

Normal Monthly Heating Degree Days (Base 65)

NORMALS 1971-2000	YRS	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANN
BIRMINGHAM AP, AL	30	0	0	11	133	359	590	691	514	339	154	31	1	2823
HUNTSVILLE, AL	30	0	0	18	165	417	669	780	587	404	180	41	1	3262
MOBILE, AL	30	0	0	2	51	204	387	455	326	182	57	3	0	1667
MONTGOMERY, AL	30	0	0	3	84	278	487	568	415	250	98	9	0	2192
ANCHORAGE, AK	30	206	268	505	957	1297	1472	1526	1295	1212	861	560	311	10470
ANNETTE, AK	30	215	206	337	572	760	885	928	781	791	637	484	321	6917
BARROW, AK	30	763	815	1016	1564	1978	2346	2440	2267	2443	1967	1391	903	19893
BETHEL, AK	30	280	355	587	1085	1428	1724	1813	1608	1566	1175	738	410	12769
BETTLES, AK	30	170	366	721	1437	1975	2245	2365	2041	1888	1280	642	227	15357
BIG DELTA, AK	30	144	308	620	1270	1761	2016	2097	1759	1576	987	536	228	13302
COLD BAY, AK	30	447	409	518	774	915	1054	1142	1048	1085	945	780	573	9690
FAIRBANKS, AK	30	121	283	615	1287	1882	2199	2315	1926	1670	999	504	179	13980
GULKANA, AK	30	250	370	658	1199	1786	2064	2163	1733	1543	1018	655	358	13797
HOMER, AK	30	338	349	514	844	1069	1215	1290	1125	1103	860	663	451	9821
JUNEAU, AK	30	257	288	453	704	953	1125	1219	1010	973	728	529	335	8574
KING SALMON, AK	30	290	317	521	984	1254	1481	1538	1384	1286	957	667	425	11104
KODIAK, AK	30	339	310	468	766	931	1067	1096	983	1007	833	667	474	8941
KOTZEBUE, AK	30	327	407	696	1297	1703	2022	2092	1918	2023	1606	1037	607	15735
MCGRATH, AK	30	174	318	611	1233	1779	2132	2223	1847	1653	1078	583	256	13887
NOME, AK	30	387	446	664	1134	1444	1756	1836	1663	1727	1361	867	533	13818
ST. PAUL ISLAND, AK	30	569	518	603	828	957	1122	1220	1174	1267	1097	911	693	10959
TALKEETNA, AK	30	193	294	563	1043	1425	1613	1676	1391	1317	923	596	293	11327
UNALAKLEET, AK	30	297	373	644	1192	1572	1826	1915	1703	1685	1271	791	481	13750
VALDEZ, AK	30	306	353	537	832	1101	1251	1336	1126	1091	821	596	383	9733
YAKUTAT, AK	30	353	364	506	742	980	1129	1216	1027	1040	837	664	460	9318
FLAGSTAFF, AZ	30	33	56	224	554	850	1085	1099	930	880	668	446	174	6999
PHOENIX, AZ	30	0	0	0	11	117	305	304	174	99	29	1	0	1040
TUCSON, AZ	30	0	0	0	33	195	397	401	275	194	76	7	0	1578
WINSLOW, AZ	30	0	1	31	290	649	965	961	713	580	357	133	12	4692
YUMA, AZ	30	0	0	0	5	90	246	228	114	73	23	3	0	782
FORT SMITH, AR	30	0	0	23	145	448	745	854	619	410	172	34	1	3451
LITTLE ROCK, AR	30	0	0	13	124	400	666	775	563	369	150	24	0	3084
NORTH LITTLE ROCK, AR	30	0	0	8	99	383	669	770	549	343	128	31	0	2980
BAKERSFIELD, CA	30	0	0	2	51	283	534	521	324	236	119	31	3	2104
BISHOP, CA	30	1	1	46	276	609	847	843	643	545	344	138	21	4314
EUREKA, CA	30	216	198	232	326	423	532	530	451	491	430	354	263	4446
FRESNO, CA	30	0	0	3	70	344	597	578	377	283	140	37	4	2433
LONG BEACH, CA	30	0	0	1	16	128	265	268	205	186	99	39	5	1212
LOS ANGELES AP, CA	30	1	0	2	21	121	234	252	205	212	141	78	19	1286
LOS ANGELES C.O., CA	30	0	0	1	11	91	201	206	149	144	83	36	5	927
MOUNT SHASTA, CA	30	66	65	196	451	753	936	921	753	738	563	374	175	5991
REDDING, CA	30	0	0	13	131	420	611	606	445	390	239	99	7	2961
SACRAMENTO, CA	30	0	0	11	84	359	595	580	387	335	208	97	10	2666
SAN DIEGO, CA	30	0	0	1	12	109	231	227	176	160	90	47	10	1063
SAN FRANCISCO AP, CA	30	77	56	62	131	298	476	482	354	339	266	201	120	2862
SAN FRANCISCO C.O., CA	30	133	107	95	100	232	383	396	283	288	233	214	150	2614
SANTA BARBARA, CA	30	22	23	54	92	234	368	369	277	263	193	151	75	2121
SANTA MARIA, CA	30	68	49	70	141	288	422	419	337	350	291	230	135	2800
STOCKTON, CA	30	0	0	5	76	348	609	592	391	313	169	54	6	2563
ALAMOSA, CO	30	47	91	302	675	1082	1475	1551	1189	983	719	451	169	8734

