

Canada
Weather Temperature and Soil Temperature Design Data

British Columbia

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Abbotsford	49.0	14.0	84.0	22.0	52.0
Agassiz	49.0	9.0	88.0	25.0	52.0
Alberni	49.0	23.0	88.0	23.0	50.0
Ashcroft	50.0	-13.0	93.0	29.0	50.0
Beaton River	57.0	-35.0	77.0	23.0	39.0
Burns Lake	54.0	-22.0	77.0	25.0	43.0
Cache Creek	50.5	-13.0	93.0	29.0	50.0
Campbell River	49.5	19.0	79.0	23.0	50.0
Carmi	49.0	-11.0	91.0	31.0	50.0
Castlegar	49.0	-2.0	90.0	29.0	50.0
Chetwynd	55.0	-31.0	81.0	23.0	41.0
Chilliwack	49.0	10.0	86.0	23.0	52.0
Cloverdale	49.0	18.0	84.0	22.0	52.0
Comox	49.5	19.0	81.0	23.0	50.0
Courtenay	49.5	19.0	82.0	23.0	50.0
Cranbrook	49.0	-17.0	90.0	31.0	48.0
Crescent Valley	49.0	-4.0	88.0	29.0	50.0
Crofton	48.5	21.0	82.0	23.0	52.0
Dawson Creek	55.5	-33.0	81.0	23.0	41.0
Dog Creek	51.0	-18.0	84.0	29.0	43.0
Duncan	48.5	21.0	84.0	32.0	50.0
Elko	49.0	-18.0	84.0	32.0	48.0
Fernie	49.0	-20.0	84.0	31.0	46.0
Fort Nelson	58.5	-40.0	82.0	22.0	39.0
Fort St. John	56.0	-33.0	79.0	23.0	41.0
Glacier	51.0	-17.0	81.0	29.0	46.0
Golden	51.0	-18.0	84.0	31.0	46.0
Grand Forks	49.0	-4.0	95.0	32.0	50.0
Greenwood	49.0	-4.0	95.0	34.0	50.0
Haney	49.0	16.0	86.0	22.0	52.0
Hope	49.0	3.0	90.0	27.0	52.0
Kamloops	50.5	-13.0	93.0	29.0	50.0
Kaslo	49.5	-9.0	84.0	27.0	48.0
Kelowna	49.5	1.0	91.0	29.0	52.0
Kimberley	49.5	-15.0	88.0	31.0	46.0
Kitimat Townsite	54.0	3.0	73.0	18.0	45.0
Langley	49.0	18.0	84.0	22.0	52.0
Lillooet	50.5	-9.0	91.0	29.0	52.0
Lytton	50.0	-2.0	95.0	29.0	52.0
Mackenzie	55.0	-31.0	79.0	23.0	41.0

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Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
McBride	53.0	-29.0	86.0	27.0	46.0
McLeod Lake	54.5	-31.0	81.0	23.0	41.0
Masset	54.0	19.0	63.0	18.0	43.0
Merritt	50.0	-15.0	93.0	29.0	52.0
Mission City	49.0	16.0	86.0	22.0	52.0
Montrose	49.0	1.0	90.0	29.0	50.0
Nakusp	50.0	-11.0	88.0	27.0	48.0
Nanaimo	49.0	19.0	79.0	23.0	52.0
Nelson	49.0	-4.0	88.0	29.0	50.0
New Westminister	49.0	18.0	84.0	22.0	52.0
North Vancouver	49.0	19.0	79.0	20.0	52.0
Ocean Falls	52.0	10.0	73.0	16.0	46.0
100 Mile House	51.0	-18.0	86.0	29.0	46.0
Osoyoos	49.0	3.0	91.0	31.0	54.0
Penticton	49.0	3.0	91.0	31.0	52.0
Port Alberni	49.0	23.0	88.0	23.0	50.0
Port Hardy	50.0	23.0	68.0	14.0	50.0
Port McNeill	50.0	23.0	72.0	16.0	50.0
Powell River	49.5	16.0	79.0	18.0	52.0
Prince George	53.5	-27.0	82.0	27.0	43.0
Prince Rupert	54.0	7.0	66.0	13.0	50.0
Princeton	49.0	-17.0	90.0	32.0	50.0
Qualicum Beach	49.0	19.0	81.0	23.0	50.0
Quesnel City	52.0	-27.0	86.0	29.0	43.0
Revelstoke	50.5	-15.0	90.0	27.0	48.0
Richmond	49.0	19.0	81.0	22.0	52.0
Salmon Arm	50.5	-9.0	91.0	29.0	50.0
Sandspit	53.0	21.0	59.0	9.0	52.0
Sidney	48.0	21.0	79.0	23.0	54.0
Smithers	54.5	-20.0	77.0	23.0	43.0
Smith River	59.5	-51.0	79.0	22.0	39.0
Squamish	49.5	12.0	84.0	20.0	52.0
Stewart	55.5	-9.0	73.0	22.0	46.0
Taylor	56.0	-33.0	79.0	23.0	41.0
Terrace	54.0	-4.0	77.0	20.0	45.0
Tofino	49.0	28.0	66.0	11.0	52.0
Trail	49.0	1.0	91.0	29.0	50.0
Ucluelet	48.5	28.0	66.0	9.0	52.0
Vancouver	49.0	19.0	79.0	22.0	52.0
Vernon	50.0	-4.0	91.0	29.0	50.0
Victoria	48.0	23.0	75.0	20.0	54.0
Williams Lake	52.0	-24.0	84.0	29.0	45.0
Youbou	48.5	23.0	88.0	23.0	50.0

