



**U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE**

HISTORICAL CLIMATOLOGY SERIES 5-1

MONTHLY  
STATE, REGIONAL, AND NATIONAL  
HEATING DEGREE DAYS  
WEIGHTED BY POPULATION  
(INCLUDES AERIALY WEIGHTED TEMPERATURE AND PRECIPITATION)

PERIOD: JULY 1997 THROUGH JUNE 1999

DATE PUBLISHED: JANUARY 2000

**NATIONAL CLIMATIC DATA CENTER  
151 PATTON AVENUE  
ASHEVILLE, NC 28801-5001**

1. STATE POPULATION-WEIGHTED HEATING DEGREE DAYS (BASE 65 DEG F)

THIS TABULATION IS DESIGNED TO PROVIDE UP-TO-DATE HEATING FUEL DEMAND INFORMATION ON A STATE-WIDE BASIS. THE TOTAL MONTHLY SERIES, BY STATE, ARE AVAILABLE FOR THE PERIOD 1931/32 THROUGH 1991/92: HISTORICAL CLIMATOLOGY SERIES 5-1, "STATE REGIONAL AND NATIONAL MONTHLY AND SEASONAL HEATING DEGREE DAYS WEIGHTED BY POPULATION (1990 CENSUS), (JULY 1931 - JUNE 1992)."

THE STATE AVERAGE DEGREE DAY TOTALS FOR EACH MONTH ARE DERIVED FROM THE DIVISIONAL VALUES BY WEIGHTING EACH DIVISION BY ITS PERCENTAGE OF THE TOTAL STATE POPULATION AS ADDUCED FROM THE 1990 CENSUS DATA (BUREAU OF CENSUS,1992). THE POPULATION WEIGHTING PROCEDURE ASSURES THAT DEGREE-DAY AVERAGES FOR THE STATES AS A WHOLE ARE BIASED TOWARD CONDITIONS EXISTING IN THE MORE POPULOUS SECTIONS OF THE STATES. DEGREE DAY DATA IN THIS TABULATION ARE PRESENTLY AVAILABLE FOR THE 48 CONTERMINOUS STATES WITH THE DISTRICT OF COLUMBIA TREATED AS PART OF MARYLAND.

THE INFORMATION IN THE TABLES IS SELF-EXPLANATORY AND IS DESIGNED TO ALLOW COMPARISON OF THE ENERGY DEMAND FOR THE CURRENT YEAR TO NORMAL AND TO CONDITIONS IN THE PREVIOUS YEAR.

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\*\*NOTE : MONTHLY HEATING DEGREE DAY VALUES IN THIS PUBLICATION MAY DIFFER FROM THE HISTORICAL CLIMATOLOGY SERIES 5-1 DUE TO INTERNAL COMPUTER ROUNDING DIFFERENCES BETWEEN THE TWO PROGRAMS.

THE DATA PRESENTED IN THIS MONTHLY OPERATIONAL REPORT ARE PROVISIONAL AND SUBJECT TO CHANGE AND/OR CORRECTIONS WHICH ARE BASED ON LATER INFORMATION.

STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN												1999--BASE TEMP = 65 DEG F
STATE :	1 ALABAMA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	6	148	471	655	581	481	405	154	10	0
1997/1998	0	0	6	154	625	1280	1861	2342	2747	2901	2911	2911
1997/1998	.0	.0	60.6	97.9	124.0	116.3	102.8	99.9	101.8	102.8	102.0	102.0
1998/1999	0	0	0	85	262	463	537	415	427	58	32	0
1998/1999	0	0	0	85	347	810	1347	1762	2189	2247	2279	2279
1998/1999	.0	.0	.0	54.0	68.9	73.6	74.4	75.1	81.1	79.6	79.9	79.9
STATE :	2 ARIZONA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	3	71	232	571	446	456	301	209	42	6
1997/1998	0	0	3	74	306	877	1323	1779	2080	2289	2331	2337
1997/1998	.0	.0	49.2	96.2	86.7	102.3	95.9	101.8	101.5	104.3	104.6	104.7
1998/1999	0	0	3	64	245	477	412	294	214	190	27	3
1998/1999	0	0	3	67	312	789	1201	1495	1709	1899	1926	1929
1998/1999	.0	.0	49.2	87.1	88.4	92.0	87.1	85.6	83.4	86.6	86.4	86.4
STATE :	3 ARKANSAS											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	1	12	163	523	757	648	521	487	176	8	0
1997/1998	0	1	13	176	699	1456	2104	2625	3112	3288	3296	3296
1997/1998	.0	200.0	72.2	100.9	118.9	111.2	98.2	94.9	97.7	98.7	98.0	97.9
1998/1999	0	0	0	112	344	658	710	448	506	110	38	1
1998/1999	0	0	0	112	456	1114	1824	2272	2778	2888	2926	2927
1998/1999	.0	.0	.0	64.2	77.6	85.1	85.2	82.2	87.2	86.7	87.0	87.0
STATE :	4 CALIFORNIA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	8	2	9	106	239	477	437	421	335	300	222	80
1997/1998	8	10	19	125	364	841	1278	1699	2034	2334	2556	2636
1997/1998	87.9	63.3	40.9	80.1	77.8	88.0	88.2	93.1	92.5	94.8	98.0	99.0
1998/1999	6	0	23	142	330	517	445	407	423	317	165	70
1998/1999	6	6	29	171	501	1018	1463	1870	2293	2610	2775	2845
1998/1999	65.9	38.0	62.4	109.6	107.1	106.5	100.9	102.5	104.2	106.0	106.4	106.8
STATE :	5 COLORADO											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	25	58	165	566	982	1221	1109	970	966	709	302	189
1997/1998	25	83	248	814	1796	3017	4126	5096	6062	6771	7073	7262
1997/1998	112.6	114.3	82.3	96.5	103.3	103.0	98.9	98.4	99.1	100.3	99.2	100.0
1998/1999	9	36	109	536	783	1176	1064	851	784	742	430	160
1998/1999	9	45	154	690	1473	2649	3713	4564	5348	6090	6520	6680
1998/1999	40.5	62.0	51.1	81.8	84.7	90.5	89.0	88.1	87.5	90.2	91.5	92.0

LINE 1 = HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION)  
 LINE 2 = ACCUMULATED HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION)  
 LINE 3 = [ACCUMULATED HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION) / ACCUMULATED NORMAL]\*100  
 PERCENTAGE OF 9999.9 => 10000

STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN												1999--BASE TEMP = 65 DEG F
STATE :	6 CONNECTICUT											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	1	16	110	438	764	996	954	813	780	472	136	36
1997/1998	1	17	127	565	1329	2325	3279	4092	4872	5344	5480	5516
1997/1998	71.4	122.3	106.0	108.4	111.2	103.4	95.0	91.3	91.3	91.2	90.0	90.1
1998/1999	0	1	56	381	680	868	1152	923	837	492	201	8
1998/1999	0	1	57	438	1118	1986	3138	4061	4898	5390	5591	5599
1998/1999	.0	7.2	47.6	84.1	93.5	88.3	90.9	90.7	91.8	92.0	91.9	91.5
STATE :	7 DELAWARE											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	40	255	606	809	731	648	597	281	60	0
1997/1998	0	0	40	295	901	1710	2441	3089	3686	3967	4027	4027
1997/1998	.0	.0	117.0	96.0	106.6	99.5	89.1	85.9	86.5	85.7	85.0	84.9
1998/1999	0	0	7	245	530	720	887	755	716	341	102	0
1998/1999	0	0	7	252	782	1502	2389	3144	3860	4201	4303	4303
1998/1999	.0	.0	20.5	82.0	92.5	87.4	87.2	87.5	90.5	90.7	90.8	90.7
STATE :	8 FLORIDA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	0	6	76	172	168	154	112	11	0	0
1997/1998	0	0	0	6	82	254	422	576	688	699	699	699
1997/1998	.0	.0	.0	84.5	120.1	107.3	91.7	91.6	97.6	97.7	97.7	97.7
1998/1999	0	0	0	3	23	87	162	127	102	2	0	0
1998/1999	0	0	0	3	26	113	275	402	504	506	506	506
1998/1999	.0	.0	.0	42.3	38.1	47.7	59.8	63.9	71.5	70.7	70.7	70.7
STATE :	9 GEORGIA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	6	134	469	614	564	470	417	160	9	0
1997/1998	0	0	6	140	609	1223	1787	2257	2674	2834	2843	2843
1997/1998	.0	.0	62.5	90.7	122.1	112.0	100.0	97.3	100.0	101.0	100.1	100.0
1998/1999	0	0	0	90	246	445	554	443	436	72	41	2
1998/1999	0	0	0	90	336	781	1335	1778	2214	2286	2327	2329
1998/1999	.0	.0	.0	58.3	67.4	71.5	74.7	76.7	82.8	81.5	81.9	81.9
STATE :	10 IDAHO											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	40	26	145	543	817	1187	1013	851	804	565	343	206
1997/1998	40	66	211	754	1571	2758	3771	4622	5426	5991	6334	6540
1997/1998	158.7	93.9	71.9	92.0	93.1	95.8	91.5	91.0	91.7	92.4	92.9	94.0
1998/1999	4	18	100	544	777	1200	1057	930	812	632	404	162
1998/1999	4	22	122	666	1443	2643	3700	4630	5442	6074	6478	6640
1998/1999	15.9	31.3	41.6	81.2	85.5	91.8	89.8	91.2	92.0	93.7	95.0	95.4

