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CANADA – DEPARTMENT OF TRANSPORT – METEOROLOGICAL BRANCH

AVERAGE SOIL TEMPERATURE BASED ON THE PERIOD 1960 TO 1968.

by D. ASTON

The average values of soil temperature which follow were prepared for a special project. Although they do not contain data for all levels observed it was felt that the tables might still be of value to those having an interest in soil temperatures. It is hoped to produce a more complete set of tables in the foreseeable future.

Soil temperature data have previously been published by the Research Branch of the Canadian Department of Agriculture in co-operation with the Meteorological Branch in a publication called "Soil Temperature Records at Eight Localities in Canada 1959 to 1960". Data from January 1960 to the present time have been published in the Monthly Record of Meteorological Observations in Canada.

The values in these tables of average soil temperature are based on the period 1960 to 1968 and are the early morning readings of fahrenheit temperature at 20 CM (7.9 in.), 50 CM (19.7 in.), 100 CM (39.4 in.), and 150 CM (59.1 in.) levels.

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June 11, 1969

STATION	PROVINCE	LAT.	LONG.	ELEV. (ft.)	FIRST REPORT
PRINCE GEORGE A	B.C.	53° 53'	122° 41'	2218'	August 1963
SAANICHTON C.D.A.	B.C.	48° 37'	123° 25'	200'	January 1966
SUMMERLAND C.D.A.	B.C.	49° 34'	119° 39'	1491'	April 1958
VANCOUVER U.B.C.	B.C.	49° 15'	123° 15'	285'	October 1960
HAINES JUNCTION	Y.T.	60° 45'	137° 35'	1965'	September 1962
BAKER LAKE	N.W.T.	64° 18'	96° 00'	41'	October 1964
FORT SIMPSON C.D.A.	N.W.T.	61° 52'	121° 21'	430'	July 1958
RESOLUTE A	N.W.T.	74° 43'	94° 59'	209'	October 1964
BEAVERLODGE C.D.A.	ALTA.	55° 11'	119° 22'	2500'	January 1964
ELLERSLIE	ALTA.	53° 25'	113° 33'	2276'	October 1964
FORT VERMILION C.D.A.	ALTA.	58° 23'	116° 03'	915'	July 1958
LETHBRIDGE C.D.A.	ALTA.	49° 42'	112° 47'	2950'	June 1966
PEACE RIVER A	ALTA.	56° 14'	117° 26'	1866'	November 1964
UNIVERSITY OF CALGARY	ALTA.	51° 05'	114° 08'	3649'	November 1966
VAUXHALL C.D.A.	ALTA.	50° 03'	112° 08'	2555'	October 1958
VEGREVILLE C.D.A.	ALTA.	53° 29'	112° 02'	2086'	November 1964
WAGNER	ALTA.	55° 21'	114° 59'	1915'	June 1968
BROADVIEW	SASK.	50° 23'	102° 35'	1972'	July 1965
ESTEVAN A	SASK.	49° 04'	103° 00'	1884'	July 1964
HUDSON BAY	SASK.	52° 52'	102° 24'	1219'	December 1965
LA RONGE A	SASK.	55° 06'	105° 18'	1211'	July 1966
OUTLOOK PFRA	SASK.	51° 29'	107° 03'	1774'	May 1964
REGINA C.D.A.	SASK.	50° 24'	104° 34'	1880'	August 1965
SASKATOON S.R.C.	SASK.	52° 09'	106° 36'	1630'	November 1965
SWIFT CURRENT C.D.A. SOUTH	SASK.	50° 16'	107° 44'	2707'	June 1962
WYNYARD	SASK.	51° 46'	104° 12'	1840'	November 1965
GLENLEA U OF M RES. STN.	MAN.	49° 39'	97° 07'	769'	April 1967
WINNIPEG INT A	MAN.	49° 54'	97° 14'	786'	June 1965
ATIKOKAN	ONT.	48° 45'	91° 37'	1289'	July 1966

