE STD DEV         66 104 274         570 570 570         879 879         1116 1220         1227 943         897 639         427 427 427 428         7           51-80 AVERAGE STD DEV         61 25 31         102 42         274 42         574 42         888 42         1171 420         116 420         943 47         897 41         74 47         95 47         65 47         65 47         116 420         120 43         94 47         74 47         95 47         65 48         66 48         426 426         218 47         78 42         88 44         72 42         61 42         88 44         72 42         61 42         88 44         72 42         61 42         88 44         72 42         61 42         88 44         72 42         88 44         72 42         88 44         72 42         88 44         72 42         88 44         72	2507	1/T-00														6897
Northeast    STD DEV   35   38   73   75   103   124   164   133   93   85   79   61		31_00														411 7250
31-60 AVERAGE   59   102   267   551   891   1102   1227   989   888   612   408   234   7   570   23   31   59   78   107   121   190   133   94   74   95   65   7   7   7   7   7   7   7   7   7		21-00														434
STD DEV 23 31 59 78 107 121 190 133 94 74 95 65 41-70 AVERAGE 66 104 274 570 879 1116 1220 943 897 639 427 238 7 8 81 92 171 116 79 78 81 64 102 102 102 102 102 102 102 102 102 102	INOTHERSE	31-60														7331
STD DEV			STD DEV	23	31	59	78				133			95	65	457
51-80 AVERAGE   61   102   274   574   888   1117   1200   920   886   648   426   218   7   810   814   68   79   100   149   113   85   84   72   61   814   61-90   AVERAGE   69   92   289   578   878   1154   1193   919   844   629   424   203   7   810   814   810   814   810   814   810   814   810   814   810   814   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811   811		41-70														7371
STD DEV 22 42 81 68 79 100 149 113 85 84 72 61 61-90 AVERAGE 69 92 289 578 878 1154 1193 919 844 629 424 203 7 570 DEV 31 43 87 79 90 136 138 122 89 99 55 58 71-00 AVERAGE 71 86 275 576 889 1150 1173 916 814 603 411 208 7 570 DEV 45 41 76 69 113 139 149 125 87 87 70 58 504 500 AVERAGE 13 31 183 482 848 1103 1176 890 759 516 288 120 6 500 Southeast 31-60 AVERAGE 10 31 176 461 856 1069 1203 924 773 497 276 125 6 570 DEV 5 14 46 74 93 128 206 137 86 72 86 48																329
61-90 AVERAGE 69 92 289 578 878 1154 1193 919 844 629 424 203 7 STD DEV 31 43 87 79 90 136 138 122 89 99 55 58 71-00 AVERAGE 71 86 275 576 889 1150 1173 916 814 603 411 208 7 3508 STD DEV 45 41 76 69 113 139 149 125 87 87 70 58 STD DEV 45 41 86 1 74 98 133 175 132 82 86 75 47 31-60 AVERAGE 10 31 176 461 856 1069 1203 924 773 497 276 125 6 STD DEV 5 14 46 74 93 128 206 137 86 72 86 48	154	51-80														7313
STD DEV 31 43 87 79 90 136 138 122 89 99 55 58 71-00 AVERAGE 71 86 275 576 889 1150 1173 916 814 603 411 208 7 3508 STD DEV 45 41 76 69 113 139 149 125 87 87 70 58 OR-09 31-00 AVERAGE 13 31 183 482 848 1103 1176 890 759 516 288 120 6 Southeast STD DEV 14 18 61 74 98 133 175 132 82 86 75 47 31-60 AVERAGE 10 31 176 461 856 1069 1203 924 773 497 276 125 6 STD DEV 5 14 46 74 93 128 206 137 86 72 86 48	() ()	61-90														306 7270
71-00 AVERAGE 71 86 275 576 889 1150 1173 916 814 603 411 208 7 3508 STD DEV 45 41 76 69 113 139 149 125 87 87 70 58    OR-09 31-00 AVERAGE 13 31 183 482 848 1103 1176 890 759 516 288 120 6    Southeast 31-60 AVERAGE 10 31 176 461 856 1069 1203 924 773 497 276 125 6    STD DEV 5 14 46 74 93 128 206 137 86 72 86 48	5 1	01-90														400
3508		71-00														7171
Southeast  STD DEV																460
31-60 AVERAGE 10 31 176 461 856 1069 1203 924 773 497 276 125 6 STD DEV 5 14 46 74 93 128 206 137 86 72 86 48	OR-09	31-00														6409
31-60 AVERAGE   10 31 176   461 856 1069   1203 924 773   497 276 125   6 STD DEV   5 14 46   74 93 128   206 137 86   72 86 48	Southeast					- 1										415
	m	31-60														6402
	1 Comp	41 - 70				- 1	74 474		128 1063							425 6330
	1) (I-53)	41-10														280
		51-80				- 1										6390
	/3-5	32 00														280
	{	61-90														6463
STD DEV 10 22 74 77 88 147 145 123 80 100 58 43					22			88	147	145	123	80			43	426
		71-00														6452
3509 STD DEV 20 22 65 67 110 145 154 124 80 93 69 49	3509		STD DEV	20	22	65	67	110	145	154	124	80	93	69	49	451

## United States Climate Normals 1971-2000 J F M A M J J A S O N D

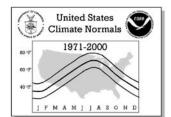
Section 3:

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

Temperature, Precipitation, and Degree Days

### **Heating Degree Days** Pennsylvania

PA-01   31-00 AVERAGE   19	Climata Division	Floment		ALIC	CED	OCT	NOV	DEC	LANI	FED	MAD	A DD	MAN	ILINI	ANINILIAI
Procono Mountains	Climate Division	Element	JUL I 10	AUG	SEP 177	OCT	785	1149	JAN 1270	1111	MAR	APR	MAY	JUN 72	ANNUAL 6951
1-00 AVERAGE   17			_												
STID BIN   12   23   48   86   91   115   155   119   150   95   66   66   30   407	Pocono iviountains														
STD DEV 12 22 24 84 85 77 113 143 140 137 90 80 30 380 380 51 50 50 50 50 50 50 50 50 50 50 50 50 50															
Si	1	41-70 AVERAGE	17	42	167	457	778	1171	1272	1116	969	571	287	67	6915
STD DRY   13   19   56   86   84   122   127   117   100   80   80   225   324		STD DEV	12	22	54	85	77	113	143	100	137	90	80	30	380
61-90 AVERAGE 21 43 133 503 778 1160 1221 1130 951 598 295 80 7062 770 DEV 1 10 22 555 91 84 134 133 116 94 77 777 77 289 771 07 AVERAGE 21 41 186 514 781 130 1288 1093 941 589 284 79 6945 784 784 784 784 784 784 784 784 784 784		51-80 AVERAGE	20		173	489		1161	1300	1131	975	582	298	75	7033
STD DEV   10   22   55   91   84   134   138   116   94   75   77   27   28   28   28   28   28   28	1 4 5-5														
71-00 AVERAGE 21 41 186 514 781 1130 1285 1093 941 889 284 79 694 PA-02 East Central Mountains 21:00 AVERAGE 6 15 109 400 693 1046 1157 999 845 489 214 36 607 18 607 19 31-00 AVERAGE 6 16 15 109 400 693 1046 1157 999 845 489 214 36 607 19 31-00 AVERAGE 6 16 17 26 31 88 91 11 51 11 11 11 11 11 11 11 11 11 11 11															
STD DEV   14   21   43   88   91   143   148   123   100   68   66   28   344		·-													
## PA-02 East Central Mountains  ## STID DEV   5   10   38   83   83   83   81   15   15   18   199   845   489   214   26   8070   ## STID DEV   5   10   38   83   83   83   83   83   83   8	2601														
East Central Mountains    STID DEV   5															
STD DEV   4   10   37   67   104   110   783   654   479   03   31   683															
STD DEV	Last Certifal Mountains														
SITID DEV   5   11		STD DEV	4	10	36	72	83	113	148	113	127	90	51	18	314
STO DEV   5   9   44   92   92   1144   1133   122   93   83   75   22   334   94   95   95   95   94   94   92   94   94   94   95   95   94   94   94		41-70 AVERAGE	6	17	109	385	698	1076	1165	1008	857	479	223	35	6058
STID DEV   5	- things														
61-90 AVERAGE   7   17   119   420   692   1062   1221   1034   843   506   229   42   6193															
STD DEV   13	1 4 3~ 3														
1-00 AVERAGE   6															
STD DEV   5   8   30   88   94   132   154   126   97   67   67   65   22   347															
PA-03   STD DEV   1	3602														
Southeastern Piedmont    Sur   DeV   1   4   27   77   79   119   150   115   109   72   53   9   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325   325															
31-60 AVERAGE  SITD DEV  1 3 25 70 70 76 114 152 1909 770 414 144 12 5221  41-70 AVERAGE  SITD DEV  1 4 29 70 65 131 318 99 770 461 405 156 13 5286  SITD DEV  1 4 29 70 65 131 318 98 117 80 59 8 33.9  51-80 AVERAGE  SITD DEV  1 4 29 70 65 131 318 98 117 80 59 8 33.9  51-80 AVERAGE  0 3 61 328 621 964 1091 932 762 408 164 16 5349  SITD DEV  1 4 31 84 77 124 137 109 95 75 59 10 296  61-90 AVERAGE  1 4 71 355 623 940 1097 917 749 425 165 17 5263  SITD DEV  1 4 24 83 87 127 44 137 19 99 63 55 14 322 168 16 5440  SITD DEV  1 4 24 83 87 127 44 137 19 99 63 55 21 13 31  PA-04  1 31-00 AVERAGE  1 7 80 355 658 992 1095 937 775 430 173 18 5521  SITD DEV  2 7 31 78 81 122 150 114 112 75 57 12 326  SITD DEV  3 31-60 AVERAGE  2 7 83 370 667 999 1046 923 786 426 158 15 5427  SITD DEV  41-70 AVERAGE  7 1-00 AVERAGE  9 10 14 39 996 13 120 999 740 415 180 215 55 18 322  41-70 AVERAGE  9 17 9 18 19 996 35 122 84 62 10 271  SITD DEV  3 7 28 81 12 12 150 111 119 99 63 75 75 62 13 282  SITD DEV  41-70 AVERAGE  9 17 9 18 19 19 126 120 99 75 62 13 282  41-70 AVERAGE  9 17 9 18 19 19 12 120 99 17 740 415 180 21 568  SITD DEV  3 7 28 8 7 380 656 971 1120 991 79 415 180 21 568  SITD DEV  3 7 28 8 7 380 656 971 1120 991 79 415 180 21 568  SITD DEV  41-70 AVERAGE  9 17 9 18 10 383 123 156 100 871 110 99 67 79 415 180 21 568  SITD DEV  5 13 45 87 99 119 126 120 99 75 62 13 282  41-70 AVERAGE  9 17 11 11 409 701 1053 1156 993 837 475 212 38 6009  SITD DEV  5 13 45 87 99 110 190 996 779 415 180 21 568  SITD DEV  5 13 45 87 99 110 191 110 99 63 79 91 19 12 120 991 75 62 21 38 6009  AVERAGE  5 10 AVERAGE  9 17 11 11 409 701 1053 1156 993 831 495 212 38 6009  AVERAGE  9 17 11 15 423 701 1071 1191 109 996 779 415 180 22 5584  SITD DEV  5 13 45 87 99 91 101 110 100 76 71 19 13 159 100 110 19 100 96 79 91 10 100 97 91 100 97 91 100 97 91 100 97 91 100 97 91 91 100 97 91 91 100 97 91 91 91 91 91 91 91 91 91 91 91 91 91			_												
A1-70 AVERAGE   STD DEV   1   4   29   70   65   61   31   31   30   55   920   764   405   156   13   5266	Southeastern Fleumont	31-60 AVERAGE	0	3	57	305	622	965	1021	909	770	414	144	12	5221
STD DEV STD DE		STD DEV	1	3	25	70	76	114	152	120	128	81	42	8	325
S1-B0 AVERAGE   0   3   61   32.8   62.1   964   1091   932   762   408   164   16   5349		41-70 AVERAGE	_	4		302	616	983	1065	920	764	405	156	13	5286
STD DEV 1 3 29 75 75 117 127 119 95 75 59 10 296 119 0 10 296 119 0 NVERRGE 0 4 69 343 615 967 1127 119 95 75 59 10 296 119 0 370 0 10 270 119 119 119 119 119 110 110 110 110 11	- Entry														
STD DEV   1			_												
STD DEV   1   4   31   84   77   124   137   107   90   69   57   10   268	7 5-														
71-00 AVERAGE  STD DEV  1 4 24 83 87 129 146 119 99 63 52 115 313  PA-04  Lower Susquehanna  31-00 AVERAGE  STD DEV  2 7 31 78 81 122 150 114 112 75 57 12 326  STD DEV  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  STD DEV  2 7 31 68 75 114 149 113 130 84 46 11 299  STD DEV  2 7 32 72 65 113 128 95 122 84 62 10 271  51-80 AVERAGE  STD DEV  2 7 32 72 65 113 128 95 122 84 62 10 271  51-80 AVERAGE  STD DEV  2 7 83 370 647 998 1149 956 779 415 180 21 5568  STD DEV  3 7 28 85 991 136 150 121 104 67 56 14 371  PA-05  Middle Susquehanna  31-00 AVERAGE  STD DEV  5 13 8 85 91 136 150 121 104 67 56 14 371  PA-05  Middle Susquehanna  31-00 AVERAGE  5 13 95 377 691 1049 1099 93 77 76 82 20 391  31-00 AVERAGE  5 13 95 377 691 1049 1099 94 75 62 23 38 6025  STD DEV  5 10 AVERAGE  5 12 45 82 69 120 145 100 847 468 217 88 6025  STD DEV  5 10 AVERAGE  5 13 95 377 691 1049 1090 963 832 457 191 31 5793  STD DEV  5 10 AVERAGE  5 13 95 377 691 1049 1090 963 832 457 191 31 5793  STD DEV  6 12 41 83 83 125 160 1154 100 847 468 217 38 6025  STD DEV  6 12 41 83 83 125 160 1154 100 847 468 217 38 6025  STD DEV  6 12 45 82 69 120 145 100 847 468 217 38 6025  STD DEV  6 12 45 82 69 120 145 100 847 468 217 38 6025  STD DEV  6 12 45 82 69 120 145 100 847 468 217 38 6025  STD DEV  6 19 AVERAGE  STD DEV  6 12 45 82 69 120 1154 100 00 76 71 19 312  31-00 AVERAGE  STD DEV  6 12 45 82 69 120 1154 100 00 76 71 19 312  5 10 AVERAGE  STD DEV  6 12 45 82 69 120 1154 100 00 76 71 19 312  5 10 AVERAGE  STD DEV  6 12 45 82 69 120 1154 100 00 76 71 19 312  5 10 AVERAGE  STD DEV  6 12 45 82 69 120 1154 100 00 76 71 19 312  5 10 AVERAGE  STD DEV  6 12 45 82 69 120 145 100 00 847 468 217 38 6025  STD DEV  6 13 45 87 88 1128 1166 100 100 76 71 19 312  5 10 AVERAGE  STD DEV  6 13 45 87 88 1128 1166 106 106 115 70 68 20 378  STD DEV  7 1-00 AVERAGE  STD DEV  8 10 40 40 40 40 40 40 40 40 40 40 40 40 40															
STD DEV   1   4   24   83   87   129   146   119   99   63   52   11   331															
PA-04 Lower Susquehanna    STD DEV   2   7   31   7   80   355   658   992   1095   937   775   430   173   18   5521	3603														
Lower Susquehanna    STD DEV   2   7   31   78   81   122   150   114   112   75   57   12   326   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336   336			1												
STD DEV 2 7 31 66 75 100 100 1119 956 779 415 180 21 5568		STD DEV	2	7	31	78	81	122	150	114	112	75	57	12	326
41-70 AVERAGE   1	Lower Gasquerianna	31-60 AVERAGE				332	663	999	1046	923	786	426	158	15	
STD DEV   2					-										
S1-80 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   282   282   282   283   287   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289   289															
STD DEV   2	L 5-443			-	-										
61-90 AVERAGE 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 71-00 AVERAGE 5 13 7 28 85 91 136 150 121 104 67 56 14 371 71-00 AVERAGE 5 13 95 377 691 1049 1090 963 832 457 191 31 5793 871 DEV 6 12 41 83 83 125 160 116 115 77 68 20 391 71-00 AVERAGE 7 18 108 389 700 1080 1154 1000 847 468 217 38 6025 71-00 AVERAGE 9 17 115 423 710 1071 1191 1024 855 479 232 44 6170 AVERAGE 9 17 115 423 710 1071 1191 1024 855 479 232 44 6170 AVERAGE 9 20 126 436 704 1068 1226 1037 843 496 234 48 6246 71-00 AVERAGE 8 18 121 435 710 1042 1190 995 830 480 220 44 6693 31-60 AVERAGE 28 57 195 13 32 84 89 136 156 120 108 71 64 22 378 71-00 AVERAGE 28 57 195 13 32 84 89 136 156 120 108 71 64 22 378 71-00 AVERAGE 28 57 195 513 807 1173 1292 1136 993 618 317 88 7095 AVERAGE 9 20 126 436 704 1068 1226 1037 843 496 234 48 6246 71-00 AVERAGE 8 18 121 435 710 1042 1190 995 830 480 220 44 6093 31-60 AVERAGE 28 57 195 513 807 1173 1292 1136 993 618 317 88 7095 AVERAGE 28 57 195 513 807 1173 1292 1136 993 618 317 88 7095 AVERAGE 22 48 177 484 809 1178 1251 1128 1008 610 302 78 7095 AVERAGE 22 48 177 484 809 1178 1251 1128 1008 610 302 78 7095 AVERAGE 31-60 AVERAGE 27 58 190 487 805 1199 1301 1146 1009 609 326 87 7245 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 64 209 533 800 1180 1343 1161 982 626 332 103 7364 71-00 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184 1325 1162 1008 618 336 99 7360 AVERAGE 33 62 202 524 807 1184															
STD DEV   2   5   34   89   79   129   140   111   93   71   61   12   279   120   140   111   93   71   61   12   279   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120	7														
STD DEV   3															
Middle Susquehanna    31-00   AVERAGE		71-00 AVERAGE		8	87							430	184		
Middle Susquehanna    STD DEV   5	3604	STD DEV	3	7	28	85	91	136	150	121	104	67	56	14	371
31-60 AVERAGE STD DEV 5 10 36 75 81 123 152 109 134 81 56 18 322 41-70 AVERAGE STD DEV 6 12 45 82 69 120 145 104 126 88 75 18 372 51-80 AVERAGE STD DEV 6 11 47 85 80 126 137 124 99 80 71 21 349 61-90 AVERAGE STD DEV 6 13 32 84 89 136 156 120 100 76 71 19 312 71-00 AVERAGE STD DEV 6 13 32 84 89 136 156 120 108 71 64 22 378 71-00 AVERAGE STD DEV 6 13 32 84 89 136 156 120 108 71 64 22 378 71-00 AVERAGE STD DEV 6 13 32 84 89 136 156 120 108 71 64 22 378 71-00 AVERAGE STD DEV 6 13 32 84 89 136 156 120 108 71 64 22 378 71-00 AVERAGE STD DEV 6 13 32 84 89 136 156 120 108 71 64 22 378 71-00 AVERAGE STD DEV 15 25 54 80 93 125 159 113 146 92 71 33 363 724 71-70 AVERAGE STD DEV 15 25 54 80 93 125 159 113 146 92 71 33 363 714 71 71 71 71 71 71 71 71 71 71 71 71 71	PA-05	31-00 AVERAGE	7	17	111	409	701	1053	1156	993	837	475		38	6009
31-60 AVERAGE   5   13   95   377   691   1049   1090   963   832   457   191   31   5793   31   31   31   31   31   31   31	Middle Susquehanna														
## 41-70 AVERAGE STD DEV 6 12 45 82 69 120 145 104 126 88 75 18 372   ## 51-80 AVERAGE 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   ## 85 80 126 128 146 110 100 76 71 19 312   ## 87 82 128 146 110 100 76 71 19 312   ## 87 82 128 146 110 100 76 71 19 312   ## 88 71-00 AVERAGE 8 18 121 435 710 1042 1190 995 830 480 220 44 6093   ## 87 82 128 146 110 100 76 71 19 312   ## 88 71-00 AVERAGE 28 57 195 513 807 1173 1292 1136 993 618 317 88 7217   ## 88 72 17   ## 88 89 136 156 120 108 71 64 22 378   ## 89 136 156 120 108 71 64 22 378   ## 89 136 156 120 108 71 64 22 378   ## 89 136 156 120 108 71 64 22 378   ## 80 93 131 157 118 126 85 80 35 388   ## 80 93 125 159 113 146 92 71 33 363   ## 80 93 125 159 113 146 1009 609 326 87 7245   ## 80 93 125 159 130 1146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 13 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 131 146 1009 609 326 87 7245   ## 80 93 125 159 133 1160 125 975 621 321 97 7262   ## 80 93 125 125 125 125 125 125 125 125 125 125	•														
STD DEV 6 12 45 82 69 120 145 104 126 88 75 18 372 55 80 126 137 124 99 80 71 21 349 61-90 AVERAGE 22 48 177 484 809 1178 125 1182 108 610 302 78 7095 127 DEV 5 13 46 704 1068 126 137 124 126 108 71 64 22 378 126 126 126 126 126 126 126 126 126 126															
STD DEV   Factor   STD DEV   STD D															
STD DEV 6 11 47 85 80 126 137 124 99 80 71 21 349 61-90 AVERAGE 5TD 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 81-00 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 13-00 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 64 209 533 800 1180 1343 1161 982 626 332 103 7364 STD DEV 17 26 57 99 86 138 149 116 105 84 84 36 339 71-00 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 71-00 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 71-00 AVERAGE 32 62 210 544 807 1158 1310 1125 975 621 321 97 7262															
61-90 AVERAGE 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 810 810 810 810 810 810 810 810 810 810	7-6-1														
STD DEV															
PA-06 Upper Susquehanna    31-00 AVERAGE   28   57   195   513   807   1173   1292   1136   993   618   317   88   7217		STD DEV													
PA-06         31-00         AVERAGE         28         57         195         513         807         1173         1292         1136         993         618         317         88         7217           Upper Susquehanna         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           51-80         AVERAGE         33         62         202         524         807         1184         1325         1162         1008         618         336         99         7360															
Upper Susquehanna    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   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095	3605														
31-60 AVERAGE   22   48   177   484   809   1178   1251   1128   1008   610   302   78   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095   7095															
STD DEV	Upper Susquehanna														
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 71-00 AVERAGE 32 62 210 544 807 1158 1310 1125 975 621 321 97 7262															
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 71-00 AVERAGE 32 62 210 544 807 1158 1310 1125 975 621 321 97 7262															
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 71-00 AVERAGE 32 62 210 544 807 1158 1310 1125 975 621 321 97 7262															
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 71-00 AVERAGE 32 62 210 544 807 1158 1310 1125 975 621 321 97 7262	-2 5 Est														
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 71-00 AVERAGE 32 62 210 544 807 1158 1310 1125 975 621 321 97 7262	43.50														
STD DEV 17 26 57 99 86 138 149 116 105 84 82 34 339 71-00 AVERAGE 32 62 210 544 807 1158 1310 1125 975 621 321 97 7262															
			17					138						34	
3606 STD DEV   19 27 45   95 91 149   155 129 119   81 76 38   429															
	3606	STD DEV	19	27	45	95	91	149	155	129	119	81	76	38	429



Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Temperature, Precipitation, and Degree Days

### **Heating 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	31-00 AVERAGE	19	44	166	481	776	1125	1233	1076	934	556	282	70	6763
Central Mountains	STD DEV	13	24	52	86	86 706	138	160	126	122	84	78	30	414
	31-60 AVERAGE STD DEV	17 13	42 24	159 49	460 80	786 88	1136 135	1187 163	1066 123	953 142	554 97	268 66	63 30	6690 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
7.7	51-80 AVERAGE	23	49	173	500	783	1145	1275	1110	951	558	300	81	6945
1 4 5~	STD DEV	14	24	61	90	87	135	137	128	115	80	82	31	347
	61-90 AVERAGE STD DEV	22 13	49 24	177 59	503 95	765 86	1133 142	1294 148	1109 122	925 102	568 75	300 81	82 27	6926 343
	71-00 AVERAGE	19	42	167	498	765	1100	1251	1060	910	551	286	74	6722
3607	STD DEV	12	22	43	91	90	147	158	131	109	74	77	32	436
PA-08	31-00 AVERAGE	8	25	128	426	731	1067	1169	1011	864	505	233	45	6211
South Central Mountains	STD DEV	7	16	44	84	88	135	158	118	122	82	69	23	363
	31-60 AVERAGE STD DEV	7 7	22 15	119 45	404 74	743 86	1072 127	1124 163	998 119	877 145	505 96	218 54	39 22	6128 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
<b>5</b> ~>	STD DEV	6	13	44	87	85	130	137	124	113	78	74	25	299
	61-90 AVERAGE STD DEV	8 5	26 14	129 44	438 95	710 79	1069 141	1217 150	1036 115	848 102	505 74	243 72	51 22	6279 283
	71-00 AVERAGE	10	28	136	451	79 725	1051	1195	1007	853	506	247	53	6261
3608	STD DEV	8	16	38	90	95	147	160	126	107	68	72	25	394
PA-09	31-00 AVERAGE	10	23	120	413	715	1045	1151	996	843	496	236	51	6098
Southwest Plateau	STD DEV	8	15	44	86	89	146	173	133	133	84	72	26	389
	31-60 AVERAGE STD DEV	7 7	19 13	107 43	384 74	722 87	1044 142	1089 174	975 132	861 157	489 98	220 55	42 24	5960 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
	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 STD DEV	12 8	27 16	131 48	438 97	706 87	1059 155	1226 160	1039 128	833 115	509 75	253 78	61 26	6295 335
	71-00 AVERAGE	12	26	130	442	710	1032	1182	993	824	503	248	59	6162
3609	STD DEV	9	16	38	92	98	156	171	140	119	72	74	29	433
PA-10	31-00 AVERAGE	27	48	167	474	787	1134	1262	1112	964	595	305	81	6955
Northwest Plateau	STD DEV	16	24	51	87	89	140	167	131	131	90	82	34	404
	31-60 AVERAGE STD DEV	20 14	40 22	148 49	446 78	791 90	1132 133	1207 171	1100 132	982 153	592 107	290 67	69 33	6818 385
	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
1 4 5~	STD DEV	16	22	58	92	88	135	148	133	125	87	83	36	384
	61-90 AVERAGE STD DEV	31 15	54 23	180 55	494 97	775 86	1147 148	1324 155	1143 126	952 115	602 80	318 86	95 32	7114 356
	71-00 AVERAGE	31	52	182	504	784	1126	1290	1104	944	596	313	91	7017
3610	STD DEV	16	24	41	91	96	155	163	137	120	77	84	37	433
RI-01	31-00 AVERAGE	5	15	105	372	637	982	1105	970	859	558	281	62	5952
Rhode Island	STD DEV 31-60 AVERAGE	5 6	11 16	35 100	67 359	74 637	117	130	104	85 971	64 563	59 282	24 64	330 5934
	STD DEV	4	16 12	32	359 62	73	990 114	1079 135	968 111	871 99	68	282 56	64 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 61-90 AVERAGE	5 6	12 15	41 113	67 384	73 634	118 991	119 1136	101 984	78 853	69 560	67 289	25 64	311 6028
	STD DEV	5	12	39	74	75	123	128	984	71	64	289 59	24	281
	71-00 AVERAGE	5	13	105	388	635	955	1113	958	840	549	270	58	5887
3701	STD DEV	4	8	32	74	79	123	124	109	76	61	52	25	335
SC-01	31-00 AVERAGE	8	16 10	65	277	533	791	838	695	575	297	134	27	4255
Mountain	STD DEV 31-60 AVERAGE	6 8	12 16	29 60	69 262	96 544	118 786	150 794	115 689	128 607	76 301	52 131	17 22	382 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
Trans >	STD DEV	5	8	26	58	79	114	129	130	144	61	45	13	349
V2.A	51-80 AVERAGE	6	11	58	271	521	780	847	700	569	267	119	26	4174
	STD DEV 61-90 AVERAGE	5 7	8 14	31 67	63 285	83 512	111 794	148 888	121 714	124 551	60 290	46 132	16 27	339 4282
	STD DEV	7	9	29	285 76	96	122	148	103	94	290 69	45	15	314
	71-00 AVERAGE	7	17	70	294	529	795	867	690	551	302	142	31	4294
3801	STD DEV	6	12	30	75	107	126	154	95	89	68	46	19	323

### **United States** Climate Normals 1971-2000

Section 3:

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

Temperature, Precipitation, and Degree Days

#### **Heating Degree Days** South Carolina

Climate Division	Ele	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
SC-02	31-00	AVERAGE	0	0	16	180	434	685	730	585	444	181	49	3	3308
Northwest		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
( ( ( ) )	F1 00	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
	61 00	STD DEV AVERAGE	0	0	11 19	54 194	76 419	103 689	133 784	108 610	104 432	49 185	27 55	3 4	259 3389
8	01-90	STD DEV	0	0	11	65	80	112	131	98	82	57	26	3	273
	71-00	AVERAGE	0	0	18	197	431	681	756	582	425	191	57	4	3342
3802	71-00	STD DEV	0	0	8	63	89	116	135	89	82	55	28	4	285
SC-03	31-00	AVERAGE	0	0	14	162	394	652	694	554	408	153	38	2	3070
North Central		STD DEV	0	0	9	56	81	117	138	106	102	50	22	3	295
North Contral	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
	61 0-	STD DEV	0	0	11	51	77	111	134	111	103	47	22	3	272
Pr	61-90	AVERAGE	0	0	16	177	380	650	748	581	398	158	43	3	3155
	71 00	STD DEV	0	0 0	11	64 170	83	116	134	101	80	55 160	21 45	3	282
3803	11-00	AVERAGE STD DEV	0	0	15 8	178 63	386 89	644 121	717 135	549 93	389 82	160 53	45 24	3	3086 284
SC-04	31-00	AVERAGE	0	0	6	127	333	574	621	490	351	117	24	1	2642
	31-00	STD DEV	0	0	5	48	81	118	140	106	95	41	13	1	287
Northeast	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
	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
Sur-	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
2004	71-00	AVERAGE	0	0	6	133	318	560	639	486	338	123	24	1	2628
3804	21 00	STD DEV AVERAGE	0	0	4 11	56 144	88 366	116 614	137 656	98 513	79 374	46 138	14 33	2	295 2850
SC-05	31-00	STD DEV	0	0	8	51	81	112	140	105	98	47	21	2	291
West Central	31-60	AVERAGE	0	0	8	124	364	603	599	488	382	128	26	1	2722
	31 00	STD DEV	0	0	7	44	75	112	143	114	116	40	15	1	275
	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
<b>3</b>	51-80	AVERAGE	0	0	11	153	373	616	677	539	384	130	34	2	2920
<b>▼</b> ~~ >		STD DEV	0	0	8	48	75	104	137	114	99	43	21	2	271
1	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
3805	21 00	STD DEV	0	0	6	56	89	116	132	93	83	51	24	3	279
SC-06	31-00	AVERAGE	0	0	6 5	121 46	330	569	613	476	334 94	107 40	19	1	2577
Central	21_60	STD DEV AVERAGE	0	0	5 5	110	79 338	117 569	139 563	105 456	343	101	13 16	1	282 2501
	21-00	STD DEV	0	0	4	42	338 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
	11 / 0	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
7		STD DEV	0	0	7	47	74	109	136	114	97	38	13	1	271
S Land	61-90	AVERAGE	0	0	7	131	319	566	668	505	328	111	22	1	2659
<u> </u>		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
3806		STD DEV	0	0	3	52	85	115	137	96	77	42	14	2	284
SC-07	31-00	AVERAGE	0	0	2	85	271	490	540	420	291	84	9	0	2194
Southern	21 62	STD DEV	0	0	2	37	75	111	133	104	87	33	7	1	270
	31-60	AVERAGE	0	0	2	79 24	281	493	495	402	300	79 26	8	0	2138
	11 70	STD DEV	0	0 0	2	34 85	69 206	118	135	112	104 309	26 79	6	0	252
Sul J	41-10	AVERAGE STD DEV	0	0	3	85 35	286 71	516 102	541 120	428 116	100	33	8 6	0 1	2254 266
(5)	51_00	AVERAGE	0	0	3	93	283	499	120 567	448	303	33 83	10	0	2289
	21-80	STD DEV	0	0	3	93 37	283 72	100	130	111	90	8 <i>3</i> 31	7	1	2289
	61-90	AVERAGE	0	0	3	89	263	488	594	449	287	88	11	0	259
	O T O		U												ı
•		STD DEV	Ω	U	٦ I	43	8.1	109	130	103	72 I	35	6	1	290
•		STD DEV AVERAGE	0	0 0	3 2	43 89	81 253	109 477	130 558	103 419	72 276	35 89	6 11	1	290 2174