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STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN										1999--BASE TEMP = 65 DEG F			
STATE :	11 ILLINOIS												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	1	28	78	364	836	1055	1109	743	809	428	103	29	
1997/1998	1	29	107	471	1307	2362	3471	4214	5023	5451	5554	5583	
1997/1998	45.5	168.6	111.2	101.3	110.2	100.7	94.3	88.5	89.8	90.4	89.2	89.3	
1998/1999	1	6	27	319	617	946	1339	842	896	398	149	19	
1998/1999	1	7	34	353	970	1916	3255	4097	4993	5391	5540	5559	
1998/1999	45.5	40.7	35.3	75.9	81.8	81.7	88.4	86.1	89.3	89.4	89.0	88.9	
STATE :	12 INDIANA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	3	27	90	372	800	1004	957	736	762	391	92	20	
1997/1998	3	30	120	492	1292	2296	3253	3989	4751	5142	5234	5254	
1997/1998	85.7	172.4	124.5	106.6	113.3	103.4	93.7	88.6	89.8	90.1	89.0	88.9	
1998/1999	5	6	30	313	609	895	1213	827	903	357	135	14	
1998/1999	5	11	41	354	963	1858	3071	3898	4801	5158	5293	5307	
1998/1999	142.9	63.2	42.5	76.7	84.4	83.7	88.5	86.6	90.8	90.4	90.0	89.8	
STATE :	13 IOWA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	6	31	91	400	952	1158	1279	843	983	457	112	56	
1997/1998	6	37	128	528	1480	2638	3917	4760	5743	6200	6312	6368	
1997/1998	103.4	134.1	91.4	95.5	107.7	98.6	94.7	89.8	92.5	92.9	92.0	92.4	
1998/1999	5	11	41	378	721	1094	1491	904	900	450	188	37	
1998/1999	5	16	57	435	1156	2250	3741	4645	5545	5995	6183	6220	
1998/1999	86.2	58.0	40.7	78.6	84.1	84.1	90.4	87.6	89.3	89.9	90.1	90.2	
STATE :	14 KANSAS												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	8	33	241	708	982	990	696	816	365	43	9	
1997/1998	0	8	41	282	990	1972	2962	3658	4474	4839	4882	4891	
1997/1998	.0	127.0	70.6	90.0	105.4	101.0	96.1	92.6	97.5	99.2	98.0	98.0	
1998/1999	0	0	10	214	497	907	1062	622	675	308	113	20	
1998/1999	0	0	10	224	721	1628	2690	3312	3987	4295	4408	4428	
1998/1999	.0	.0	17.2	71.5	76.7	83.4	87.3	83.9	86.9	88.0	88.5	88.7	
STATE :	15 KENTUCKY												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	3	51	277	668	867	749	633	578	313	54	4	
1997/1998	0	3	54	331	999	1866	2615	3248	3826	4139	4193	4197	
1997/1998	.0	300.0	113.7	102.3	115.1	107.2	94.7	90.7	91.7	93.0	92.0	91.9	
1998/1999	0	0	10	209	486	741	849	661	721	213	92	3	
1998/1999	0	0	10	219	705	1446	2295	2956	3677	3890	3982	3985	
1998/1999	.0	.0	21.1	67.7	81.2	83.1	83.1	82.6	88.1	87.4	87.4	87.3	

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STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN										1999--BASE TEMP = 65 DEG F			
STATE :	16 LOUISIANA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	0	0	51	281	466	385	333	238	64	0	0	
1997/1998	0	0	0	51	332	798	1183	1516	1754	1818	1818	1818	
1997/1998	.0	.0	.0	84.4	125.4	117.9	98.9	96.6	98.4	99.6	99.6	99.6	
1998/1999	0	0	0	27	139	329	368	233	216	10	0	0	
1998/1999	0	0	0	27	166	495	863	1096	1312	1322	1322	1322	
1998/1999	.0	.0	.0	44.7	62.7	73.1	72.2	69.9	73.6	72.4	72.4	72.4	
STATE :	17 MAINE												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	29	70	247	614	945	1263	1355	1068	1014	648	253	156	
1997/1998	29	99	346	960	1905	3168	4523	5591	6605	7253	7506	7662	
1997/1998	89.0	103.6	104.8	108.6	109.1	103.8	100.0	96.6	96.1	95.7	94.3	95.0	
1998/1999	28	44	195	558	862	1109	1462	1137	1000	664	288	43	
1998/1999	28	72	267	825	1687	2796	4258	5395	6395	7059	7347	7390	
1998/1999	85.9	75.3	80.8	93.4	96.6	91.6	94.1	93.2	93.1	93.1	92.3	91.6	
STATE :	18 MARYLAND & D.C.												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	1	41	272	640	825	750	662	598	265	51	1	
1997/1998	0	1	42	314	954	1779	2529	3191	3789	4054	4105	4106	
1997/1998	.0	250.0	106.1	95.9	108.0	100.2	90.2	87.1	87.7	86.8	85.9	85.8	
1998/1999	0	0	5	246	524	700	903	755	716	319	85	1	
1998/1999	0	0	5	251	775	1475	2378	3133	3849	4168	4253	4254	
1998/1999	.0	.0	12.6	76.7	87.7	83.1	84.8	85.5	89.1	89.2	88.9	88.9	
STATE :	19 MASSACHUSETTS												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	1	16	115	467	775	1000	1013	851	801	517	181	65	
1997/1998	1	17	132	599	1374	2374	3387	4238	5039	5556	5737	5802	
1997/1998	52.6	92.9	91.8	106.2	109.1	101.8	95.2	91.9	91.5	91.4	90.4	90.6	
1998/1999	1	5	72	391	696	863	1139	926	847	520	233	13	
1998/1999	1	6	78	469	1165	2028	3167	4093	4940	5460	5693	5706	
1998/1999	52.6	32.8	54.2	83.1	92.5	86.9	89.0	88.7	89.7	89.8	89.7	89.1	
STATE :	20 MICHIGAN												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	13	58	140	463	867	1051	1092	855	878	502	136	54	
1997/1998	13	71	211	674	1541	2592	3684	4539	5417	5919	6055	6109	
1997/1998	142.9	196.7	130.4	110.9	112.3	102.2	95.2	90.5	90.8	90.8	89.3	89.3	
1998/1999	6	12	61	397	684	964	1355	951	1004	495	193	31	
1998/1999	6	18	79	476	1160	2124	3479	4430	5434	5929	6122	6153	
1998/1999	65.9	49.9	48.8	78.4	84.5	83.7	89.9	88.4	91.1	90.9	90.3	90.0	

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STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN										1999--BASE TEMP = 65 DEG F		
STATE :	21 MINNESOTA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	29	64	147	516	1147	1230	1507	978	1105	503	162	116
1997/1998	29	93	240	756	1903	3133	4640	5618	6723	7226	7388	7504
1997/1998	128.3	127.7	82.0	89.1	101.9	91.8	90.2	85.9	87.6	87.0	85.9	86.4
1998/1999	19	23	94	483	907	1317	1713	1119	1021	563	223	82
1998/1999	19	42	136	619	1526	2843	4556	5675	6696	7259	7482	7564
1998/1999	84.1	57.7	46.4	73.0	81.7	83.3	88.6	86.8	87.2	87.4	87.0	87.1
STATE :	22 MISSISSIPPI											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	2	117	424	610	523	439	337	119	4	0
1997/1998	0	0	2	119	543	1153	1676	2115	2452	2571	2575	2575
1997/1998	.0	.0	39.2	95.9	127.4	117.9	102.1	99.2	100.3	101.4	101.0	101.0
1998/1999	0	0	0	60	226	460	496	345	360	36	13	0
1998/1999	0	0	0	60	286	746	1242	1587	1947	1983	1996	1996
1998/1999	.0	.0	.0	48.3	67.1	76.3	75.7	74.4	79.7	78.2	78.3	78.3
STATE :	23 MISSOURI											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	9	46	272	724	975	956	685	769	352	51	12
1997/1998	0	9	55	327	1051	2026	2982	3667	4436	4788	4839	4851
1997/1998	.0	123.3	86.5	94.9	109.5	102.5	95.2	90.7	94.3	95.8	94.6	94.6
1998/1999	0	0	14	241	515	906	1119	666	731	274	124	14
1998/1999	0	0	14	255	770	1676	2795	3461	4192	4466	4590	4604
1998/1999	.0	.0	22.0	74.0	80.3	84.8	89.2	85.6	89.1	89.3	89.7	89.8
STATE :	24 MONTANA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	83	78	223	614	971	1187	1310	929	1008	602	345	292
1997/1998	83	161	384	998	1969	3156	4466	5395	6403	7005	7350	7642
1997/1998	131.5	107.1	81.0	91.5	94.5	92.8	93.3	92.0	93.3	93.0	92.5	93.8
1998/1999	23	41	150	618	882	1280	1197	926	873	708	463	233
1998/1999	23	64	214	832	1714	2994	4191	5117	5990	6698	7161	7394
1998/1999	36.5	42.6	45.2	76.3	82.3	88.0	87.6	87.2	87.3	89.0	90.1	90.8
STATE :	25 NEBRASKA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	6	19	78	371	888	1098	1220	822	1031	470	119	61
1997/1998	6	25	103	474	1362	2460	3680	4502	5533	6003	6122	6183
1997/1998	113.2	128.9	78.5	91.2	102.8	96.6	94.7	91.2	95.8	96.8	96.0	96.4
1998/1999	5	9	32	343	690	1075	1267	806	806	464	193	51
1998/1999	5	14	46	389	1079	2154	3421	4227	5033	5497	5690	5741
1998/1999	94.3	72.2	35.1	74.9	81.5	84.6	88.0	85.6	87.1	88.7	89.2	89.5

LINE 1 = HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION)  
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 LINE 3 = [ACCUMULATED HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION) / ACCUMULATED NORMAL]\*100  
 PERCENTAGE OF 9999.9 => 10000

STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN												1999--BASE TEMP = 65 DEG F
STATE :	26 NEVADA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	7	6	52	254	473	830	685	644	498	385	232	75
1997/1998	7	13	65	319	792	1622	2307	2951	3449	3834	4066	4141
1997/1998	189.2	85.5	75.8	94.8	88.9	94.6	90.2	93.1	93.0	94.6	96.5	97.2
1998/1999	1	4	50	286	523	809	690	567	449	405	152	47
1998/1999	1	5	55	341	864	1673	2363	2930	3379	3784	3936	3983
1998/1999	27.0	32.9	64.1	101.4	97.0	97.5	92.4	92.5	91.1	93.3	93.4	93.5
STATE :	27 NEW HAMPSHIRE											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	21	50	206	582	906	1171	1235	994	939	580	205	90
1997/1998	21	71	277	859	1765	2936	4171	5165	6104	6684	6889	6979
1997/1998	141.9	109.7	101.8	106.7	107.6	101.1	96.5	93.4	93.1	92.8	91.7	91.9
1998/1999	13	26	140	488	798	1025	1372	1086	977	613	273	22
1998/1999	13	39	179	667	1465	2490	3862	4948	5925	6538	6811	6833
1998/1999	87.8	60.3	65.8	82.9	89.3	85.8	89.3	89.4	90.4	90.8	90.6	90.0
STATE :	28 NEW JERSEY											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	5	72	341	683	892	820	732	677	369	99	17
1997/1998	0	5	77	418	1101	1993	2813	3545	4222	4591	4690	4707
1997/1998	.0	250.0	114.4	103.1	108.7	100.9	91.0	87.8	87.9	87.5	86.6	86.7
1998/1999	0	0	28	315	611	776	1004	842	782	429	162	5
1998/1999	0	0	28	343	954	1730	2734	3576	4358	4787	4949	4954
1998/1999	.0	.0	41.6	84.6	94.2	87.6	88.4	88.5	90.7	91.2	91.4	91.2
STATE :	29 NEW MEXICO											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	3	5	26	314	662	1015	846	741	629	450	125	28
1997/1998	3	8	34	348	1010	2025	2871	3612	4241	4691	4816	4844
1997/1998	96.8	68.4	44.3	92.2	100.4	105.9	100.5	101.0	101.4	103.4	102.8	102.8
1998/1999	1	5	21	276	558	845	776	611	512	396	156	33
1998/1999	1	6	27	303	861	1706	2482	3093	3605	4001	4157	4190
1998/1999	32.3	51.3	35.2	80.3	85.6	89.2	86.9	86.5	86.2	88.2	88.7	88.9
STATE :	30 NEW YORK											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	7	19	100	379	728	948	925	808	767	458	125	35
1997/1998	7	26	126	505	1233	2181	3106	3914	4681	5139	5264	5299
1997/1998	152.2	139.0	113.6	105.8	109.6	101.6	93.3	90.0	90.0	90.0	88.8	88.9
1998/1999	5	7	54	328	623	813	1115	892	854	463	166	11
1998/1999	5	12	66	394	1017	1830	2945	3837	4691	5154	5320	5331
1998/1999	108.7	64.2	59.5	82.6	90.4	85.3	88.5	88.2	90.2	90.3	89.8	89.4

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 PERCENTAGE OF 9999.9 => 10000



STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN												1999--BASE TEMP = 65 DEG F	
STATE :	31 NORTH CAROLINA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	1	18	200	537	726	651	549	490	195	28	1	
1997/1998	0	1	19	219	756	1482	2133	2682	3172	3367	3395	3396	
1997/1998	.0	9999.9	103.8	99.6	118.7	111.1	99.9	96.5	97.9	98.1	97.3	97.2	
1998/1999	0	0	3	160	385	557	629	565	563	147	65	4	
1998/1999	0	0	3	163	548	1105	1734	2299	2862	3009	3074	3078	
1998/1999	.0	.0	16.4	74.2	86.0	82.9	81.2	82.7	88.3	87.6	88.1	88.1	
STATE :	32 NORTH DAKOTA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	34	56	171	611	1191	1243	1709	1056	1324	535	263	181	
1997/1998	34	90	261	872	2063	3306	5015	6071	7395	7930	8193	8374	
1997/1998	104.6	95.5	70.6	88.0	97.3	87.9	90.0	86.5	89.8	88.8	88.4	89.2	
1998/1999	25	24	141	598	1093	1490	1829	1208	1070	662	331	130	
1998/1999	25	49	190	788	1881	3371	5200	6408	7478	8140	8471	8601	
1998/1999	76.9	52.0	51.4	79.5	88.7	89.6	93.4	91.3	90.8	91.2	91.4	91.7	
STATE :	33 OHIO												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	6	29	115	383	784	981	924	756	742	429	104	29	
1997/1998	6	35	150	533	1317	2298	3222	3978	4720	5149	5253	5282	
1997/1998	150.0	209.6	138.6	109.7	113.5	104.0	94.1	89.4	89.9	90.3	89.1	89.0	
1998/1999	3	4	42	343	631	865	1152	858	937	381	152	16	
1998/1999	3	7	49	392	1023	1888	3040	3898	4835	5216	5368	5384	
1998/1999	75.0	41.9	45.3	80.7	88.2	85.5	88.7	87.6	92.1	91.5	91.0	90.8	
STATE :	34 OKLAHOMA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	0	11	145	557	805	756	564	576	241	9	0	
1997/1998	0	0	11	156	713	1518	2274	2838	3414	3655	3664	3664	
1997/1998	.0	.0	55.8	94.0	116.4	108.6	99.4	96.2	100.4	102.7	102.0	102.0	
1998/1999	0	0	0	113	363	738	784	443	511	163	41	1	
1998/1999	0	0	0	113	476	1214	1998	2441	2952	3115	3156	3157	
1998/1999	.0	.0	.0	68.1	77.7	86.9	87.3	82.8	86.8	87.5	87.8	87.9	
STATE :	35 OREGON												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	52	28	108	418	533	818	708	593	583	466	360	151	
1997/1998	52	80	188	606	1139	1957	2665	3258	3841	4307	4667	4818	
1997/1998	81.6	62.1	65.5	89.7	87.3	92.1	90.0	90.2	90.7	91.1	92.1	92.1	
1998/1999	20	35	91	408	579	861	759	671	671	515	400	196	
1998/1999	20	55	146	554	1133	1994	2753	3424	4095	4610	5010	5206	
1998/1999	31.4	42.7	50.9	82.0	86.9	93.8	92.9	94.8	96.6	97.5	98.9	99.6	

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 PERCENTAGE OF 9999.9 => 10000

STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN												1999--BASE TEMP = 65 DEG F	
STATE :	36 PENNSYLVANIA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	6	20	117	386	763	966	885	765	726	409	108	36	
1997/1998	6	26	143	529	1292	2258	3143	3908	4634	5043	5151	5187	
1997/1998	101.7	125.6	119.2	103.7	109.5	102.2	92.5	88.7	88.9	88.7	87.5	87.6	
1998/1999	6	6	53	360	652	841	1101	884	886	442	170	21	
1998/1999	6	12	65	425	1077	1918	3019	3903	4789	5231	5401	5422	
1998/1999	101.7	58.0	54.2	83.3	91.3	86.8	88.9	88.6	91.8	92.0	91.8	91.6	
STATE :	37 RHODE ISLAND												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	13	87	406	722	951	936	792	762	482	159	50	
1997/1998	0	13	100	506	1228	2179	3115	3907	4669	5151	5310	5360	
1997/1998	.0	95.6	90.4	105.8	110.4	103.7	96.3	92.5	92.0	91.6	90.1	90.2	
1998/1999	0	0	46	344	638	809	1060	851	781	473	194	11	
1998/1999	0	0	46	390	1028	1837	2897	3748	4529	5002	5196	5207	
1998/1999	.0	.0	41.6	81.6	92.4	87.4	89.5	88.8	89.2	89.0	88.2	87.6	
STATE :	38 SOUTH CAROLINA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	0	3	136	460	619	559	462	415	132	8	0	
1997/1998	0	0	3	139	599	1218	1777	2239	2654	2786	2794	2794	
1997/1998	.0	.0	55.6	97.3	126.4	114.9	101.8	98.5	101.1	101.6	101.0	100.9	
1998/1999	0	0	0	95	264	446	533	458	449	73	36	1	
1998/1999	0	0	0	95	359	805	1338	1796	2245	2318	2354	2355	
1998/1999	.0	.0	.0	66.5	75.7	76.0	76.7	79.0	85.5	84.5	85.1	85.1	
STATE :	39 SOUTH DAKOTA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	24	35	123	450	1040	1147	1388	901	1171	531	197	145	
1997/1998	24	59	182	632	1672	2819	4207	5108	6279	6810	7007	7152	
1997/1998	141.2	135.0	84.2	89.9	101.6	92.9	92.5	88.9	93.2	93.5	93.0	93.9	
1998/1999	16	19	68	476	849	1195	1463	910	888	574	273	94	
1998/1999	16	35	103	579	1428	2623	4086	4996	5884	6458	6731	6825	
1998/1999	94.1	80.1	47.6	82.4	86.8	86.5	89.9	87.0	87.3	88.7	89.3	89.6	
STATE :	40 TENNESSEE												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	0	0	27	246	634	807	713	587	532	252	35	0	
1997/1998	0	0	27	273	907	1714	2427	3014	3546	3798	3833	3833	
1997/1998	.0	.0	84.6	100.0	119.5	110.7	98.4	94.5	95.8	96.8	95.8	95.7	
1998/1999	0	0	5	163	428	678	734	578	634	148	77	0	
1998/1999	0	0	5	168	596	1274	2008	2586	3220	3368	3445	3445	
1998/1999	.0	.0	15.7	61.5	78.5	82.3	81.4	81.1	87.0	85.9	86.1	86.0	