Canada
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Yukon

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Aishihik	61.5	-47.0	73.0	25.0	36.0
Dawson	64.0	-58.0	79.0	25.0	34.0
Destruction Bay	61.0	-45.0	75.0	25.0	36.0
Snag	62.0	-60.0	73.0	25.0	36.0
Teslin	60.0	-42.0	77.0	22.0	39.0
Watson Lake	60.0	-51.0	79.0	22.0	39.0
Whitehorse	60.5	-42.0	77.0	22.0	37.0

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North West Territories

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Aklavik	68.0	-47.0	75.0	20.0	*
Alert	82.0	-45.0	55.0	11.0	*
Artic Bay	73.0	-45.0	57.0	14.0	*
Baker Lake	64.0	-49.0	70.0	18.0	*
Ca~ridge Bay	69.0	-49.0	61.0	14.0	*
Chesterfield Inlet	63.0	-40.0	68.0	16.0	*
Clyde	70.0	-42.0	59.0	13.0	*
Coppermine	67.5	-47.0	68.0	14.0	*
Coral Harbour	64.0	-42.0	64.0	16.0	*
Eskimo Point	61.0	-40.0	70.0	16.0	*
Eureka	79.5	-53.0	54.0	11.0	*
Fort Good Hope	66.0	-51.0	81.0	23.0	30.0
Fort Providence	61.0	-47.0	75.0	23.0	37.0
Fort Resolution	61.0	-44.0	79.0	18.0	36.0
Fort Simpson	61.5	-49.0	81.0	23.0	36.0
Fort Smith	60.0	-45.0	82.0	23.0	37.0
Frobisher Bay	63.5	-40.0	61.0	14.0	*
Hay River	60.5	-42.0	79.0	18.0	37.0
Holeman Island	70.5	-45.0	64.0	14.0	*
Inuvik	68.0	-51.0	77.0	22.0	*
Isachen	78.5	-51.0	54.0	9.0	*
MouldBay	76.0	-49.0	50.0	9.0	*
Norman Wells	65.0	-51.0	81.0	23.0	32.0
Nottingham Island	63.0	-36.0	57.0	14.0	*
Port Radium	66.0	-47.0	72.0	16.0	30.0
Rae	62.5	-47.0	75.0	18.0	32.0
Rankin Inlet	62.5	-40.0	68.0	16.0	*
Resolute	74.5	-47.0	52.0	9.0	*
Resolution Island	61.0	-31.0	46.0	11.0	*
Tungsten	61.5	-56.0	79.0	22.0	36.0
Yellowknife	62.0	-45.0	77.0	18.0	32.0

* Indicates an area of continuous permafrost

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Alberta

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Athabasca	54.5	-33.0	82.0	25.0	41.0
Banff	51.0	-22.0	81.0	29.0	41.0
Barrhead	54.0	-29.0	82.0	25.0	41.0
Beaverlodge	55.0	-31.0	82.0	23.0	41.0
Brooks	50.5	-26.0	90.0	27.0	45.0
Calgary	51.0	-24.0	84.0	27.0	43.0
Campsie	54.0	-29.0	82.0	25.0	41.0
Camrose	53.0	-27.0	84.0	23.0	41.0
Cardston	49.0	-22.0	84.0	27.0	45.0
Claresholm	50.0	-24.0	84.0	29.0	43.0
Cold Lake	54.0	-33.0	82.0	23.0	39.0
Coleman	49.5	-24.0	82.0	31.0	45.0
Coronation	52.0	-24.0	86.0	25.0	41.0
Cowley	49.0	-24.0	84.0	31.0	43.0
Drumheller	51.0	-24.0	84.0	27.0	41.0
Edmonton	53.5	-26.0	82.0	23.0	41.0
Edson	53.5	-29.0	82.0	25.0	41.0
Embarras Portage	58.0	-42.0	81.0	22.0	37.0
Fairview	56.0	-36.0	81.0	22.0	39.0
Fort McMurray	56.5	-38.0	82.0	22.0	39.0
Fort Saskatchewan	53.5	-26.0	82.0	23.0	41.0
Fort Vermilion	58.0	-42.0	82.0	23.0	39.0
Grande Prairie	55.0	-33.0	81.0	23.0	41.0
Habay	58.5	-42.0	82.0	22.0	39.0
Hardisky	52.5	-27.0	86.0	25.0	41.0
High River	50.5	-24.0	82.0	27.0	43.0