## United States Climate Normals 1971-2000 60 -F 10 -F 10

Section 3:

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

Temperature, Precipitation, and Degree Days

#### South Dakota

**Heating Degree Days** 

						227	1101/								
Climate Division	_	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
SD-01	31-00	AVERAGE STD DEV	33 24	40 24	230 76	561 89	1022 146	1373 185	1506 243	1229 215	1084 170	649 108	340 89	130 52	8198 595
Northwest	31-60	AVERAGE	30	38	222	551	1011	1323	1499	1284	1138	658	344	140	8237
7	31 00	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
	71 00	STD DEV AVERAGE	17	26	84	91	138	196	244	189	161	106	75	120	578 8107
3901	/1-00	STD DEV	35 29	41 28	228 68	578 53	1040 162	1404 213	1496 240	1177 228	1023 142	633 103	331 78	120 44	662
SD-02	31-00	AVERAGE	32	39	219	561	1069	1491	1669	1354	1141	652	319	110	8655
North Central		STD DEV	24	24	72	92	143	195	247	225	178	111	88	46	629
1 TOTAL COMMAN	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 STD DEV	33 19	40 24	225 77	552 102	1059 127	1497 188	1729 200	1368 191	1180	663 111	325 76	108 45	8779 515
}	61_90	AVERAGE	29	42	235	568	1063	1544	1672	1341	188 1119	644	317	104	8677
2.00	01-90	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
3902		STD DEV	29	27	63	57	156	224	245	231	149	111	76	40	697
SD-03	31-00	AVERAGE	31	42	218	562	1087	1535	1725	1399	1160	659	311	96	8825
Northeast		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
	41 50	STD DEV	19	22	65	106	139	164	242	209	170	118	97	48	607
	41-70	AVERAGE	34	42	230 73	540	1066	1536	1739 208	1431	1205 204	666	337	108	8935
	51_80	STD DEV AVERAGE	19 32	23 43	226	103 558	126 1078	170 1549	1795	133 1429	1206	118 670	82 320	46 97	461 9003
1	31-00	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
d		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
3903		STD DEV	26	28	57	69	152	221	235	223	150	119	80	36	687
SD-04	31-00	AVERAGE	90	87	294	592	973	1221	1315	1101	1048	718	436	204	8077
Black Hills	21 60	STD DEV AVERAGE	45 72	40 69	91 259	104 546	132 949	146 1172	183 1295	155 1120	137 1067	111 691	99 410	71 191	612 7842
	31-60	STD DEV	46	34	87	109	135	121	204	180	144	124	118	84	737
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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
4 L		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
	E1 00	STD DEV	32	39	88	94	119	152	179	123	134	104	77	56	422
2004	71-00	AVERAGE	106	102	317	641	1008	1256	1324	1084	1015	736	457	212	8258
3904 <b>SD-05</b>	31_00	STD DEV AVERAGE	42 23	38 21	74 175	64 490	137 932	167 1252	173 1364	148 1105	104 979	98 590	298	104	483 7331
Southwest	31 00	STD DEV	18	14	65	90	134	162	209	192	154	103	82	47	492
Journ Mest	31-60	AVERAGE	19	17	161	471	925	1221	1369	1153	1031	596	300	109	7372
7		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
}	61 00	STD DEV AVERAGE	15	16	72	102	113	155	181	164	156	100	65 200	45	425
~~~	61-90	STD DEV	20 11	23 16	186 70	496 90	926 131	1296 176	1366 212	1095 163	950 144	571 96	290 70	94 36	7313 460
	71-00	AVERAGE	27	24	184	519	956	1269	1349	1064	918	583	297	99	7287
3905		STD DEV	21	16	59	51	152	196	210	197	121	93	72	40	543
SD-06	31-00	AVERAGE	22	24	166	486	975	1370	1517	1227	1040	584	276	88	7773
Central		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
7	41 76	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
	51_00	STD DEV AVERAGE	14 23	14 25	65 176	105 485	124 974	169 1386	210 1586	157 1253	201 1085	120 594	79 281	44 86	460 7954
	21-00	STD DEV	15	25 16	67	99	974 117	175	191	1253	185	103	281 70	41	468
}	61-90	AVERAGE	20	26	180	498	972	1423	1538	1229	1020	573	274	81	7833
- 7	- 20	STD DEV	12	17	65	83	122	184	243	191	165	100	74	35	543
	71-00	AVERAGE	26	26	169	511	999	1389	1510	1180	983	577	270	83	7723
3906		STD DEV	22	19	54	54	150	210	237	225	131	102	71	35	620
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# United States Climate Normals 1971-2000 1971-2000 1971-2000

Section 3:

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

Temperature, Precipitation, and Degree Days

#### South Dakota - Tennessee

**Heating Degree Days** 

Climate Division	El	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
SD-07		AVERAGE	29	35	199	530	1029	1466	1638	1320	1098	617	293	88	8340
East Central		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
	41 76	STD DEV	18	18	67	104	133	155	230	210	167	117	95	47	588
	41-70	AVERAGE STD DEV	31 17	35 19	214	513 102	1015 123	1468 161	1654 188	1346 136	1151 201	623 117	311 82	98 45	8459 415
	51_80	AVERAGE	28	34	207	527	1021	1478	1708	1349	1145	622	82 296	45 86	8500
	31-80	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
	4	STD DEV	14	22	66	90	112	184	233	184	176	107	77	36	548
	71-00	AVERAGE	32	39	202	554	1045	1481	1626	1273	1050	603	282	84	8271
3907		STD DEV	25	24	56	70	147	206	232	221	137	111	77	34	645
SD-08	31-00	AVERAGE	20	22	157	458	922	1275	1402	1137	984	565	270	81	7292
South Central	21 60	STD DEV	16	16	62	91	137	170	220	200	163	106	80	39	528
	31-60	AVERAGE STD DEV	16 13	16 11	140 58	433 102	908 127	1244 145	1398 238	1184 214	1030	562 117	268 92	81 46	7280 551
	41-70	AVERAGE	20	20	167	438	900	1277	1415	1155	1048	565	277	90	7373
	11 70	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
	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
2000	71-00	AVERAGE	24	26	165	490	950	1289	1388	1091	925	565	272	79 24	7263
3908	21 00	STD DEV	19	19	53 149	51 450	158 935	201 1349	220	204 1200	125 995	100	67	34	573 7454
SD-09	21-00	AVERAGE STD DEV	15 14	24 16	58	450 88	935 127	1349	1502 222	198	168	536 103	238 76	60 32	547
Southeast	31-60	AVERAGE	12	19	134	426	924	1309	1482	1236	1037	540	241	62	7422
7	31 00	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
	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
	71-00	STD DEV AVERAGE	8 18	17 27	57 154	85 477	109 958	178 1375	228 1495	174 1161	174   943	98 531	67 235	27 58	524 7432
3909	71-00	STD DEV	16	18	49	64	145	198	228	212	130	104	235 67	27	602
TN-01	31-00	AVERAGE	0	1	38	253	539	798	859	695	544	261	96	8	4093
Eastern		STD DEV	1	1	19	71	90	128	160	124	115	65	42	7	323
Lustoffi	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
	41-70	AVERAGE	0	1	38	243	554	816	851	702	563	243	87	8	4105
1 3 3	F1 00	STD DEV	1	1	20 38	69 269	79 552	121	142	142	134 558	71	39 99	7	336
1	21-80	AVERAGE STD DEV	1 1	1 1	22	269 68	552 81	809 123	896 152	727 137	115	253 63	99 44	11 8	4213 309
	61-90	AVERAGE	1	1	44	276	523	812	931	736	532	267	108	11	4243
	70	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
4001		STD DEV	0	1	18	78	99	127	157	104	91	65	46	8	311
TN-02	31-00	AVERAGE	1	2	50	261	548	808	886	718	565	273	110	11	4234
Cumberland Plateau	21 55	STD DEV	2	3	24	73	96	137	166	130	125	70	45	9	330
	31-60	AVERAGE	1	2	44	241	566	801	833	702	585	273	101	9 10	4157
	41-70	STD DEV AVERAGE	2 1	3	23 51	70 258	90 569	137 832	166 883	139 731	147 592	67 256	40 103	10 11	331 4291
	7 11 70	STD DEV	2	3	23	74	83	130	143	144	141	75	44	10	328
Jan	51-80	AVERAGE	1	2	51	282	566	820	929	752	583	262	113	14	4375
3		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
4002	21 25	STD DEV	1	3	23	77	104	135	168	117	99	69	49	9	327
TN-03	3T-00	AVERAGE	0	1	35	230	511	772	855 162	679 120	517	229	81	6	3917
Middle	31-60	STD DEV AVERAGE	0	2 1	19 28	71 205	91 517	136 752	163 792	128 657	122 523	65 218	38 71	5 4	341 3769
	31-00	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
3	7	STD DEV	1	3	17	68	78	129	141	138	139	65	35	5	335
and the second	51-80	AVERAGE	0	2	36	246	525	775	886	707	535	219	81	8	4019
2		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
			_	_		0									
4003	71-00	AVERAGE STD DEV	0	2 2	41 20	251 76	504 100	781 140	891 160	682 120	501 95	247 68	92 42	8 6	3998 322

# United States Climate Normals 1971-2000 60 77 40 77 J F M A M J J A S O N D

Section 3:

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

Temperature, Precipitation, and Degree Days

#### Tennessee – Texas

**Heating Degree Days** 

Climate Division		omont	JUL	AUG	QED.	OCT	NOV	DEC	IANI	EED	MAD	APR	MAY	JUN	ANNUAL
TN-04	31-00	ement AVERAGE	JUL 0	AUG 1	SEP 27	197	475	753	<b>JAN</b> 840	FEB 654	MAR 486	193	56	JUN 2	3683
Western	51 00	STD DEV	0	2	16	64	91	134	156	127	119	61	30	2	317
110000111	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
53 ~	E1 00	STD DEV	0	2	15	65 211	78 496	123	130	125	135	61	27	2	302
1	2T-80	AVERAGE STD DEV	0	1 2	28 18	211 68	486 87	755 112	872 153	681 143	504 132	184 57	56 33	2 2	3780 318
	61-90	AVERAGE	0	1	30	216	457	774	906	694	483	193	53 61	2	3817
		STD DEV	0	2	18	71	91	142	157	131	114	63	33	2	287
	71-00	AVERAGE	0	1	30	212	463	761	877	655	468	204	62	2	3735
4004		STD DEV	0	1	17	66	100	141	158	130	94	65	33	2	310
TX-01	31-00	AVERAGE	0	1	31	196	542	793	853	649	512	237	67	5	3885
High Plains	21 60	STD DEV	0	1	19	56	90	97	118	106	101	68	29	4	255
	31-60	AVERAGE STD DEV	0	0 1	27 16	186 53	549 80	776 91	840 124	653 107	527 104	241 64	70 27	4	3873 282
Lumin	41-70	AVERAGE	0	0	30	196	533	781	849	656	549	233	65	4	3896
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	11 70	STD DEV	0	1	13	59	89	88	116	102	114	70	28	3	258
1 2 Thomas	51-80	AVERAGE	0	1	32	200	549	777	863	661	524	231	66	4	3908
1 / Sa		STD DEV	0	2	21	66	94	86	124	113	117	69	31	3	242
74	61-90	AVERAGE	0	1	36	205	527	811	876	667	505	226	65	5	3925
~	71 00	STD DEV	0	2	21	64	89 546	107	119	99 627	107	73 241	29 69	4 5	224
4101	1,1-00	AVERAGE STD DEV	0	1 2	35 23	205 50	546 99	812 102	859 111	637 107	483 73	241 75	69 31	5 5	3893 245
TX-02	31-00	AVERAGE	0	0	13	115	405	664	729	537	384	135	26	1	3009
Low Rolling Plains	-1 00	STD DEV	0	1	11	45	86	99	122	108	102	51	15	2	259
LOW Noming Fiams	31-60	AVERAGE	0	0	10	106	409	646	710	537	401	136	26	1	2983
4		STD DEV	0	0	9	44	80	86	123	105	110	49	16	1	283
and the same of th	41-70	AVERAGE	0	0	11	114	394	645	724	537	414	126	24	1	2991
( tan 3 )	E1 00	STD DEV AVERAGE	0	0	7 14	44 120	81 413	87 647	113 744	95 545	115 389	50 126	13 25	1 1	248 3024
	21-00	STD DEV	0	1	14	53	93	84	130	114	116	51	16	1	257
137	61-90	AVERAGE	0	0	16	123	395	684	759	559	375	129	25	1	3065
W		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
4102	21 25	STD DEV	0	1	14	43	94	109	123	120	70	53	16	2	259
TX-03	3T-00	AVERAGE	0	0 0	5 5	78 36	324 82	562	640 123	462	313 94	95 37	13 10	0	2492 234
North Central	31-60	STD DEV AVERAGE	0	0	4	36 72	82 334	102 547	618	103 462	330	3 / 98	10 14	0	234
-	51 00	STD DEV	0	0	4	37	76	87	118	100	105	35	10	0	2477
	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
12 Just	51-80	AVERAGE	0	0	5	84	331	554	661	478	320	90	13	0	2536
778	61 00	STD DEV AVERAGE	0	0 0	7 6	43 84	89 307	89 580	135 675	112 486	103 302	40 87	10 12	0	228 2540
E	01-90	STD DEV	0	0	7	84 38	83	120	133	486 106	302 91	8 / 38	12 9	0	2540
	71-00	AVERAGE	0	0	6	81	323	577	648	451	286	100	14	0	2486
4103		STD DEV	0	0	7	35	89	115	128	113	62	39	10	0	251
TN-04	31-00	AVERAGE	0	0	2	72	285	495	565	404	266	77	9	0	2174
East Texas	21	STD DEV	0	0	3	34	77	106	126	101	83	34	7	0	251
	31-60	AVERAGE STD DEV	0	0 0	1	62 32	287 68	462 90	519 115	382 102	267 95	73 28	8 7	0	2060 242
- manual and a second	41-70	AVERAGE	0	0	2	32 68	68 275	480	554	402	283	28 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
1		STD DEV	0	0	4	42	83	90	139	111	88	32	7	0	250
74	61-90	AVERAGE	0	0	3	81	271	522	615	440	266	74	9	0	2282
	71 00	STD DEV	0	0	4   3	39	81	119	133	100	77	35	7	0	229
4104	/1-00	AVERAGE STD DEV	0	0 0	3	81 36	291 86	526 115	592 130	412 100	255 61	88 37	10 8	0	2259 247
TX-05	31-00	AVERAGE	0	0	9	97	370	586	616	430	294	96	13	0	2510
Trans Pecos		STD DEV	0	0	7	39	75	77	92	81	73	39	8	0	221
TIGHS I COOS	31-60	AVERAGE	0	0	9	93	382	582	607	426	306	102	15	0	2521
51	1	STD DEV	0	0	7	37	67	82	100	78	67	37	7	0	222
1 5 June	41-70	AVERAGE	0	0	8	103	382	594	629	446	327	96	13	0	2598
Things !	E1 00	STD DEV	0	0 0	5 9	40 109	62 391	82 597	109 624	87 459	73 311	39 96	6 15	0	195
	21-80	AVERAGE STD DEV	0	0	8	109 45	391 72	81	624 96	459 86	311	96 38	15 9	0	2610 177
127	61-90	AVERAGE	0	0	9	106	362	597	641	454	293	90	13	0	2565
W		STD DEV	0	0	8	44	75	76	80	75	82	43	9	0	181
	71-00	AVERAGE	0	0	9	97	356	587	611	417	264	94	13	0	2447
4105		STD DEV	0	0	9	38	87	71	79	73	58	44	10	0	218
L															

## United States Climate Normals 1971-2000 1971-2000

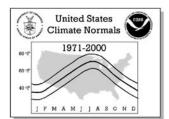
Section 3:

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

Temperature, Precipitation, and Degree Days

Heating Degree Days
Texas – Utah

Climate Division	Element	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
TX-06	31-00 AVERAGE	0	0	4	75	289	501	556	388	247	70	8	0	2138
Edwards Plateau	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
1 1	STD DEV	0	0	3	35	71	79	110	84	85	34	6	0	253
I E Limited	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
7)8	STD DEV	0	0	6 5	41 85	79	86	118 604	102	88	32 66	6 8	0	227 2266
E	61-90 AVERAGE STD DEV	0	0	6	39	286 79	536 104	108	426 90	251 81	31	6	0	180
-	71-00 AVERAGE	0	0	4	79	291	525	572	391	229	72	8	0	2170
4106	STD DEV	0	0	6	34	79	99	108	89	56	33	7	0	2170
TX-07	31-00 AVERAGE	0	0	0	28	176	347	421	284	165	31	2	0	1454
South Central	STD DEV	0	0	ő	20	62	92	111	84	63	19	2	0	212
South Schilar	31-60 AVERAGE	0	0	0	26	186	332	397	274	171	32	2	0	1419
1 4	STD DEV	0	0	0	19	54	77	105	82	71	19	2	0	217
1 Jumes	41-70 AVERAGE	0	0	0	29	173	336	421	287	182	27	1	0	1456
- 1-1-1-1 3 \	STD DEV	0	0	0	17	50	83	101	88	69	15	1	0	196
12 26-7	51-80 AVERAGE	0	0	0	33	183	347	433	298	165	27	2	0	1487