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STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN												1999--BASE TEMP = 65 DEG F
STATE :	41 TEXAS											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	0	53	321	531	401	345	282	89	0	0
1997/1998	0	0	0	53	374	905	1306	1651	1933	2022	2022	2022
1997/1998	.0	.0	.0	88.6	126.2	117.4	97.8	95.0	97.8	99.3	99.1	99.1
1998/1999	0	0	0	31	178	444	410	227	232	43	4	0
1998/1999	0	0	0	31	209	653	1063	1290	1522	1565	1569	1569
1998/1999	.0	.0	.0	51.8	70.5	84.7	79.6	74.3	77.0	76.9	76.9	76.9
STATE :	42 UTAH											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	5	4	96	451	754	1195	948	836	777	555	280	158
1997/1998	5	9	105	556	1310	2505	3453	4289	5066	5621	5901	6059
1997/1998	172.4	76.3	65.4	91.3	92.6	97.4	91.0	90.5	91.3	92.5	92.7	93.9
1998/1999	1	3	78	456	720	1153	971	820	650	605	327	80
1998/1999	1	4	82	538	1258	2411	3382	4202	4852	5457	5784	5864
1998/1999	34.5	33.9	51.1	88.4	88.9	93.8	89.1	88.6	87.5	89.8	90.9	90.9
STATE :	43 VERMONT											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	46	93	265	635	964	1262	1321	1075	1014	616	191	81
1997/1998	46	139	404	1039	2003	3265	4586	5661	6675	7291	7482	7563
1997/1998	207.2	165.9	132.2	121.5	116.5	107.6	101.4	97.4	96.8	96.4	94.9	94.9
1998/1999	28	53	189	539	854	1068	1465	1188	1102	678	255	30
1998/1999	28	81	270	809	1663	2731	4196	5384	6486	7164	7419	7449
1998/1999	126.1	96.7	88.4	94.6	96.7	90.0	92.8	92.7	94.1	94.7	94.1	93.5
STATE :	44 VIRGINIA											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	1	48	281	627	822	747	654	601	278	64	6
1997/1998	0	1	49	330	957	1779	2526	3180	3781	4059	4123	4129
1997/1998	.0	100.0	119.5	106.1	115.9	107.6	96.9	93.6	94.7	94.5	93.8	93.8
1998/1999	0	0	8	244	516	682	810	703	700	279	102	7
1998/1999	0	0	8	252	768	1450	2260	2963	3663	3942	4044	4051
1998/1999	.0	.0	19.5	81.0	93.0	87.7	86.7	87.2	91.7	91.7	92.0	92.0
STATE :	45 WASHINGTON											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	67	31	124	451	584	820	812	605	600	460	295	144
1997/1998	67	98	222	673	1257	2077	2889	3494	4094	4554	4849	4993
1997/1998	85.8	63.0	63.8	84.7	84.9	87.9	88.5	88.1	88.3	88.7	88.7	88.6
1998/1999	25	42	110	449	607	876	788	688	678	517	404	199
1998/1999	25	67	177	626	1233	2109	2897	3585	4263	4780	5184	5383
1998/1999	32.0	43.1	50.8	78.8	83.3	89.3	88.7	90.4	92.0	93.1	94.8	95.5

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STATE HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION), THRU JUN										1999--BASE TEMP = 65 DEG F			
STATE :	46 WEST VIRGINIA												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	3	20	109	375	744	922	842	724	697	373	107	28	
1997/1998	3	23	132	507	1251	2173	3015	3739	4436	4809	4916	4944	
1997/1998	85.7	196.6	144.9	113.7	117.3	108.1	97.3	93.4	94.5	94.7	93.8	93.8	
1998/1999	3	3	35	322	619	818	949	807	879	320	153	20	
1998/1999	3	6	41	363	982	1800	2749	3556	4435	4755	4908	4928	
1998/1999	85.7	51.3	45.0	81.4	92.1	89.5	88.7	88.8	94.5	93.6	93.7	93.5	
STATE :	47 WISCONSIN												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	23	74	142	483	970	1139	1284	889	972	536	173	85	
1997/1998	23	97	239	722	1692	2831	4115	5004	5976	6512	6685	6770	
1997/1998	158.6	183.0	111.9	103.0	107.6	97.1	92.7	88.0	89.0	89.1	88.0	88.2	
1998/1999	13	18	74	435	755	1117	1549	997	984	532	226	63	
1998/1999	13	31	105	540	1295	2412	3961	4958	5942	6474	6700	6763	
1998/1999	89.7	58.5	49.2	77.0	82.3	82.8	89.3	87.2	88.5	88.6	88.2	88.1	
STATE :	48 WYOMING												
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
1997/1998	56	58	216	610	1023	1321	1261	1022	1087	698	380	310	
1997/1998	56	114	330	940	1963	3284	4545	5567	6654	7352	7732	8042	
1997/1998	149.7	112.2	84.8	94.3	98.9	99.6	97.5	96.5	98.1	98.3	97.8	99.5	
1998/1999	21	45	150	625	879	1287	1188	957	880	791	485	205	
1998/1999	21	66	216	841	1720	3007	4195	5152	6032	6823	7308	7513	
1998/1999	56.1	65.0	55.5	84.3	86.7	91.2	90.0	89.3	88.9	91.3	92.5	93.0	

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 LINE 2 = ACCUMULATED HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION)  
 LINE 3 = [ACCUMULATED HEATING DEGREE DAYS (DIVISIONS WEIGHTED BY 1990 POPULATION) / ACCUMULATED NORMAL]\*100  
 PERCENTAGE OF 9999.9 => 10000

## 2. REGIONAL POPULATION-WEIGHTED HEATING DEGREE DAYS

THE NATION WAS DIVIDED INTO NINE CENSUS REGIONS AS DEFINED AND USED BY THE BUREAU OF THE CENSUS. THE REGIONS AND STATES THEY COMPRISE ARE LISTED ON THE NEXT PAGE. THE POPULATION WEIGHTS USED TO PRODUCE MONTHLY AND REGIONAL DEGREE DAY TOTALS ARE ALSO SHOWN. THESE WEIGHTS WERE OBTAINED BY DIVIDING EACH STATE'S POPULATION BY THE TOTAL REGIONAL POPULATION.

A PARTICULAR REGIONAL MONTHLY DEGREE DAY VALUE WAS OBTAINED BY MULTIPLYING THE CORRESPONDING STATE DEGREE DAY TOTALS WITHIN A REGION BY THE APPROPRIATE WEIGHT AND ADDING ALL THE PRODUCTS. SEASONAL VALUES ARE OBTAINED BY SUMMING THE MONTHLY TOTALS.

MONTHLY AND SEASONAL DEGREE DAY TOTALS FOR THE NINE CENSUS REGIONS ARE PRESENTED IN THE TABLES FOLLOWING THE WEIGHTS.

2.2 STATE POPULATION-WEIGHTS (1990 CENSUS) FOR THE  
CENSUS REGIONS OF THE UNITED STATES

01	NEW ENGLAND		04	WEST NORTH CENTRAL		07	WEST SOUTH CENTRAL	
01	CONNECTICUT	.24890	01	IOWA	.15720	01	ARKANSAS	.08810
02	MAINE	.09300	02	KANSAS	.14030	02	LOUISIANA	.15800
03	MASSACHUSETTS	.45550	03	MINNESOTA	.24770	03	OKLAHOMA	.11780
04	NEW HAMPSHIRE	.08400	04	MISSOURI	.28980	04	TEXAS	.63610
05	RHODE ISLAND	.07600	05	NEBRASKA	.08940			
06	VERMONT	.04260	06	NORTH DAKOTA	.03620	08	MOUNTAIN	
			07	SOUTH DAKOTA	.03940			
02	MIDDLE ATLANTIC		05	SOUTH ATLANTIC		01	ARIZONA	.26830
01	NEW JERSEY	.20560	01	DELAWARE	.01530	02	COLORADO	.24120
02	NEW YORK	.47840	02	FLORIDA	.29700	03	IDAHO	.07370
03	PENNSYLVANIA	.31600	03	GEORGIA	.14870	04	MONTANA	.05860
03	EAST NORTH CENTRAL		04	MARYLAND AND D.C.	.12370	05	NEVADA	.08800
01	ILLINOIS	.27210	05	NORTH CAROLINA	.15210	06	NEW MEXICO	.11090
02	INDIANA	.13200	06	SOUTH CAROLINA	.08000	07	UTAH	.12610
03	MICHIGAN	.22130	07	VIRGINIA	.14200	08	WYOMING	.03320
04	OHIO	.25820	08	WEST VIRGINIA	.04120	09	PACIFIC (AK,HI OMITTED)	
05	WISCONSIN	.11640	06	EAST SOUTH CENTRAL		01	CALIFORNIA	.79420
			01	ALABAMA	.26620	02	OREGON	.07590
			02	KENTUCKY	.24280	03	WASHINGTON	.12990
			03	MISSISSIPPI	.16960			
			04	TENNESSEE	.32140			

