

SEPTEMBER 25,1981
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WEATHER HIGHLIGHTS FOR THE PERIOD - SEPTEMBER 15 - 21, 1981
The heat wave ends in the West

The heat wave in the western provinces continued to produce many temperature records up to the last two days of summer. A cool airmass which marched over the West during the weekend brought unsettled weather but put a damper on the forest fires raging in northern Alberta. The town of Swan Hills was again put on evacuation alert
late in the week as a dry thunderstorm ignited more than 20 fires, some within a kilometer of the community.

Temperatures oscillated between a maximum of $35^{\circ}$ at many stations in Alberta to a minimum of $-18^{\circ}$ on the last day of the week at Eureka. Prince Rupert recorded 78.1 mm of precipitation and Sable Island recorded 78.3 mm .

## YUKON

Winter made an appearance in the northern Yukon. The week started with temperatures near $10^{\circ}$, but by the end of the week the mercury was only able to struggle up to $-1^{\circ}$ with moderate snow reported. Clear nights on the 20th and 21 st allowed Watson Lake to set record low temperatures on both days of $-3^{\circ}$ and $-5^{\circ}$ respectively.

Much of the central Yukon was wet during the week. Dawson reported 30 mm of rain during the period of September 18th to 20th. This is 1.5 mm higher than the normal rainfall for the month. Most southern stations reported 10 mm to 15 mm .

## NORTHWEST TERRITORIES

With few exceptions mean temperatures were above normal throughout the Territories and the mercury reached $27^{\circ}$ at Fort Smith on the 16th. Near the end of the week the mercury fell to $-18^{\circ}$ at Eureka.

Precipitation was abundant in south-central areas of the Arctic Archipellago and along the Mackenzie Valley. Gladman Point recorded the greatest weekly total, 22.4 mm .

## BRITISH COLUMBIA

The week started with very warm weather that set high temperature records at several stations. The $30^{\circ}$ recorded on the 17 th at Prince George set an all time maximum temperature record for September. Much cooler weather arrived during the weekend and several stations fell below the freezing point.

Precipitation totals were above normal along coastal areas. Prince Rupert recorded the highest total in the province, 78.1 mm .

## PRAIRIE PROVINCES

Cool, unsettled weather moved into the Prairies during the weekend and brought the record breaking September heatwave to an end. Just before the

end, on the 17 th and $18 t h$, many stations in Alberta reported maximum temperatures of $35^{\circ}$.

The return to cool, showery weather put a damper on Alberta's forest fires. A number of large fires in northern districts, however, were still out of control at the end of the week. The town of Swan Hills was again put on an evacuation alert late in the week as a dry thunderstorm ignited more than 20 fires, some within a kilometer of the community. The alert has since been lifted.

Harvest operations are well ahead of the previous several years. More than $75 \%$ of the major grains and oilseed have been harvested.

## ONTARIO

Cloudy cool and unsettled weather accompanied the last official week of summer in Ontario. Record low temperatures were common in all sections of the province. Most notable was a new record low daily maximum on September 17 th in Toronto. The mercury rose to only $11.8^{\circ}$ erasing the former mark of $12.8^{\circ}$ set in 1848.

Most of the province recorded well below normal precipitation this week. Weekly totals were above normal in southern Ontario. Windsor reported the greatest total, 74.8 mm .

The Ministry of Natural Resources blames the poor August and early September weather for the poor attendance at Provincial Parks. During June and July under sunny skies, attendance
was up $10 \%$, but the subsequent bad weather stopped this trend.

The Ministry and of the Environment reported that the unusually high rainfalls in the Haliburton area during the late summer contained $20 \%$ of the 'normal' one year's acid precipitation.

## QUÉBEC

The temperature regime changed very little in Québec as mean temperatures remained below normal in the west and above normal in the east. The mercury reached $20^{\circ}$ at Montréal and Sherbrooke on the 15 th .

The central regions of the province received most of the precipitation. Chibougamau recorded 52.8 mm . Precipitation was very limited in the southwest.

Due to the rainfalls of the past weeks, there were no forest fires burning in the province as of September 22nd.