STATION	PROVINCE	LAT.	LONG.	ELEV. (ft.)	FIRST RECORD
GUELPH O.A.C.	ONT.	33° 31'	80° 14'	1095'	August 1962
HARROW C.D.A.	ONT.	42° 02'	82° 54'	626'	June 1958
KAPUSKASING C.D.A.	ONT.	49° 25'	82° 26'	715'	August 1965
OTTAWA C.D.A.	ONT.	45° 24'	75° 43'	260'	November 1957
TORONTO CITY	ONT.	43° 40'	79° 24'	379'	December 1960
TORONTO MET RES STN	ONT.	43° 48'	79° 33'	635'	October 1967
FORT CHIMO A	QUE.	58° 06'	68° 25'	117'	October 1966
LA POCATIERE C.D.A.	QUE.	47° 21'	70° 02'	100'	January 1964
MONT ST HILAIRE McGILL	QUE.	45° 33'	73° 10'	650'	September 1967
NORMANDIN C.D.A.	QUE.	48° 51'	72° 32'	450'	November 1959
ST AUGUSTIN	QUE.	46° 44'	71° 30'	190'	August 1965
SCHEFFERVILLE A	QUE.	54° 48'	66° 49'	1681'	October 1964
FREDERICTON C.D.A.	N.B.	45° 55'	66° 37'	130'	December 1958
KENTVILLE C.D.A.	N.S.	45° 04'	64° 29'	100'	July 1964
TRURO	N.S.	45° 22'	63° 16'	131'	November 1964
CHARLOTTETOWN C.D.A.	P.E.I.	46° 15'	63° 08'	74'	January 1961
GOOSE A	NFLD.	53° 19'	60° 25'	144'	October 1966
ST JOHN'S WEST C.D.A.	NFLD.	47° 31'	52° 47'	375'	August 1962