~ \-\ <b>3</b>	STD DEV	0	0	0	25	68	83	119	93	66	16	2	0	219
	61-90 AVERAGE	0	0	0	31	164	367	457	311	164	28	2	0	1524
3	STD DEV	0	0	0	24	67	110	116	85	60	17	2	0	201
4107	71-00 AVERAGE	0	0	0	29	174	364	427	282	149	33	2	0	1460
4107	STD DEV	0	0	0	22	71	103	116	83	44	19	2	0	224
TX-08	31-00 AVERAGE STD DEV	0	0 0	0	25 19	164	315	392 111	271	158   59	31 18	1 1	0	1357
Upper Coast	STD DEV 31-60 AVERAGE	0	0	0	19 23	61 173	87 298	362	85 256	164	18 32	1	0	208 1310
	STD DEV	0	0	0	16	53	69	108	84	67	18	2	0	207
- Lange	41-70 AVERAGE	0	0	0	24	160	307	395	275	174	27	1	0	1362
-456 51	STD DEV	0	0	0	15	46	76	99	90	65	15	1	0	196
1572	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
134	61-90 AVERAGE	0	0	0	27	152	338	433	304	159	28	1	0	1443
Q	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
4108	STD DEV	0	0	0	22	71	99	113	84	41	18	1	0	217
TX-09	31-00 AVERAGE	0	0	0	17	132	297	354	218	111	16	1	0	1145
Southern	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
15	STD DEV 41-70 AVERAGE	0	0 0	0	13 18	44 135	75 298	94 369	66 226	60 128	15 14	1 0	0	195 1189
	STD DEV	0	0	0	12	43	82	96	78	58	11	1	0	183
( 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	ő	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
4109	STD DEV	0	0	0	16	60	96	104	73	35	13	1	0	201
TX-10	31-00 AVERAGE	0	0	0	6	68	179	244	138	67	5	0	0	706
Lower Valley	STD DEV	0	0	0	8	36	72	86	58	38	5	0	0	162
	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
The same of the sa	41-70 AVERAGE	0	0	0	6	68	173	249	141	77	4	0	0	717
( frank ? )	STD DEV	0	0	0	4	27	66	86	63	42	3	0	0	173
V Day	51-80 AVERAGE	0	0 0	0	8 9	78 41	188	258	156 65	69 40	4	0	0	761
()>	STD DEV 61-90 AVERAGE	0 0	0	0	7	66	67 201	94 282	65 165	67	4	0	0	181 791
	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
4110	STD DEV	0	0	0	9	44	81	88	58	25	5	0	0	159
UT-01	31-00 AVERAGE	4	10	143	470	856	1153	1218	936	808	540	293	100	6531
Western	STD DEV	4	7	51	78	101	122	174	139	107	93	77	43	417
VVGGIGITI	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
1	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
5	STD DEV	2	9	58	76	95	114	149	113	104	81	77	37	287
K. /	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
4201	71-00 AVERAGE	4	8	142	478	851	1161	1188	907	753	525	287	85	6387
4201	STD DEV	5	6	44	72	98	126	156	114	99	100	70	39	404



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

Temperature, Precipitation, and Degree Days

### **Heating Degree Days**

Utah Page 58

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
UT-02	31-00 AVERAGE	0	0	19	190	522	785	812	594	482	271	98	9	3781
Dixie	STD DEV	0	1	15	67	88	94	119	107	99	85	46	7	324
	31-60 AVERAGE STD DEV	0	0	11 7	164 67	511 92	763 93	820 145	608 125	471 91	240 67	87 43	7 4	3682 314
	41-70 AVERAGE	0	0	18	185	516	791	820	599	510	279	99	11	3827
1 15	STD DEV	0	1	18	67	83	92	107	116	94	88	42	9	312
1/7/	51-80 AVERAGE	0	0	23	201	533	803	830	603	524	306	117	11	3952
1/51	STD DEV	0	1	17	56	75	99	97	101	101	80	48	9	271
	61-90 AVERAGE	0	0 1	27	212	528	812	827	600	511	302	112	10 9	3943 294
	STD DEV 71-00 AVERAGE	0	0	18 21	65 209	71 535	100 786	100 793	83 576	104 468	91 279	46 103	8	3778
4202	STD DEV	0	0	14	62	87	92	99	84	101	86	48	6	310
UT-03	31-00 AVERAGE	4	10	138	441	826	1121	1204	942	805	523	279	96	6388
North Central	STD DEV	5	8	53	83	105	118	167	141	114	97	78	42	442
	31-60 AVERAGE	3 2	8 4	124	419	830	1083	1212	955	823	503 89	272	98	6329
	STD DEV 41-70 AVERAGE	3	11	40 140	76 438	109 816	118 1109	188 1207	153 943	105 847	533	84 278	42 112	432 6438
	STD DEV	2	11	60	94	99	95	166	138	109	96	73	42	347
1 / 7 9	51-80 AVERAGE	3	13	146	449	829	1134	1196	940	842	555	288	99	6493
1/51	STD DEV	2	11	62	81	95	105	151	128	114	84	76	38	349
5	61-90 AVERAGE STD DEV	3 2	13 11	157 64	462 95	818 78	1167 111	1232 138	955 134	818 122	546 103	292 68	95 39	6559 398
	71-00 AVERAGE	4	10	142	95 455	78 834	1116	1194	934	766	524	68 286	39 87	6380
4203	STD DEV	7	7	50	76	107	119	158	131	109	103	74	39	483
UT-04	31-00 AVERAGE	12	26	177	501	856	1131	1198	953	859	605	357	133	6808
South Central	STD DEV	8	16	54	81	100	113	143	125	102	98	80	49	375
	31-60 AVERAGE STD DEV	12 7	24 13	162 45	485 72	852 105	1103 116	1209 169	978 147	866 97	580 89	349 82	134 47	6753 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 STD DEV	10 6	29 19	195 64	511 95	852 83	1162 115	1214 118	951 99	875 112	627 100	368 74	130 47	6923 345
	71-00 AVERAGE	11	25	182	518	869	1147	1185	936	832	612	365	124	6807
4204	STD DEV	9	12	48	81	95	113	129	99	100	104	78	49	380
UT-05	31-00 AVERAGE	61	97	312	642	1010	1303	1382	1146	1057	746	485	244	8486
Northern Mountains	STD DEV	29	35	66	79	110	118	141	133	121	96	81	66	466
	31-60 AVERAGE STD DEV	64 26	103 29	307 52	637 71	1024 119	1280 121	1412 154	$1177 \\ 147$	1094 112	739 93	486 89	255 66	8580 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
1/5	STD DEV 61-90 AVERAGE	20 57	36 102	71 327	81 649	102 996	112 1329	126 1387	123	119 1055	78 759	75 496	57 239	362 8540
5/_	STD DEV	20	38	79	96	84	117	122	1144 113	126	101	496 67	63	440
	71-00 AVERAGE	60	88	306	644	1010	1318	1355	1122	999	738	486	224	8348
4205	STD DEV	33	38	66	74	107	124	135	112	105	104	76	64	516
UT-06	31-00 AVERAGE	6	21	180	529	964	1361	1494	1162	908	570	299	102	7596
Unita Basin	STD DEV 31-60 AVERAGE	6 7	12 23	54 174	71 523	103 977	166 1339	221 1523	209 1205	128 944	92 574	73 307	41 113	601 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 61-90 AVERAGE	3 4	15 20	66 189	77 534	110 946	178 1395	206 1512	200 1159	129 905	74 569	65 300	38 93	523 7626
£7. /	STD DEV	3	15	68	89	103	169	207	193	130	98	60	40	553
	71-00 AVERAGE	6	17	175	533	966	1363	1458	1137	852	554	295	87	7443
4206	STD DEV	7	9	50	65	100	167	230	201	114	98	65	39	633
UT-07	31-00 AVERAGE STD DEV	0	3	76	379	792	1108	1187	885	733	450	200	41	5855
Southeast	31-60 AVERAGE	1 0	3 3	34 73	73 381	90 823	116 1111	157 1219	141 931	102 768	90 449	64 207	22 47	412 6011
77	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
177	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 61-90 AVERAGE	1 0	4 3	37 84	74 381	87 760	120 1115	139 1195	132 871	98 732	75 457	61 203	22 39	304 5838
	STD DEV	1	4	40	361 87	780	1115	146	109	110	93	203 54	23	333
	71-00 AVERAGE	0	2	72	379	778	1090	1147	849	678	434	193	32	5654
4207	STD DEV	0	1	31	73	87	109	157	111	99	93	58	20	387
	-													

## United States Climate Normals 1971-2000 60 -7 40 -7 J F M A M J J A S O N D

#### Section 3:

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

Temperature, Precipitation, and Degree Days

### **Heating Degree Days**

Vermont - Virginia

Northeastern    SITO DEV   27   36   64   86   95   154   160   132   124   90   85   39   404	Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
## 1500 AVERAGE ## 251 DEV 24 98 95 255 DEV 24 1399 1252 1349 1281 739 381 110 8562 ## 3170 AVERAGE ## 30 95 261 575 311 400 1551 3350 1164 733 400 114 8600 ## 3170 DEV 24 95 38 66 85 95 151 1351 1351 1351 1351 738 138 138 141 ## 3170 AVERAGE ## 30 95 261 575 314 1402 1551 3350 1164 733 400 114 8600 ## 3170 DEV 29 38 66 85 95 151 1351 1351 1351 1351 1351 1351 1	VT-01		_												
31-60 AVERAGE  11 - OF DEPT  12 - OF DEPT  13 - OF AVERAGE  13 - OF AVERAGE  14 - OF DEPT  15 - OF AVERAGE  15 - OF AVERAGE  15 - OF AVERAGE  16 - OF OF DEPT  16 - OF OF DEPT  17 - OF OF DEPT  18 - OF OF DEPT  18 - OF	Northeastern														
## 1-70 AVERAGE  ## 1-7															
STD DRV 29 41 88 76 91 131 131 116 129 89 92 39 30 30 16 6535 51 51 131 116 129 89 92 39 30 30 116 6535 51 51 131 131 131 131 131 131 131 13															
SI - 80 AVENAGES   50 93 272   598 917   1293   1558   1253   1155   738   390   116   8635	}														
STD DEV 29 38 66 85 95 151 145 127 109 80 94 80 38 38 38 66 85 95 151 145 127 109 80 94 86 125 8670 1															
61-90 AVERAGE   49   55   281   614   931   1395   1374   1377   1151   740   386   125   892   717-00   3VERAGE   53   96   295   645   944   1366   1562   1319   117   94   885   438   436   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00   717-00	1 7														
71-00 AVERAGE 71	) {	61-90 AVERAGE	49												
STD DEV   16   18   52   209   531   853   167   168   1025   1039   117   94   88   43   478															
VT-02    31-00   AVERADE   18   52   209   531   853   1276   1449   1268   1062   660   315   74   7786     Western     31-60   AVERADE   17   50   136   510   848   1278   1420   1257   1087   652   310   70   7694     A1-70   AVERADE   18   34   126   50   75   106   136   165   131   143   312   38   76   28   376     A1-70   AVERADE   18   34   126   679   510   136   165   131   143   312   38   76   28   376     A1-70   AVERADE   18   34   126   679   510   136   165   131   143   31   121   39   771   29   3704     A1-70   AVERADE   18   34   126   679   510   1424   1426   1276   1074   647   322   7774     A1-70   AVERADE   18   35   209   521   244   244   1427   1427   1427   1427   679   52   234     A1-70   AVERADE   18   35   209   521   244   244   1427   1427   1427   1427   1427     A1-70   AVERADE   18   52   219   83   85   167   161   147   117   93   73   28     A1-70   AVERADE   19   52   224   83   85   167   161   147   117   93   73   31     AVERADE   37   37   38   246   575   891   1223   1488   1276   677   309   78   784     A1-70   AVERADE   37   38   246   575   891   1223   1488   1276   147   177   93   73   31     A1-60   AVERADE   37   38   246   575   891   1223   1488   1276   147   177   7867     AVERADE   37   38   246   575   891   1223   1488   1276   147   177   7867   38     AVERADE   37   38   246   575   891   1223   1488   1276   147   177   7867   38     AVERADE   37   38   38   38   167   161   147   117   93   73   31   401     AVERADE   37   38   38   38   167   161   147   117   93   73   31   401     AVERADE   37   38   38   38   38   38   38   38	4301														
Western    STD DEV   14   24   54   83   95   148   126   133   123   88   76   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376   28   376			-												
11-60 AVERAGE   17   50   196   510   848   1278   1420   1257   1087   652   310   70   7694															l .
11-70 AVERAGE   18   54   196   494   832   1287   1495   1264   1074   644   325   71   7714		31-60 AVERAGE	17	50	196	510	848	1278	1420	1257	1087	652	310	70	7694
STID DIEV   14   28   56   72   91   138   155   110   126   87   82   28   343	7														
STD DEV 14 25 57 85 94 140 146 121 105 86 86 62 73 363 1302 870 140 140 151 105 86 86 86 77 365 1302 870 140 140 151 150 150 150 86 86 86 77 365 1302 870 150 140 140 151 150 150 150 150 150 150 150 150 15															l .
STD DEV   14   25   57   85   94   140   146   131   105   86   86   27   363														-	l .
61-90 AVERAGE   16   52   215   538   854   1293   1490   1298   1076   664   315   77   7867   7867   7867   7700 AVERAGE   19   52   224   566   862   1260   1463   1263   1077   667   309   78   7841   7870   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867   7867	4/														l .
SITID DEV				52	215	538				1288			315	77	7867
302   STD DEV   15   20   49   83   85   167   161   147   17   93   75   31   401		STD DEV	11	24	56	87	86	162	165	129	107	91	79	28	305
VT-03   31-00 AVERAGE   33   75   243   579   868   1289   1438   1249   1084   688   853   102   8000	4200								1					-	
Southeastern    STD DEV   19   33   56   79   90   142   154   127   116   89   79   34   444     STD DEV   19   33   57   74   96   135   160   134   137   99   76   36   1048     41-70   AVERACE   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     STD DEV   21   37   63   71   86   136   139   114   125   1081   68:3   365   108     61-90   AVERACE   35   77   243   572   855   1295   1447   125   1081   68:3   365   108     71-00   AVERACE   31   73   244   581   852   1289   1463   1247   1061   68:2   552   107   7979     STD DEV   18   33   64   82   85   133   127   115   100   81   87   37   349     71-00   AVERACE   27   65   243   594   848   1243   421   1205   1041   668   259   2707     71-00   AVERACE   27   65   243   594   848   1243   421   1205   1041   668   239   95   777     AVERACE   31   73   244   581   852   1243   424   421   1205   1041   668   239   95   777     AVERACE   37   38   38   38   38   38   38   38	4302								-					_	
31-60 AVERAGE 370 DEV 19 33 57 74 96 135 160 137 1127 705 365 108 8168 41-70 AVERAGE 37D DEV 19 33 57 74 96 135 160 137 1127 705 365 108 8168 41-70 AVERAGE 37D DEV 21 37 63 71 86 136 139 114 127 99 76 36 444  41-70 AVERAGE 37D DEV 21 37 63 77 186 136 139 114 128 99 76 37 189 189 189 189 189 189 189 189 189 189															
SID DEV 19 33 57 74 96 135 160 134 137 99 76 36 44 141 141 70 AVERAGE 37 84 241 558 869 1327 1461 1266 1104 690 375 106 8127 8150 DEV 1 37 63 71 86 136 139 114 123 95 87 37 389 15-80 AVERAGE 35 77 72 43 572 855 1295 1447 1255 1081 683 365 105 8012 77 77 87 87 87 87 87 87 87 87 87 87 87	Southeastern		_						_						
41-70 AVERAGE   STD DEV   21   37   63   241   558   869   1327   1461   1276   1104   690   375   106   8127   37   389   51-80   AVERAGE   51-80   AVERAGE   31   73   64   82   85   1295   1447   1255   1081   683   365   105   8012   375   37   389   385   385   138   138   1247   1061   682   352   105   797   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349   349		STD DEV	19	33	57	74	96	135	160	134	137	99	76	36	444