## ATLANTIC PROVINCES

Rain finally fell on the Maritimes ending a period of drought. The hardest hit areas of Nova Scotia received 20 mm to 30 mm . Although the rain arrived later than people had hoped for it did help fall planting and pasture crops.

Mean weekly temperatures remained much above normal in Newfoundland. Seasonal temperatures accompanied the rain in the Maritimes.

The New Brunswick apple harvest is about one week ahead of normal.

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GROWING DEGREE-DAY SUMMARY TO SEPTEMBER 19, 1981

\begin{tabular}{|c|c|c|c|c|c|}
\hline CITY & MONTHLY CUMULATIVE TOTAL & \begin{tabular}{l}
MONTHLY DIFF. \\
FROM 1941-70 NORMAL
\end{tabular} & \[
\begin{aligned}
& \text { SEASONAL } \\
& \text { TOTAL }
\end{aligned}
\] & SEASONAL DIFF. FROM 1941-70 NORMAL & SEASONAL PERCENT OF NORMAL \\
\hline Whitehorse* & 0.0 & -74.0 & 853.5 & -14.5 & 98 \\
\hline Penticton & 237.0 & 34.0 & 1896.0 & 24.0 & 101 \\
\hline Vancouver & 219.0 & 29.0 & 1765.0 & 118.0 & 107 \\
\hline Edmonton & 213.0 & 97.0 & 1679.0 & 440.0 & 136 \\
\hline Calgary & 191.5 & 55.5 & 1343.0 & 133.0 & 111 \\
\hline Regina* & 16.0 & -139.0 & 1566.0 & 73.0 & 105 \\
\hline Saskatoon & 215.0 & 68.0 & 1731.0 & 263.0 & 118 \\
\hline Winnipeg & 183.5 & 7.5 & 1688.5 & 88.5 & 106 \\
\hline Thunder Bay & 150.5 & 7.5 & 1355.5 & 82.5 & 106 \\
\hline Windsor & 251.5 & -11.5 & 2221.0 & 70.0 & 103 \\
\hline Toronto & 227.0 & -1.0 & 1756.0 & -113.0 & 94 \\
\hline Ottawa & 205.0 & 2.0 & 1809.0 & 8.0 & 100 \\
\hline Montreal & 212.0 & -7.0 & 1815.0 & -50.0 & 97 \\
\hline Quebec & 192.5 & 19.5 & 1561.5 & 25.5 & 102 \\
\hline Fredericton & 179.5 & 10.5 & 1612.0 & 78.0 & 105 \\
\hline Hal if ax & 210.0 & 20.0 & 1416.5 & 10.5 & 101 \\
\hline Charlottetown & 195.0 & 7.0 & 1476.5 & 102.5 & 107 \\
\hline St John's & 131.0 & -15.0 & 1066.0 & 84.0 & 109 \\
\hline
\end{tabular}