AVERAGE SOIL TEMPERATURE

Station and Depth	No. of Years of OBS	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
PRINCE GEORGE A.	B.C.												
20 CM	5	31.6	31.6	31.7	34.2	44.6	54.6	59.0	59.1	52.9	44.0	36.2	32.8
50 CM	5	34.5	33.9	33.6	34.6	42.2	51.1	56.1	57.8	54.2	47.6	40.2	36.3
100 CM	4	38.1	37.2	36.4	36.4	40.3	47.0	52.3	55.5	54.8	50.4	44.9	40.7
150 CM	5	39.8	38.2	37.2	36.6	38.2	42.8	47.5	50.8	51.6	49.9	46.0	42.4
SAANICHTON CDA	B.C.												
20 CM	3	41.1	42.3	45.4	50.3	57.3	62.6	66.2	67.2	63.1	55.3	48.9	43.6
50 CM	3	42.8	43.2	45.9	50.2	56.1	61.1	64.5	66.2	63.4	56.8	50.9	45.5
100 CM	3	45.7	44.9	46.2	49.1	53.4	57.9	61.2	63.4	62.5	58.7	53.6	48.9
150 CM	3	48.1	46.8	47.1	49.1	52.1	55.9	59.2	61.5	61.9	59.6	55.6	51.5
SUMMERLAND CDA	B.C.												
20 CM	5	33.8	34.2	38.7	47.9	57.9	65.8	71.3	71.9	64.0	54.3	43.7	36.0
50 CM	5	35.7	35.2	38.9	47.3	56.7	64.8	70.5	72.4	66.4	57.8	47.7	39.5
100 CM	5	39.0	37.6	39.4	46.0	54.0	61.9	67.8	71.1	67.6	60.9	52.1	43.8
150 CM	5	44.8	42.1	41.6	45.1	50.9	57.7	63.7	67.9	67.8	63.6	57.2	50.3
VANCOUVER UBC	B.C.												
20 CM	8	39.7	42.1	44.4	50.5	57.4	64.1	66.9	67.0	62.5	55.1	47.3	41.8
50 CM	8	42.0	43.1	44.8	49.4	54.9	60.9	64.0	64.9	62.3	56.7	50.1	44.7
100 CM	8	45.3	44.7	45.6	48.4	52.3	57.2	60.5	62.4	61.3	57.8	52.7	48.0
150 CM	8	47.1	45.9	46.1	48.0	51.0	55.0	58.2	60.3	60.4	58.4	54.3	50.2
HAINES JUNCTION	Y.T.												
20 CM	6	22.8	23.6	25.7	29.8	36.3	46.9	53.0	52.2	45.4	35.6	29.7	24.8
50 CM	6	26.8	26.3	27.5	29.8	32.3	40.8	48.1	49.4	44.8	37.8	32.9	29.5
100 CM	6	31.4	30.4	30.2	30.5	31.3	33.5	41.3	44.7	43.0	39.5	35.7	33.1
