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ATMOSPHERIC ENVIRONMENT SERVICE
SERVICE DE L'ENVIRONNEMENT ATMOSPHERIQUE

Cooling Degree-Day Normals
1941-1970

by
D.W. Gullett and F.A. Richardson

This Climatic Data Sheet lists monthly and annual averages of "cooling" degree-days for 89 synoptic stations across Canada. Cooling degree-days are useful in assessing energy requirements for air conditioning systems, and are defined as the amount by which the daily mean temperature exceeds the base temperature of 18.0°C.

Data for selected stations with an appreciable length of record during the 1941-70 period are shown. The actual number of years of record used in the computations is given for each station under the column labelled "YEARS". The stations are arranged alphabetically within each province.

This summary will be amended and expanded along with degree day data for other bases, when the "new" normals (1951-80) are published after the close of the 1980 calendar year.

JULY 1980

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Normales des degrés-jours de
Refrigération de 1941 à 1970

par
D.W. Gullett et F.A. Richardson

Cette feuille d'information climatique énumère les moyennes mensuelles et annuelles de degrés-jours de "réfrigération" pour 89 stations synoptiques d'un bout à l'autre du Canada. Les degrés-jours de réfrigération sont utiles pour évaluer les besoins en énergie des installations d'air climatisé. On les définit comme le nombre de degrés par lequel la température moyenne quotidienne se trouve au-dessus de la température de base de 18°C.

On montre les données de stations choisies dont on a des relevés sur une période appréciable, de 1941 à 1970. Dans la colonne des "ANNÉES" on donne le nombre d'années de relevés réellement utilisé dans les calculs pour chaque station. Les stations de chaque province figurent par ordre alphabétique.

Ce résumé sera modifié et allongé à mesure que l'on recevra les données de degrés-jours pour d'autres bases, lorsque les "nouvelles" normales (1951 à 1980) seront publiées à la fin de l'année civile 1980.

JUILLET 1980

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DEGREE DAYS ABOVE 18.0 (°C)
DEGRÉS-JOURS AU-DESSUS DE 18.0 (°C)

	APR AVR	MAY MAI	JUN JUIN	JUL JUIL	AUG AOUT	SEP SEP	OCT OCT	NOV NOV	ANNUAL ANNUEL	YEARS ANNÉES
<u>YUKON TERRITORY/TERRITOIRE DU YUKON</u>										
Dawson	0.0	0.3	3.1	4.0	1.0	0.0	0.0	0.0	8.4	30
Whitehorse A	0.0	0.0	2.2	3.0	0.7	0.0	0.0	0.0	5.9	29
<u>NORTHWEST TERRITORIES/TERRITOIRES DU NORD-OUEST</u>										
Fort Smith A	0.0	0.7	6.3	18.0	8.4	0.3	0.0	0.0	33.7	30
Frobisher Bay A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
Hay River A	0.0	0.6	5.3	14.3	9.8	0.3	0.0	0.0	30.3	28
Inuvik A	0.0	0.0	3.8	7.6	2.9	0.0	0.0	0.0	14.3	14
Resolute A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
Yellowknife A	0.0	0.0	3.1	13.9	6.2	0.1	0.0	0.0	23.3	28
<u>BRITISH COLUMBIA/COLOMBIE BRITANNIQUE</u>										
Abbotsford A	0.0	2.1	6.7	16.9	13.6	4.1	0.0	0.0	43.4	26
Castlegar A	0.0	2.4	36.3	87.5	82.1	15.7	0.0	0.0	224.0	5
Comox A	0.0	0.7	8.1	22.5	12.5	0.9	0.0	0.0	44.7	27
Cranbrook A	0.0	0.4	5.8	34.9	24.2	2.0	0.0	0.0	67.3	30
Fort Nelson A	0.0	0.6	7.5	18.7	9.3	0.3	0.0	0.0	36.4	30
Fort St. John A	0.0	1.1	4.2	12.8	9.1	0.7	0.0	0.0	27.9	29
Kamloops A	0.1	7.4	41.8	96.2	67.7	12.2	0.0	0.0	225.4	20
Penticton A	0.0	3.6	27.3	79.5	57.2	7.5	0.1	0.0	175.2	30
Port Hardy A	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.3	27
Prince George A	0.0	0.1	3.0	6.4	3.3	0.0	0.1	0.0	12.9	29
Prince Rupert A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
Revelstoke A	0.0	2.3	20.6	65.7	42.9	4.6	0.0	0.0	136.1	30
Terrace A	0.0	0.8	10.5	20.9	15.7	0.5	0.0	0.0	48.4	29
Vancouver Int'l A	0.0	0.6	4.3	18.1	11.1	1.0	0.0	0.0	35.1	30
Victoria Int'l A	0.0	0.6	3.0	10.9	6.3	1.7	0.0	0.0	22.5	30
Williams Lake A	0.0	0.1	8.9	12.6	14.3	1.2	0.0	0.0	37.1	10
<u>ALBERTA/ALBERTA</u>										
Banff	0.0	0.0	0.5	5.4	2.3	0.1	0.0	0.0	8.3	30
Calgary Int'l A	0.0	0.4	5.3	19.4	11.3	1.7	0.0	0.0	38.1	30
Coronation	0.0	1.2	9.2	32.3	22.1	2.2	0.0	0.0	67.0	27
Edmonton Namao A	0.0	2.3	9.2	28.2	18.5	1.6	0.0	0.0	59.8	15
Fort McMurray A	0.0	0.6	5.2	16.4	9.1	0.7	0.0	0.0	32.0	27
Grande Prairie A	0.0	0.9	3.9	13.6	8.8	0.4	0.0	0.0	27.6	29
Jasper	0.0	0.0	1.2	9.9	5.0	0.4	0.0	0.0	16.5	30
Lethbridge A	0.0	2.1	14.0	54.3	36.0	7.4	0.3	0.0	114.1	30
Medicine Hat A	0.1	6.9	24.5	86.7	63.4	12.3	0.5	0.0	194.4	30
Peace River A	0.0	0.8	4.5	14.4	8.2	0.2	0.0	0.0	28.1	12
Red Deer A	0.0	0.4	3.9	15.3	7.8	0.9	0.0	0.0	28.3	30