\footnotetext{
* Season ended
}

\begin{tabular}{|l|r|r|r|r|c|}
\hline \multicolumn{1}{|c|}{ STATION } & \begin{tabular}{c} 
MONTHLY \\
CUMULATIVE \\
TOTAL
\end{tabular} & \begin{tabular}{c} 
MONTHLY DIFF. \\
FROM 1941-70 \\
NORMAL
\end{tabular} & \begin{tabular}{c} 
SEASONAL \\
TOTAL
\end{tabular} & \begin{tabular}{c} 
SEASONAL \\
DIFF. FROM \\
1941-70 NORMAL
\end{tabular} & \begin{tabular}{l} 
SEASONAL \\
PERCENT \\
OF NORMAL
\end{tabular} \\
\hline Resolute & 386.5 & -15.5 & 1326.0 & 25.0 & 102 \\
Inuvik & 268.0 & 9.0 & 692.0 & 55.0 & 109 \\
Whitehorse & 188.5 & 14.5 & 447.5 & -27.5 & 94 \\
Vancouver & 31.5 & -28.5 & 87.5 & -47.5 & 65 \\
Edmonton Mun & 53.5 & -57.5 & 113.5 & -126.5 & 47 \\
Calgary & 68.0 & -52.0 & 204.0 & -78.0 & 72 \\
Regina & 56.5 & -44.5 & 77.0 & -99.0 & 44 \\
Winnipeg & 68.5 & -22.5 & 95.0 & -55.0 & 63 \\
Thunder Bay & 96.5 & -7.5 & 176.5 & -45.5 & 80 \\
Windsor & 25.0 & -5.0 & 27.0 & -14.0 & 66 \\
Toronto & 40.0 & -6.0 & 64.5 & -10.5 & 86 \\
Ottawa & 53.0 & -9.0 & 77.5 & -22.5 & 78 \\
Montreal & 28.5 & 2.5 & 78.5 & 5.5 & 108 \\
Quebec & 64.0 & -12.0 & 134.5 & -8.5 & 94 \\
Saint John, N.B. & 64.0 & -21.0 & 161.0 & -35.0 & 82 \\
Halifax & 38.5 & -7.5 & 109.5 & -3.5 & 97 \\
Charlottetown & 53.0 & -9.0 & 122.5 & -3.5 & 97 \\
St. John's, Nfld. & 116.0 & 15.0 & 323.5 & 33.5 & 112 \\
\hline
\end{tabular}

\section*{Atmospheric Circulation}


7-day Mean 50 kPa Height Map (in dam) September 14 to September 20, 1981

The atmospheric circulation sported a much stronger north-south component over North America this week; a not unconmon feature for this time of year.

A strong major 50 kPa ridge dominated the western half of the country throughout the first half of the period. The very warm and dry condition of the previous week continued. An approaching low pressure trough from the Pacific gradually displaced this upper ridge eastward. As a result significantly cooler, unsettled weather conditions prevailed during the latter half of the period.

The eastern half of the country was under the influence of a nearly stationary, sharp upper trough; generally unsettled showery weather was the result. A strong northwesterly circulation pumped cold Arctic air southeastwards dropping temperatures to below normal values throughout the Great Lakes Basin. As this cold unstable air-


7-day Mean 50 kPa Height Anomaly (in 5 dam intervals) September 14 to September 20, 1981
mass crossed the relatively warm waters of the great lakes, strong thermal heating from below resulted in waterspout or cold air funnel sightings.

Even though temperatures in the Atlantic Provinces continued above normal the dry summer weather came to an end. Numerous weak disturbances formed on the lea side of the upper trough and tracked northeastwards across eastern Canada.

A significant cyclonic storm system tracked up the eastern-sea-board and brought wide spread rain during the weekend. This combined with an Arctic system approaching from Hudson Bay to form a large nearly stationary low pressure system over Labrador. Strong westerly winds and modified but still cold Arctic air encompassed all of eastern Canada by the end of the period.