Exhibit No. 611
Case No(s) GR-2004-0209
Date 7-1-04 Rptr TS

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JUL 13 2004

Missouri Public
Service Commission

Normal Monthly Heating Degree Days (Base 65)

COLORADO SPRINGS, CO	30	11	20	163	471	827	1082	1114	915	816	568	306	76	6369
DENVER, CO	30	1	9	136	436	826	1078	1111	892	788	524	267	60	6128
GRAND JUNCTION, CO	30	1	1	59	342	766	1118	1194	860	643	397	151	20	5552
PUEBLO, CO	30	1	3	88	381	779	1058	1092	843	694	431	172	24	5566
BRIDGEPORT, CT	30	2	4	68	320	591	918	1089	944	803	489	207	32	5467
HARTFORD, CT	30	3	12	120	413	697	1054	1218	1024	844	486	195	38	6104
WILMINGTON, DE	30	1	2	49	297	564	871	1029	864	687	376	132	15	4887
WASHINGTON DULLES AP, D.C.	30	1	4	60	323	589	882	1025	847	670	362	139	21	4923
WASHINGTON NAT'L AP, D.C.	30	0	1	19	202	467	755	906	741	562	269	72	5	3999
APALACHICOLA, FL	30	0	0	0	32	152	328	408	285	169	42	3	0	1419
DAYTONA BEACH, FL	30	0	0	0	6	67	185	245	183	99	29	1	0	815
FORT MYERS, FL	30	0	0	0	1	16	76	103	75	28	3	0	0	302
GAINESVILLE, FL	30	0	0	0	21	121	268	321	208	123	40	2	0	1104
JACKSONVILLE, FL	30	0	0	0	30	148	314	374	272	155	55	5	0	1353
KEY WEST, FL	30	0	0	0	0	0	14	26	18	6	0	0	0	64
MIAMI, FL	30	0	0	0	0	4	38	58	39	15	1	0	0	155
ORLANDO, FL	30	0	0	0	2	40	142	220	128	57	9	0	0	598
PENSACOLA, FL	30	0	0	1	35	175	352	416	299	171	48	1	0	1498
TALLAHASSEE, FL	30	0	0	1	49	193	369	428	315	185	71	5	0	1616
TAMPA, FL	30	0	0	0	4	46	144	187	136	63	13	0	0	593
VERO BEACH, FL	30	0	0	0	0	18	101	166	114	48	8	0	0	455
WEST PALM BEACH, FL	30	0	0	0	0	10	58	83	60	27	4	0	0	242
ATHENS, GA	30	0	0	10	133	353	597	687	522	349	152	28	1	2832
ATLANTA, GA	30	0	0	11	126	352	600	692	523	346	150	26	1	2827
AUGUSTA, GA	30	0	0	5	112	313	540	617	469	301	129	21	1	2508
COLUMBUS, GA	30	0	0	3	78	263	481	559	415	252	94	8	0	2153
MACON, GA	30	0	0	4	91	277	494	570	427	262	104	12	0	2241
SAVANNAH, GA	30	0	0	1	56	204	403	472	350	202	72	6	0	1766
HILO, HI	30	0	0	0	0	0	0	0	0	0	0	0	0	0
HONOLULU, HI	30	0	0	0	0	0	0	0	0	0	0	0	0	0
KAHULUI, HI	30	0	0	0	0	0	0	0	0	0	0	0	0	0
LIHUE, HI	30	0	0	0	0	0	0	0	0	0	0	0	0	0
BOISE, ID	30	12	16	126	408	769	1088	1102	819	675	460	254	80	5809
LEWISTON, ID	30	10	10	102	401	717	951	962	742	616	411	218	71	5211
POCATELLO, ID	30	21	26	201	536	907	1240	1274	1003	842	584	353	129	7116
CHICAGO, IL	30	5	9	112	401	759	1147	1333	1075	858	513	232	49	6493
MOLINE, IL	30	3	8	108	394	782	1191	1374	1090	831	450	172	19	6422
PEORIA, IL	30	2	7	94	368	738	1136	1316	1045	788	423	159	19	6095
ROCKFORD, IL	30	5	14	136	444	832	1244	1430	1150	912	522	215	36	6940
SPRINGFIELD, IL	30	1	4	77	319	674	1060	1239	980	726	376	126	14	5596
EVANSVILLE, IN	30	0	1	45	262	565	891	1047	825	591	295	85	5	4612
FORT WAYNE, IN	30	3	11	105	394	722	1094	1275	1063	835	479	188	29	6198
INDIANAPOLIS, IN	30	2	4	77	335	659	1020	1192	957	724	394	141	16	5521
SOUTH BEND, IN	30	6	13	114	392	721	1090	1270	1055	844	498	213	41	6257
DES MOINES, IA	30	1	6	103	386	804	1223	1385	1090	826	439	153	16	6432
DUBUQUE, IA	30	8	21	158	465	879	1307	1492	1192	949	536	226	40	7273
SIOUX CITY, IA	30	3	10	128	434	888	1308	1439	1131	885	473	172	25	6896
WATERLOO, IA	30	7	20	155	478	903	1343	1538	1221	948	528	205	29	7375
CONCORDIA, KS	30	1	2	76	307	722	1068	1195	927	702	380	131	13	5524
DODGE CITY, KS	30	1	2	65	273	674	978	1087	826	647	351	121	12	5037
GOODLAND, KS	30	5	10	117	407	807	1079	1147	916	776	490	224	35	6013
TOPEKA, KS	30	1	1	73	287	665	1030	1174	898	647	336	106	7	5225
WICHITA, KS	30	0	0	49	235	620	965	1087	819	594	302	89	5	4765
GREATER CINCINNATI AP	30	1	3	68	326	626	953	1110	899	684	373	138	19	5200
JACKSON, KY	30	0	4	44	263	522	830	966	761	557	273	128	10	4358
LEXINGTON, KY	30	1	2	53	284	574	877	1026	819	616	332	119	13	4716
LOUISVILLE, KY	30	0	1	36	240	527	838	992	779	569	280	84	6	4352
PADUCAH KY	30	0	0	38	229	516	833	978	750	529	250	67	2	4192
BATON ROUGE, LA	30	0	0	2	49	211	386	456	325	179	55	2	0	1665