REGIONAL HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION), THRU JUN											1999--BASE TEMP = 65 DEG F	
REGION :	1 NEW ENGLAND											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	7	27	138	486	803	1045	1056	879	833	525	177	68
1997/1998	7	34	172	658	1461	2506	3562	4441	5274	5799	5976	6044
1997/1998	104.5	109.7	100.8	107.9	109.9	102.7	96.2	92.8	92.4	92.2	91.1	91.3
1998/1999	5	11	88	415	718	905	1200	964	876	537	231	16
1998/1999	5	16	104	519	1237	2142	3342	4306	5182	5719	5950	5966
1998/1999	74.6	51.6	60.9	85.1	93.0	87.8	90.3	89.9	90.8	91.0	90.7	90.1
REGION :	2 MIDDLE ATLANTIC											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	5	16	100	373	730	942	891	779	736	424	114	32
1997/1998	5	21	121	494	1224	2166	3057	3836	4572	4996	5110	5142
1997/1998	122.0	131.2	115.2	104.4	109.3	101.6	92.6	89.1	89.2	89.1	88.0	88.1
1998/1999	4	5	48	335	630	814	1088	879	849	449	166	13
1998/1999	4	9	57	392	1022	1836	2924	3803	4652	5101	5267	5280
1998/1999	97.6	56.2	54.3	82.9	91.3	86.1	88.6	88.4	90.8	91.0	90.7	90.4
REGION :	3 E. N. CENTRAL											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	8	40	110	406	840	1038	1058	787	820	452	117	40
1997/1998	8	48	158	564	1404	2442	3500	4287	5107	5559	5676	5716
1997/1998	137.9	188.2	123.9	106.6	111.5	101.6	94.2	89.1	89.9	90.2	89.0	89.0
1998/1999	5	8	44	355	650	942	1302	886	942	425	167	25
1998/1999	5	13	57	412	1062	2004	3306	4192	5134	5559	5726	5751
1998/1999	86.2	51.0	44.7	77.9	84.3	83.4	88.9	87.1	90.4	90.2	89.8	89.6
REGION :	4 W. N. CENTRAL											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	11	30	87	376	906	1095	1216	818	952	432	106	60
1997/1998	11	41	128	504	1410	2505	3721	4539	5491	5923	6029	6089
1997/1998	117.0	126.5	82.6	91.5	104.5	96.5	93.2	89.0	92.0	92.5	91.5	91.8
1998/1999	7	10	46	350	692	1085	1369	851	847	421	177	46
1998/1999	7	17	63	413	1105	2190	3559	4410	5257	5678	5855	5901
1998/1999	74.5	52.5	40.7	74.9	81.9	84.3	89.1	86.5	88.1	88.7	88.8	88.9
REGION :	5 SOUTH ATLANTIC											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	1	21	156	419	571	522	451	400	159	27	2
1997/1998	0	1	22	178	597	1168	1690	2141	2541	2700	2727	2729
1997/1998	.0	142.9	111.1	100.1	116.4	107.7	96.3	93.4	95.1	95.1	94.3	94.3
1998/1999	0	0	4	128	295	441	548	464	452	137	52	3
1998/1999	0	0	4	132	427	868	1416	1880	2332	2469	2521	2524
1998/1999	.0	.0	20.2	74.2	83.3	80.1	80.7	82.0	87.3	86.9	87.2	87.2

LINE 1 = HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION)  
 LINE 2 = ACCUMULATED HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION)  
 LINE 3 = [ACCUMULATED HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION) / ACCUMULATED NORMAL]\*100  
 PERCENTAGE OF 9999.9 => 10000

REGIONAL HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION), THRU JUN												1999--BASE TEMP = 65 DEG F
REGION :	6 E. S. CENTRAL											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	1	23	206	563	748	654	545	476	218	28	1
1997/1998	0	1	24	230	793	1541	2195	2740	3216	3434	3462	3463
1997/1998	.0	250.0	94.1	100.2	119.9	111.7	98.7	95.1	96.4	97.5	96.6	96.5
1998/1999	0	0	4	136	364	599	669	515	554	121	58	1
1998/1999	0	0	4	140	504	1103	1772	2287	2841	2962	3020	3021
1998/1999	.0	.0	15.7	61.0	76.2	79.9	79.7	79.4	85.2	84.1	84.2	84.2
REGION :	7 W. S. CENTRAL											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	0	0	2	73	360	573	462	384	328	111	2	0
1997/1998	0	0	2	75	435	1008	1470	1854	2182	2293	2295	2295
1997/1998	.0	.0	35.7	90.7	122.7	114.9	98.2	95.4	98.2	99.9	99.5	99.5
1998/1999	0	0	0	47	208	479	474	273	286	58	11	0
1998/1999	0	0	0	47	255	734	1208	1481	1767	1825	1836	1836
1998/1999	.0	.0	.0	56.8	71.9	83.6	80.7	76.2	79.6	79.5	79.6	79.6
REGION :	8 MOUNTAIN											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	17	24	91	366	660	985	854	752	680	481	212	119
1997/1998	17	41	132	498	1158	2143	2997	3749	4429	4910	5122	5241
1997/1998	129.8	104.9	76.3	93.9	96.9	99.9	95.6	96.1	96.7	98.0	97.7	98.5
1998/1999	5	15	65	357	591	928	824	660	565	500	256	90
1998/1999	5	20	85	442	1033	1961	2785	3445	4010	4510	4766	4856
1998/1999	38.2	51.2	49.1	83.4	86.4	91.4	88.8	88.3	87.6	90.0	90.9	91.3
REGION :	9 PACIFIC											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	19	8	31	174	306	547	506	458	388	333	242	94
1997/1998	19	27	58	232	538	1085	1591	2049	2437	2770	3012	3106
1997/1998	85.2	63.2	55.7	83.3	81.1	88.4	88.3	91.5	91.2	92.9	95.1	95.7
1998/1999	10	8	39	202	385	590	513	464	475	358	214	96
1998/1999	10	18	57	259	644	1234	1747	2211	2686	3044	3258	3354
1998/1999	44.8	42.2	54.7	93.0	97.1	100.5	97.0	98.7	100.5	102.0	102.9	103.4

LINE 1 = HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION)  
 LINE 2 = ACCUMULATED HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION)  
 LINE 3 = [ACCUMULATED HEATING DEGREE DAYS (STATES WEIGHTED BY 1990 POPULATION) / ACCUMULATED NORMAL]\*100  
 PERCENTAGE OF 9999.9 => 10000



### 3. NATIONAL POPULATION-WEIGHTED HEATING DEGREE DAYS

THE NATIONAL DEGREE DAY TOTALS WERE DERIVED BY POPULATION WEIGHTING THE DEGREE DAY VALUES FOR THE NINE CENSUS REGIONS. THE WEIGHTS USED TO DERIVE THE NATIONAL MONTHLY DEGREE DAY VALUES ARE GIVEN BELOW:

#### 3.2 REGIONAL POPULATION WEIGHTS OF THE CONTERMINOUS UNITED STATES

01 NEW ENGLAND	.05350
02 MIDDLE ATLANTIC	.15220
03 EAST NORTH CENTRAL	.17000
04 WEST NORTH CENTRAL	.07150
05 SOUTH ATLANTIC	.17630
06 EAST SOUTH CENTRAL	.06140
07 WEST SOUTH CENTRAL	.10810
08 MOUNTAIN	.05530
09 PACIFIC	.15170

MONTHLY AND SEASONAL DEGREE TOTALS FOR THE CONTERMINOUS UNITED STATES ARE SHOWN IN THE FOLLOWING TABLE.

NATIONAL HEATING DEGREE DAYS (REGIONS WEIGHTED BY 1990 POPULATION), THRU JUN										1999--BASE TEMP = 65 DEG F		
REGION :	11 NATIONAL											
SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1997/1998	7	16	63	273	592	800	765	623	596	331	109	41
1997/1998	7	23	86	359	951	1751	2516	3139	3735	4066	4175	4216
1997/1998	102.9	117.3	96.7	99.7	107.1	101.5	94.2	91.2	92.2	92.6	92.0	92.1
1998/1999	4	5	33	245	482	717	861	647	645	319	139	31
1998/1999	4	9	42	287	769	1486	2347	2994	3639	3958	4097	4128
1998/1999	58.8	45.9	47.2	79.7	86.6	86.2	87.8	87.0	89.8	90.2	90.2	90.2

LINE 1 = HEATING DEGREE DAYS (REGIONS WEIGHTED BY 1990 POPULATION)  
 LINE 2 = ACCUMULATED HEATING DEGREE DAYS (REGIONS WEIGHTED BY 1990 POPULATION)  
 LINE 3 = [ACCUMULATED HEATING DEGREE DAYS (REGIONS WEIGHTED BY 1990 POPULATION) / ACCUMULATED NORMAL]\*100  
 PERCENTAGE OF 9999.9 => 10000