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Alberta

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Jasper	52.5	-26.0	82.0	27.0	43.0
Keg River	57.5	-40.0	82.0	22.0	39.0
Lac La Biche	54.5	-31.0	82.0	23.0	39.0
Lacombe	52.0	-27.0	84.0	25.0	41.0
Lethbridge	49.5	-22.0	88.0	27.0	46.0
Manning	56.5	-38.0	81.0	20.0	39.0
Medicine Hat	50.0	-24.0	91.0	29.0	46.0
Peace River	56.0	-35.0	81.0	22.0	39.0
Pincher Creek	49.0	-26.0	84.0	29.0	43.0
Ranfurly	53.0	-29.0	84.0	23.0	41.0
Red Deer	52.0	-26.0	84.0	25.0	41.0
Rocky Mountain House	52.0	-24.0	82.0	25.0	41.0
Slave Lake	55.0	-33.0	81.0	22.0	39.0
Stettler	52.0	-26.0	86.0	25.0	41.0
Stony Plain	53.5	-26.0	82.0	23.0	41.0
Suffield	50.0	-26.0	91.0	29.0	46.0
Taber	49.5	-24.0	88.0	27.0	46.0
Turner Valley	50.5	-24.0	82.0	27.0	41.0
Valleyview	55.0	-35.0	81.0	23.0	39.0
Vegreville	53.5	-29.0	84.0	23.0	41.0
Vermilion	53.0	-31.0	84.0	25.0	41.0
Wagner	55.0	-33.0	81.0	22.0	39.0
Wainwright	52.5	-27.0	84.0	25.0	41.0
Wetaskiwin	52.5	-27.0	84.0	23.0	41.0
Whitecourt	54.0	-31.0	81.0	25.0	41.0
Wimborne	51.5	-24.0	84.0	25.0	41.0

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Weather Temperature and Soil Temperature Design Data

Saskatchewan

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Assiniboia	49.5	-26.0	90.0	31.0	45.0
Battrum	50.5	-26.0	90.0	29.0	43.0
Biggar	52.0	-29.0	88.0	27.0	43.0
Broadview	50.0	-29.0	86.0	25.0	43.0
Dafoe	51.5	-33.0	84.0	25.0	41.0
Dundurn	51.5	-31.0	88.0	27.0	43.0
Estevan	49.0	-26.0	90.0	27.0	43.0
Hudson Bay	52.5	-35.0	84.0	25.0	41.0
Humbolt	52.0	-33.0	82.0	25.0	41.0
Island Falls	55.5	-38.0	79.0	22.0	39.0
Kamsack	51.5	-31.0	84.0	25.0	41.0
Kindersley	51.0	-27.0	90.0	29.0	43.0
Lloydminster	53.0	-31.0	84.0	25.0	41.0
Maple Creek	49.5	-24.0	88.0	31.0	45.0
Meadow Lake	54.0	-33.0	82.0	23.0	39.0
Melfort	52.5	-35.0	82.0	25.0	41.0
Melville	50.5	-29.0	84.0	25.0	41.0
Moose Jaw	50.0	-26.0	90.0	27.0	45.0
Nipawin	53.0	-36.0	82.0	25.0	41.0
North Battleford	52.5	-29.0	86.0	25.0	41.0
Prince Albert	53.0	-35.0	84.0	25.0	41.0
Qu'Appelle	50.5	-29.0	86.0	25.0	43.0
Regina	50.0	-29.0	88.0	27.0	43.0
Rosetown	51.5	-27.0	90.0	27.0	43.0
Saskatoon	52.0	-31.0	86.0	25.0	43.0
Scott	52.0	-29.0	88.0	25.0	41.0
Strasbourg	51.0	-29.0	86.0	25.0	43.0
Swift Current	50.0	-26.0	90.0	29.0	43.0
Uranium City	59.5	-47.0	79.0	18.0	37.0
Weyburn	49.5	-27.0	90.0	27.0	43.0
Yorkton	51.0	-29.0	84.0	25.0	41.0

Canada
Weather Temperature and Soil Temperature Design Data

Manitoba

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Beausejour	50.0	-27.0	82.0	22.0	43.0
Boissevain	49.0	-26.0	90.0	25.0	43.0
Brandon	49.5	-27.0	88.0	23.0	43.0
Churchill	58.5	-38.0	75.0	18.0	*
Dauphin	51.0	-27.0	86.0	23.0	41.0
Flin Flon	54.5	-36.0	81.0	22.0	39.0
Gimli	50.5	-29.0	84.0	22.0	43.0
Island Lake	53.5	-33.0	79.0	18.0	39.0
Lac du Bonnet	50.0	-29.0	82.0	20.0	43.0
Lynn Lake	56.5	-40.0	81.0	20.0	36.0
Morden	49.0	-24.0	88.0	23.0	45.0
Neepawa	50.0	-26.0	86.0	23.0	43.0
Pine Falls	50.5	-29.0	82.0	20.0	43.0
Portage la Prairie	49.5	-24.0	86.0	22.0	43.0
Rivers	50.0	-29.0	86.0	23.0	43.0
St. Boniface	49.5	-27.0	86.0	22.0	43.0
St. Vital	49.5	-27.0	86.0	22.0	43.0
Sandilands	49.0	-26.0	84.0	23.0	43.0
Selkirk	50.0	-27.0	84.0	22.0	43.0
Split Lake	56.0	-36.0	81.0	20.0	34.0
Steinback	49.0	-27.0	86.0	22.0	43.0
Swan River	52.0	-33.0	84.0	25.0	41.0
The Pas	53.5	-33.0	82.0	22.0	41.0
Thompson	55.5	-44.0	79.0	22.0	36.0
Transcona	49.5	-27.0	86.0	22.0	43.0
Virden	49.5	-27.0	86.0	25.0	43.0
Whiteshell	49.5	-29.0	82.0	22.0	43.0
Winnipeg	49.5	-27.0	86.0	22.0	43.0

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Canada
Weather Temperature and Soil Temperature Design Data