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LAKE CHARLES, LA	30	0	0	1	38	191	363	434	304	163	47	1	0	1542
NEW ORLEANS, LA	30	0	0	0	30	169	332	403	288	150	44	1	0	1417
SHREVEPORT, LA	30	0	0	6	78	296	522	597	416	250	89	8	0	2262
CARIBOU, ME	30	58	103	344	691	1039	1505	1719	1466	1254	805	417	159	9560
PORTLAND, ME	30	19	37	199	523	790	1152	1346	1145	988	649	361	116	7325
BALTIMORE, MD	30	0	1	41	279	549	839	986	816	647	345	119	12	4634
BLUE HILL, MA	30	9	22	138	422	698	1040	1207	1034	894	562	271	74	6371
BOSTON, MA	30	4	8	84	344	604	932	1104	951	815	503	233	48	5630
WORCESTER, MA	30	9	20	158	478	764	1119	1284	1094	952	601	278	74	6831
ALPENA, MI	30	46	78	260	583	894	1244	1447	1285	1133	723	394	150	8237
DETROIT, MI	30	5	12	121	429	742	1099	1270	1084	894	527	221	45	6449
FLINT, MI	30	13	28	163	474	781	1149	1329	1147	957	577	267	66	6951
GRAND RAPIDS, MI	30	10	24	159	471	793	1147	1317	1135	956	571	255	58	6896
HOUGHTON LAKE, MI	30	41	74	250	577	901	1271	1468	1283	1115	685	338	117	8120
LANSING, MI	30	17	35	179	493	805	1167	1341	1160	970	585	277	69	7098
MARQUETTE, MI	30	92	134	348	700	1083	1484	1659	1405	1280	859	468	200	9712
MUSKEGON, MI	30	15	27	168	476	784	1117	1288	1124	968	602	296	78	6943
SAULT STE. MARIE, MI	30	91	107	320	642	979	1383	1606	1405	1253	798	434	212	9230
DULUTH, MN	30	69	106	331	682	1124	1587	1772	1435	1248	787	421	180	9742
INTERNATIONAL FALLS, MN	30	55	102	360	723	1217	1744	1946	1551	1304	775	378	140	10295
MINNEAPOLIS-ST. PAUL, MN	30	7	20	178	516	978	1428	1616	1279	1034	560	222	44	7882
ROCHESTER, MN	30	23	50	208	558	1014	1479	1650	1305	1066	609	281	65	8308
SAINT CLOUD, MN	30	19	49	253	604	1077	1551	1742	1381	1135	637	285	79	8812
JACKSON, MS	30	0	0	7	100	305	516	607	440	272	110	11	0	2368
MERIDIAN, MS	30	0	0	6	106	303	506	598	435	274	111	14	0	2353
TUPELO, MS	30	0	0	14	150	400	639	750	559	368	160	29	1	3070
COLUMBIA, MO	30	1	2	72	291	642	1004	1153	891	656	336	115	10	5173
KANSAS CITY, MO	30	0	7	58	269	668	1047	1182	897	658	331	124	8	5249
ST. LOUIS, MO	30	0	1	46	246	583	943	1097	845	613	294	83	6	4757