Andy Radomski

LOW PRESSURE CENTRE TRAJECTORIES


TEMPERATURE ANOMALY FORECAST


TEMPERATURE ANOMALY FORECAST FOR SEP 221981 TO OCT 61981


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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Station} & \multicolumn{4}{|l|}{Temperature ( \({ }^{\circ} \mathrm{C}\) )} & \multicolumn{2}{|l|}{Precip. (mm)} & \multirow[b]{2}{*}{Station} & \multicolumn{4}{|l|}{Temperature ( \({ }^{\circ} \mathrm{C}\) )} & \multicolumn{2}{|l|}{Precip. (mm)} & \multirow[b]{2}{*}{Station} & \multicolumn{3}{|l|}{Temperature ( \({ }^{\circ} \mathrm{C}\) )} & \multicolumn{2}{|l|}{Precip. (mm)} \\
\hline & \[
\begin{aligned}
& \text { u } \\
& \text { o } \\
& 0 \\
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\end{aligned}
\] &  &  &  & \[
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& \overline{0} \\
& \hline
\end{aligned}
\] &  & &  &  &  &  & \[
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& \overline{0} \\
& \hline 0
\end{aligned}
\] & \[
\] & &  &  & 令 & \[
\overline{0}
\] &  \\
\hline BRITISH COLUMBLA & & & & & & & Sinclia In rbour Shepherd Bay & & & \[
\begin{aligned}
& 6 \\
& 8
\end{aligned}
\] & \[
\left\lvert\, \begin{array}{ll}
-6 \\
-3
\end{array}\right.
\] & \[
\begin{array}{r}
21.6 \\
4.9
\end{array}
\] & \[
\begin{array}{r}
19.5 \\
-\quad 1.0
\end{array}
\] & \begin{tabular}{l}
Hincoo \\
Sioux Lookout
\end{tabular} & \[
\begin{array}{c|c}
M & M \\
8 & -3
\end{array}
\] & \[
\begin{aligned}
& 20 r \\
& 19
\end{aligned}
\] & -1 & M
3.4 & \(M\)
-19.3 \\
\hline Abboteford & 16 & 2 & 31 & 8 & 21.6 & -4.2 & Shepherd Bay Tuktoyaktuk & \[
\begin{aligned}
& 2 \\
& 1
\end{aligned}
\] & \[
\begin{aligned}
& 3 \\
& 1
\end{aligned}
\] &  & \[
\left\lvert\, \begin{aligned}
& -3 \\
& -11
\end{aligned}\right.
\] & \[
\begin{array}{r}
4.9 \\
14.9
\end{array}
\] & \[
12.1
\] & Sudbury & \(8-4\) & 14 & 4 & \[
5.4
\] & -12.5 \\
\hline Alert Ray & 13 & 0 & 24 & 7 & 45.1 & 15.7 & Tuktoyaktuk & 10 & 4 & 22 & 4 & 9.1 & 3.7 & Thunder Bay & - 2 & 26 & - 1 & 0.0 & -21.0 \\
\hline Blue River & M & X & 26P & 2 & M & & & 10 & 4 & 22 & & & & Timmins & - 4 & 12 & 1 & 4.3 & -15.0 \\
\hline Bull Harbour & M & M & 17p & 6P & M & M & & & & & & & & Toronto & 11-4 & 20 & 5 & 19.2 & - 1.7 \\
\hline Burns Lake & M & X & 27p & 4 P & M
35.6 & X & Alberta
Banff & M & & 30P & - 2 & M & M & Treriton & \(11-4\) & 20 & 3 & 23.6 & 6.6 \\
\hline Cape Scott & 14 & 1 & 20 & 10 & 35.6
10.5 & -12.8
-16.8 & Banff
Calgary & M & \[
\begin{aligned}
& M \\
& M
\end{aligned}
\] & 32 P & - 2 & M & M & Trout Lake & 7-2 & 15 & - 2 & 5.1 & -13.2 \\
\hline Cape St Jamea & 14 & 1 & 21 & 10 & 10.5 & -16.8
\(-\quad 0.4\) & Calgary
Cold Lake & \[
\begin{array}{r}
M \\
15
\end{array}
\] & 4 & 32 & 2 & 1.4 & -12.6 & Wa & M \({ }^{\text {x }}\) & 13P & -3 & M & X \\
\hline Castlegar & 16 & 2 & 31
24 & 5 & 15.1 & \(\begin{array}{r}-0.8 \\ -0.4 \\ \hline 3.7\end{array}\) & Cold Lake
Coronation & 16 & 6 & 34 & 2 & 3.2 & -8.2 & Wiarton & 11-4 & 18 & 3 & 7.2 & -12.2 \\
\hline Comox & 14 & 6 & 33 & 3 & 49.4
2.0 & 35.7