DEGREE DAYS ABOVE 18.0 (°C)
DEGRÉS-JOURS AU-DESSUS DE 18.0 (°C)

	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	ANNUAL	YEARS
	APR	MAI	JUIN	JUIL	AOUT	SEP	OCT	NOV	ANNUEL	ANNÉES
<u>SASKATCHEWAN/SASKATCHEWAN</u>										
Estevan A	0.5	5.3	24.2	80.3	63.0	10.7	0.3	0.0	184.3	26
Prince Albert A	0.3	1.9	9.4	34.6	20.2	1.9	0.1	0.0	68.4	30
Regina A	0.1	3.8	16.3	56.7	44.6	5.8	0.1	0.0	127.4	30
Saskatoon A	0.4	3.7	17.3	54.6	37.2	4.8	0.2	0.0	118.2	30
Swift Current A	0.2	3.7	14.0	55.6	43.2	7.9	0.5	0.0	125.1	30
Yorkton A	0.3	3.4	15.5	47.4	32.9	5.0	0.2	0.0	104.7	29
<u>MANITOBA/MANITOBA</u>										
Brandon A	0.1	3.0	21.6	55.3	39.8	5.2	0.0	0.0	125.0	26
Churchill A	0.0	0.0	1.4	7.8	3.5	0.0	0.0	0.0	12.7	28
Dauphin A	0.7	6.4	20.1	51.6	36.8	5.4	0.5	0.0	121.5	28
The Pas A	0.1	2.0	10.5	38.7	22.8	1.8	0.0	0.0	75.9	28
Winnipeg Int'l A	0.8	7.3	31.4	74.8	57.8	11.0	0.5	0.0	183.6	30
<u>ONTARIO/ONTARIO</u>										
Armstrong A	0.0	0.5	9.2	26.2	15.5	2.0	0.0	0.0	53.4	30
Earlton A	0.0	3.3	21.9	42.4	26.8	6.8	0.5	0.0	101.7	30
Kapuskasing A	0.0	3.1	20.3	37.5	21.3	5.5	0.4	0.0	88.1	30
Kenora A	0.5	4.4	23.5	62.5	42.5	6.4	0.1	0.0	139.9	30
London A	1.0	8.6	54.5	90.1	75.1	27.5	1.8	0.0	258.6	30
Moosonee	0.0	1.4	14.5	28.4	18.1	5.1	0.0	0.0	67.5	30
Mount Forest	0.1	4.6	29.1	41.5	36.6	12.9	0.3	0.0	125.1	17
Muskoka A	0.2	3.8	26.9	47.7	38.7	14.1	0.7	0.0	132.1	30
North Bay A	0.0	3.6	23.3	47.8	33.5	9.5	0.4	0.0	118.1	30
Ottawa Int'l A	0.2	9.1	50.1	92.6	68.3	21.1	0.5	0.0	241.9	30
Simcoe	0.8	11.0	53.5	84.5	66.5	22.4	2.2	0.0	240.9	9
Sudbury A	0.0	2.6	23.1	51.0	32.6	7.1	0.2	0.0	116.6	17
Thunder Bay A	0.1	0.4	6.3	30.5	24.7	3.9	0.0	0.0	65.9	29
Timmins A	0.0	4.1	20.8	39.8	18.0	4.1	1.1	0.0	87.9	16
Toronto Int'l A	0.4	8.0	53.5	95.8	80.4	29.7	1.8	0.0	269.6	30
Trenton A	0.0	4.3	46.7	94.3	78.9	27.2	1.1	0.0	252.5	30
Warton A	0.3	3.7	23.9	52.1	47.6	18.5	1.9	0.1	148.1	24
Windsor A	2.1	17.5	87.2	135.0	112.4	47.3	6.8	0.1	408.4	30
<u>QUEBEC/QUÉBEC</u>										
Bagotville A	0.0	3.6	19.1	42.0	27.1	5.6	0.2	0.0	97.6	28
Baie Comeau A	0.0	0.0	2.2	15.2	7.1	0.5	0.0	0.0	25.0	9
Maniwaki	0.0	4.2	19.9	43.4	30.9	7.9	0.2	0.0	106.5	17
Mont Joli A	0.0	1.4	13.5	32.6	19.6	4.1	0.0	0.0	71.2	28