SPRINGFIELD, MO	30	1	1	62	248	578	899	1034	790	581	300	100	8	4602
BILLINGS, MT	30	20	25	205	516	909	1195	1280	1001	876	575	312	90	7004
GLASGOW, MT	30	22	38	253	609	1088	1506	1671	1290	1055	610	308	91	8541
GREAT FALLS, MT	30	48	64	275	579	952	1237	1323	1063	948	639	389	158	7675
HAVRE, MT	30	33	49	270	622	1067	1410	1546	1201	999	613	324	113	8247
HELENA, MT	30	42	56	283	631	1018	1348	1397	1093	932	634	384	157	7975
KALISPELL, MT	30	85	94	341	705	1014	1297	1359	1079	933	640	411	213	8171
MISSOULA, MT	30	55	62	276	637	985	1287	1291	1019	852	596	384	178	7622
GRAND ISLAND, NE	30	3	7	114	401	835	1192	1310	1031	819	452	175	23	6362
LINCOLN, NE	30	1	5	100	377	806	1188	1328	1043	799	425	154	16	6242
NORFOLK, NE	30	4	11	130	432	879	1266	1388	1099	872	478	180	28	6767
NORTH PLATTE, NE	30	6	14	158	481	902	1222	1316	1026	853	519	240	46	6783
OMAHA EPPLEY AP, NE	30	1	6	105	384	806	1211	1349	1053	805	424	151	17	6312
OMAHA (NORTH), NE	30	4	15	83	349	800	1204	1323	1022	783	400	154	16	6153
SCOTTSBLUFF, NE	30	7	11	157	489	885	1183	1233	969	837	544	257	53	6625
VALENTINE, NE	30	11	19	175	516	952	1285	1386	1101	932	571	260	57	7265
ELKO, NV	30	53	57	237	569	916	1208	1222	943	820	612	383	161	7181
ELY, NV	30	26	48	258	605	938	1220	1240	996	903	690	459	178	7561
LAS VEGAS, NV	30	0	0	1	57	320	581	583	380	247	90	16	1	2276
RENO, NV	30	12	22	130	416	732	987	984	757	683	502	285	91	5601
WINNEMUCCA, NV	30	12	23	173	509	829	1101	1088	820	742	554	315	105	6271
CONCORD, NH	30	22	44	212	548	835	1220	1402	1188	999	623	302	90	7485
MT. WASHINGTON, NH	30	504	542	740	1079	1333	1702	1857	1639	1594	1262	914	619	13785
ATLANTIC CITY AP, NJ	30	1	6	69	323	573	868	1019	873	725	437	187	32	5113
ATLANTIC CITY C.O., NJ	30	0	0	20	228	481	772	924	787	674	409	167	18	4480
NEWARK, NJ	30	1	2	41	264	541	863	1030	869	697	371	120	13	4812
ALBUQUERQUE, NM	30	0	0	29	248	614	898	914	670	525	294	85	4	4281
CLAYTON, NM	30	1	7	85	325	685	937	964	767	661	407	179	27	5045
ROSWELL, NM	30	0	0	18	144	485	755	775	542	378	182	51	2	3332
ALBANY, NY	30	10	26	168	484	772	1142	1330	1136	938	553	240	62	6861