S1-80 AVERAGE   STD DEV   21   33   64   82   85   1295   1447   1255   1081   663   365   105   8012	{	41-70 AVERAGE	37	84	241	558	869	1327	1461	1276	1104	690	375	106	8127
STID DEV 21 33 64 82 85 133 127 115 100 81 87 37 349 61-90 AVERRAGE 31 73 244 581 852 1289 1481 1247 1061 682 352 105 730 149 1401 141 144 114 87 84 80 31 326 71-00 AVERAGE 27 65 243 594 848 1243 1421 1205 1041 668 329 95 7777 1700 AVERAGE 27 65 243 594 848 1243 1421 1205 1041 668 329 95 7777 1700 AVERAGE 27 65 243 594 848 1243 1421 1205 1041 668 329 95 7777 1700 AVERAGE 27 65 243 594 848 1243 1421 1205 1041 668 329 95 7777 170 170 AVERAGE 27 65 243 594 848 1243 1421 1205 1041 668 329 95 7777 170 170 170 AVERAGE 27 65 62 64 85 82 151 152 92 81 70 35 408 170 170 170 170 170 170 170 170 170 170	{   _5														
STD DEV   18   33   60   87   83   141   144   114   87   884   80   31   31   32   32   33   341   341   341   3463   3464   347   3463   3464   3463   3464   3465   3465   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3466   3	), ( <b>1</b>														
STD DEV 18 33 60 87 83 141 144 114 87 84 80 31 326 7700 AVERAGE 7700 A															
71-00 AVERAGE   27 65 243 594 848 1243 1421 1205 1041 668 329 95 7777  VA-01   31-00 AVERAGE   0 0 19 199 455 744 829 705 558 274 75 4 3663  Tidewater   31-60 AVERAGE   0 0 12 60 80 124 147 112 106 64 31 4 307  STD DEV   0 0 12 60 80 124 147 112 106 64 31 4 307  STD DEV   0 0 12 56 71 126 160 117 130 67 27 3 318  STD DEV   0 0 12 56 71 126 160 117 130 67 27 3 318  STD DEV   0 0 12 56 65 118 132 98 123 61 34 4 299  STD DEV   0 0 12 56 65 118 132 98 123 61 34 4 299  STD DEV   0 0 12 56 65 118 132 98 123 61 34 4 299  STD DEV   0 0 12 56 65 118 132 98 123 61 34 4 299  STD DEV   0 0 12 56 65 118 132 284 81 5 3977  STD DEV   0 0 13 69 82 126 133 113 86 61 31 4 286  T1-00 AVERAGE   0 0 19 211 448 721 847 696 540 267 78 5 3831  VA-02   31-00 AVERAGE   0 1 40 261 521 813 881 734 580 279 92 7 4209  Eastern Piedmont   31-60 AVERAGE   0 0 41 286 529 842 877 743 594 266 84 7 4232  STD DEV   0 1 22 68 66 120 134 101 133 63 39 6 311  STD DEV   0 1 22 68 66 120 134 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 70 82 126 149 112 113 64 37 6 318  STD DEV   0 1 22 68 66 120 134 101 133 63 39 6 311  STD DEV   0 1 22 68 66 120 134 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  AVERAGE   0 1 44 273 508 815 941 763 571 287 100 8 4310  STD DEV   0 1 22 82 84 81 101 133 63 39 6 311  STD DEV   0 1 21 59 80 125 115 115 14 66 29 6 302  VA-03   31-00 AVERAGE   0 1 44 273 508 815 941 763 571 287 100 8 4310  STD DEV   0 1 22 82 84 81 101 133 114 100 64 43 4 29 329  STD DEV   0 1 24 82 73 82 124 149 112 14 85 64 36 7 238  STD DEV   0 1 24 82 73 82 124 149 112 144 85 64															
NA-01   STD DEV   15   25   44   85   82   151   155   122   92   81   70   35   408		71-00 AVERAGE	27	65	243	594	848	1243	1421	1205	1041	668	329	95	7777
Tidewater    STD DEV   0	4303	STD DEV	15	25	44		82	151	155	122	92	81	70	35	408
31-60 AVERAGE   0	VA-01								1						
STD DEV	Lidewater								I						1
### A 1-70 AVERAGE STD DEV 0 0 19 185 457 772 827 710 571 264 71 4 3879   ### STD DEV 0 0 12 56 65 118 132 98 133 61 34 4 299   ### STD DEV 0 0 12 59 75 121 124 117 103 64 33 4 277   ### STD DEV 0 0 12 59 75 121 124 117 103 64 33 4 277   ### STD DEV 0 0 13 69 82 126 133 113 86 61 31 4 286   ### STD DEV 0 0 13 69 82 126 133 113 86 61 31 4 286   ### STD DEV 0 0 13 69 82 126 133 113 86 61 31 4 286   ### STD DEV 0 0 9 67 92 129 139 114 80 64 30 5 309   ### VA-02   ### STD DEV 0 1 20 70 82 126 149 112 113 64 37 6 318   ### STD DEV 0 1 20 70 82 126 149 112 113 64 37 6 318   ### STD DEV 0 1 19 61 72 126 155 115 141 66 29 6 302   ### STD DEV 0 1 124 85 529 842 877 7743 594 266 84 7 4232   ### STD DEV 0 1 22 68 66 120 134 101 133 63 39 6 311   ### STD DEV 0 1 22 68 66 120 134 101 133 63 39 6 314   ### STD DEV 0 1 22 68 66 120 134 101 133 63 39 6 314   ### STD DEV 0 1 22 88 815 941 763 571 287 100 8 4310   ### STD DEV 0 1 22 88 815 941 763 571 287 100 8 4310   ### STD DEV 0 1 22 88 815 941 763 571 287 100 8 4310   ### STD DEV 0 1 22 88 815 941 763 571 287 100 8 4310   ### STD DEV 0 1 22 88 84 130 137 115 90 64 37 6 318   ### STD DEV 0 1 17 77 96 129 142 114 85 64 36 7 328   ### VA-03 Western Piedmont   ### STD DEV 1 1 22 73 82 124 145 108 112 64 32 7 289   ### VA-03 Western Piedmont   ### STD DEV 1 1 23 75 751 512 703 904 727 566 279 102 9 4208   ### STD DEV 1 1 23 75 751 512 703 904 727 566 279 102 9 4208   ### Western Piedmont   ### STD DEV 1 1 23 75 751 512 703 904 727 566 279 102 9 4208   ### STD DEV 1 1 23 75 751 510 81 110 140 64 32 7 289   ### VA-03 Western Piedmont   ### STD DEV 1 1 23 75 751 517 103 131 70 43 7 304   ### STD DEV 1 1 23 75 751 117 130 114 109 64 44 4 9 279   ### STD DEV 1 1 23 75 751 80 815 761 595 270 106 13 4340   ### STD DEV 1 1 23 75 751 117 130 114 109 64 44 4 9 279   ### STD DEV 1 1 23 75 751 80 815 751 58 86 64 22 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8									I						
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S1-80 AVERAGE   O	1	STD DEV	0	0	12	56	65	118	132	98	123	61	34	4	299
61-90 AVERAGE STD DEV O 13 69 82 126 133 113 86 61 31 4 286 710 AVERAGE O 0 19 67 92 129 139 114 80 64 30 5 3831 1401 STD DEV O 1 20 70 82 126 137 114 80 64 30 5 3831 1401 STD DEV O 1 20 70 82 126 149 112 113 64 37 6 318 31-60 AVERAGE O 0 19 67 92 129 139 114 80 64 30 5 4120 AVERAGE STD DEV O 1 19 61 72 126 155 115 141 66 29 6 302 AVERAGE STD DEV O 1 19 61 72 126 155 115 141 66 29 6 302 AVERAGE O 0 41 248 529 842 877 743 594 266 84 7 4232 STD DEV O 1 21 69 77 124 129 119 112 62 39 7 293 61-90 AVERAGE O 1 14 275 512 793 904 727 566 279 100 9 4208 AVERAGE O 1 1 41 275 512 793 904 727 566 279 102 9 4208 AVERAGE O 1 1 12 22 82 84 130 137 115 90 64 37 6 318 AVERAGE O 1 1 17 77 96 129 142 114 85 64 36 7 328 AVERAGE O 1 1 12 27 3 82 126 135 108 114 85 64 36 7 328 AVERAGE O 1 1 12 27 3 82 124 145 108 112 64 37 6 318 AVERAGE O 1 1 12 27 3 82 124 145 108 112 64 37 6 318 AVERAGE O 1 1 12 27 3 82 124 145 108 112 64 37 6 318 AVERAGE O 1 1 12 27 3 82 124 145 108 112 64 32 7 28 100 AVERAGE O 1 1 1 22 73 82 124 145 108 112 64 42 8 329 AVERAGE O 1 1 1 22 73 82 124 145 108 112 64 42 8 329 AVERAGE O 1 1 1 22 73 82 124 145 108 112 64 42 8 329 AVERAGE O 1 1 22 86 67 0 117 125 103 131 70 43 77 205 AVERAGE O 1 1 21 69 77 124 114 85 64 36 7 328 AVERAGE O 1 1 22 73 82 124 145 108 112 64 42 8 329 AVERAGE O 1 1 22 73 82 124 145 108 112 64 42 8 329 AVERAGE O 1 1 22 73 82 124 145 108 112 64 42 8 329 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 66 70 117 125 103 131 70 43 77 205 AVERAGE O 1 1 23 72 73 117 130 114 109 64 44 9 279 61-90 AVERAGE O 1 1 50 280 536 823 905 761 595 270 106 13 4340 71-90 AVERAGE O 1 50 42 293 557 809 906 731 576 285 118 13 4311	1 3/2								1						1
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VA-02 Eastern Piedmont  31-00 AVERAGE STD DEV 0 1 20 70 82 126 149 112 113 64 37 6 318 31-80 AVERAGE STD DEV 0 1 19 61 72 126 155 115 141 66 29 6 302 41-70 AVERAGE STD DEV 0 1 22 68 66 120 134 101 133 63 39 6 311 51-80 AVERAGE STD DEV 0 1 21 69 77 124 129 119 112 62 39 7 293 61-90 AVERAGE 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 STD DEV 0 1 22 82 84 130 137 115 90 64 37 6 318 STD DEV 0 1 22 82 84 130 137 115 90 64 37 6 318 STD DEV 0 1 22 82 84 130 137 159 90 64 37 6 318 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 STD DEV 1 1 22 73 82 124 145 108 112 64 42 8 329 STD DEV 1 1 23 72 73 817 100 590 261 85 7 4058 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 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 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 72 73 117 130 114 109 64 44 9 279 STD DEV 1 1 23 78 78 125 137 105 88 66 42 8 301 71-00 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 71-00 AVERAGE 0 1 54 290 519 826 940 768 579 289 114 12 4311	4401		-	0					1					5	309
Eastern Piedmont    STD DEV   0	VA-02	31-00 AVERAGE	0			261	521	813	881	734	580	279	92	7	4209
STD DEV	Eastern Piedmont	STD DEV	0	1	20	70	82	126	149	112	113	64	37	6	318
## 1-70 AVERAGE STD DEV 0 1 22 68 66 120 134 101 133 63 39 6 311   ## 51-80 AVERAGE 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   ## 71-00 AVERAGE 0 1 41 275 512 793 904 727 566 279 102 9 4208   ## 827 DEV 0 1 17 77 96 129 142 114 85 64 36 7 328   ## VA-03   ## Western Piedmont    ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 584 275 102 10 4224   ## 8267 525 812 872 727 804 7 8															
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STD DEV   0	Jungs 3 2	STD DEV	0	1	21	69	77	124	129	119	112	62	39	7	293
71-00 AVERAGE   0															
VA-03 VA-03 Western Piedmont    31-00   AVERAGE															
VA-03         31-00 AVERAGE STD DEV STD DEV AVERAGE STD DEV ST	4402														
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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 71-00 AVERAGE 0 1 52 293 527 809 906 731 576 285 118 13 4311	Western Piedmont	STD DEV	1	1	22	73	82	124	145	108	112	64	42	8	329
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 71-00 AVERAGE 0 1 52 293 527 809 906 731 576 285 118 13 4311		31-60 AVERAGE	0	1	41	238	523	801	811	700	590		85		4058
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 71-00 AVERAGE 0 1 52 293 527 809 906 731 576 285 118 13 4311	N								l .						
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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 71-00 AVERAGE 0 1 52 293 527 809 906 731 576 285 118 13 4311	1	27													
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 71-00 AVERAGE 0 1 52 293 527 809 906 731 576 285 118 13 4311	Jung 3 24	V							l .						1 1
STD DEV 1 1 23 85 78 125 137 105 88 66 42 8 301 71-00 AVERAGE 0 1 52 293 527 809 906 731 576 285 118 13 4311		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
אַט ענד און אַאַט ענד און א	4402														1 1
· · · · · · · · · · · · · · · · · · ·	4403	STD DEV	1	1	19	81	90	129	⊥44		87	61	40	9	333

#### **United States** Climate Normals 1971-2000 ] F M A M ] J A S O N D

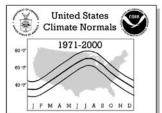
Section 3:

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

Temperature, Precipitation, and Degree Days

### **Heating Degree Days** Virginia – Washington

Climate Division		ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
VA-04	31-00		0	3	62	316	602	919	1004	850	695	371	141	14	4978
Northern	21 60	STD DEV	1	3	26	75	83	127	155	117	115	75	50	10	327
	31-60	AVERAGE	0	2	57	294 68	608	925	956	841	713	371 87	128	12 9	4907
<b>*</b>	41 70	STD DEV AVERAGE	1 0	2 2	27 58	292	77 601	124 942	166 992	126 853	139 699	349	41 129	12	365 4930
Non	41-70	STD DEV	1	2	26	71	67	121	141	103	132	74	53	8	315
177 338	51-80	AVERAGE	0	2	57	316	604	919	1026	867	693	352	139	16	4991
1 3 3 3 4	31 00	STD DEV	1	2	27	75	77	120	131	120	112	69	53	11	287
2	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
	71-00	AVERAGE	1	3	66	339	595	899	1028	838	680	368	152	17	4985
4404		STD DEV	1	3	22	81	94	135	146	117	95	65	49	12	312
VA-05	31-00	AVERAGE	2	5	78	331	626	915	988	830	685	371	148	19	4997
Central Mountain		STD DEV	3	4	32	75	86	129	153	118	119	70	51	13	339
	31-60	AVERAGE	2	5 5	71	309	629	908	932	814	708	368	136	17	4899
N3	41 70	STD DEV AVERAGE	3	5 6	30 80	63 318	78 632	127 941	152 983	121 844	141 706	72 358	41 142	12 19	306 5030
A Charles	41-70	STD DEV	4	5	34	69	70	126	136	112	134	76	55	12	320
2 3 3 ()	51-80	AVERAGE	3	5	77	340	634	921	1021	859	691	361	149	23	5084
5 5 3	51 00	STD DEV	3	4	35	77	79	127	141	127	120	69	56	15	313
	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
4405		STD DEV	3	4	29	84	99	133	152	119	98	68	52	15	361
VA-06	31-00	AVERAGE	5	9	93	363	650	924	988	828	689	392	182	36	5159
Southwestern Mountain	31 60	STD DEV AVERAGE	5 4	7 7	36 81	82 334	87 657	131 916	162 930	122 804	121 709	73 378	60 163	21 29	352 5011
b	31-00	STD DEV	5	8	33	72	83	127	165	133	146	70	51	18	325
23	41-70	AVERAGE	5	8	89	340	651	936	971	828	698	362	164	31	5084
N7-35 5	7	STD DEV	5	8	33	74	75	124	142	135	142	76	56	17	322
1 2 2 3 30	51-80	AVERAGE	6	8	90	373	656	925	1017	852	691	379	179	42	5217
7 7 7		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
	71 00	STD DEV AVERAGE	4 6	7 10	37 103	93 390	87 644	141 922	153 1024	116 833	96 674	75 413	57 205	21 44	323 5270
4406	71-00	STD DEV	4	7	34	90	97	136	162	110	97	70	62	23	361
WA-01	31-00	AVERAGE	172	158	225	419	613	749	786	645	652	521	390	259	5589
West Olympic Coastal		STD DEV	41	42	50	57	74	77	107	79	73	60	58	48	353
l West Olympic Coastai	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
A 1 2 3 1	41-70	AVERAGE	179	176	230	414	609	743	811	644	676	539	398	266	5684
	F1 00	STD DEV	44	37 173	45 227	61 419	70	70 743	118 804	75 640	66 683	56 545	58	52	343
	21-80	AVERAGE STD DEV	180 38	44	54	53	616 63	743	804	70	58	545	406 52	271 55	5708 285
<b>1</b> 2 3 7 7	61-90	AVERAGE	174	152	226	431	618	770	782	633	646	534	404	258	5629
	01 70	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
4501		STD DEV	36	41	55	50	79	83	86	74	73	57	57	46	338
WA-02	31-00	AVERAGE	153	144	240	448	635	762	809	658	647	502	364	231	5593
NE Olympic San Juan	21 60	STD DEV	41	39 163	46	45	75	79	113	78	62	48	53	46	361
	31-00	AVERAGE STD DEV	167 46	163 34	250 40	440 53	637 73	746 66	829 134	684 83	668 65	503 52	369 56	242 47	5697 413
	41-70	AVERAGE	159	161	245	448	635	761	832	654	669	515	372	234	5686