-9.0 & Edmontion Intl & 16 & 6 & 35 & 4 & 15.6 & 7.7 & Windsor & 13-4 & 22 & 7 & 74.8 & 58.5 \\
\hline Cranbrook & 16 & 6 & 33 & 3
-5 & 2.0 & -9.0 & Edmonton Mun & 17 & 7 & 34 & 6 & 14.4 & 3.7 & & & & & & \\
\hline Dease Lake & 8 & 0 & 18 & - 5 & 7.6 & - \(\begin{array}{r}\text { - } \\ \hline\end{array}\) & Edmonton Namao & 16 & 6 & 33 & 6 & 15.2 & 5.9 & QUEBEC & & & & & \\
\hline Estevan Point & M & M & 18P & 10 & M
0.4 & \(\begin{array}{r}\text { M } \\ \hline\end{array}\) & Edmonton Namao
Edson & 14 & 6 & 33 & 0 & 19.4 & 8.9 & Bagotville & 10-1 & 19 & 0 & 13.8 & - 6.0 \\
\hline Fort Ne 1 son & 12. & 3 & \(24-\) & - 3 & 0.4 & - 9.4 & Efison Chipewyan & , & M & M & 5 & M & M & Bate Comeau & 10 & 17 & 3 & 17.6 & 0.3 \\
\hline Fort St John & 13 & 4 & 28
33 & - 2 & 4.8 & - 12.0 & Fort McMurray & 14 & 5 & 29 & 3 & 1.3 & -11.2 & Blanc Sablon & M M & 15P & 6 & M & \(M\)
\(M\) \\
\hline Kamloops & 19 & 4 & 33
15 & 10 & 33.2 & -8.4 & Grande Prairie & 15 & 5 & 30 & 2 & 2.0 & -6.7 & Border & M & M & 0 & M & M \\
\hline Langara & 13 & 0 & 15 & 10 & 33.2
2.6 & -8.3 & High Level & M & M & 28P & 3 & M & & Chibougamau & \(7 \quad \mathrm{X}\) & 13 & 2 & 52.8 & X \\
\hline Lytton & 19
\(M\) & x & 28p & 1 P & 2.6 & - \({ }^{-3}\) & Jasper & 14 & 5 & 32 & 2 & 6.0 & - 2.4 & Fort Chimo & M M & 12P & 1 & M & M
X \\
\hline \begin{tabular}{l}
Mackenzie \\
McInnes Island
\end{tabular} & M
14 & x & 20 & 10 & 28.4 & -23.2 & Lethbridge & 16 & 5 & 35 & 3 & 10.1 & - 5.7 & Gaspé & \begin{tabular}{l}
11 \\
14 \\
\hline
\end{tabular} & 18 & 10 & 49.3
9.2 & \\
\hline Penticton & 16 & 3 & 33 & 4 & 2.4 & - 3.6 & Medicine Hat & 18 & & 35 & - \({ }^{3}\) & . 8 & . 3 & Grindstone & 14
5 & 11 & -1 & 24.8 & 14.3 \\
\hline Port Hardy & 13 & . 1 & 25 & 6 & 4.8 & - 8.6 & Peace Rlve
Red Deer & 15 & 6 & 33 & 1 & 20.2 & 6.4 & Koartak & M X & 6 P & - 1P & M & \\
\hline Prince George & 14 & 5 & 30 & 1 & 78.1 & -8.6
16.5 & Rocky Mountain House & 13 & 4 & 32 & - 1 & 15.2 & 1.7 & La Grande Rivierre & 6 x & 13 & 2 & 49.2 & \\
\hline Prince Rupert & 13 & 2 & 21 & 5 & 78.1 & \(\begin{array}{r}16.5 \\ -3.3 \\ \hline\end{array}\) & Rocky Mountain House
Slave Lake & 14 & 4 & 27 & - 1 & 34.7 & 22.2 & Maniwaki & 9-3 & 17 & 3 & 5.6 & -16.9 \\
\hline Quesnel & 15 & 4 & 31
24 & 6 & 7.8
15.2 & - \begin{tabular}{l} 
- \\
-2.9 \\
\hline
\end{tabular} & Slave lake & 16 & 7 & 35 & - & 1.8 & -10.4 & Matagami & M X & 12P & 3 & M & \\
\hline Revelstoke & 13 & 2 & 24 & 6 & 15.2 & - 2.9 & Vermilion
Whitecourt & 14 & 6 & 32 & 1 & 5.8 & -1.3 & Mont-Joli & 10-1 & 17 & 4 & 11.9 & 5.2 \\
\hline Sandspit & 13 & 0 & 18 & 8 & 28.7 & - 10.0 & Whitecour & 14 & 6 & 32 & 1 & & & Mont & 12-3 & 20 & 5 & 0.6 & -18.0 \\
\hline Smithers & 11 & \(\stackrel{2}{2}\) & 26 & & 5.8 & - \(\begin{array}{r}5.0 \\ \text { x }\end{array}\) & & & & & & & & Natashquan & 112 & 16 & 3 & 25.0 & 7.5 \\
\hline Stewart & 12 & X & 22P & \({ }_{-1}{ }^{\text {5P }}\) & 14.8 & \(\begin{array}{r}\text { x } \\ \hline-9.9\end{array}\) & \begin{tabular}{l}
SASKATCHEWAN \\
Broadview
\end{tabular} & 13 & & 30 & - 2 & 0.5 & -18.4 & Nitchecun & M M & 11 P & 2 & 31.2 & 12.1 \\