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BINGHAMTON, NY	30	22	43	200	514	812	1160	1331	1156	997	617	292	90	7234
BUFFALO, NY	30	8	21	149	442	737	1081	1256	1111	961	594	268	65	6693
ISLIP, NY	30	0	1	49	339	604	909	1060	913	782	479	197	24	5357
NEW YORK C.PARK, NY	30	1	2	43	261	524	841	1009	853	695	372	127	16	4744
NEW YORK (JFK AP), NY	30	1	2	42	264	532	838	1007	868	723	420	166	19	4882
NEW YORK (LAGUARDIA AP), NY	30	1	1	40	249	524	836	1008	861	713	392	136	16	4777
ROCHESTER, NY	30	10	24	154	447	741	1085	1263	1117	958	582	266	66	6713
SYRACUSE, NY	30	10	25	158	460	748	1108	1294	1131	959	572	254	66	6785
ASHEVILLE, NC	30	1	2	52	285	531	769	872	708	550	302	116	15	4203
CAPE HATTERAS, NC	30	0	0	2	72	244	464	587	518	400	187	44	3	2521
CHARLOTTE, NC	30	0	0	16	165	404	655	747	585	409	180	44	3	3208
GREENSBORO-WNSTN-SALM-HGHPT, NC	30	0	1	32	232	480	742	851	679	501	245	77	8	3848
RALEIGH, NC	30	0	1	20	194	425	679	783	627	456	214	61	5	3465
WILMINGTON, NC	30	0	0	3	95	277	497	589	474	331	134	28	1	2429
BISMARCK, ND	30	19	44	256	625	1112	1539	1711	1335	1110	660	305	93	8809
FARGO, ND	30	17	37	245	614	1137	1610	1808	1446	1185	652	271	73	9095
GRAND FORKS, ND	30	27	53	276	655	1186	1660	1860	1484	1233	689	294	88	9505
WILLISTON, ND	30	22	43	274	645	1146	1567	1734	1336	1104	646	315	90	8922
AKRON, OH	30	7	16	120	412	704	1040	1220	1026	836	498	219	50	6148
CLEVELAND, OH	30	7	13	110	385	677	1023	1205	1025	847	516	235	54	6097
COLUMBUS, OH	30	3	7	81	354	656	982	1154	954	742	421	165	27	5546
DAYTON, OH	30	2	7	90	358	669	1016	1185	973	760	427	167	24	5678
MANSFIELD, OH	30	8	19	122	407	714	1066	1236	1045	852	509	227	53	6258
TOLEDO, OH	30	6	18	129	431	745	1107	1281	1087	878	517	224	45	6468
YOUNGSTOWN, OH	30	15	26	148	439	723	1063	1243	1057	879	530	252	71	6446
OKLAHOMA CITY, OK	30	0	0	30	152	482	780	884	648	446	197	43	1	3663
TULSA, OK	30	0	0	29	152	468	781	898	658	437	179	38	1	3641
ASTORIA, OR	30	151	130	197	386	542	688	695	583	585	492	375	244	5068
BURNS, OR	30	89	96	313	638	968	1245	1259	982	869	661	439	226	7785
EUGENE, OR	30	40	31	115	370	594	780	769	615	564	443	308	152	4781
MEDFORD, OR	30	10	7	69	316	632	837	804	610	550	402	233	69	4539
PENDLETON, OR	30	14	15	115	400	711	962	971	747	623	433	247	83	5321
PORTLAND, OR	30	21	15	78	318	558	756	765	605	529	393	234	94	4366
SALEM, OR	30	39	34	116	376	592	771	765	623	574	452	301	141	4784
SEXTON SUMMIT, OR	30	127	101	211	440	737	860	853	741	788	648	470	267	6243
GUAM, PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
JOHNSTON ISLAND, PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
KOROR, PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
KWAJALEIN, MARSHALL IS., PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
MAJURO, MARSHALL IS, PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
PAGO PAGO, AMER SAMOA, PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
POHNPEI, CAROLINE IS., PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
CHUUK, E. CAROLINE IS., PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
WAKE ISLAND, PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
YAP, W CAROLINE IS., PC	30	0	0	0	0	0	0	0	0	0	0	0	0	0
ALLENTOWN, PA	30	3	8	95	374	657	985	1147	966	784	450	176	26	5671
ERIE, PA.	30	13	18	123	398	684	1016	1209	1074	926	585	288	75	6409
HARRISBURG, PA	30	0	1	52	338	621	937	1076	901	723	390	148	14	5201
MIDDLETOWN/HARRISBURG INTL APT	30	0	1	52	338	621	937	1076	901	723	390	148	14	5201
PHILADELPHIA, PA	30	1	2	39	269	545	857	1020	858	681	362	113	12	4759
PITTSBURGH, PA	30	6	13	105	397	677	996	1163	979	788	462	200	43	5829
AVOCA, PA	30	9	18	138	431	711	1047	1214	1040	866	512	219	53	6258
WILLIAMSPORT, PA	30	5	12	116	417	708	1033	1201	1014	824	471	196	38	6035
PROVIDENCE, RI	30	3	9	101	377	637	961	1125	965	817	494	221	44	5754
CHARLESTON AP, SC	30	0	0	2	68	222	428	510	394	242	95	11	1	1973
CHARLESTON C.O., SC	30	0	0	0	47	183	390	489	362	224	57	3	0	1755
COLUMBIA, SC	30	0	0	8	121	325	552	628	485	321	131	23	1	2595
GREENVILLE-SPARTANBURG AP, SC	30	0	0	19	178	417	655	750	586	420	197	47	3	3272
ABERDEEN, SD	30	11	27	206	569	1066	1506	1678	1318	1072	591	251	59	8354