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AREA	JAN	STATE AVERAGE FEB	TEMPERATURE MAR	(DEG F) APR	(DIVISIONS MAY	WEIGHTED BY AREA) JUN	-- 1998 JUL	OCT AUG	NOV SEP	DEC		
ALABAMA	47.5	48.8	53.0	61.3	73.4	80.6	81.7	80.0	77.4	66.7	57.8	51.3
ARIZONA	44.6	43.0	50.4	53.9	64.5	73.0	82.1	81.1	74.6	61.6	51.4	43.7
ARKANSAS	44.3	46.5	49.7	60.0	72.9	80.2	84.2	81.2	78.1	64.4	53.8	43.9
CALIFORNIA	46.9	46.1	51.5	53.5	57.3	66.7	76.2	77.5	70.5	59.3	50.6	43.4
COLORADO	27.7	29.5	34.0	41.4	54.9	59.9	69.7	66.9	63.1	47.8	37.9	26.5
CONNECTICUT	33.3	35.2	39.3	49.0	61.7	66.1	71.6	72.4	64.8	52.1	41.5	36.4
DELAWARE	42.8	42.4	46.5	56.4	65.6	72.0	76.6	75.5	72.0	58.4	48.0	42.8
FLORIDA	60.6	60.0	62.1	69.7	77.4	84.0	83.6	82.8	80.4	75.1	69.9	65.0
GEORGIA	49.2	50.1	53.7	62.4	74.1	81.1	82.5	79.6	76.4	66.8	59.9	53.0
IDAHO	29.5	31.1	35.9	43.8	51.8	56.3	71.0	68.7	62.4	45.0	37.0	24.5
ILLINOIS	31.6	39.6	40.4	52.5	67.4	71.8	75.6	75.1	71.1	56.7	45.6	35.2
INDIANA	34.7	39.0	41.0	52.4	66.6	71.1	73.7	73.9	69.8	55.8	45.0	36.5
IOWA	23.4	34.5	32.5	49.6	65.3	67.4	74.2	73.4	68.6	53.2	40.7	29.3
KANSAS	32.5	39.4	37.8	51.7	67.9	73.6	79.7	78.0	74.7	58.4	47.0	34.6
KENTUCKY	41.1	42.4	46.7	54.9	68.2	73.9	76.5	75.7	73.3	59.5	48.8	41.0
LOUISIANA	53.1	53.1	57.9	64.5	77.0	83.5	85.6	83.9	80.7	70.3	61.3	53.3
MAINE	17.3	23.3	29.4	41.4	56.7	60.0	66.5	65.2	57.1	45.2	33.8	26.4
MARYLAND & D.C.	40.9	41.2	45.6	56.1	66.0	71.2	75.7	75.5	71.9	57.3	47.4	42.3
MASSACHUSETTS	31.4	33.7	38.2	47.3	59.7	64.3	70.8	70.6	63.5	51.6	40.9	36.5
MICHIGAN	25.2	32.3	32.9	45.9	60.7	63.9	69.1	69.4	63.3	50.6	39.6	30.5
MINNESOTA	14.4	29.0	27.7	47.2	61.1	62.6	69.6	69.8	63.4	48.4	32.7	20.2
MISSISSIPPI	48.5	49.4	54.6	62.2	74.0	81.6	82.9	81.6	78.9	67.8	57.8	49.9
MISSOURI	35.0	40.8	40.8	53.9	69.1	73.7	78.1	77.1	73.5	58.5	48.3	36.3
MONTANA	20.2	32.0	30.7	45.7	54.9	56.6	70.6	69.6	63.1	45.7	35.0	22.8
NEBRASKA	26.5	35.2	31.6	47.6	62.4	65.6	75.7	73.8	69.5	52.1	40.8	29.4
NEVADA	35.6	34.3	41.3	44.9	51.3	60.6	73.7	72.9	63.2	48.1	40.1	30.4
NEW HAMPSHIRE	23.6	28.0	33.4	44.7	58.4	62.3	68.0	67.5	60.0	48.3	37.3	30.9
NEW JERSEY	39.2	39.4	43.6	53.1	63.7	69.3	74.9	74.6	68.9	55.5	45.0	40.3
NEW MEXICO	37.6	38.1	43.9	49.3	62.6	70.4	75.3	72.4	69.7	56.0	46.1	37.3
NEW YORK	28.1	30.6	35.1	46.6	61.2	64.5	68.6	68.9	61.9	50.2	39.2	33.4
NORTH CAROLINA	44.6	45.6	49.5	58.8	68.9	76.2	78.7	76.9	73.6	61.5	52.3	47.5
NORTH DAKOTA	10.5	27.8	21.8	47.2	57.5	60.1	70.5	71.0	62.8	45.8	29.1	17.6
OHIO	35.4	38.2	41.3	51.1	65.2	69.5	72.5	72.9	68.3	54.3	43.9	37.0
OKLAHOMA	40.3	44.4	46.0	57.0	72.2	80.1	86.1	82.9	80.0	63.8	52.5	40.7
OREGON	37.3	38.6	42.3	46.3	51.1	59.0	70.1	67.9	62.8	48.2	41.2	31.9
PENNSYLVANIA	34.6	35.9	39.8	49.6	62.8	66.1	70.1	70.9	65.2	52.3	41.8	36.4
RHODE ISLAND	34.8	36.7	40.4	48.9	60.3	65.2	72.1	72.3	65.9	53.9	43.7	38.9
SOUTH CAROLINA	47.8	49.0	52.3	62.0	72.8	80.0	82.2	79.4	75.5	65.3	57.2	51.4
SOUTH DAKOTA	19.5	32.8	26.3	47.2	59.9	62.1	73.8	72.6	67.6	48.8	36.3	26.1
TENNESSEE	42.5	44.0	48.0	56.8	69.5	76.0	78.2	76.6	74.6	61.8	50.7	43.1
TEXAS	50.4	50.9	54.9	63.2	77.2	84.0	86.7	82.6	79.8	68.6	58.5	48.1
UTAH	32.8	33.4	39.4	45.2	55.6	61.6	75.0	72.8	64.4	49.3	39.2	27.3
VERMONT	21.7	26.1	31.6	43.9	59.4	63.1	67.0	66.0	58.7	47.1	35.8	29.7
VIRGINIA	40.4	41.2	45.1	55.5	65.6	71.9	75.6	74.7	71.8	57.4	47.3	42.3
WASHINGTON	33.9	39.9	43.3	48.3	55.5	61.2	70.9	68.5	63.7	48.9	42.0	32.1
WEST VIRGINIA	37.0	38.1	41.5	51.9	63.2	68.0	71.8	71.6	67.7	54.3	43.6	38.0
WISCONSIN	20.5	31.5	31.4	47.2	61.2	63.7	69.7	69.4	63.5	49.5	37.5	25.8
WYOMING	22.6	26.8	28.7	40.9	51.9	53.8	68.9	66.3	61.1	44.1	34.2	22.2

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.

AREA	REGIONAL & NATIONAL AVERAGE TEMPERATURE (DEG F) (WEIGHTED BY AREA)								-- 1998			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NEW ENGLAND	22.1	26.8	32.3	43.7	58.1	61.9	67.8	67.0	59.3	47.4	36.2	29.7
MIDDLE ATLANTIC	31.8	33.6	37.8	48.4	62.1	65.5	69.7	70.2	63.9	51.5	40.8	35.3
E. N. CENTRAL	28.7	35.7	36.9	49.5	63.9	67.6	71.9	71.9	66.9	53.1	42.0	32.4
W. N. CENTRAL	23.1	34.2	31.2	49.2	63.2	66.4	74.5	73.6	68.6	52.1	39.2	27.6
SOUTH ATLANTIC	47.9	48.5	51.8	61.0	71.1	77.7	79.7	78.1	75.0	64.5	56.4	50.9
E. S. CENTRAL	45.2	46.4	50.9	59.1	71.5	78.3	80.1	78.7	76.2	64.2	54.2	46.7
W. S. CENTRAL	48.3	49.6	53.2	62.0	75.9	82.9	86.2	82.6	79.7	67.5	57.3	47.0
MOUNTAIN	31.2	33.8	38.0	45.9	56.2	61.8	73.3	71.5	65.4	49.9	40.3	29.5
PACIFIC	41.3	42.6	47.0	50.3	55.0	63.2	73.3	72.7	66.7	53.8	46.0	37.6
NATIONAL	35.4	39.2	41.8	51.8	63.3	68.9	76.0	74.5	69.6	55.7	45.6	36.0

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.