\hline Terrace & 12 & 12 & 23
27 & -1 & 14.8
26.8 & - 9.9 & Broadview
Buffalo Narrowa & 13 & & 30 P & 2 & 0.0 & -18.2 & Port Menier & M M & 9 P & 4 P & M & M \\
\hline Vancouver & 16 & 2 & 27
27 & 10 & 26.8
28.1 & 19.0 & Cree Lake & 12 & & 23 & 1 & 0.0 & x & Poste-de-1a-Baleine & 7-1 & 11 & 3 & 20.4 & 4.3 \\
\hline Victoria & 14 & 1
5 & 27
31 & -1 & 28.1
3.6 & - \(\begin{array}{r}\text { 9.0 } \\ -4.0\end{array}\) & Cree Lake
Estevan & 14 & & 31 & 0 & 0.6 & -8.9 & Québec & 12-1 & 19 & 4 & 4.8 & -19.3 \\
\hline Williams Lake & 15 & 5 & 31 & - 1 & 3.6 & - 4.0 & Hudson Bay & 12 & 2 & 27 & - 2 & 0.0 & -10.9 & Rivière du Loup & \(\begin{array}{rrr}\text { M } & \text { M } \\ 10 & -1\end{array}\) & \[
\begin{aligned}
& 16 P \\
& 18
\end{aligned}
\] & 3P & 15.3 & M
3.9 \\
\hline YUKON & & & & & & & Kindersley & 17 & 7 & 33 & 5 & 0.2 & \begin{tabular}{|r|}
-6.0 \\
-16.1
\end{tabular} & \begin{tabular}{l}
Roberval \\
Schefferville
\end{tabular} & \begin{tabular}{r|r|r}
10 & -1 \\
7 & 2
\end{tabular} & \[
\begin{aligned}
& 18 \\
& 12
\end{aligned}
\] & 0 & 15.3
49.5 & 3.9
33.6 \\
\hline Burwash & 6 & 1 & 15 & -7 & 3.1 & -0.8 & La Ronge & 13 & & 30
33 & - 5 & \[
\begin{aligned}
& 0.2 \\
& 0.0
\end{aligned}
\] & & Sept-Iles & 90 & 15 & 1 & 29.6 & 11.0 \\
\hline Dawson & 7 & 1 & 18 & -2 & 35.8 & 28.6
7.0 & Mcadow Lake & 14 & & 33 & - 5 & 4.6 & - 2.8 & Sherbrooke & 11-1 & 20 & 1 & 13.5 & 1.0 \\
\hline Komakuk Beach & -1 & 1 & 19 & 4 & 10.1 & 7.0
17.4 & Moose Ja
Nipawin & 16 & & 29 & - 2 & 0.0 & -r \(\begin{array}{r}\text { x } \\ \hline\end{array}\) & Ste Agathe des Monts & - 2 & 16 & 2 & 0.8 & -23.0 \\
\hline Mnyo & 8 & 1 & 19 & 1 & 25.1 & 17.4
6.8 & Nipawin North Battleford & 12 & & 32 & - 1 & 2.2 & - 4.4 & Val d'Or & 7-3 & 13 & 0 & 3.6 & -16.2 \\
\hline Shingle Point & 1 & - 1 & \({ }^{6}\) & 2 & 11.8 & 6.8
-5.1 & North Battleford
Prince Albert & 13 & & 30 & - 3 & 0.0 & - 7.8 & & & & & & \\
\hline Watson lanke & 7 & - 1 & 15 & 5 & 4.6 & - 5.1 & Prince Albert & 14 & & 32 & - 1 & 2.7 & - 7.0 & NEW BRUNSWICR & & & & & \\
\hline Whitehorse & 7 & 0 & 15 & 4 & 5.5 & - 0.9 & & & & 29P & 1 & M & - x & Charlo & 110 & 19 & 4 & 48. & 37.1 \\
\hline & & & & & & & & 15
15 & & 31 & 0 & 3.4 & -4.4 & Chatham & 12-1 & 21 & 2 & 37.2 & 17.9 \\
\hline NORTHWEST TERRITORIE & & & & & & & Swift Current & & & 32P & 2. & M & & cton & 12-1 & 20 & 2 & 62.1 & 46.7 \\
\hline Alert & - 7 & 5
4 & \({ }_{11}\) & -14 & 6.1
1.4 & \begin{tabular}{l}
-1.5 \\
-5.4 \\
\hline
\end{tabular} & Uwift Urium City & 12 & 5 & 22 & 0 & 1.7 & - 4.6 & Moncton & 120 & 19 & 3 & 8.8 & -8.6 \\
\hline Baker Lake & 6 & M & \({ }^{11}\) & 3
-7 & 1.4 & - 5.4
\(M\) & Uranium City
Wynyard & 14 & 2 & 27 & 0 & 0.0 & -16.7 & Saint John & 131 & 20 & 4 & 30.0 & 5.7 \\
\hline Broughton Island & M & \(4{ }^{M}\) & \({ }_{7}{ }^{\text {P }}\) & - 7 & 6.0 & M
2.2 & Wynyard
Yorkton & 12 & 2 & 25 & - 1 & 0.0 & -13.6 & & & & & & \\
\hline Byron Bay & 3 & 3 & 6 & 2 & 6.0 & - 2.2 & Yorkton & & & 25 & & & & nova scotia & & & & & \\
\hline Cambridge Bay & M & 3