150 CM	6	33.3	32.2	31.8	31.6	31.9	32.6	37.3	41.1	41.2	39.6	37.1	34.9
BAKER LAKE	N.W.T.												
20 CM	4	-15.1	-17.7	-9.3	-0.5	13.9	34.8	45.1	43.8	36.9	26.4	8.0	-4.4
50 CM	4	- 5.3	- 9.5	-0.9	0.9	11.4	31.0	40.1	40.3	36.1	30.0	18.1	5.1
100 CM	4	1.9	- 3.5	-2.0	2.0	9.4	26.2	33.3	35.8	34.4	31.9	24.8	11.7
150 CM	4	5.0	- 0.4	-0.4	2.7	8.3	22.5	30.6	32.7	32.7	31.8	26.7	14.2
FORT SIMPSON CDA	N.W.T.												
20 CM	9	18.7	18.4	20.7	27.0	37.6	51.5	57.9	56.5	45.2	35.1	28.1	22.1
50 CM	9	25.7	24.0	24.5	27.6	32.2	41.7	49.5	51.2	45.0	37.4	32.5	29.4
100 CM	9	31.2	29.9	29.0	29.3	30.6	31.4	37.1	42.3	41.7	37.8	33.7	32.1
150 CM	9	32.0	32.0	31.8	31.6	31.7	31.8	32.2	36.0	38.5	37.2	34.3	32.6
RESOLUTE A.	N.W.T.												
20 CM	4	-5.0	-9.7	-9.6	-6.6	1.2	15.3	33.4	34.4	26.8	15.3	6.9	1.1
50 CM	4	-3.2	-7.8	-8.3	-6.0	0.9	13.0	30.0	33.2	26.9	15.2	8.7	2.7
100 CM	4	-1.1	-5.7	-6.7	-5.3	0.1	9.8	25.0	29.4	26.3	16.8	10.6	4.5
150 CM	4	1.3	-3.0	-4.5	-3.9	0.4	8.2	21.1	26.1	25.6	19.1	12.5	6.6
BEAVERLODGE CDA	ALTA.												
20 CM	5	28.2	27.7	29.2	32.6	43.6	53.2	58.4	58.2	50.9	41.5	34.0	30.1
50 CM	5	30.8	29.7	30.7	32.0	40.9	50.8	56.1	57.1	51.9	43.9	36.7	32.8
100 CM	5	34.7	33.3	32.9	33.1	36.9	44.7	50.0	52.7	51.1	46.4	40.9	37.1
150 CM	5	36.5	35.1	34.1	34.0	36.2	42.5	47.2	50.1	50.0	46.9	42.4	38.9
CALGARY UNIVERSITY	ALTA.												
20 CM	2	25.9	26.0	31.1	34.2	45.4	56.0	62.4	61.6	56.3	43.0	33.0	27.0
50 CM	2	29.5	28.8	30.9	33.2	42.7	53.5	59.1	60.0	56.4	46.0	36.7	30.9
100 CM	2	32.6	31.6	31.8	32.4	39.4	49.4	54.9	56.9	55.1	47.8	40.0	34.4
150 CM	2	35.4	34.2	33.6	33.9	37.5	44.8	49.9	52.8	52.6	48.6	42.8	38.0