Ontario

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Ailsa Craig	43.0	1.0	86.0	22.0	50.0
Ajax	43.5	-4.0	86.0	20.0	50.0
Alexandria	45.0	-11.0	86.0	22.0	48.0
Alliston	44.0	-9.0	84.0	23.0	48.0
Almonte	45.0	-15.0	86.0	22.0	48.0
Armstrong	50.0	-38.0	82.0	25.0	41.0
Arnprior	45.0	-17.0	86.0	22.0	48.0
Atikokan	48.0	-29.0	84.0	25.0	43.0
Aurora	44.0	-6.0	86.0	23.0	48.0
Bancroft	45.0	-17.0	84.0	23.0	46.0
Barrie	44.0	-11.0	84.0	23.0	48.0
Barriefield	44.0	-8.0	81.0	20.0	50.0
Beaverton	44.0	-11.0	86.0	23.0	48.0
Belleville	44.0	-8.0	84.0	22.0	50.0
Belmont	42.5	1.0	86.0	22.0	50.0
Bowmanville	43.5	-4.0	86.0	20.0	50.0
Bracebridge	45.0	-15.0	84.0	23.0	46.0
Bradford	44.0	-9.0	86.0	23.0	48.0
Brampton	43.0	-2.0	86.0	22.0	48.0
Brantford	43.0	1.0	86.0	22.0	50.0
Brighton	44.0	-6.0	84.0	20.0	50.0
Brockville	44.0	-9.0	84.0	20.0	50.0
Brooklin	44.0	-4.0	86.0	23.0	48.0
Burks Falls	45.0	-15.0	84.0	23.0	46.0
Burlington	43.0	1.0	88.0	20.0	50.0
Caledonia	43.0	1.0	86.0	23.0	48.0
Cambridge	43.0	0.0	84.0	22.0	50.0
Campbellford	44.0	-9.0	86.0	23.0	48.0
Camp Borden	44.0	-9.0	84.0	23.0	46.0
Cannington	44.0	-11.0	86.0	23.0	48.0
Carleton Place	45.0	-13.0	86.0	22.0	48.0
Cavan	44.0	-8.0	86.0	23.0	48.0
Centralia	43.0	1.0	86.0	22.0	50.0
Chapleau	47.5	-31.0	81.0	22.0	43.0
Chatham	42.0	3.0	88.0	20.0	52.0
Chelmsford	46.0	-18.0	84.0	22.0	46.0
Chesley	44.0	-2.0	84.0	22.0	48.0
Clinton	43.0	1.0	84.0	22.0	48.0
Coboconk	44.0	-13.0	84.0	23.0	46.0
Cobourg	43.5	-6.0	86.0	20.0	50.0

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Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Cochrane	49.0	-29.0	84.0	25.0	43.0
Colborne	44.0	-6.0	84.0	20.0	50.0
Collingwood	44.0	-8.0	84.0	22.0	46.0
Cornwall	45.0	-9.0	86.0	22.0	48.0
Corunna	42.0	3.0	88.0	20.0	50.0
Deep River	46.0	-20.0	86.0	22.0	46.0
Deseronto	44.0	-8.0	82.0	20.0	50.0
Dorchester	42.5	0.0	86.0	22.0	50.0
Dorion	48.5	-27.0	82.0	23.0	43.0
Dresden	42.0	3.0	88.0	20.0	52.0
Dryden	49.5	-29.0	81.0	22.0	43.0
Dunbarton	43.5	-2.0	86.0	20.0	50.0
Dunnville	42.5	5.0	86.0	20.0	50.0
Durham	44.0	-4.0	84.0	22.0	48.0
Dutton	42.0	3.0	88.0	20.0	50.0
Earlton	47.5	-27.0	86.0	23.0	43.0
Edison	49.5	-29.0	82.0	22.0	43.0
Elmvale	44.0	-11.0	84.0	22.0	46.0
Embro	43.0	0.0	84.0	22.0	50.0
Englehart	47.5	-27.0	86.0	23.0	43.0
Espanola	46.0	-13.0	82.0	20.0	46.0
Exeter	43.0	1.0	86.0	22.0	50.0
Fenelon Falls	44.0	-13.0	86.0	23.0	48.0
Fergus	43.5	-4.0	84.0	22.0	48.0
Fonthill	43.0	5.0	86.0	18.0	52.0
Forest	43.0	3.0	88.0	20.0	50.0
Fort Erie	42.5	5.0	86.0	18.0	50.0
Fort Frances	48.5	-27.0	84.0	25.0	45.0
Gananoque	44.0	-8.0	82.0	20.0	50.0
Georgetown	43.5	-2.0	86.0	23.0	48.0
Geraldton	49.5	-31.0	82.0	23.0	41.0
Glencoe	42.5	3.0	88.0	22.0	52.0
Goderich	43.5	3.0	84.0	18.0	48.0
Gore Bay	45.5	9.0	84.0	20.0	46.0
Graham	49.0	-35.0	84.0	23.0	43.0
Gravenhurst	44.5	-15.0	84.0	23.0	46.0
Grimsby	43.0	3.0	86.0	20.0	50.0
Guelph	43.0	-2.0	84.0	22.0	48.0
Guthrie	44.0	-11.0	84.0	23.0	48.0
Hagersville	42.5	3.0	86.0	22.0	50.0