5 3	3	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
E(1/2) P 7		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
Vicini	71 00	STD DEV	31	38	49	39 454	78	91	97	70 644	57	44	40	45	252
4502	11-00	AVERAGE STD DEV	139 32	125 36	229 47	454 34	635 84	774 90	788 89	644 73	625 59	493 47	352 50	225 43	5481 310
WA-03	31-00	AVERAGE	87	89	190	418	630	775	818	652	627	468	312	170	5236
Puget Sound Lowlands	00	STD DEV	32	32	48	52	81	86	123	83	70	58	58	45	357
i ugot oounu Lowianus	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
~ W 73 /	41-70	AVERAGE	87	99	196	419	629	771	847	649	651	483	318	173	5323
( Tour S ) - ( )	F1 0:	STD DEV	35	30	45	57	73	84	138	75	65	55	62	48	357
	2T-80	AVERAGE	89	98 36	192	421	637	770	838	643	656	492	325	177	5339
\$ ( 5 )	61-90	STD DEV AVERAGE	33 88	36 84	51 189	48 425	70 631	83 799	103 815	72 638	63 622	52 483	57 326	54 167	315 5265
my (15	01-90	STD DEV	26	35	52	51	81	95	102	74	67	56	44	48	278
الماليات	71-00	AVERAGE	81	75	177	424	631	794	794	639	606	461	307	168	5157
4503		STD DEV	29	32	49	44	89	88	95	75	67	55	57	45	333
L															<u> </u>



## Divisional Normals, 1971-2000 (and previous periods) CLIMATOGRAPHY OF THE UNITED STATES NO. 85

JGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

Heating Degree Days
Washington

Climate Division	F	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
		0 AVERAGE	102	102	205	450	678	833	876	699	671	504	343	199	5663
E Olympic Cascade FthIs		STD DEV	36	37	54	58	82	78	122	88	80	69	67	53	382
L Olympic Gascade 1 tills	31-6	0 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
5 m	41-7	0 AVERAGE	105	114	211	454	676	832	910	700	702	525	353	206	5786
	F1 0	STD DEV	41 108	36	51 215	61 455	73 684	72 829	132 897	79 693	72 707	65 534	69 363	56	353 5813
	21-8	0 AVERAGE STD DEV	39	116 42	58	455 53	70	829 79	100	74	66	62	363 66	210 62	314
	61-9	0 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
	71-0	0 AVERAGE	101	94	202	459	680	845	845	683	647	500	344	202	5601
1504		STD DEV	35	39	58	54	90	85	95	78	77	63	64	53	369
WA-05	31-0	0 AVERAGE	205	206	328	594	857	1038	1086	900	895	712	535	354	7711
Cascade Mountains West	21 6	STD DEV	64 219	64 236	82 346	82 604	98 876	87 1038	134	100 949	101 944	87 731	89 550	84 388	556
	31-0	0 AVERAGE STD DEV	67	⊿36 56	74	93	98	80	1140 147	949	100	731 86	93	388 80	8021 533
5	41-7	0 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
	51-8	0 AVERAGE	211	225	339	603	873	1044	1120	900	939	748	563	368	7933
P () 2 P		STD DEV	65	73	79	75	81	90	107	85	81	73	84	92	439
	61-9	0 AVERAGE	203	192	332	591	853	1049	1065	878	878	718	544	337	7640
	71.0	STD DEV	56 193	65 178	84 308	80 580	95 842	102 1030	109 1031	80 866	80 844	85 679	68 513	79 331	354 7393
1505	,1-0	0 AVERAGE STD DEV	193 62	178 58	86	580 76	105	95	1031	90	91	83	51 <i>3</i>	331 77	475
WA-06	31-0	0 AVERAGE	93	108	270	593	918	1165	1224	966	875	624	410	224	7471
East Slope Cascades		STD DEV	38	43	72	66	98	112	162	113	88	80	78	63	451
Last Glope Gascades	31-6	0 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
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	41-7	0 AVERAGE	98	122	273	601	915	1153	1255	954	908	649	427	238	7594
	E1 0	STD DEV 0 AVERAGE	39 94	43 118	64 281	74 603	88 924	99 1145	180 1240	102 944	85 909	76 653	82 430	68 229	457 7569
	21-8	STD DEV	38	48	71	64	924 88	105	149	944	80	70	430 78	229 72	375
\$ (3/3)	61-9	0 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
	71-0	0 AVERAGE	88	91	268	596	925	1193	1197	949	840	608	399	212	7366
1506		STD DEV	40	39	81	63	110	126	134	94	79	76	74	61	418
WA-07	31-0	0 AVERAGE	36	50	199	525	891	1160	1242	957	797	515	295	133	6800
Okanogan Big Bend	31_6	STD DEV 0 AVERAGE	22 34	26 57	65 195	71 507	110 901	125 1132	185 1274	141 1006	91 819	78 509	74 286	48 140	463 6861
	31-0	STD DEV	20	23	58	81	106	108	222	159	96	83	85	45	509
[ ] de	41-7	0 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
	51-8	0 AVERAGE	35	57	205	538	892	1146	1261	938	833	543	310	135	6891
P ()3/33 5		STD DEV	18	29	65	61	95	115	162	120	89	70	71	54	386
	61-9	0 AVERAGE	38	48	211	540	879	1188	1230	929	787	525	309	123	6806
	71_0	STD DEV 0 AVERAGE	20 39	28 43	73 201	65 539	113 894	137 1190	155 1213	110 931	87 769	78 509	58 299	52 134	407 6761
1507	71-0	STD DEV	24	27	69	59	123	143	149	118	88	75	70	52	458
WA-08	31-0	0 AVERAGE	15	23	135	426	782	1024	1094	817	670	430	225	81	5723
Central Basin		STD DEV	12	14	51	67	110	120	193	127	76	75	65	35	424
	31-6	0 AVERAGE	13	25	129	412	802	1006	1141	861	690	422	214	84	5799
	41 5	STD DEV	10	13	44	75 421	105	112	227	139	84	80	75	35	473
29/73/	41-7	0 AVERAGE	14	26 15	133 47	431	783 96	1017	1137	808	701 73	449 74	230	83 37	5811 419
1 1818	51-8	STD DEV 0 AVERAGE	10 14	15 27	137	75 431	96 786	101 1004	215 1109	116 793	696	456	68 236	81	5771
L 2/3/35	21 0	STD DEV	9	17	51	60	99	106	182	107	70	72	63	41	347
	61-9	0 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
	71-0	0 AVERAGE	18	21	142	439	774	1046	1057	796	647	427	231	84	5682
1508	21 0	STD DEV	14	15	55	54	121	135	158	110	70	70	61	170	406
WA-09	31-0	0 AVERAGE STD DEV	61 30	88 38	266 74	603 68	949 103	1194 121	1272 186	994 127	867 97	582 82	356 77	178 56	7410 482
Northeastern	31-6	0 AVERAGE	57	100	264	589	955	1168	1306	1040	889	570	342	183	7462
	3- 3	STD DEV	24	33	61	73	102	108	224	143	100	85	84	53	513
			62	102	272	611	949	1189	1309	991	909	607	369	189	7557
	41-7	0 AVERAGE	02				0.0	100	201	106	94	80	0.1		444
	41-7	0 AVERAGE STD DEV	25	39	71	75	89	108	201	100	24	80	81	53	1
		STD DEV 0 AVERAGE	25 64	39 99	279	619	962	1189	1297	980	913	619	381	187	7589
	51-8	STD DEV 0 AVERAGE STD DEV	25 64 26	39 99 44	279 78	619 63	962 86	1189 122	1297 162	980 100	913 88	619 75	381 77	187 56	7589 398
	51-8	STD DEV 0 AVERAGE STD DEV 0 AVERAGE	25 64 26 65	39 99 44 84	279 78 280	619 63 618	962 86 947	1189 122 1225	1297 162 1269	980 100 973	913 88 866	619 75 602	381 77 379	187 56 174	7589 398 7481
	51-8 61-9	STD DEV 0 AVERAGE STD DEV	25 64 26	39 99 44	279 78	619 63	962 86	1189 122	1297 162	980 100	913 88	619 75	381 77	187 56	7589 398

# United States Climate Normals 1971-2000 1971-2000 1971-2000

Section 3:

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Temperature, Precipitation, and Degree Days

## Washington – West Virginia

**Heating Degree Days** 

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WA-10	31-00 AVERAGE	36	53	195	484	803	1016	1083	834	740	514	316	150	6225
Palouse Blue Mountains	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	79 215	47	457
~ 1/2 5/1 M	41-70 AVERAGE STD DEV	33 19	57 27	190 64	480 85	798 91	1001 97	1122 210	823 101	770 80	522 78	315 73	152 50	6263 383
1 2 2 2 1807 /	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
\$ ( < 5 \ )	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	71-00 AVERAGE	44	51	205	504	807	1048	1053	815	719	516	330	157	6249
4510 <b>WV-01</b>	STD DEV 31-00 AVERAGE	26 2	31 7	65 72	60 336	128 646	139 964	159 1060	116 902	74 739	76 406	68 175	57 23	438 5332
Northwestern	STD DEV	3	6	31	78	90	143	171	132	127	80	60	15	354
Northwestern	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
A CHINA	STD DEV	3	6	33	79	74	140	153	119	137	87	61	13	317
Jan Kar	51-80 AVERAGE	3	7 5	73	350	654	972	1110	936	749	402	177	28	5461
	STD DEV 61-90 AVERAGE	3 3	8	36 77	83 352	81 628	139 968	151 1129	139 939	122 721	77 414	62 183	17 28	326 5448
- Curano	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
4601	STD DEV	3	6	28	87	100	149	168	137	112	73	63	17	392
WV-02	31-00 AVERAGE	4	11	85	359	657	957	1045	889	733	408	182	32	5361
North Central	STD DEV	4	8	35	84	92 661	144	177	134	131	78	61	20	376
	31-60 AVERAGE STD DEV	3	8 6	73 32	329 73	661 88	950 139	976 183	859 136	746 157	391 85	162 44	24 17	5182 343
Я	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
	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
- Committee	61-90 AVERAGE	5	13	93	384	648	967	1123	936	717	426	198	40	5549
	STD DEV 71-00 AVERAGE	4 5	9 12	38 93	96 383	92 653	156 947	157 1081	132 895	110 719	72 421	64 200	20 40	332 5449
4602	STD DEV	4	9	29	91	104	150	164	132	110	72	66	22	367
WV-03	31-00 AVERAGE	1	4	58	298	592	883	966	807	644	327	136	18	4735
Southwestern	STD DEV	2	4	28	78	90	139	169	131	127	74	52	13	343
oodamootom	31-60 AVERAGE	1	3	49	277	604	883	905	788	668	319	124	14	4634
1	STD DEV 41-70 AVERAGE	2	3 4	25 58	71 284	87	133 907	172 964	135	150	77	41	12 16	330
Anna.	STD DEV	1 2	4	28	284 77	602 73	135	157	814 129	663 140	312 82	129 52	12	4754 340
37,7	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
4603	71-00 AVERAGE	1 2	4	64	318	578	868	997	802	620	335	148	21	4757
WV-04	STD DEV 31-00 AVERAGE	20	5 36	25 154	86 453	99 747	146 1043	164 1126	129 965	107 836	70 510	55 262	14 75	352 6226
Central	STD DEV	13	19	48	86	96	146	174	131	136	80	70	33	365
Ochliai	31-60 AVERAGE	18	35	146	433	762	1041	1066	946	860	505	251	68	6131
1	STD DEV	13	18	48	77	89	143	181	137	162	86	57	35	350
A arm	41-70 AVERAGE	21	39	158	438	758	1072	1118	975	854	489	251	74	6247
	STD DEV 51-80 AVERAGE	14 22	19 36	50 151	83 465	78 756	139 1052	158 1167	135 996	151 841	88 500	73 261	34 85	355 6332
	STD DEV	12	36 17	51	465 85	756 87	140	158	143	134	78	261 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
4604	STD DEV	12	20	41	96	110	152	167	124	117	74	75	33	382
WV-05	31-00 AVERAGE STD DEV	5 5	8 6	89 36	360 83	652 92	941 134	1007 163	845 124	704 128	389 77	175 59	35 20	5209 354
Southern	31-60 AVERAGE	4	6	77	333	658	938	945	819	724	377	156	26	5063
a.	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
Carl Jan	STD DEV	5	7	38	79	77	129	150	135	145	87	59	19	386
Source of the	51-80 AVERAGE	6	8	89	375	664	947	1048	877	711	386	178	42	5332
	STD DEV	5	7	41	79 201	81	134	151	136	129	77	61	23	332
	61-90 AVERAGE STD DEV	6 4	9 7	96 39	381 96	638 90	944 149	1077 153	884 120	681 104	400 78	188 57	42 18	5347 328
	71-00 AVERAGE	4 5	9	94	96 379	642	928	1038	844	683	78 399	192	18 41	5254
4605	STD DEV	4	7	31	92	105	142	160	114	107	72	61	21	327
														ı·

## United States Climate Normals 1971-2000 1971-2000

#### Section 3:

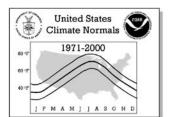
#### Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Temperature, Precipitation, and Degree Days

### **Heating Degree Days**

#### West Virginia – Wisconsin

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WV-06	31-00 AVERAGE	3	8	85	361	652	966	1051	889	742	414	170	22	5365
Northeastern	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
8	STD DEV	3	7	33	68	77	126	162	119	139	83	45	14	307
/L	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
Jan Jan	51-80 AVERAGE	4	8	84	369	659	970	1084	918	748	404	174	26	5447
5 ( )	STD DEV 61-90 AVERAGE	3 4	6 9	37	76 376	82 636	126	137 1105	123	116 726	71 421	62 178	16 25	289 5451
- Come	STD DEV	3	9 7	89 36	88	84	964 137	149	918 118	96	421 67	178 59	13	293
	71-00 AVERAGE	3	9	87	376	641	941	1069	877	721	409	177	24	5334
4606	STD DEV	3	7	27	84	96	139	153	122	98	66	57	15	326
WI-01	31-00 AVERAGE	39	71	260	593	1056	1525	1705	1412	1199	714	372	125	9070
Northwest	STD DEV	24	32	63	101	120	163	180	166	154	105	92	47	551
Northwest	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
(	61-90 AVERAGE	37	76	267	602	1039	1563	1747	1425	1172	696	367	126	9117
	STD DEV 71-00 AVERAGE	23	32 73	58	105 619	96 1056	169	188	161 1266	152	99 699	97 240	46 120	501
4701	71-00 AVERAGE STD DEV	41 27	33	262 65	90	1056 127	1539 188	1719 190	1366 182	1148 141	699 108	349 96	120 44	8991 617
WI-02	31-00 AVERAGE	57	95	286	618	1056	1504	1674	1411	1224	741	390	144	9200
	STD DEV	30	39	65	106	116	1504	166	152	147	106	99	53	509
North Central	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
	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
} ( 2 (	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
4500	71-00 AVERAGE	63	102	298	653	1056	1515	1695	1373	1183	738	385	149	9209
4702	STD DEV	32	39 81	68 257	99 584	123 996	179 1420	175 1585	170 1345	137 1168	110 709	107 370	51	579 8685
WI-03	31-00 AVERAGE STD DEV	46 27	35	63	104	111	1420	163	1345	132	100	93	127 49	511
Northeast	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
	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
4703	STD DEV	29	35	61	98	113	173	163	153	130	105	102	48	531
WI-04	31-00 AVERAGE	19	43	190	516	974	1425	1604	1315	1091	606	285	74	8141
West Central	STD DEV 31-60 AVERAGE	14 16	22 37	56 177	101 502	117 980	164 1405	185 1563	164 1338	151 1134	104 616	85 287	36 72	521 8130
man and a second	STD DEV	11	22	57	108	122	144	171	155	151	109	287 84	39	534
2 4 7	41-70 AVERAGE	20	39	193	484	961	1415	1598	1333	1119	598	294	75	8130
<u> </u>	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
4704	STD DEV	17	23	57	91	125	191	199	178	137	107	86	32	575
WI-05	31-00 AVERAGE	23	52	202	526	963	1397	1565	1305	1102	632	311	87	8163
Central	STD DEV	16	26 47	57	99 E16	115	155	174	151	149	101	88	39	504
~~~	31-60 AVERAGE STD DEV	21 15	47 27	193 58	516 106	980 122	1393 141	1539 164	1338 136	1154 149	646 105	321 84	87 41	8234 507
1	41-70 AVERAGE	15 27	27 54	214	503	122 966	1410	1583	1338	1141	627	329	93	8284
3	STD DEV	16	29	50	104	113	134	1583	106	154	100	329 86	93 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
} 7 1	61-90 AVERAGE	22	57	210	536	941	1424	1601	1312	1079	617	309	90	8197
						89	161	189	145	143	99	94	40	449
	STD DEV	15	25	20 I	104	09	TOT	109	140	THOI	99	94	40	1 442
	STD DEV 71-00 AVERAGE	15 23	25 53	50 202	104 545	953	1393	1567	1256	1046	615	296	84	8032