AVERAGE SOIL TEMPERATURE

Station and Depth	No. of Years of OBS	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ELLERSLIE	ALTA.												
20 CM	3	23.6	24.2	27.7	31.9	44.7	54.2	61.0	61.8	54.9	41.3	32.4	24.4
50 CM	3	26.9	26.4	28.3	30.7	39.6	50.4	57.0	59.4	52.9	44.3	35.2	29.2
100 CM	3	30.2	29.0	29.5	30.5	36.3	46.2	52.6	56.2	52.9	46.3	38.6	33.0
150 CM	3	32.8	31.3	30.7	31.4	35.0	42.8	49.1	53.2	52.1	47.1	41.0	36.0
FORT VERMILION CDA	ALTA.												
20 CM	9	23.8	24.8	26.6	32.5	44.8	57.5	62.3	61.3	50.4	39.6	31.5	26.2
50 CM	9	27.0	27.0	28.1	31.7	41.1	54.4	60.1	60.7	52.2	42.1	34.4	29.7
100 CM	9	32.0	30.9	30.8	31.8	34.2	46.2	54.0	56.7	52.3	45.0	38.2	34.3
150 CM	9	34.6	33.5	32.9	32.8	33.2	40.6	48.7	52.8	51.3	46.4	40.8	36.9
LETHBRIDGE CDA	ALTA.												
20 CM	3	27.7	28.6	34.1	38.4	47.9	57.6	65.5	63.4	57.6	45.7	36.2	31.1
50 CM	3	31.1	30.3	34.2	38.7	46.6	56.1	63.4	63.0	58.3	48.4	39.7	34.1
100 CM	3	36.0	34.2	35.5	38.4	42.9	50.1	56.6	58.6	56.6	50.7	44.1	38.8
150 CM	3	39.2	36.9	37.1	38.8	41.4	46.6	52.2	55.2	54.9	51.5	46.7	42.2
PEACE RIVER A	ALTA.												
20 CM	4	23.4	23.2	27.0	32.7	43.6	54.2	60.5	62.0	52.8	41.9	32.3	26.4
50 CM	4	25.0	23.7	26.7	30.2	38.8	50.1	56.4	59.1	52.0	41.7	33.2	27.5
100 CM	4	30.0	27.6	27.9	29.4	32.8	43.3	50.3	54.2	51.4	45.1	38.1	33.0
150 CM	4	34.5	32.2	31.2	31.3	32.3	38.4	44.8	49.9	50.1	46.8	42.0	37.4
VAUXHALL CDA	ALTA.												
20 CM	4	22.2	25.3	32.6	38.5	50.2	59.4	67.2	65.8	61.5	46.3	35.3	28.4
50 CM	4	27.7	27.8	32.5	38.2	48.0	57.3	64.4	65.1	58.8	49.6	40.2	33.2
100 CM	4	33.2	31.1	32.8	37.1	44.2	52.4	59.0	61.6	58.4	51.8	44.6	38.0
150 CM	4	36.7	34.0	34.1	37.0	41.8	48.5	54.3	57.9	56.8	52.5	47.0	41.3
VEGREVILLE CDA	ALTA.												
20 CM	4	21.3	22.3	27.3	31.9	42.2	52.0	59.4	59.2	51.9	42.1	33.0	25.3
50 CM	4	26.4	25.7	28.5	31.2	37.9	47.6	55.6	57.2	52.3	44.4	36.5	30.3
100 CM	4	32.3	30.7	30.8	31.6	32.7	40.4	48.8	52.5	51.1	46.2	40.6	35.5
150 CM	4	35.0	33.3	32.5	32.7	32.9	37.4	44.7	49.0	49.6	46.7	42.5	38.2
WAGNER	ALTA.												
20 CM	1						57.1	61.4	58.9	51.0	39.8	32.6	18.8
50 CM	1						55.2	59.7	58.1	51.7	41.6	34.3	22.7
100 CM	1						47.7	52.5	53.3	51.1	44.5	38.6	32.3
150 CM	1						43.0	47.6	49.8	49.1	45.6	41.3	37.0
BROADVIEW	SASK.												
20 CM	4	26.2	24.2	28.4	32.2	41.0	55.8	63.3	61.8	53.8	43.2	34.2	30.1
50 CM	4	30.1	27.1	28.8	30.9	35.6	51.2	59.1	59.6	54.1	45.6	37.7	33.5
100 CM	4	32.5	29.7	29.8	30.8	33.8	47.4	55.2	57.1	53.5	46.7	39.6	35.5
150 CM	4	36.5	34.4	33.0	32.7	33.6	40.9	47.8	51.2	50.8	47.3	42.7	38.9
ESTEVAN A	SASK.												
20 CM	5	24.6	25.5	29.0	34.3	46.5	57.8	66.2	63.1	54.8	44.2	33.6	25.4
50 CM	5	28.6	28.6	30.7	33.8	45.9	57.3	65.3	64.0	57.5	48.5	38.9	31.1
100 CM	5	34.8	33.8	33.8	34.5	43.8	54.2	61.4	63.2	59.5	53.0	45.5	38.5
150 CM	5	35.7	34.2	33.8	33.7	39.3	48.0	55.0	58.4	56.4	51.6	45.7	39.3
HUDSON BAY	SASK.												
20 CM	3	31.4	30.5	31.0	32.0	43.2	55.2	61.0	59.7	56.2	44.7	35.3	32.9
150 CM	3	32.7	30.8	29.7	28.9	31.4	38.5	44.3	47.4	47.7	44.3	38.8	35.3