AREA	JAN	STATE AVERAGE FEB	TEMPERATURE MAR	(DEG F) APR	(DIVISIONS MAY	WEIGHTED JUN	BY AREA) JUL	-- 1999 AUG	SEP	OCT	NOV	DEC
ALABAMA	49.2	51.4	52.5	66.9	69.4	76.5	-	-	-	-	-	-
ARIZONA	46.2	48.9	54.3	54.7	66.4	75.7	-	-	-	-	-	-
ARKANSAS	42.3	49.3	49.1	63.4	68.4	76.7	-	-	-	-	-	-
CALIFORNIA	46.0	46.6	49.9	53.6	62.2	68.7	-	-	-	-	-	-
COLORADO	29.9	33.4	40.0	41.1	51.4	61.1	-	-	-	-	-	-
CONNECTICUT	26.9	31.3	37.2	48.1	58.8	69.6	-	-	-	-	-	-
DELAWARE	38.5	39.1	42.6	54.1	63.4	72.3	-	-	-	-	-	-
FLORIDA	60.9	62.0	62.5	72.8	74.6	79.3	-	-	-	-	-	-
GEORGIA	49.7	51.5	53.2	67.2	69.4	76.3	-	-	-	-	-	-
IDAHO	28.5	29.1	35.5	41.5	49.7	58.2	-	-	-	-	-	-
ILLINOIS	24.7	37.1	37.9	54.3	64.0	72.3	-	-	-	-	-	-
INDIANA	26.8	36.0	36.4	53.7	63.7	72.2	-	-	-	-	-	-
IOWA	16.8	32.4	36.0	49.8	60.7	69.1	-	-	-	-	-	-
KANSAS	31.5	42.3	42.4	53.4	63.1	71.2	-	-	-	-	-	-
KENTUCKY	37.8	41.5	41.9	58.7	65.3	73.9	-	-	-	-	-	-
LOUISIANA	53.6	57.4	58.4	70.7	73.7	79.9	-	-	-	-	-	-
MAINE	13.8	20.7	30.8	40.5	55.6	65.3	-	-	-	-	-	-
MARYLAND & D.C.	36.6	38.0	41.6	54.4	63.8	71.5	-	-	-	-	-	-
MASSACHUSETTS	27.0	30.9	36.6	47.1	57.5	68.8	-	-	-	-	-	-
MICHIGAN	18.1	27.6	30.7	45.9	57.9	66.5	-	-	-	-	-	-
MINNESOTA	8.0	23.6	30.8	45.1	57.5	64.9	-	-	-	-	-	-
MISSISSIPPI	49.4	53.1	53.5	68.0	70.9	78.4	-	-	-	-	-	-
MISSOURI	30.2	41.9	41.9	56.7	63.8	72.6	-	-	-	-	-	-
MONTANA	23.6	31.7	36.9	42.1	51.0	59.0	-	-	-	-	-	-
NEBRASKA	26.1	36.8	39.0	47.3	58.7	67.3	-	-	-	-	-	-
NEVADA	34.1	36.4	42.1	43.5	54.9	64.4	-	-	-	-	-	-
NEW HAMPSHIRE	19.4	24.5	32.0	43.3	56.0	67.0	-	-	-	-	-	-
NEW JERSEY	33.5	35.5	40.2	51.1	60.8	70.7	-	-	-	-	-	-
NEW MEXICO	39.6	42.9	47.5	51.2	60.4	68.6	-	-	-	-	-	-
NEW YORK	21.2	27.3	30.3	44.7	58.2	67.5	-	-	-	-	-	-
NORTH CAROLINA	45.2	44.9	46.8	60.8	65.7	72.9	-	-	-	-	-	-
NORTH DAKOTA	6.9	22.7	31.2	42.8	54.8	63.0	-	-	-	-	-	-
OHIO	28.2	34.5	34.9	52.8	62.3	71.4	-	-	-	-	-	-
OKLAHOMA	39.5	49.0	48.4	60.0	67.5	75.4	-	-	-	-	-	-
OREGON	36.0	35.7	39.9	44.5	50.5	58.5	-	-	-	-	-	-
PENNSYLVANIA	27.2	31.7	34.1	48.9	59.8	67.9	-	-	-	-	-	-
RHODE ISLAND	30.8	34.6	39.8	49.2	59.0	69.0	-	-	-	-	-	-
SOUTH CAROLINA	48.9	49.2	51.0	65.1	68.2	75.2	-	-	-	-	-	-
SOUTH DAKOTA	17.8	33.0	36.8	45.2	56.4	65.6	-	-	-	-	-	-
TENNESSEE	41.7	44.4	44.5	61.2	65.9	74.5	-	-	-	-	-	-
TEXAS	49.9	56.2	57.3	67.0	72.9	79.4	-	-	-	-	-	-
UTAH	32.7	35.1	43.3	43.8	54.7	65.3	-	-	-	-	-	-
VERMONT	17.0	21.7	28.9	41.8	56.7	66.6	-	-	-	-	-	-
VIRGINIA	38.6	39.6	41.9	55.9	63.0	70.7	-	-	-	-	-	-
WASHINGTON	36.0	37.0	40.9	46.4	51.4	59.0	-	-	-	-	-	-
WEST VIRGINIA	33.9	35.5	35.7	53.6	60.7	69.2	-	-	-	-	-	-
WISCONSIN	12.2	26.5	31.9	46.6	58.6	65.6	-	-	-	-	-	-
WYOMING	25.2	28.8	35.4	37.7	48.2	58.2	-	-	-	-	-	-

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.

AREA	REGIONAL & NATIONAL AVERAGE TEMPERATURE (DEG F) (WEIGHTED BY AREA)								-- 1999			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NEW ENGLAND	18.0	23.7	32.0	42.6	56.4	66.5	-	-	-	-	-	-
MIDDLE ATLANTIC	24.8	29.9	32.7	47.0	59.1	67.9	-	-	-	-	-	-
E. N. CENTRAL	21.2	31.9	34.1	50.2	61.1	69.3	-	-	-	-	-	-
W. N. CENTRAL	19.7	33.2	36.9	48.5	59.3	67.6	-	-	-	-	-	-
SOUTH ATLANTIC	47.5	48.5	50.0	63.5	67.7	74.5	-	-	-	-	-	-
E. S. CENTRAL	45.0	48.0	48.5	64.1	68.1	76.0	-	-	-	-	-	-
W. S. CENTRAL	47.8	54.4	55.0	65.8	71.6	78.5	-	-	-	-	-	-
MOUNTAIN	32.5	36.1	42.1	44.7	54.8	64.0	-	-	-	-	-	-
PACIFIC	40.9	41.3	45.0	49.4	56.4	63.6	-	-	-	-	-	-
NATIONAL	34.1	39.9	43.3	52.3	60.9	69.0	-	-	-	-	-	-

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.

AREA	STATE AVERAGE PRECIPITATION (IN.) (DIVISIONS WEIGHTED BY AREA) -- 1998											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ALABAMA	8.51	7.52	6.34	5.29	2.35	3.11	6.21	3.36	8.51	1.34	3.36	4.26
ARIZONA	.59	2.83	2.08	.67	.22	.06	2.40	1.49	1.56	1.31	.93	.38
ARKANSAS	6.42	4.66	5.76	3.14	3.55	1.97	3.30	2.94	4.11	4.91	2.97	4.55
CALIFORNIA	7.09	11.22	3.69	2.11	3.22	.71	.13	.12	.66	.68	4.03	1.54
COLORADO	.54	.75	1.56	1.52	.97	1.02	3.66	1.82	.85	2.19	1.11	.50
CONNECTICUT	4.38	4.06	6.06	4.53	5.91	7.27	3.81	2.36	2.70	5.35	2.38	1.27
DELAWARE	5.98	5.44	5.39	2.93	4.55	3.48	1.97	3.59	2.34	2.60	1.30	2.50
FLORIDA	4.66	8.58	6.04	1.20	1.76	2.44	7.78	6.88	11.99	1.96	3.28	1.55
GEORGIA	5.95	7.71	6.03	6.40	2.78	2.63	4.47	3.91	7.16	1.42	1.59	2.45
IDAHO	3.17	1.41	1.66	1.30	4.31	2.40	1.00	.36	1.63	.76	2.93	2.41
ILLINOIS	2.74	2.58	4.57	4.92	4.80	7.68	3.44	3.25	2.35	4.35	2.49	1.64
INDIANA	3.04	1.89	4.29	6.07	4.63	7.72	4.91	3.75	1.08	3.50	2.16	2.12
IOWA	1.11	1.73	3.71	4.00	4.27	8.02	3.13	4.98	2.04	4.90	1.68	.44
KANSAS	.59	.93	3.17	2.31	2.05	3.11	6.44	1.87	3.23	4.32	4.05	.62
KENTUCKY	3.72	3.38	3.24	7.46	4.99	8.95	4.98	1.89	1.10	2.82	2.06	4.75
LOUISIANA	11.99	6.07	5.31	3.80	.42	2.80	3.69	4.89	11.03	2.64	5.15	5.57
MAINE	5.04	3.43	3.83	3.13	3.15	7.00	4.08	2.74	2.80	5.06	2.52	1.84
MARYLAND & D.C.	6.22	5.59	5.53	3.92	4.71	5.08	2.38	2.51	1.74	1.92	.98	2.06
MASSACHUSETTS	5.84	4.93	5.20	3.62	4.89	9.92	2.91	2.81	2.27	5.20	2.20	1.63
MICHIGAN	2.88	1.27	3.91	2.15	2.09	2.82	1.93	3.24	2.45	2.70	2.32	1.87
MINNESOTA	.95	1.09	1.78	1.58	3.91	5.34	3.18	3.19	1.66	4.30	1.71	.60
MISSISSIPPI	9.37	6.00	5.67	5.46	2.32	2.36	6.55	2.95	4.99	1.54	3.88	5.94
MISSOURI	2.50	2.94	5.91	4.09	3.18	7.35	6.59	2.30	4.74	5.62	3.20	1.69
MONTANA	.79	.43	1.07	1.04	1.86	3.74	1.78	1.18	.91	1.48	1.24	1.03
NEBRASKA	.31	.60	2.15	2.23	2.95	4.87	4.12	2.72	1.00	2.96	2.12	.23
NEVADA	1.00	2.30	1.51	.98	2.14	1.64	.72	.25	1.92	1.01	.63	.29
NEW HAMPSHIRE	5.03	3.15	3.72	2.34	3.26	9.89	3.40	3.05	2.64	4.31	3.05	1.52
NEW JERSEY	4.58	4.61	5.22	4.55	6.23	5.05	2.09	2.64	1.98	2.65	1.31	1.52
NEW MEXICO	.16	.76	1.34	.52	.06	.18	3.24	2.06	.83	3.21	.74	.42
NEW YORK	5.10	2.47	3.59	3.08	3.52	6.69	3.94	3.38	2.71	2.76	1.75	1.58
NORTH CAROLINA	7.82	6.60	5.19	5.48	4.44	3.82	4.12	5.34	3.45	1.83	2.06	4.47
NORTH DAKOTA	.41	1.83	.43	.90	2.12	4.24	2.15	3.12	1.04	3.87	1.32	.30
OHIO	3.50	2.66	2.80	5.58	3.34	7.26	3.24	3.69	1.49	2.93	1.68	2.10
OKLAHOMA	3.65	1.55	5.40	2.60	2.56	1.86	2.51	1.50	3.13	6.88	3.41	1.94
OREGON	5.83	3.82	3.10	1.72	4.70	1.25	.66	.11	.97	1.53	6.88	5.07
PENNSYLVANIA	4.29	3.55	3.46	5.62	4.28	5.08	2.76	3.06	2.14	3.08	1.23	1.44
RHODE ISLAND	6.71	6.18	6.15	5.76	5.62	11.50	1.74	3.52	2.59	3.74	2.44	1.57
SOUTH CAROLINA	7.43	7.83	5.11	6.46	3.61	3.47	4.45	3.88	5.67	1.71	1.54	3.69
SOUTH DAKOTA	.49	.73	1.77	1.64	2.55	4.77	2.89	2.99	.74	5.44	1.23	.18
TENNESSEE	5.37	4.50	4.49	8.45	4.99	8.58	6.45	2.81	1.10	2.31	1.85	6.90
TEXAS	2.26	2.69	2.42	.67	.77	1.18	1.22	3.70	3.40	5.24	3.14	1.79
UTAH	1.12	1.94	1.42	1.07	1.06	1.78	1.32	.71	1.54	1.92	.92	.49
VERMONT	5.72	2.04	3.77	2.43	2.77	8.78	5.91	4.89	4.27	2.78	2.94	1.20
VIRGINIA	6.84	6.20	5.25	4.98	5.38	4.27	2.13	3.06	1.87	1.52	1.12	3.58
WASHINGTON	7.31	4.10	3.62	1.38	3.27	1.38	.94	.21	.58	2.48	9.08	9.34
WEST VIRGINIA	4.87	4.35	3.93	5.02	4.99	8.20	3.22	3.15	2.08	1.72	1.51	2.72
WISCONSIN	1.87	1.56	3.69	2.40	3.45	6.19	1.74	4.19	2.28	2.71	1.82	.78
WYOMING	.74	.63	1.36	1.02	1.21	3.06	1.67	1.32	1.21	2.45	.71	.41

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.