Normal Monthly Heating Degree Days (Base 65)

HURON, SD	30	8	21	180	530	996	1417	1572	1242	1004	567	242	49	7828
RAPID CITY, SD	30	16	21	190	521	934	1233	1314	1061	925	595	313	88	7211
SIOUX FALLS, SD	30	7	20	175	519	986	1417	1563	1236	988	558	231	46	7746
BRISTOL-JHNSN CTY-KNGSPRT, TN	30	1	2	44	279	541	810	919	744	556	303	108	11	4318
CHATTANOOGA, TN	30	0	0	16	180	442	697	797	618	432	195	48	2	3427
KNOXVILLE, TN	30	0	0	22	210	470	732	841	652	467	223	65	3	3685
MEMPHIS, TN	30	0	0	13	121	381	651	770	565	366	144	22	0	3033
NASHVILLE, TN	30	0	0	24	189	457	730	858	664	462	217	56	1	3658
OAK RIDGE, TN	30	0	0	30	230	518	787	882	696	510	254	80	6	3993
ABILENE, TX	30	0	0	18	93	353	608	678	477	299	113	20	0	2659
AMARILLO, TX	30	1	1	56	239	594	874	920	706	542	291	94	7	4325
AUSTIN/CITY, TX	30	0	0	2	32	205	406	475	319	163	44	2	0	1648
AUSTIN/BERGSTROM, TX	30	0	0	1	38	248	480	532	360	180	45	5	0	1889
BROWNSVILLE, TX	30	0	0	0	6	64	170	206	123	45	8	0	0	622
CORPUS CHRISTI, TX	30	0	0	0	12	103	246	299	191	77	19	0	0	947
DALLAS-FORT WORTH, TX	30	0	0	2	52	312	571	650	448	248	74	13	0	2370
DALLAS-LOVE FIELD, TX	30	0	0	7	62	281	527	605	415	238	75	9	0	2219
DEL RIO, TX	30	0	0	2	24	183	384	423	262	111	27	1	0	1417
EL PASO, TX	30	0	0	9	96	388	626	641	435	285	113	11	0	2604
GALVESTON, TX	30	0	0	0	6	112	245	316	220	94	15	0	0	1008
HOUSTON, TX	30	0	0	1	37	189	367	427	298	156	48	2	0	1525
LUBBOCK, TX	30	0	0	33	158	472	744	800	588	409	178	38	2	3422
MIDLAND-ODESSA, TX	30	0	0	19	103	380	622	680	472	302	120	18	0	2716
PORT ARTHUR, TX	30	0	0	1	34	181	349	411	286	143	41	1	0	1447
SAN ANGELO, TX	30	0	0	12	82	325	558	617	427	258	92	13	0	2384
SAN ANTONIO, TX	30	0	0	2	33	197	390	455	303	149	42	1	0	1572
VICTORIA, TX	30	0	0	1	22	145	314	372	249	113	28	1	0	1245
WACO, TX	30	0	0	6	58	271	512	589	409	235	77	7	0	2164
WICHITA FALLS, TX	30	0	0	18	106	395	676	762	550	354	140	23	0	3024
MILFORD, UT	30	1	4	112	451	821	1129	1144	879	726	503	280	66	6116
SALT LAKE CITY, UT	30	2	3	87	370	737	1067	1108	857	665	448	215	48	5607
BURLINGTON, VT	30	17	38	203	538	834	1240	1457	1273	1063	642	283	77	7665
LYNCHBURG, VA	30	1	1	43	268	526	798	918	749	572	288	102	13	4279
NORFOLK, VA	30	0	0	8	150	368	623	758	638	487	240	66	4	3342
RICHMOND, VA	30	0	1	27	224	464	736	863	705	526	250	75	7	3878
ROANOKE, VA	30	1	2	48	276	528	798	911	745	569	290	107	13	4288
OLYMPIA, WA	-30	90	78	195	465	666	829	819	678	644	511	347	201	5523
QUILLAYUTE, WA	30	193	174	250	460	626	762	758	646	656	548	421	296	5790