Canada
Weather Temperature and Soil Temperature Design Data

Ontario

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Haileybury	47.0	-26.0	86.0	22.0	45.0
Haliburton	45.0	-17.0	84.0	23.0	46.0
Hamilton	43.0	1.0	88.0	20.0	50.0
Hanover	44.0	-2.0	86.0	22.0	48~
Hastings	44.0	-9.0	86.0	23.0	48.0
Hawkesbury	45.0	-13.0	86.0	22.0	48.0
Hearst	49.0	-29.0	82.0	25.0	41.0
Honey Harbour	44.5	-11.0	84.0	22.0	46.0
Hornepayne	49.0	-35.0	82.0	25.0	41.0
Huntsville	45.0	-15.0	84.0	23.0	46.0
Ingersoll	43.0	0.0	86.0	22.0	50.0
Jarvis	42.5	3.0	86.0	20.0	50.0
Jellicoe	49.5	-33.0	82.0	23.0	41.0
Kapuskasing	49.0	-27.0	82.0	25.0	41.0
Kemptville	45.0	-13.0	86.0	22.0	48.0
Kenora	49.5	-27.0	82.0	18.0	43.0
Killaloe	45.5	-18.0	86.0	25.0	46.0
Kincardine	44.0	1.0	82.0	16.0	50.0
Kingston	44.0	-8.0	81.0	20.0	50.0
Kinmount	44.5	-15.0	84.0	23.0	48.0
Kirkland Lake	48.0	-27.0	86.0	23.0	43.0
Kitchener	43.0	-2.0	84.0	22.0	48.0
Lakefield	44.0	-11.0	86.0	23.0	48.0
Lansdowne House	52.0	-38.0	82.0	18.0	41.0
Leamington	42.0	5.0	88.0	18.0	52.0
Lindsay	44.0	-11.0	86.0	23.0	48.0
Lions Head	44.5	-2.0	81.0	18.0	46.0
Listowel	43.5	-2.0	84.0	22.0	48.0
London	42.5	0.0	86.0	22.0	50.0
Lucan	43.0	1.0	86.0	22.0	50.0
Maitland	44.0	-9.0	84.0	20.0	50.0
Markdale	44.0	-4.0	84.0	22.0	46.0
Martin	49.0	-33.0	84.0	23.0	43.0
Matheson	48.0	-27.0	84.0	23.0	43.0
Mattawa	46.0	-20.0	86.0	22.0	46.0
Midland	44.5	-9.0	84.0	22.0	46.0
Milton	43.0	0.0	86.0	22.0	50.0
Milverton	43.5	-2.0	84.0	22.0	48.0
Minden	44.5	-15.0	84.0	23.0	46.0
Mississauga	43.5	0.0	86.0	22.0	50.0

Canada
Weather Temperature and Soil Temperature Design Data

Ontario

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Mitchell	43.0	0.0	84.0	22.0	48.0
Moosonee	51.0	-33.0	82.0	23.0	41.0
Morrisburg	44.5	-9.0	86.0	22.0	48.0
Mount Forest	43.5	-6.0	84.0	22.0	48.0
Muskoka Airport	44.5	-15.0	84.0	23.0	46.0
Nakina	50.0	-31.0	82.0	25.0	41.0
Napanee	44.0	-8.0	82.0	20.0	48.0
Newcastle	43.5	-4.0	86.0	20.0	48.0
New Liskeard	47.5	-26.0	86.0	22.0	45.0
Newmarket	44.0	-8.0	86.0	23.0	48.0
Niagara Falls	43.0	3.0	86.0	18.0	50.0
North Bay	46.0	-18.0	82.0	22.0	45.0
Norwood	44.0	-11.0	86.0	23.0	48.0
Oakville	43.0	0.0	86.0	20.0	50.0
Orangeville	43.5	-6.0	84.0	23.0	46.0
Orillia	44.5	-13.0	84.0	23.0	46.0
Oshawa	43.5	-2.0	86.0	20.0	50.0
Ottawa	45.0	-13.0	86.0	22.0	50.0
Owen Sound	44.0	-2.0	84.0	18.0	48.0
Pagwa River	50.0	-29.0	82.0	25.0	41.0
Paris	43.0	1.0	86.0	22.0	50.0
Parkhill	43.0	3.0	88.0	22.0	50.0
Parry Sound	45.0	-11.0	82.0	20.0	46.0
Pembroke	45.5	-18.0	86.0	22.0	46.0
Penetanguishene	44.5	-9.0	84.0	22.0	48.0
Perth	44.5	-13.0	86.0	22.0	48.0
Petawawa	45.5	-20.0	86.0	22.0	46.0
Peterborough	44.0	-9.0	86.0	23.0	48.0
Petrolia	42.5	3.0	88.0	20.0	50.0
Picton	44.0	-6.0	84.0	20.0	50.0
Plattsville	43.0	0.0	84.0	22.0	50.0
Pointe Alexander	46.0	-20.0	86.0	22.0	46.0
Porcupine	48.0	-29.0	86.0	25.0	43.0
Port Burwell	42.0	5.0	86.0	18.0	50.0
Port Colborne	42.5	5.0	86.0	18.0	50.0
Port Credit	43.5	0.0	86.0	20.0	50.0
Port Dover	42.5	5.0	86.0	18.0	50.0
Port Elgin	44.0	1.0	82.0	18.0	48.0
Port Hope	43.5	-6.0	86.0	20.0	50.0
Port Perry	44.0	-8.0	86.0	23.0	48.0