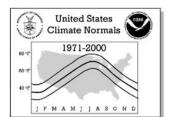
## Divisional Normals, 1971-2000 (and previous periods) CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

#### Wisconsin – Wyoming

**Heating Degree Days** 

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WI-06	31-00 AVERAGE	JUL 21	44	174	493	896	1304	1468	1248	1079	666	348	100	7840
East Central	STD DEV	15	23	50	89	104	147	163	136	124	88	84	41	459
Last Ochtral	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 STD DEV	22 14	43 25	179 45	464 90	893 103	1312 123	1472 141	1265 101	1098	647 86	359 79	102 42	7854 370
	51-80 AVERAGE	23	⊿5 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 STD DEV	23 16	48 23	181 51	519 82	895 104	1307 173	1488 174	1222 149	1046 118	666 90	339 93	101 40	7833 512
WI-07	31-00 AVERAGE	15	37	161	474	911	1334	1504	1228	1018	569	266	61	7579
Southwest	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 41-70 AVERAGE	9 16	16 34	52 162	102 444	120 901	142 1333	165 1503	148 1241	151 1047	101 555	79 269	34 63	505 7567
	STD DEV	10	19	46	102	108	142	1503	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 STD DEV	15 10	41	167 41	486 104	891 91	1368	1550 202	1253	998	560 97	263 82	63 30	7653 401
	71-00 AVERAGE	10	20 42	171	504	91 916	168 1349	1529	151 1208	143 980	568	82 265	30 63	7614
4707	STD DEV	14	24	52	89	120	180	198	173	133	103	81	27	496
WI-08	31-00 AVERAGE	12	37	153	467	882	1302	1462	1210	1008	572	271	62	7436
South Central	STD DEV	9	22	50	99	111	156	180	151	141	96	81	31	467
r h	31-60 AVERAGE STD DEV	9 7	29 18	135	440 95	883 119	1278 139	1405 160	1212 141	1037 153	569 102	272 77	60 34	7330 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 61-90 AVERAGE	8 12	20 43	43 163	108 487	105 872	140 1339	172 1517	139 1240	138 997	90 566	79 271	31 65	393 7573
	STD DEV	8	21	41	110	90	166	195	144	135	93	85	30	390
	71-00 AVERAGE	14	44	167	503	889	1317	1494	1195	976	576	268	63	7505
4708	STD DEV	10	24	51	96	116	178	190	170	129	99	83	27	494
WI-09	31-00 AVERAGE	13	32	139	446	845	1248	1402	1169	994	599	304	79 26	7269
Southeast	STD DEV 31-60 AVERAGE	10 11	19 25	46 128	90 424	108 856	153 1237	174 1353	141 1177	133 1024	89 595	84 304	36 76	446 7210
7	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	42 140	91	103 844	140	146	110	142	90	82	37	366
	51-80 AVERAGE STD DEV	15 9	34 18	40	442 99	101	1254 136	1456 165	1193 128	1019 125	593 86	301 82	81 34	7370 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
4700	71-00 AVERAGE	15	36 20	149	474	841	1250	1428	1148	961	601	301	81	7283
4709   <b>WY-01</b>	STD DEV 31-00 AVERAGE	11	20 211	46 458	87 778	113	174 1453	184 1544	155 1266	118	91 884	85 616	365	479 10116
Yellowstone DB	STD DEV	53	59	89	96	1103	134	163	128	136	100	83	85	519
1 GIOWOTOTIO DD	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	93 621	89	470
	41-70 AVERAGE STD DEV	183 48	225 53	470 96	768 101	1154 99	1450 108	1574 157	1279 110	1281 114	913 84	631 79	402 84	10329 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 71-00 AVERAGE	40 163	62 191	103 450	110 794	109 1167	145 1471	155 1514	113 1237	147 1131	116 857	70 608	77 332	510 9913
4801	STD DEV	61	63	84	95	131	150	1514	129	120	111	80	33 <u>2</u> 76	571
WY-02	31-00 AVERAGE	190	232	472	797	1199	1542	1607	1329	1264	917	627	381	10558
Snake DB	STD DEV	54	55	73	84	122	128	142	119	113	92	80	70	442
	31-60 AVERAGE STD DEV	180 43	228 41	455 56	764 71	1193 134	1499 126	1627 157	1344 126	1293 106	909 91	620 90	386 74	10496 473
	41-70 AVERAGE	181	226	461	776	1180	1517	1621	1327	1307	917	616		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		10560
	STD DEV	35	64	78	82	115	115	154	118	112	78	78 635	66	409
	61-90 AVERAGE STD DEV	186 44	239 67	488 86	819 96	1196 94	1580 129	1610 135	1331 112	1260 120	927 95	635 69	372 67	10643 431
	71-00 AVERAGE	209	243	492	833	1228	1589	1595	1328	1223	922	647		10689
4802	STD DEV	64	64	69	67	109	126	123	107	103	97	69	72	408
<b>L</b>	•	•												



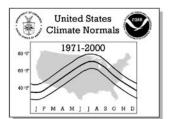
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

### **Heating Degree Days**

Wyoming Page 65

Climate Division	Element	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WY-03	31-00 AVERAGE	97	137	390	734	1138	1458	1546	1282	1176	822	540	282	9603
Green and Bear DB	STD DEV	39	42	77	85	120	141	143	136	123	98	79	69	471
	31-60 AVERAGE	91 30	132 35	368 63	709 74	1128 127	1413 131	1561 154	1292	1204	813 89	528 89	280 70	9518 437
	STD DEV 41-70 AVERAGE	96	141	390	732	1124	1441	1552	140 1282	108 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 71-00 AVERAGE	29 106	46 140	89 403	102 752	98 1162	147 1491	139 1535	128 1282	134 1122	108 818	64 552	68 276	494 9639
4803	STD DEV	48	43	72	74	1102	152	142	130	112	108	70	71	522
WY-04	31-00 AVERAGE	35	51	273	590	1005	1312	1411	1109	977	648	377	156	7943
Big Horn	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 41-70 AVERAGE	20 34	17 51	62 277	93 573	134 989	117 1301	204 1420	176 1106	112 1031	97 652	99 378	62 172	457 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
	61-90 AVERAGE	34	58	295	603	1003	1354	1421	1093	964	653	391	152	8021
	STD DEV 71-00 AVERAGE	18 41	30 54	95 282	97 615	130 1026	170 1338	186 1400	136 1083	126 924	106 641	70 386	53 150	446 7939
4804	STD DEV	30	30	74	65	153	176	180	159	110	100	79	55	539
WY-05	31-00 AVERAGE	46	70	286	608	1018	1306	1405	1140	1038	704	428	188	8238
Powder, Lttle MO, Tongu	e STD DEV	29	34	81	95	138	158	189	166	135	103	93	63	493
,, ,gu	31-60 AVERAGE	44	69	274	579	1005	1255	1402	1180	1089	707	429	199	8232
5	STD DEV 41-70 AVERAGE	25 47	27 67	71 285	95 578	137 993	121 1278	200 1400	182 1132	122 1089	108 697	110 427	70 204	491 8196
	STD DEV	26	33	94	110	126	126	173	133	144	111	91	68	407
	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 71-00 AVERAGE	27 48	40 67	92 289	99 638	129 1045	175 1346	192 1403	132 1115	133 973	106 693	73 424	57 172	482 8212
4805	STD DEV	35	37	70	68	151	187	191	163	104	100	82	56	552
WY-06	31-00 AVERAGE	45	56	268	591	1013	1307	1412	1149	1051	696	409	174	8169
Belle Fourche DB	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
15	STD DEV 41-70 AVERAGE	28 49	22 57	73 280	104 572	134 1001	117 1291	206 1415	189	130	110 703	110 421	70 196	471 8253
	STD DEV	26	29	91	115	125	121	179	1153 132	1113 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 71-00 AVERAGE	23 51	35 60	92 275	96 621	126 1035	169 1340	191 1408	134 1117	138 992	103 684	76 408	54 163	458 8154
4806	STD DEV	33	35	72	60	151	182	190	170	116	98	80	55	542
WY-07	31-00 AVERAGE	27	37	238	565	992	1285	1368	1111	1007	665	377	143	7813
Cheyenne Niobrara DB	STD DEV	21	20	76	90	134	152	183	165	136	102	89	56	461
, , , , , , , ,	31-60 AVERAGE	28	36	230	549	988	1239	1359	1142	1057	679	388	156	7849
	STD DEV 41-70 AVERAGE	23 31	18 37	66 249	95 556	127 976	120 1271	193 1371	177 1112	126 1072	110 672	104 390	63 162	482 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 71-00 AVERAGE	14 28	22 37	86 238	93 584	134 1014	167 1318	185 1371	135 1088	134 946	101 648	73 368	47 130	424 7768
4807	STD DEV	22	22	67	59	152	181	184	166	104	94	75	49	501
WY-08	31-00 AVERAGE	19	33	229	551	932	1172	1243	1031	966	661	384	138	7360
Lower Platte	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
V. 1 C.	STD DEV 41-70 AVERAGE	14 20	14 32	58 232	80 540	111 916	117 1159	168 1244	147 1035	116 1029	103 662	94 386	58 154	396 7407
	STD DEV	14	32 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 STD DEV	21 13	35 17	234 64	568 56	949 132	1197 142	1239 157	1010 129	910 94	654 101	384 76	131 48	7331 423
1000	עייע עינפ עיי	1 13	Τ/	04	ه د	134	147	13/	149	24	TOT	70	40	1 443



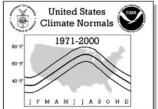
Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

#### **Heating Degree Days**

#### Wyoming – Alaska

Climate Division	El	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
WY-09	_	AVERAGE	40	52	282	610	1039	1334	1413	1131	1003	686	414	188	8190
Wind River		STD DEV	25	24	79	94	138	164	196	158	121	106	89	65	486
	31-60	AVERAGE	37	51	264	590	1027	1287	1413	1149	1031	682	412	191	8133
1576	44 50	STD DEV	21	19	66	87	128	149	200	170	105	100	102	66	485
	41-70	AVERAGE STD DEV	41	53	284 90	602	1019	1307	1413 179	1116	1059	693	414	211	8210
	51_80	AVERAGE	20 36	24 55	282	108 603	124 1048	130 1322	1439	149 1118	117 1040	109 708	86 415	65 185	403 8253
	21-00	STD DEV	19	26	90	99	123	155	203	142	123	95	77	63	428
	61-90	AVERAGE	35	55	297	615	1042	1385	1438	1132	997	686	418	179	8279
		STD DEV	17	28	93	107	127	175	202	135	134	115	75	62	475
	71-00	AVERAGE	44	52	291	628	1065	1372	1414	1128	956	678	419	174	8219
4809		STD DEV	32	25	73	81	152	183	199	159	111	113	81	63	548
WY-10	31-00	AVERAGE	72	105	352	686	1073	1328	1408	1189	1129	808	526	253	8929
Upper Platte	21 60	STD DEV	30	35	73	84 678	118	121	138	126	129	102	86	71	403
	31-60	AVERAGE STD DEV	74 29	106 29	346 62	79	1083 114	1301 118	1433 145	1219 140	1174 110	815 96	539 97	266 76	9036 415
	41-70	AVERAGE	75	107	356	681	1059	1311	1414	1197	1196	817	531	278	9021
	11 /0	STD DEV	28	35	83	103	117	92	134	132	126	105	87	72	355
	51-80	AVERAGE	68	112	354	680	1070	1314	1409	1181	1164	820	520	247	8940
		STD DEV	25	37	82	90	109	120	132	122	131	89	73	68	343
	61-90	AVERAGE	64	107	359	688	1052	1346	1401	1183	1116	801	519	238	8873
	<b>71</b> 00	STD DEV	24	40	86	97	95	128	143	106	140	110	71	65	391
4010	1,T-00	AVERAGE	72 34	101	350	694	1082	1350	1386	1165	1060	794	519	231	8803
4810 <b>AK-01</b>	31_00	STD DEV AVERAGE	34 271	36 281	68 415	65 652	124 868	130 1047	132 1116	110 931	101 920	107 714	74 539	67 353	395 8109
1	21-00	STD DEV	46	47	415	61	123	140	163	131	76	60	60	553 59	457
Southeastern	31-60	AVERAGE	278	284	410	644	835	1042	1103	954	931	718	538	350	8087
Jan San San San San San San San San San S		STD DEV	49	42	36	65	134	153	155	137	76	66	53	64	467
5.00	41-70	AVERAGE	280	289	415	650	854	1042	1124	914	927	731	545	356	8127
8		STD DEV	44	45	37	54	134	142	174	98	76	57	60	60	423
~ 77 65	51-80	AVERAGE	279	288	420	656	859	1056	1168	923	943	732	563	375	8264
· 20/6/100	61 00	STD DEV AVERAGE	42 274	52 283	39 419	59 654	134 901	139 1059	157 1122	125 919	75 914	56 723	55 553	60 369	465 8190
2	01-90	STD DEV	45	203 51	37	58	118	139	184	129	82	55	60	55	465
3	71-00	AVERAGE	259	273	419	662	892	1042	1114	928	908	705	535	351	8089
5001		STD DEV	44	50	49	59	118	126	167	134	74	61	67	55	493
AK-02	31-00	AVERAGE	336	345	497	788	999	1172	1213	1043	1065	845	664	444	9412
South Coast		STD DEV	72	72	66	88	116	142	162	126	104	74	77	81	692
prom	31-60	AVERAGE	361	361	498	758	962	1152	1177	1013	1064	850	679	461	9337
8	41 70	STD DEV AVERAGE	95 340	97 342	86 476	104 763	115 964	139 1159	143 1184	104 1003	91 1052	83 847	89 660	106 441	907 9230
- Te .	41-70	STD DEV	340	342	40	64	103	146	128	1003	95	50	58	56	405
Ent.	51-80	AVERAGE	334	339	485	781	979	1196	1243	1040	1090	857	676	453	9474
7) (5)		STD DEV	37	39	39	62	109	154	152	130	114	63	62	59	518
6/2	61-90	AVERAGE	322	336	492	803	1034	1191	1236	1067	1067	855	662	445	9511
3		STD DEV	38	41	38	63	116	156	187	137	121	69	67	54	491
E 0 0 0 Mar Cape 14	71-00	AVERAGE	309	327	502	815	1040	1185	1246	1084	1070	841	649	425	9493
5002	21 00	STD DEV	41	42	48	66	118	138	182	145	116	75	68	56	521
AK-03	31-00	AVERAGE STD DEV	508 42	446 46	529 40	745 42	877 50	1033 78	1086 94	994 79	1061 83	926 59	805 45	627 41	9638 398
Southwestern Islands	31-60	AVERAGE	513	438	525	740	877	1040	1084	985	1071	925	808	631	9638
La arming	-1 00	STD DEV	39	47	45	49	48	74	112	76	76	62	33	42	373
5 /	41-70	AVERAGE	521	455	536	755	881	1046	1068	992	1064	930	806	636	9691
8		STD DEV	39	40	38	42	40	55	77	66	70	56	34	37	289
5 77 CON	51-80	AVERAGE	527	468	541	764	892	1046	1076	1017	1080	946	822	643	9822
. 2 / Share	61 00	STD DEV	44 E10	38	32	38	49	49	78	72	84	67	47	46	404
2	01-90	AVERAGE STD DEV	510 47	457 46	533 38	749 37	884 53	1018 60	1077 76	1011 73	1059 84	932 63	809 51	630 44	9669 434
1%	71-00	AVERAGE	501	445	528	742	877	1027	1099	998	1058	931	803	621	9630
5003	00	STD DEV	44	45	39	36	57	92	81	89	93	62	58	45	470
AK-04	31-00	AVERAGE	312	420	672	1164	1674	2000	2064	1644	1523	1049	702	392	13618
Copper River		STD DEV	53	66	79	154	238	261	295	232	170	112	79	67	843
po som	31-60	AVERAGE	334	424	647	1090	1551	1907	1945	1568	1467	1019	687	383	13021
9 ,	41	STD DEV	60	57	56	149	234	255	246	216	154	114	75	82	676
160	41-70	AVERAGE	320	417	659	1147	1634	1982	2040	1593	1504	1060	706		13451
8	51_00	STD DEV AVERAGE	53 304	61 404	63 670	128 1167	221 1657	274 2070	264 2140	189 1657	195 1573	97 1069	90 724	80 397	661 13834
~ C7) (50)	21-00	STD DEV	49	68	60	120	231	270	273	224	175	96	82	71	702
· - 24/6/15/	61-90	AVERAGE	297	411	680	1188	1767	2066	2133	1703	1558	1083	717	409	14013
		STD DEV	42	70	68	116	214	273	321	237	182	113	82	59	663
1 180	71-00	AVERAGE	290	414	700	1230	1781	2058	2153	1734	1573	1072	703	397	14105
5004		STD DEV	39	74	90	135	212	243	311	235	152	118	72	45	712
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Divisional Normals, 1971-2000 (and previous periods)
CLIMATOGRAPHY OF THE UNITED STATES NO. 85

