

TABLE 1. AVERAGE MONTHLY AND YEARLY DEGREE-DAYS FOR CITIES IN THE UNITED STATES, CANADA AND NEWFOUNDLAND^a (CONCLUDED)

State	Station	Years	No. of Seasons	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Yearly Total	
Pa.	Erie	98/99-45/46	48	8	17	101	367	692	1049	1159	1105	922	591	284	68	6363	
	Harrisburg	98/99-45/46	48	1	6	67	314	637	990	1073	973	757	425	146	23	5412	
	Philadelphia	98/99-45/46	48	0	2	36	235	544	884	962	881	685	378	115	17	4739	
	Pittsburgh	98/99-45/46	48	3	7	69	322	651	982	1042	964	751	444	166	29	5430	
	Reading	12/13-45/46	34	1	5	69	301	606	957	1038	929	736	423	144	23	5232	
R. I.	Scranton	00/01-45/46	46	6	22	117	400	717	1074	1162	1071	862	523	213	51	6218	
	Block Island	98/99-45/46	48	10	11	79	313	596	919	1030	984	875	618	354	108	5897	
S. C.	Narragansett Pier	98/99-17/18	20	1	26	121	366	691	1012	1113	1074	916	622	342	113	6397	
	Providence	04/05-45/46	42	6	16	101	358	668	1020	1106	1027	847	538	237	60	5986	
	Charleston	98/99-45/46	48	0	0	1	47	225	428	452	384	239	83	7	0	1679	
	Columbia	98/99-45/46	48	0	0	6	95	327	560	568	482	305	126	18	1	2485	
	Due West	21/22-31/32	11	0	0	9	142	393	594	651	491	411	158	39	2	2890	
S. D.	Greenville	17/18-45/46	29	0	1	13	127	410	650	684	551	403	179	40	1	3059	
	Huron	98/99-45/46	48	10	20	159	502	962	1409	1572	1353	1039	573	271	70	7940	
Tenn.	Pierre	98/99-40/41	47	4	11	136	438	887	1317	1460	1253	971	516	238	52	7283	
	Rapid City	98/99-45/46	48	15	28	192	495	842	1178	1280	1140	981	588	339	109	7197	
	Chattanooga	98/99-45/46	48	0	0	13	150	432	691	711	604	412	185	39	1	3238	
	Knoxville	98/99-45/46	48	0	0	20	189	498	756	774	666	470	226	56	3	3638	
	Memphis	98/99-45/46	48	0	0	14	126	367	748	716	600	386	157	33	1	3090	
Texas	Nashville	98/99-45/46	48	0	0	10	96	332	603	619	483	267	218	55	3	3613	
	Ablene	98/99-45/46	48	1	2	42	221	548	854	861	719	546	284	107	1	2573	
	Amarillo	98/99-45/46	48	0	0	2	31	227	410	458	315	185	46	5	0	4196	
	Austin	26/27-45/46	20	0	0	0	8	65	176	191	111	65	11	1	0	628	
	Brownsville	08/09-45/46	38	0	0	0	11	102	255	282	204	93	17	1	0	965	
Utah	Corpus Christi	98/99-45/46	48	0	0	0	70	293	574	600	437	281	91	15	0	2367	
	Dallas	13/14-45/46	33	0	0	0	6	70	293	574	600	437	281	91	15	0	2367
	El Paso	05/06-45/46	41	0	0	2	35	203	413	413	262	139	31	3	0	1501	
	Fort Worth	98/99-45/46	48	0	0	6	88	366	615	615	432	291	104	14	1	2355	
	Galveston	98/99-45/46	48	0	0	5	79	285	553	586	463	270	97	16	2	2532	
Vt.	Houston	09/10-45/46	37	0	0	1	14	123	290	334	255	130	27	1	0	1174	
	Palestine	98/99-45/46	48	0	0	4	67	261	496	512	401	236	80	11	0	2068	
	Point Arthur	17/18-45/46	29	0	0	1	21	177	323	375	254	151	37	2	0	1352	
	San Antonio	98/99-45/46	48	0	0	1	31	171	365	390	287	148	37	4	0	1435	
	Taylor	01/02-40/41	40	0	0	2	56	234	462	494	375	214	64	8	0	1909	
Wash.	Modena	00/01-45/46	46	6	11	156	499	832	1142	1190	944	816	567	338	97	6598	
	Salt Lake City	98/99-45/46	48	3	5	98	371	712	1033	1093	871	716	446	236	66	5659	
	Burlington	06/07-45/46	48	23	51	209	330	870	1313	1467	1338	1111	694	339	106	8051	
	Northfield	98/99-42/43	43	62	112	283	602	947	1389	1524	1384	1176	754	405	166	8804	
	Cape Henry	98/99-45/46	48	0	0	7	125	398	676	731	682	526	301	86	6	3538	
W. Va.	Lynchburg	98/99-45/46	48	1	2	37	230	521	799	829	732	537	287	81	12	4064	
	Norfolk	98/99-45/46	48	0	0	9	129	392	668	712	650	437	257	62	5	3364	
	Richmond	98/99-45/46	48	0	1	27	196	486	780	814	722	538	278	72	8	3292	
	Wyntheville	02/03-40/41	39	7	13	82	352	662	916	945	836	677	410	168	35	5107	
	North Head	02/03-45/46	44	251	229	255	350	491	642	697	597	610	505	428	312	5367	
Wis.	Seattle	98/99-45/46	48	67	69	170	365	534	704	759	637	595	436	299	160	4815	
	Spokane	98/99-45/46	48	20	37	184	480	817	1061	1139	931	756	490	285	118	6318	
	Tacona	98/99-45/46	48	71	75	190	390	581	737	786	658	612	455	313	171	5039	
	Tatoosh Island	98/99-45/46	48	301	295	325	421	534	654	716	627	537	454	350	5857		