AVERAGE SOIL TEMPERATURE

Station and Depth	No. of Years of OBS	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
LA RONGE A	SASK.												
20 CM	2	29.8	27.5	28.9	31.6	39.0	50.6	59.5	59.6	55.2	41.5	33.7	31.9
50 CM	2	31.2	29.9	29.7	30.9	33.8	44.8	55.9	57.1	54.8	44.3	36.4	33.6
100 CM	2	34.5	33.2	32.4	32.0	32.2	39.4	49.7	53.2	53.0	46.8	39.8	36.5
150 CM	2	35.6	34.3	33.3	33.0	33.1	37.2	45.6	50.2	50.9	47.0	41.2	37.7
OUTLOOK PFRA	SASK.												
20 CM	4	16.5	17.0	26.9	35.1	47.8	58.4	65.5	63.7	55.2	43.0	31.3	22.4
50 CM	4	23.1	22.5	27.5	33.8	43.6	53.7	61.3	62.1	54.5	46.5	36.7	28.4
100 CM	4	30.7	28.1	29.6	32.4	38.1	46.2	53.9	56.9	54.3	48.7	41.8	35.3
150 CM	4	35.5	33.3	31.8	33.1	35.9	41.1	47.6	51.7	51.9	49.0	44.4	39.5
REGINA CDA	SASK.												
20 CM	3	22.2	21.6	27.1	33.6	43.6	54.0	62.7	62.6	54.7	44.3	33.9	27.6
50 CM	3	26.1	24.6	27.6	31.7	38.2	48.4	57.4	59.7	54.6	46.2	37.4	31.3
100 CM	3	31.5	29.4	29.4	31.0	32.9	41.4	50.8	55.1	53.2	47.7	41.1	35.6
150 CM	3	35.3	33.1	31.9	31.9	32.0	37.3	45.3	50.2	51.0	48.2	43.6	39.0
SASKATOON SRC	SASK.												
20 CM	2	16.4	17.1	29.3	37.2	50.2	59.5	66.0	61.1	56.1	41.9	30.2	23.1
50 CM	2	22.3	22.4	29.8	35.7	47.7	57.5	64.5	61.5	57.9	45.2	34.3	29.8
100 CM	2	31.5	29.4	30.9	33.2	41.3	50.7	57.8	57.6	56.5	49.2	41.3	35.5
150 CM	2	38.3	36.3	34.1	32.8	40.4	49.0	55.6	57.4	56.9	52.3	45.9	40.9
SWIFT CURRENT CDA SOUTH	SASK.												
20 CM	6	18.2	20.8	25.6	37.4	49.3	59.3	68.1	66.0	56.2	45.5	33.5	23.5
50 CM	6	23.4	23.5	27.9	35.7	46.2	56.1	64.4	64.7	57.5	48.7	38.4	29.1
100 CM	6	30.1	28.2	29.5	32.8	40.0	48.8	56.1	59.8	57.0	51.2	44.1	36.2
150 CM	6	33.6	31.2	30.8	32.3	37.5	45.4	52.1	56.7	55.9	51.8	46.2	39.4
WYNYARD	SASK.												
20 CM	3	20.3	19.3	26.3	33.0	42.5	54.3	62.1	60.3	56.0	43.6	34.4	28.3
50 CM	3	23.6	21.6	26.6	32.1	39.2	50.9	58.6	58.1	55.1	44.9	36.4	30.9
100 CM	3	30.8	27.8	28.7	31.1	34.5	43.9	51.5	53.6	52.8	46.9	40.3	35.6
150 CM	3	35.2	32.7	31.8	32.3	33.3	40.3	46.9	50.2	50.8	47.7	42.8	38.6
GLENLEA U of M RES. STN.	MAN.												
20 CM	2	17.2	18.6	25.7	34.7	43.3	56.3	63.0	62.9	58.4	46.0	35.5	28.3
50 CM	2	24.3	23.4	26.7	31.4	36.2	48.6	57.9	60.4	58.3	49.5	40.2	33.6
100 CM	2	31.4	28.8	28.7	30.9	32.1	40.6	51.7	56.3	56.2	51.4	43.9	37.7
150 CM	2	37.0	34.0	32.4	32.0	32.5	35.5	44.8	50.7	52.7	51.6	47.1	42.0
WINNIPEG INT A	MAN.												
20 CM	4	26.5	24.2	28.1	33.2	41.6	54.6	62.6	61.8	57.2	47.1	36.8	31.3
50 CM	4	29.7	27.2	28.9	32.2	39.5	52.0	60.2	61.2	57.4	48.7	39.2	33.9
100 CM	4	34.7	32.5	31.4	32.0	35.6	45.7	53.6	57.2	56.2	51.0	44.0	38.5
150 CM	4	38.2	35.6	34.1	33.7	34.8	41.4	48.2	52.9	53.9	51.5	46.6	34.3
ATIKOKAN	ONT.												
20 CM	3	31.7	31.0	31.4	33.8	46.2	58.6	65.4	63.3	57.3	44.4	34.8	32.5
50 CM	3	33.2	32.6	32.1	33.5	44.9	56.9	64.1	63.4	58.8	47.4	37.7	35.0
100 CM	3	36.0	35.0	34.1	34.2	41.0	51.2	58.5	60.4	58.0	50.4	41.8	37.7
150 CM	3	38.7	37.5	36.5	36.0	38.8	45.9	52.2	55.9	55.6	51.8	45.6	41.0
GUELPH OAC	ONT.												
20 CM	6	33.5	31.8	32.4	39.2	50.4	60.5	65.9	64.7	60.1	51.4	42.9	36.0
50 CM	6	36.1	34.1	33.8	38.7	48.1	57.2	62.7	63.0	60.1	53.1	45.5	39.0
100 CM	5	38.6	36.6	35.6	38.5	45.0	53.8	59.6	61.4	59.8	54.4	47.5	41.9
150 CM	6	40.8	38.6	37.4	38.6	44.2	50.7	56.1	58.3	58.0	54.4	49.5	44.3