Canada
Weather Temperature and Soil Temperature Design Data

Ontario

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Port Stanley	42.5	5.0	88.0	18.0	50.0
Prescott	44.5	-9.0	84.0	20.0	50.0
Princeton	43.0	1.0	84.0	22.0	50.0
Raith	48.5	-31.0	82.0	25.0	43.0
Red Lake	51.0	-29.0	82.0	20.0	41.0
Renfrew	45.0	-17.0	86.0	22.0	48.0
Ridgeway	42.5	5.0	86.0	18.0	50.0
Rockland	45.5	-15.0	86.0	22.0	50.0
St. Catharines	43.0	3.0	86.0	20.0	50.0
St. Mary's	43.0	0.0	86.0	22.0	50.0
St. Thomas	42.5	3.0	88.0	20.0	50.0
Sarnia	42.5	3.0	88.0	20.0	50.0
Sault Ste. Marie	46.5	-13.0	84.0	22.0	46.0
Schreiber	48.5	-31.0	81.0	18.0	41.0
Seaforth	43.5	1.0	86.0	22.0	48.0
Simcoe	42.5	1.0	86.0	20.0	50.0
Sioux Lookout	50.0	-29.0	82.0	22.0	43.0
Smiths Falls	44.5	-13.0	86.0	22.0	48.0
Smithville	43.0	3.0	86.0	20.0	50.0
Smooth Rock Falls	49.0	-29.0	84.0	25.0	41.0
Southampton	44.0	1.0	82.0	18.0	48.0
South Porcupine	48.5	-29.0	86.0	25.0	43.0
South River	45.5	-17.0	82.0	23.0	46.0
Stirling	44.0	-9.0	86.0	23.0	48.0
Stratford	43.0	0.0	84.0	22.0	48.0
Strathroy	42.5	1.0	88.0	22.0	50.0
Streetsville	43.5	0.0	86.0	22.0	48.0
Sturgeon Falls	46.0	-17.0	84.0	23.0	46.0
Sudbury	46.5	-18.0	84.0	22.0	46.0
Sundridge	45.5	-17.0	82.0	23.0	46.0
Tavistock	43.0	0.0	84.0	22.0	50.0
Thamesford	43.0	0.0	86.0	22.0	50.0
Theford	43.0	3.0	88.0	20.0	50.0
Thunder Bay	48.0	-24.0	82.0	23.0	43.0
Tillsonburg	42.5	1.0	86.0	20.0	50.0
Timagami	47.0	-22.0	86.0	23.0	46.0
Timmins	48.0	-29.0	86.0	25.0	43.0
Toronto	43.5	0.0	88.0	20.0	50.0
Trenton	44.0	-6.0	84.0	20.0	50.0
Trout Creek	45.5	-17.0	82.0	23.0	46.0

Canada
Weather Temperature and Soil Temperature Design Data

Ontario

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Uxbridge	44.0	-8.0	86.0	23.0	48.0
Vanier	45.0	-13.0	86.0	22.0	50.0
Vittoria	42.5	5.0	86.0	18.0	50.0
Walkerton	44.0	0.0	86.0	22.0	48.0
Wallaceburg	42.5	3.0	88.0	20.0	52.0
Waterloo	43.5	-2.0	84.0	22.0	48.0
Watford	42.5	3.0	88.0	20.0	50.0
Wawa	47.5	-31.0	79.0	18.0	43.0
Welland	42.5	5.0	86.0	18.0	50.0
West Lorne	42.5	3.0	88.0	20.0	52.0
Whitby	43.5	-4.0	86.0	20.0	50.0
White River	48.5	-38.0	82.0	25.0	43.0
Warton	44.5	0.0	82.0	18.0	48.0
Windsor	42.0	3.0	88.0	20.0	52.0
Wingham	43.5	0.0	86.0	22.0	48.0
Woodstock	43.0	0.0	84.0	22.0	50.0
Wyoming	42.5	3.0	88.0	20.0	50.0

Canada
Weather Temperature and Soil Temperature Design Data

Québec

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Acton Vale	45.5	-11.0	86.0	22.0	46.0
Alma	48.5	-22.0	84.0	22.0	43.0
Amos	48.5	-29.0	82.0	23.0	43.0
Ancienne Lorette	46.5	-13.0	82.0	22.0	45.0
Asbestos	45.5	-15.0	84.0	22.0	46.0
Aylmer	45.0	-13.0	86.0	22.0	48.0
Bagotville	48.0	-24.0	82.0	22.0	43.0
Baie Comeau	49.0	-17.0	77.0	18.0	43.0
Beaconsfield	45.0	-9.0	86.0	22.0	48.0
Beauport	46.5	-13.0	82.0	22.0	45.0
Bedford	45.0	-9.0	84.0	22.0	48.0
Beloil	45.5	-11.0	86.0	22.0	48.0
Brossard	45.0	-11.0	86.0	22.0	48.0
Buckingham	45.5	-15.0	86.0	22.0	48.0
Campbell's Bay	45.5	-18.0	86.0	22.0	48.0
Chicoutimi	48.5	-22.0	82.0	22.0	43.0
Coaticook	45.0	-11.0	82.0	22.0	46.0
Contrecoeur	45.5	-11.0	86.0	22.0	48.0
Cowansville	45.0	-11.0	84.0	22.0	48.0
Dolbeau	48.5	-24.0	64.0	22.0	43.0
Dorval	45.5	-9.0	86.0	22.0	48.0
Drummondville	45.5	-13.0	86.0	22.0	48.0
Farnham	45.0	-11.0	84.0	22.0	48.0
Fort Coulonge	45.5	-18.0	86.0	22.0	48.0
Gagnon	51.5	-27.0	75.0	18.0	39.0
Gaspé	48.5	-9.0	77.0	18.0	45.0
Gatineau	45.5	-13.0	86.0	22.0	48.0
Gentilly	46.0	-13.0	86.0	22.0	48.0
Gracefield	46.0	-18.0	86.0	23.0	46.0
Granby	45.0	-18.0	84.0	22.0	46.0
Harrington Harbour	50.5	-13.0	63.0	11.0	45.0
Havre St. Pierre	50.0	-17.0	72.0	14.0	43.0
Hemmingford	45.0	-9.0	84.0	22.0	48.0
Hull	45.0	-13.0	86.0	22.0	48.0
Iberville	45.0	-11.0	84.0	22.0	48.0
Joliette	46.0	-13.0	84.0	22.0	46.0
Jonquiere	48.0	-20.0	84.0	22.0	43.0
Kenogami	47.5	-20.0	84.0	22.0	45.0
Kovik Bay	61.5	-36.0	59.0	14.0	*
Lachine	45.0	-9.0	86.0	22.0	48.0