	Walla Walla	98/99-45/46	48	5	10	90	315	662	910	981	770	571	354	186	56	4910	
W. Va.	Yakima	09/10-45/46	37	8	17	124	395	778	1050	1125	837	624	374	193	60	5585	
	Elkins	98/99-45/46	48	15	23	115	403	722	1003	1033	947	763	489	229	58	5800	
	Parkersburg	98/99-45/46	48	1	3	56	286	617	930	977	882	660	369	129	18	4928	
	Green Bay	98/99-40/41	48	17	38	179	494	889	1329	1493	1281	990	531	232	52	7421	
	La Crosse	98/99-45/46	48	7	22	157	454	864	1339	1492	1302	982	574	341	102	7079	
Wis.	Madison	04/05-45/46	42	8	20	145	452	857	1296	1451	1246	1002	592	341	102	7079	
	Milwaukee	98/99-45/46	48	13	17	124	411	786	1203	1329	1177	959	617	341	102	7079	
	Wausau	98/99-45/46	48	26	58	216	568	982	1427	1594	1381	1147	680	315	100	8949	
	Cheyenne	98/99-45/46	48	40	46	251	587	876	1144	1187	1064	996	720	460	165	7536	
	Lander	98/99-45/46	48	69	43	265	623	1021	1400	1427	1197	1006	690	410	155	8243	
Wyo.	Yellowstone Park	04/05-40/41	37	125	173	424	759	1079	1386	1464	1252	1165	841	603	334	9605	
Alta.	Calgary		108	167	432	722	1122	1426	1609	1355	1215	750	480	264	9,650		
	Edmonton		70	167	441	750	1224	1593	1810	1504	1299	777	428	222	12,293		
	Vancouver		43	65	234	459	657	818	893	736	682	496	326	162	5,375		
	Victoria		155	158	264	446	462	738	815	689	651	504	366	217	5,485		
	Prince Rupert		282	229	342	546	702	893	933	804	809	645	521	357	7,063		
Man.	Churchill		350	391	696	1187	1773	2356	2604	2288	2204	1530	1097	672	17,148		
	Winnipeg		277	34	330	744	1202	1829	2111	1775	1531	822	397	78	10,980		
	Floresville		8*	56	282	595	936	1373	1528	1392	1180	798	574	180	8,812		
	Saint John		124	112	270	558	870	1271	1417	1266	1132	792	505	261	8,578		
	Halifax		12	12	189	493	783	1141	1280	1168	1065	768	493	210	6,114		
Ont.	Fort William		62	153	354	722	1143	1596	1807	1582	1386	888	567	234	10,496		
	Hamilton		3*	9*	108	471	816	1178	1305	1187	1063	631	322	6	7,119		
	London		34*	11*	126	508	843	1200	1336	1240	1073	642	307	105	7,425		
	Ottawa		29*	22*	204	595	984	1494	1646	1459	1256	726	310	91	8,816		
	Toronto		16	33	168	504	817	1153	1304	1206	1072	760	411	87	7,374		
P.E.I.	Windsor		19*	5*	54	423	795	1172	1283	1148	995	582	310	81	7,802		
	Charlottetown		5*	57*	222	539	858	1246	1463	1338	1203	838	536	213	8,538		
	Montreal		7*	20*	180	561	948	1407	1587	1392	1209	702	298	88	8,399		
	Quebec		43	276	651	1050	1534	1696	1481	1311	1147	849	422	102	9,438		
	Sackatoon		16*	68	396	781	1305	1767	2027	1635	1445	725	397	138	10,700		
Y.T.	Dawson		167	322	687	1209	1908	2440	2666	2159	1879	1092	580	246	15,355		

Values of N depend on the particular building for which the estimate is being prepared and must be found by surveying plans, by observation, or by measurement of the building. Values of U for use in this equation are the unit fuel consumptions per degree-day, and are obtained as a result of the collection of operating information. Certain of this information is presented later, but before referring to these data attention is directed to the nature of the unit.

Unit Fuel Consumptions per Degree-Day

The quantity of fuel used per degree-day in a given heating plant can be reduced to a unit basis in terms of quantity of fuel or steam per degree-day per square foot of radiation, cubic foot of heated building space, or thousand Btu hourly heat loss at design conditions. A less frequently used basis is quantity of fuel per (degree-day) (square foot of floor area). In fact any convenient unit can be used to relate the consumption to the degree-day and to the building.

The choice of these units requires explanation, and some discrimination and judgment. If the volume basis is used, the net heated space is preferable to the gross building cubage, since gross cubage includes outer walls and certain portions of attic and basement space which are usually unhe