DGRAPHY OF THE UNITED STATES NO. 85

Temperature, Precipitation, and Degree Days

**Heating Degree Days** 

Alaska Page 67

Climate Division	_	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
AK-05	31-00	AVERAGE	264	330	551	966	1318	1567	1610	1315	1275	904	624	359	11083
Cook Inlet		STD DEV	39	50	59	111	168	220	240	193	154	93	61	58	652
John Market	31-60	AVERAGE	266	328	547	931	1294	1603	1633	1311	1292	894	618	347	11065
~ · ·	44 50	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
8		STD DEV	37	49	50	100	181	245	215	181	179	79	66	62	625
~ ~ 7 (G)	51-80	AVERAGE	269	331	549	973	1314	1626	1657	1335	1322	923	637	373	11307
. 24/6/05	C1 00	STD DEV	41	48	49	97	183	228	223	180	175	86	67	64	646
2	61-90	AVERAGE	268	333	550	984 96	1352	1552	1594	1327	1265	932	637	381	11176
3	71 00	STD DEV	37 259	51	52 558	992	161	233	273	184	176	98	66	54	615
5005	/1-00	AVERAGE STD DEV	259 40	325 51	72	105	1329 167	1514 193	1574 263	1325 203	1252 147	907 105	621 63	366 49	11021 655
AK-06	21 00	AVERAGE	315	352	536	952	1247	1546	1581	1353	1356	1001	701	435	11375
	31-00	STD DEV	58	58	67	110	174	257	289	236	215	136	87	69	868
Bristol Bay	31-60	AVERAGE	317	357	544	935	1292	1640	1652	1347	1425	1008	699	431	11648
el annum	31 00	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
8	' ' ' '	STD DEV	50	56	59	108	195	251	278	229	219	1030	83	66	706
185	51-80	AVERAGE	331	358	547	971	1237	1626	1624	1408	1424	1049	729	454	11757
(1)		STD DEV	49	55	50	108	171	240	284	218	235	126	92	71	834
· 08/ 6/ 2 3m	61-90	AVERAGE	325	352	533	969	1233	1482	1526	1377	1322	1035	724	454	11333
3 7 7		STD DEV	45	56	54	102	149	248	303	244	240	135	93	57	824
1 178	71-00	AVERAGE	305	336	529	947	1203	1429	1505	1352	1292	979	692	432	11002
5006		STD DEV	47	49	69	91	142	240	286	265	218	156	90	60	894
AK-07	31-00	AVERAGE	389	443	652	1104	1456	1831	1892	1672	1721	1288	878	522	13849
West Central		STD DEV	58	65	75	99	161	219	263	228	205	173	113	85	742
VVCSt Contrai	31-60	AVERAGE	379	433	652	1074	1467	1863	1927	1641	1720	1222	854	477	13707
5.		STD DEV	54	48	62	97	184	197	281	188	196	173	103	94	706
5./	41-70	AVERAGE	397	446	645	1095	1445	1882	1865	1649	1718	1284	871	519	13817
8		STD DEV	56	52	59	98	170	207	250	212	221	145	119	87	650
~ (7) (F)	51-80	AVERAGE	404	437	644	1112	1433	1881	1869	1715	1749	1331	873	550	13997
. 5000		STD DEV	62	65	55	95	165	213	260	229	236	165	120	77	811
2	61-90	AVERAGE	402	443	649	1119	1449	1793	1837	1718	1717	1361	901	564	13953
3	E1 00	STD DEV	61	80	65	85	148	229	278	270	219	169	120	58	751
E O O E	71-00	AVERAGE	390	445	659	1125	1455	1789	1885	1696	1735	1345	892	555	13970
5007	21 00	STD DEV	59	80	89	96	140	247	251	265	206	175	111	60	796
AK-08	31-00	AVERAGE	199	362 71	681 90	1301 151	1865 213	2232 261	2305 303	1906 247	1753 198	1144	641 98	269 63	14658 823
Interior Basin	21_60	STD DEV AVERAGE	51 211	372	684	1255	1848	2272	2310	1906	1789	148 1160	653	269	14729
to some	31-00	STD DEV	47	60	71	145	228	265	309	245	167	141	88	72	784
9	41-70	AVERAGE	217	375	692	1300	1872	2294	2333	1894	1782	1193	667	281	14898
0	11 70	STD DEV	51	68	72	151	220	281	269	228	222	116	100	75	710
E-71 0	51-80	AVERAGE	215	357	691	1324	1856	2311	2381	1947	1814	1184	658	290	15029
7) (54		STD DEV	50	77	72	150	236	273	282	237	225	128	98	62	783
· - 54/6/1973	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
1 189	71-00	AVERAGE	177	345	676	1335	1876	2170	2276	1910	1713	1112	605	259	14454
5008		STD DEV	47	76	108	140	215	229	319	272	196	162	91	49	864
AK-09	31-00	AVERAGE	571	644	893	1442	1886	2277	2371	2209	2312	1801	1241	753	18399
Arctic Drainage Basin		STD DEV	109	100	91	152	200	196	226	220	181	164	106	98	784
prom	31-60	AVERAGE	629	677	897	1363	1827	2244	2394	2197	2309	1778	1282		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		18317
8		STD DEV	99	85	76	143	184	185	219	210	196	168	101	86	864
~ 27 CEN	51-80	AVERAGE	586	640	891	1466	1874	2328	2339	2250	2337	1819	1237		18530
· & / MAS		STD DEV	76	107	88	139	180	208	219	204	200	142	88	82	757
2 70	61-90	AVERAGE	540	619	883	1497	1928	2278	2317	2213	2301	1826	1209		18328
3	<b>B1</b> 0.5	STD DEV	87	109	90	151	201	214	241	265	183	178	98	78	717
p.D	1/T-00	AVERAGE	502 74	600	889	1507 152	1957 205	2312	2384 228	2207 243	2319 165	1821 168	1201 97	685 57	18383 714
5009		STD DEV		101	110										

#### **United States** Climate Normals 1971-2000 ] F M A M ] J A S O N D

Section 3:

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

Temperature, Precipitation, and Degree Days

#### **Heating Degree Days** Hawaii - Puerto Rico

Climate Division	Ele	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
HI-01 Island of Kauai	61-00	AVERAGE	0	0	0	0	1	7	29	26	15	5	1	0	84
		STD DEV	0	0	0	0	1	6	17	17	11	4	2	0	45
<b>1</b> 2 3 5 5	61-90	AVERAGE	0	0	0	0	0	5	24	22	11	4	1	0	67
4 7		STD DEV	0	0	0	0	1	4	15	15	8	4	2	0	38
7 6	71-00	AVERAGE	0	0	0	0	1	6	28	24	14	5	2	0	79
5101		STD DEV	0	0	0	0	1	6	16	16	11	4	2	0	46
HI-02 Island of Oahu	61-00	AVERAGE	0	0	0	0	0	0	1	0	0	0	0	0	1
2 O / 3		STD DEV	0	0	0	0	0	0	1	1	0	0	0	0	2
1 2 4 5	61-90	AVERAGE	0	0	0	0	0	0	1	1	0	0	0	0	1
4 1		STD DEV	0	0	0	0	0	0	1	1	0	0	0	0	2
7 6	71-00	AVERAGE	0	0	0	0	0	0	1	0	0	0	0	0	1
5102		STD DEV	0	0	0	0	0	0	1	1	0	0	0	0	1
HI-03 Island of Molokai	61-00	AVERAGE	0	0	0	0	0	0	2	2	0	0	0	0	5
1 / 2 / 5		STD DEV	0	0	0	0	0	0	2	3	0	0	0	0	5
2 5	61-90	AVERAGE	0	0	0	0	0	0	2	2	0	0	0	0	4
4 7		STD DEV	0	0	0	0	0	0	2	3	0	0	0	0	5
6	71-00	AVERAGE	0	0	0	0	0	0	2	2	0	0	0	0	5
5103		STD DEV	0	0	0	0	0	0	2	3	1	0	0	0	5
HI-04 Island of Lanai	61-00		0	0	0	0	1	8	18	16	9	3	1	0	57
1 / 2 / 3 5		STD DEV	0	0	0	0	3	9	11	11	6	3	1	0	26
2 5	61-90	AVERAGE	0	0	0	0	1	10	18	17	9	3	1	0	59
0		STD DEV	0	0	0	0	3	10	12	12	7	3	2	0	29
6	71-00	AVERAGE	0	0	0	0	1	7	17	16	8	3	1	0	51
5104		STD DEV	0	0	0	0	1	5	9	11	5	2	1	0	23
HI-05 Island of Maui	61-00	AVERAGE	0	0	0	0	1	4	15	18	10	3	1	0	51
3 -		STD DEV	0	0	0	0	1	3	10	12	7	2	2	0	25
2 / 2 / 2 6	61-90	AVERAGE	0	0	0	0	1	4	14	18	10	3	1	0	51
4 1		STD DEV	0	0	0	0	1	4	10	14	8	3	2	0	28
7 6	71-00	AVERAGE	0	0	0	0	1	4	15	17	10	3	1	0	50
5105		STD DEV	0	0	0	0	1	3	10	10	6	2	2	0	23
HI-06 Island of Hawaii	61-00	AVERAGE	0	0	0	0	5	17	27	26	22	9	6	0	115
.0		STD DEV	1	0	1	1	4	11	14	16	12	7	5	1	55
1 2 5	61-90	AVERAGE	0	0	0	0	5	16	25	25	22	9	6	0	110
172		STD DEV	1	0	1	1	4	12	15	18	13	7	5	1	60
′ 🌀>	71-00	AVERAGE	0	0	0	0	4	14	24	22	19	7	5	0	95
5106		STD DEV	0	0	1	1	3	8	13	11	9	5	4	1	42
PR-01	31-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
North Coastal		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
1.0.01	31-60	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	41-70	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0 6	_	STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	51-80	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
2		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	61-90	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	71-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
6601		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
PR-02	31-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
South Coastal		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	31-60	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
1		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
3	41-70	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
0 5		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	51-80	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
2		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	61-90	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	71-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
6602		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
PR-03	31-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Slopes		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	31-60	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
1		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	41-70	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
) o 15		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	51-80	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
2		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	61-90	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	71-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
6603		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
					ı										

# United States Climate Normals 1971-2000 60 T 19 F M A M J J A S O N D

Section 3:

Divisional Normals, 1971-2000 (and previous periods)

CLIMATOGRAPHY OF THE UNITED STATES NO. 85 Temperature, Precipitation, and Degree Days

**Heating Degree Days** 

Puerto Rico – Virgin Islands – Pacific Islands Page 69

Climate Division	El	ement	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
PR-04	31-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Slopes		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	31-60	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
1	41 70	STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
1 3 7 0	41-70	AVERAGE STD DEV	0	0	0	0 0	0	0	0 0	0	0	0	0 0	0	0
16 6	51-80	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
and the same of th	51 00	STD DEV	0	0	ő	0	0	0	0	0	0	0	0	0	0
	61-90	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	71-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
6604		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
PR-05	31-00	AVERAGE	0	0	0	0	0	2	2	2	4	1	0	0	11
Eastern Interior	21_60	STD DEV AVERAGE	0	0 0	0	0 0	0 0	3 0	2 1	2 2	4 3	1 0	0 0	0	10 6
	31-00	STD DEV	0	0	0	0	0	1	2	3	3	1	0	0	7
1	41-70	AVERAGE	0	0	ő	0	0	1	1	1	2	0	0	0	5
5. 6		STD DEV	0	0	0	0	0	1	2	2	3	1	0	0	7
	51-80	AVERAGE	0	0	0	0	0	2	2	2	4	1	0	0	10
2		STD DEV	0	0	0	0	0	2	3	2	4	1	0	0	11
	61-90	AVERAGE	0	0	0	0	0	3	3	3	5	1	0	0	13
	71 00	STD DEV	0	0	0	0	0	2	3	2	4	1	0	0	10
6605	\T-00	AVERAGE STD DEV	0	0 0	0	0 0	0	4 3	4	4 2	7 4	1 1	0 0	0	18 9
PR-06	31-00	AVERAGE	0	0	0	0	0	1	3	2	8	1	0	0	15
Western Interior	31 00	STD DEV	0	0	0	0	0	2	3	2	15	1	0	0	19
western interior	31-60	AVERAGE	0	0	0	0	0	1	4	2	10	1	0	0	18
340		STD DEV	0	0	0	0	0	2	4	2	23	2	0	0	28
5	41-70	AVERAGE	0	0	0	0	0	1	4	2	9	1	0	0	17
6		STD DEV	0	0	0	0	0	2	4	2	23	1	0	0	28
E	51-80	AVERAGE	0	0	0	0	0	1	3	2	10	1	0	0	17
2	61 00	STD DEV AVERAGE	0	0	0	0 0	0	2   1	3 3	2 2	23 5	1 1	0	0	28 12
	01-90	STD DEV	0	0	0	0	0	2	3	2	4	1	0	0	9
	71-00	AVERAGE	0	0	0	0	0	2	4	2	7	1	0	0	15
6606		STD DEV	0	0	0	0	0	2	3	2	3	1	0	0	7
VI-04	31-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
Virgin Islands		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
· · · g · · · · · · · · · · ·	31-60	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
	41 70	STD DEV	0	0	0	0	0 0	0	0	0	0	0	0	0	0
	41-70	AVERAGE STD DEV	0	0 0	0	0 0	0	0	0	0	0	0	0 0	0	0
S Santa	51-80	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
Emenican	01 00	STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	61-90	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	71-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
6704	C1 00	STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
PI-02	ρ1-00	AVERAGE	0 0	0	0	0	0 0	0	0 0	0	0	0	0	0	0
East of 180th Meridian	61-90	STD DEV AVERAGE	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0
	01 - JU	STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
(No Map)	71-00	AVERAGE	0	0	ő	0	0	0	0	0	ő	0	0	0	0
9102		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
PI-03	61-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
Western Pacific Islands		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
	61-90	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
(No Map)	71.00	STD DEV	0	0 0	0	0 0	0	0	0 0	0 0	0	0	0 0	0	0
9103	/1-00	AVERAGE STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
PI-04	61-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
Caroline & Mariana Islnds	52 00	STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
Carollile & Ivialialia ISIIIUS	61-90	AVERAGE	0	0	o o	0	0	0	0	0	0	0	0	0	0
(No. Adv. s)		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0
(No Map)	71-00	AVERAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
9104		STD DEV	0	0	0	0	0	0	0	0	0	0	0	0	0