* Indicates an area of continuous permafrost

Canada
Weather Temperature and Soil Temperature Design Data

Québec

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Lachute	45.5	-13.0	84.0	22.0	48.0
La Malbaie	47.5	-15.0	82.0	20.0	45.0
LaSalle	45.0	-9.0	86.0	22.0	48.0
La Tuque	47.0	-20.0	84.0	22.0	45.0
Laval	45.5	-11.0	84.0	22.0	48.0
Lennoxville	45.0	-18.0	84.0	22.0	46.0
Lery	45.0	-9.0	84.0	22.0	48.0
Levis	46.5	-13.0	82.0	22.0	45.0
Loretteville	46.5	-13.0	82.0	22.0	45.0
Louiseville	46.0	-11.0	84.0	22.0	48.0
Magog	45.0	-15.0	84.0	22.0	46.0
Malartic	48.0	-27.0	84.0	23.0	43.0
Maniwaki	46.0	-20.0	84.0	23.0	46.0
Masson	45.5	-15.0	86.0	22.0	48.0
Matane	48.5	-11.0	75.0	16.0	45.0
Megantic	45.5	-17.0	81.0	22.0	45.0
Mount Joli	48.5	-11.0	75.0	18.0	45.0
Mont Laurier	46.5	-20.0	84.0	23.0	45.0
Montemagny	46.5	-13.0	82.0	22.0	45.0
Montreal	45.5	-9.0	86.0	22.0	48.0
Montreal Nord	45.5	-9.0	86.0	22.0	48.0
Mount Royal	45.5	-9.0	86.0	22.0	48.0
Nitchequon	53.0	-36.0	73.0	18.0	36.0
Noranda	48.0	-27.0	84.0	23.0	43.0
Outremont	45.5	-9.0	86.0	22.0	48.0
Perce	48.5	-8.0	77.0	16.0	45.0
Pierrefonds	45.0	-9.0	86.0	22.0	48.0
Pincourt	45.0	-9.0	84.0	22.0	48.0
Plessisville	46.0	-15.0	84.0	22.0	46.0
Point Claire	45.0	-9.0	86.0	22.0	48.0
Port Cartier	50.0	-20.0	77.0	18.0	43.0
Québec	46.5	-13.0	82.0	22.0	45.0
Richmond	45.5	-13.0	84.0	22.0	45.0
Rimouski	48.0	-13.0	77.0	18.0	45.0
Riviere-du-Loup	47.5	-13.0	81.0	20.0	45.0
Roberval	48.5	-22.0	82.0	22.0	43.0
Rock Island	45.0	-11.0	82.0	22.0	46.0
Rosemere	45.5	-11.0	84.0	22.0	48.0
Rouyn	48.0	-27.0	84.0	23.0	43.0
Ste-Agathe-des-Monts	46.0	-17.0	81.0	22.0	45.0

Canada
Weather Temperature and Soil Temperature Design Data

Québec

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Ste-Anne-de-Bellevue	45.0	-9.0	84.0	22.0	48.0
St-Felicien	48.5	-24.0	82.0	22.0	43.0
Ste-Foy	46.5	-13.0	82.0	22.0	45.0
St-Hubert	45.5	-11.0	86.0	22.0	48.0
St-Hubert-de-Temisouata	47.5	-15.0	79.0	20.0	45.0
St-Hyacinthe	45.5	-11.0	86.0	22.0	48.0
St-Jean	45.0	-11.0	84.0	22.0	48.0
St-Jerome	45.5	-13.0	84.0	22.0	48.0
St-Jovite	46.0	-17.0	81.0	22.0	45.0
St-Lambert	45.5	-9.0	86.0	22.0	48.0
St-Laurent	45.5	-9.0	86.0	22.0	48.0
St-Nicolas	46.5	-13.0	82.0	22.0	45.0
Schefferville	54.5	-36.0	75.0	18.0	34.0
Senneterre	48.0	-29.0	84.0	23.0	43.0
Sept-Iles	50.0	-22.0	75.0	16.0	43.0
Shawinigan	46.5	-15.0	84.0	22.0	46.0
Shawville	45.5	-17.0	86.0	22.0	48.0
Sherbrooke	45.0	-18.0	84.0	22.0	46.0
Sillery	46.5	-13.0	82.0	22.0	45.0
Sorel	46.0	-11.0	86.0	22.0	48.0
Sutton	45.0	-11.0	84.0	22.0	46.0
Tadoussac	48.0	-15.0	81.0	18.0	45.0
Temiscaming	46.5	-22.0	86.0	22.0	46.0
Thetford Mines	46.0	-15.0	82.0	22.0	45.0
Thurso	45.5	-15.0	86.0	22.0	48.0
Trois-Riveres	46.0	-13.0	84.0	22.0	48.0
Val d'Or	48.0	-27.0	84.0	23.0	43.0
Varennes	45.5	-11.0	86.0	22.0	48.0
Vercheres	45.5	-11.0	86.0	22.0	48.0
Verdun	45.0	-9.0	86.0	22.0	48.0
Victoriaville	46.0	-15.0	84.0	22.0	46.0
Ville Marie	47.0	-24.0	86.0	22.0	45.0
Waterloo	45.0	-11.0	84.0	22.0	48.0
Westmount	45.0	-9.0	86.0	22.0	48.0