DEGREE DAYS ABOVE 18.0 (°C)
DEGRÉS-JOURS AU-DESSUS DE 18.0 (°C)

	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	ANNUAL	YEARS
	APR	MAI	JUIN	JUIL	AOUT	SEP	OCT	NOV	ANNUEL	ANNÉES
Montreal Int'l A	0.0	9.1	54.2	105.9	79.7	24.7	1.2	0.0	274.8	29
Natashquan A	0.0	0.0	0.0	2.1	0.5	0.0	0.0	0.0	2.6	29
Poste de la Baleine A	0.0	0.1	2.0	5.3	1.9	1.2	0.0	0.0	10.5	28
Québec A	0.0	3.6	24.4	60.4	38.0	7.6	0.0	0.0	134.0	28
Schefferville A	0.0	0.0	1.4	4.5	0.6	0.1	0.0	0.0	6.6	23
Sept-Iles A	0.0	0.0	1.3	6.4	3.0	0.3	0.0	0.0	11.0	27
Sherbrooke A	0.0	3.1	16.9	39.1	21.8	4.8	0.2	0.0	85.9	9
Val D'Or A	0.0	2.9	20.2	37.1	19.6	4.6	0.3	0.0	84.7	19

NEW BRUNSWICK/NOUVEAU-BRUNSWICK

Chatham A	0.0	2.8	24.0	62.0	42.8	9.9	0.4	0.0	141.9	28
Fredericton A	0.0	3.3	22.5	59.2	40.5	9.2	0.3	0.0	135.0	20
Moncton A	0.0	0.8	14.1	44.4	34.0	9.9	0.0	0.0	103.2	30
Saint John A	0.0	0.1	2.2	14.6	11.1	1.9	0.0	0.0	29.9	19

NOVA SCOTIA/NOUVELLE ÉCOSSE

Shearwater A	0.0	0.2	4.4	22.6	25.0	8.2	0.2	0.0	60.6	27
Sydney A	0.0	0.6	8.4	39.4	36.1	8.9	0.1	0.0	93.5	30
Truro	0.0	0.1	4.8	29.2	26.3	5.1	0.3	0.0	65.8	10
Yarmouth A	0.0	0.0	0.4	5.8	7.5	3.0	0.2	0.0	16.9	30

PRINCE EDWARD ISLAND/ILE-DU-PRINCE EDOUARD

Charlottetown A	0.0	0.1	9.0	40.8	33.5	8.2	0.0	0.0	91.6	28
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NEWFOUNDLAND/TERRE-NEUVE

Gander Int'l A	0.0	0.0	4.9	27.9	17.9	2.3	0.0	0.0	53.0	30
Goose A	0.0	0.1	6.2	23.7	10.1	1.9	0.0	0.0	42.0	29
St Johns A	0.0	0.1	1.0	13.6	11.9	1.5	0.0	0.0	28.0	29
Stephenville A	0.0	0.0	1.7	10.2	10.1	1.4	0.0	0.0	23.4	29