AVERAGE SOIL TEMPERATURE

Station and Depth	No. of Years of OBS.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HARROW CDA	ONT.												
20 CM	8	33.2	31.8	33.8	42.9	53.9	63.9	70.1	70.0	66.3	56.7	46.6	37.7
50 CM	8	35.9	33.9	34.4	41.7	51.9	61.3	67.3	68.6	66.2	58.5	49.4	40.8
100 CM	8	39.6	36.6	36.2	40.5	48.8	56.9	63.0	65.6	64.9	59.7	52.5	44.9
150 CM	8	42.8	39.3	38.1	40.5	47.0	53.9	59.6	62.9	63.1	59.9	54.4	47.9
KAPUSKASING CDA	ONT.												
20 CM	3	33.5	33.1	33.1	35.0	44.3	57.9	63.6	62.0	57.4	46.2	37.3	35.6
50 CM	3	35.5	34.4	34.2	35.4	42.5	54.1	60.5	60.5	57.4	48.7	40.4	37.5
100 CM	3	37.7	36.6	35.7	36.0	39.7	48.3	54.7	57.0	55.9	50.5	43.9	40.3
150 CM	3	39.7	38.5	37.5	37.1	39.0	44.8	50.2	53.6	53.9	51.1	46.5	42.6
OTTAWA CDA	ONT.												
20 CM	9	32.2	31.9	32.1	36.7	52.2	61.5	66.2	64.6	59.6	49.8	40.6	34.3
50 CM	9	34.6	33.7	33.4	37.1	50.1	59.4	64.6	64.2	60.5	52.3	43.2	37.3
100 CM	9	37.2	35.5	34.7	36.0	45.2	53.0	58.5	60.0	58.5	53.0	46.1	40.2
150 CM	9	40.1	38.5	37.4	37.0	43.6	50.0	55.2	57.9	57.5	54.1	49.1	43.8
TORONTO CITY	ONT.												
20 CM	NIL												
50 CM	8	35.4	33.5	34.8	43.1	52.1	62.5	68.1	67.6	64.0	56.1	47.3	39.5
100 CM	8	41.6	39.2	38.6	42.5	49.4	56.8	62.4	64.3	63.1	58.6	52.4	46.0
150 CM	8	44.1	41.5	40.3	42.5	48.1	54.4	59.7	62.4	62.2	59.0	54.0	48.4
TORONTO MET. RES. STN.	ONT.												
20 CM	1	32.1	27.9	30.2	40.8	49.0	60.4	66.1	65.9	62.1	52.0	39.6	33.3
50 CM	1	34.1	31.4	31.0	38.7	45.1	53.8	59.4	60.4	57.9	49.4	40.4	33.8
100 CM	1	37.2	35.3	33.5	37.4	43.9	50.8	56.6	59.2	58.1	53.3	45.8	39.3
150 CM	1	42.5	40.3	38.7	40.1	45.0	50.7	55.9	59.1	59.0	56.7	50.7	45.7
FORT CHIMO A	QUE.												
20 CM	2	-2.1	-5.2	-3.1	16.5	33.2	42.4	49.8	48.3	43.9	35.3	28.2	17.9
50 CM	2	5.5	-0.7	0.1	16.0	30.6	38.9	47.4	47.4	44.8	36.2	31.5	23.2
100 CM	2	14.2	4.3	2.7	14.5	27.5	32.1	40.3	43.3	43.0	36.4	32.8	29.1
150 CM	2	25.3	11.3	7.3	13.9	23.9	28.8	30.8	32.0	35.9	35.1	32.9	32.1
LA POCATIERE CDA	QUE.												
20 CM	7	31.1	30.2	30.9	34.2	45.9	57.3	63.4	62.1	56.9	47.6	38.5	33.5
50 CM	7	33.2	32.1	31.8	33.5	42.9	54.0	60.6	60.9	57.1	49.1	41.0	35.9
100 CM	7	36.4	34.9	34.1	34.4	39.6	48.4	55.1	57.3	56.0	50.8	44.6	39.7
150 CM	7	39.0	37.3	36.2	35.7	38.5	44.8	50.9	54.2	54.2	51.3	46.8	42.5
MONT ST HILAIRE McGILL	QUE.												
20 CM	1	34.2	33.9	33.2	41.9	52.3	58.5	64.5	60.1	53.2	49.5	38.3	32.3
50 CM	1	33.5	32.9	32.0	38.1	47.5	49.5	55.1	64.6	62.0	54.6	44.1	37.6
100 CM													
150 CM													
NORMANDIN CDA	QUE.												
20 CM	8	32.3	31.5	31.9	32.1	39.1	53.7	59.2	59.7	55.4	46.4	37.2	33.7
50 CM	9	33.2	32.6	32.5	32.7	38.9	51.7	58.0	58.7	55.1	47.2	38.8	34.7
100 CM	9	35.8	34.7	34.2	33.8	36.7	46.3	52.7	55.3	54.0	49.1	42.6	38.0
150 CM	9	38.9	37.5	36.7	36.1	36.7	43.0	48.9	52.4	52.8	50.2	45.7	41.5
ST AUGUSTIN	QUE.												
20 CM	3	31.0	28.5	29.0	32.4	42.6	56.1	62.5	60.9	55.5	45.8	35.8	32.0
50 CM	3	34.7	32.9	32.1	34.0	42.1	54.8	62.0	61.5	58.0	50.2	41.2	36.6
100 CM	3	37.6	36.6	36.0	36.1	39.5	49.5	56.8	58.1	56.6	51.9	45.1	39.9
150 CM	3	39.7	37.8	36.6	36.4	38.5	46.0	53.1	54.9	55.1	52.3	47.2	42.2