SEATTLE C.O., WA	30	52	50	139	362	571	735	729	593	564	423	266	131	4615
SEATTLE SEA-TAC AP, WA	30	55	45	138	383	592	754	747	613	582	447	291	150	4797
SPOKANE, WA	30	44	42	196	554	897	1168	1169	916	790	557	338	149	6820
WALLA WALLA WASHINGTON	30	9	9	99	323	659	928	939	709	574	373	191	69	4882
YAKIMA, WA	30	28	28	155	487	813	1100	1090	821	671	463	258	98	6012
SAN JUAN, PR	30	0	0	0	0	0	0	0	0	0	0	0	0	0
BECKLEY, WV	30	10	16	115	388	647	926	1068	882	714	414	199	48	5427
CHARLESTON, WV	30	1	3	56	300	558	837	977	794	604	319	122	18	4589
ELKINS, WV	30	15	23	134	456	719	996	1133	959	792	498	251	70	6046
HUNTINGTON, WV	30	1	2	55	292	557	843	991	796	596	308	116	14	4571
GREEN BAY, WI	30	19	38	208	540	925	1350	1537	1270	1065	638	301	85	7976
LA CROSSE, WI	30	6	17	152	467	893	1347	1545	1225	975	526	204	38	7395
MADISON, WI	30	12	33	183	504	892	1298	1490	1209	978	576	261	63	7499
MILWAUKEE, WI	30	13	18	134	443	808	1200	1384	1132	949	611	318	86	7096
CASPER, WY	30	15	24	229	581	961	1252	1309	1073	921	661	393	115	7534
CHEYENNE, WY	30	28	39	238	574	914	1145	1187	1000	928	686	414	136	7289
LANDER, WY	30	16	24	220	580	1027	1355	1397	1122	921	643	373	116	7794
SHERIDAN, WY	30	27	33	238	581	979	1293	1351	1078	925	628	374	129	7636



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Please see the [NCDC Contact Page](#) if you have questions or comments.

II. Climatological Normals (Monthly and Annual) - these are the 30-year average values computed from the data recorded during the period 1961-1990. Normals are updated decennially, for the most recent 30-year period. If an instruments exposure was changed, mathematical adjustments are made to make the data representative of the current location. The values are statistically determined and cannot be recreated solely from the original record.

- A. Normal Daily Maximum Temperature, Degrees F
- B. Normal Daily Minimum Temperature, Degrees F.
- C. Normal Daily Mean (Average) Temperature, Degrees F.

In A, B, and C above, the temperature data are the normal daily values for each month. They have been adjusted, as necessary.

- D. Normal Heating Degree Days (July-June)
- E. Normal Cooling Degree Days (January-December)

Degree day data are used to estimate amounts of energy required to maintain comfortable indoor temperature levels. Daily values are computed from each days mean temperature ($\text{max} + \text{min}/2$). Each degree that a day's mean temperature is below or above 65 degrees Fahrenheit is counted as one heating or cooling degree day.