AREA	REGIONAL & NATIONAL AVERAGE PRECIPITATION (IN.) (WEIGHTED BY AREA)								-- 1998			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NEW ENGLAND	5.21	3.47	4.19	3.13	3.58	8.13	4.04	3.09	2.91	4.64	2.60	1.63
MIDDLE ATLANTIC	4.71	3.11	3.66	4.32	4.06	5.86	3.28	3.18	2.41	2.89	1.49	1.51
E. N. CENTRAL	2.75	1.96	3.88	3.98	3.59	6.14	2.88	3.61	2.03	3.23	2.11	1.65
W. N. CENTRAL	.88	1.36	2.64	2.31	2.97	5.24	4.11	2.95	2.05	4.46	2.21	.57
SOUTH ATLANTIC	6.25	7.08	5.45	4.69	3.63	3.73	4.55	4.55	5.85	1.71	1.93	2.95
E. S. CENTRAL	6.94	5.50	5.04	6.55	3.54	5.48	6.08	2.80	4.22	1.94	2.86	5.42
W. S. CENTRAL	4.06	3.12	3.62	1.62	1.35	1.56	1.95	3.39	4.29	5.17	3.39	2.56
MOUNTAIN	.93	1.34	1.48	.99	1.40	1.76	2.02	1.19	1.27	1.81	1.11	.71
PACIFIC	6.76	7.50	3.50	1.84	3.67	1.01	.46	.13	.74	1.31	5.95	4.24
NATIONAL	3.22	3.20	3.12	2.48	2.56	3.29	2.84	2.41	2.52	2.91	2.46	1.95

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.

AREA	STATE AVERAGE PRECIPITATION (IN.) (DIVISIONS WEIGHTED BY AREA) -- 1999											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ALABAMA	8.16	2.45	5.74	2.59	4.21	8.63	-	-	-	-	-	-
ARIZONA	.16	.34	.21	1.40	.15	.35	-	-	-	-	-	-
ARKANSAS	6.90	1.35	5.29	5.74	4.75	5.39	-	-	-	-	-	-
CALIFORNIA	3.35	4.93	2.22	1.74	.28	.25	-	-	-	-	-	-
COLORADO	.74	.41	.55	3.74	2.39	1.57	-	-	-	-	-	-
CONNECTICUT	6.99	3.90	5.25	1.37	4.31	.86	-	-	-	-	-	-
DELAWARE	6.05	2.62	5.05	2.75	1.54	2.37	-	-	-	-	-	-
FLORIDA	4.01	1.25	1.79	1.72	3.93	9.48	-	-	-	-	-	-
GEORGIA	5.25	3.00	2.50	1.94	2.65	6.29	-	-	-	-	-	-
IDAHO	2.66	3.11	1.17	1.18	1.66	1.66	-	-	-	-	-	-
ILLINOIS	4.24	2.31	1.74	5.57	3.62	5.22	-	-	-	-	-	-
INDIANA	4.95	3.49	2.17	5.01	3.14	3.98	-	-	-	-	-	-
IOWA	1.31	.95	1.05	6.29	5.02	5.29	-	-	-	-	-	-
KANSAS	1.28	.54	1.70	5.22	4.46	5.36	-	-	-	-	-	-
KENTUCKY	6.84	2.73	3.35	3.54	2.92	5.00	-	-	-	-	-	-
LOUISIANA	8.64	1.38	5.28	3.00	4.55	7.17	-	-	-	-	-	-
MAINE	5.39	2.21	5.41	.83	2.64	3.02	-	-	-	-	-	-
MARYLAND & D.C.	5.37	2.62	4.36	3.17	1.60	2.15	-	-	-	-	-	-
MASSACHUSETTS	6.82	3.72	5.03	1.12	3.97	1.36	-	-	-	-	-	-
MICHIGAN	3.38	1.52	.87	3.26	3.17	3.83	-	-	-	-	-	-
MINNESOTA	1.22	.40	1.32	2.92	5.03	4.29	-	-	-	-	-	-
MISSISSIPPI	10.09	2.30	6.52	3.70	3.89	5.33	-	-	-	-	-	-
MISSOURI	3.53	2.39	2.86	6.00	4.65	5.00	-	-	-	-	-	-
MONTANA	.90	.76	.44	1.46	2.11	2.42	-	-	-	-	-	-
NEBRASKA	.33	.56	.88	4.28	3.75	5.63	-	-	-	-	-	-
NEVADA	1.20	.62	.32	1.38	.61	.92	-	-	-	-	-	-
NEW HAMPSHIRE	6.43	1.81	4.98	.73	3.45	2.79	-	-	-	-	-	-
NEW JERSEY	7.40	2.84	4.96	2.79	3.05	1.76	-	-	-	-	-	-
NEW MEXICO	.44	.05	.84	1.47	1.65	1.47	-	-	-	-	-	-
NEW YORK	5.43	1.31	3.80	1.85	2.55	2.16	-	-	-	-	-	-
NORTH CAROLINA	5.84	2.53	3.22	3.69	2.89	3.81	-	-	-	-	-	-
NORTH DAKOTA	.92	.38	.54	1.28	5.23	2.91	-	-	-	-	-	-
OHIO	4.32	2.67	2.03	4.04	2.23	2.10	-	-	-	-	-	-
OKLAHOMA	2.14	.94	4.20	5.86	5.41	6.53	-	-	-	-	-	-
OREGON	4.44	6.04	2.53	1.15	1.62	.79	-	-	-	-	-	-
PENNSYLVANIA	5.74	1.92	3.28	4.01	2.55	2.40	-	-	-	-	-	-
RHODE ISLAND	6.62	5.67	5.30	1.64	4.00	.16	-	-	-	-	-	-
SOUTH CAROLINA	5.24	2.73	2.64	3.94	2.49	4.72	-	-	-	-	-	-
SOUTH DAKOTA	.53	.30	.77	3.19	3.69	4.74	-	-	-	-	-	-
TENNESSEE	8.30	3.31	4.50	4.11	4.46	5.63	-	-	-	-	-	-
TEXAS	1.79	.25	2.86	1.98	3.73	3.90	-	-	-	-	-	-
UTAH	.86	.76	.34	2.32	1.20	1.00	-	-	-	-	-	-
VERMONT	5.35	1.51	3.79	.84	3.60	2.48	-	-	-	-	-	-
VIRGINIA	4.90	2.27	3.47	2.90	2.30	1.84	-	-	-	-	-	-
WASHINGTON	6.26	8.25	3.56	1.11	2.17	1.68	-	-	-	-	-	-
WEST VIRGINIA	5.50	2.44	4.16	3.04	2.75	1.77	-	-	-	-	-	-
WISCONSIN	2.23	1.29	.56	4.18	5.02	4.29	-	-	-	-	-	-
WYOMING	.66	.62	.47	2.72	1.87	1.97	-	-	-	-	-	-

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.

AREA	REGIONAL & NATIONAL AVERAGE PRECIPITATION (IN.) (WEIGHTED BY AREA)							AUG	SEP	-- 1999		
	JAN	FEB	MAR	APR	MAY	JUN	JUL			OCT	NOV	DEC
NEW ENGLAND	5.85	2.43	5.06	.91	3.21	2.49	-	-	-	-	-	-
MIDDLE ATLANTIC	5.71	1.70	3.66	2.87	2.59	2.24	-	-	-	-	-	-
E. N. CENTRAL	3.70	2.13	1.38	4.38	3.53	3.98	-	-	-	-	-	-
W. N. CENTRAL	1.27	.76	1.31	4.09	4.52	4.74	-	-	-	-	-	-
SOUTH ATLANTIC	5.08	2.34	2.88	2.73	2.86	5.09	-	-	-	-	-	-
E. S. CENTRAL	8.40	2.67	5.13	3.44	3.90	6.26	-	-	-	-	-	-
W. S. CENTRAL	3.22	.62	3.64	3.17	4.21	4.86	-	-	-	-	-	-
MOUNTAIN	.90	.76	.53	1.92	1.47	1.45	-	-	-	-	-	-
PACIFIC	4.29	5.96	2.59	1.43	1.08	.71	-	-	-	-	-	-
NATIONAL	3.00	1.74	2.10	2.80	2.87	3.31	-	-	-	-	-	-

NOTE : DASHES INDICATE DATA NOT AVAILABLE OR MISSING.