Canada
Weather Temperature and Soil Temperature Design Data

New Brunswick

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Alma	45.5	-6.0	79.0	20.0	45.0
Bathurst	47.5	-9.0	86.0	20.0	45.0
Campbellton	48.0	-15.0	84.0	22.0	45.0
Chatham	47.0	-11.0	86.0	22.0	45.0
Edmundston	47.0	-17.0	82.0	22.0	45.0
Federicton	45.5	-11.0	84.0	22.0	46.0
Gagetown	45.5	-9.0	82.0	22.0	46.0
Grand Falls	47.0	-17.0	82.0	22.0	45.0
Moncton	46.0	-8.0	82.0	22.0	46.0
Oromocto	45.5	-9.0	84.0	22.0	46.0
Sackville	45.5	-6.0	81.0	20.0	46.0
Saint John	45.0	-8.0	77.0	20.0	45.0
St. Stephen	45.0	-8.0	81.0	20.0	45.0
Shippigan	47.5	-8.0	82.0	16.0	45.0
Woodstock	46.0	-15.0	86.0	22.0	46.0

Canada
Weather Temperature and Soil Temperature Design Data

Nova Scotia

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Amhurst	45.5	-6.0	81.0	20.0	46.0
Antigonish	45.5	-4.0	81.0	20.0	46.0
Bridgewater	44.0	5.0	81.0	20.0	45.0
Canso	45.0	1.0	77.0	14.0	46.0
Dartmouth	44.5	3.0	79.0	14.0	46.0
Debert	45.0	-8.0	81.0	22.0	45.0
Digby	44.5	5.0	77.0	18.0	48.0
Greenwood	45.5	1.0	82.0	20.0	45.0
Halifax	44.5	3.0	79.0	14.0	46.0
Kentville	45.0	0.0	82.0	20.0	48.0
Liverpool	44.0	7.0	81.0	14.0	48.0
Lockeport	43.5	7.0	77.0	14.0	48.0
Louisburg	45.5	5.0	79.0	16.0	46.0
Lunenburg	44.0	5.0	79.0	18.0	46.0
New Glasgow	45.5	-6.0	81.0	20.0	45.0
North Sydney	46.0	3.0	81.0	16.0	46.0
Pictou	45.5	-6.0	81.0	20.0	46.0
Port Hawkesbury	45.5	-2.0	81.0	18.0	46.0
Springhill	45.5	-4.0	81.0	20.0	45.0
Stewiacke	45.0	-6.0	81.0	22.0	45.0
Sydney	46.0	3.0	81.0	18.0	46.0
Tatamagouche	45.5	-6.0	81.0	20.0	46.0
Truro	45.0	-6.0	81.0	22.0	45.0
Wolfville	45.0	-2.0	82.0	22.0	48.0
Yarmouth	43.5	9.0	72.0	14.0	48.0

Canada
Weather Temperature and Soil Temperature Design Data

Newfoundland

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Argintia	47.0	9.0	70.0	11.0	46.0
Bonavista	48.5	1.0	75.0	16.0	45.0
Buchans	48.5	-6.0	79.0	22.0	43.0
Cape Harrison	54.5	-20.0	81.0	14.0	41.0
Cape Race	46.5	7.0	66.0	13.0	45.0
Cornerbrook	48.5	-2.0	79.0	18.0	46.0
Gander	48.5	0.0	81.0	20.0	45.0
Goose Bay	53.0	-24.0	81.0	18.0	41.0
Grand Bank	47.0	7.0	68.0	13.0	46.0
Grand Falls	48.5	-6.0	79.0	22.0	45.0
Labrador City	52.5	-31.0	73.0	18.0	37.0
Port aux Basques	47.5	5.0	66.0	11.0	45.0
St. Anthony	51.0	-11.0	63.0	16.0	41.0
St. John's	47.0	7.0	75.0	16.0	45.0
Stephenville	48.5	1.0	75.0	14.0	46.0
Twin Falls	53.5	-31.0	73.0	18.0	39.0
Wabana	47.5	5.0	75.0	16.0	45.0
Wabush Lake	52.5	-31.0	73.0	18.0	37.0

Canada
Weather Temperature and Soil Temperature Design Data

Prince Edward Island

Location	Northern Latitude	97.5% Htg Outdoor Design Temp. °F.	97.5% Clg Outdoor Design Temp. °F.	Summer Mean Daily Range °F.	Average Soil Temp. °F.
Charlottetown	46.0	-4.0	79.0	16.0	46.0
Souris	46.0	-2.0	81.0	16.0	46.0
Summerside	46.0	-4.0	81.0	16.0	46.0
Tignish	46.5	-4.0	81.0	16.0	46.0