AVERAGE SOIL TEMPERATURE

Station and Depth	No. of Years of OBS	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
SCHEFFERVILLE A	QUE.												
20 CM	3	4.2	5.3	7.4	20.8	30.0	41.3	48.4	46.0	39.8	30.6	23.1	13.6
50 CM	4	13.7	12.1	14.3	23.3	30.9	41.1	51.0	50.8	44.9	35.9	31.4	24.4
100 CM	4	21.1	16.4	16.4	21.7	28.7	34.4	45.9	48.0	43.9	37.0	33.2	30.3
150 CM	4	26.2	20.2	19.2	22.7	28.9	32.8	43.6	47.3	44.7	39.1	35.1	33.1
FREDERICTON CDA	N.B.												
20 CM	9	31.0	30.7	32.0	35.5	49.3	61.5	67.0	66.0	59.5	49.5	39.1	33.0
50 CM	9	33.7	32.6	33.0	35.1	47.9	58.4	64.2	64.4	59.8	51.4	41.9	35.9
100 CM	9	37.5	36.0	35.4	35.8	43.6	52.4	58.3	60.1	58.1	52.7	45.6	40.0
150 CM	9	40.2	38.5	37.7	37.1	41.7	48.8	54.3	56.9	56.5	53.1	47.8	42.9
KENTVILLE CDA	N.S.												
20 CM	5	32.8	32.4	32.9	38.2	48.0	58.8	66.5	65.6	59.5	51.3	40.8	35.5
50 CM	5	34.5	33.7	33.8	38.9	47.9	57.7	65.4	65.5	60.9	53.3	43.2	35.8
100 CM	5	37.7	36.4	35.5	38.1	44.3	52.0	59.2	61.4	59.1	54.3	46.9	40.8
150 CM	5	39.7	37.9	36.8	38.1	42.8	49.1	55.5	58.6	57.8	54.5	48.9	43.0
TRURO	N.S.												
20 CM	4	33.1	32.3	32.4	35.1	46.1	56.1	63.4	63.7	58.6	51.9	42.4	36.3
50 CM	4	35.2	34.0	33.6	35.3	44.6	53.7	60.8	62.3	58.8	53.1	44.6	38.6
100 CM	4	37.9	36.3	35.6	35.9	42.0	49.6	56.0	58.8	57.4	53.5	47.1	41.4
150 CM	4	39.9	38.1	37.1	36.6	40.6	46.6	52.5	55.9	55.9	53.3	48.6	43.5
CHARLOTTETOWN CDA	P.E.I.												
20 CM	8	34.6	33.2	33.5	35.5	45.1	55.2	61.9	62.3	58.4	52.1	43.9	37.3
50 CM	8	35.8	34.4	33.9	35.3	42.5	51.5	58.3	59.7	57.3	52.5	45.1	39.0
100 CM	8	38.3	36.7	35.7	36.2	40.7	48.0	54.5	56.9	56.2	52.9	47.3	41.7
150 CM	8	40.0	38.1	37.0	36.8	39.7	45.7	51.5	54.8	54.8	52.7	48.4	43.5
GOOSE A	NFLD												
20 CM	2	29.9	28.7	27.8	31.3	38.3	52.6	60.5	59.4	54.0	43.1	34.9	32.1
50 CM	2	32.7	31.0	29.6	31.6	35.9	49.7	57.9	58.8	54.8	45.3	37.2	33.8
100 CM	2	34.4	33.0	32.5	32.0	32.8	44.2	53.3	56.1	54.3	47.5	40.2	36.1
150 CM	2	36.0	34.5	34.0	33.2	33.3	41.4	49.9	53.9	53.5	48.5	42.1	37.9
ST JOHN'S WEST CDA	NFLD												
20 CM	6	34.1	33.2	32.6	34.7	42.3	50.4	57.7	58.5	55.3	49.3	42.8	37.3
50 CM	6	36.1	34.8	34.0	35.1	40.9	48.3	54.7	56.8	54.7	50.2	44.6	39.3
100 CM	5	38.3	36.5	35.8	36.2	39.5	45.7	51.4	54.4	53.5	50.7	46.0	41.6
150 CM	6	39.6	37.7	36.6	36.4	39.1	44.0	49.0	52.3	52.4	50.2	46.8	42.8