\(\times\) & & -2 & 3.3
0.8 & - \(\begin{array}{r}\text { - } 1.1 \\ \text { x }\end{array}\) & & & & & & & & Eddy Point & 14 x & 19 & 8 & 31.6 & X \\
\hline Cape Dorset & M
-1 & X & \[
7 p
\] & \begin{tabular}{l}
-3 \\
-4 \\
\hline
\end{tabular} & 0.8
0.0 & (r \(\begin{array}{r}\text { x } \\ -23.2\end{array}\) & Manitoba
Bissett & & & & - 1 & . 4 & -15.0 & Greenwood & 130 & 23 & 3 & 19. & 2.6 \\
\hline Cape Dyer & - \(\begin{array}{r}\text { M } \\ \text { M }\end{array}\) & M & 38
58 & -4 & 0.0
\(M\) & -23.2
\(M\) & Blssett
Brandon & & & 28 & 0 & 0.8 & -14.0 & ble Island & 17 & 21 & 12 & 78.3 & 58.3 \\
\hline Cape Hooper
Cape Parry & M & \(\begin{array}{r}\text { M } \\ \hline\end{array}\) & 5P & -6
-2 & M
19.6 & & Brandon
Churchill & 12
7 & & 18 & - 1 & 1.0 & -8.4 & Shearwater & 15 & 20 & 8 & 59.4 & 39.7 \\
\hline Cape Parry
Cape Young & 3 & 2
3
3 & 88 & -2 & 19.6
7.6 & 15.0
3.9 & Churchill
Dauphin & & & & & & -13.0 & Sydney & 14 & 20 & 8 & 42.0 & 16.9 \\
\hline Cape Young
Clinton Point & 5 & [ 3 & 12 & 0
-3 & 7.6
2.8 & \(\begin{array}{r}3.9 \\ -5.5 \\ \hline 12.4\end{array}\) & Dauphin
Gillam & 11 & - & 15 & - 2 & 3.2 & -13.0 & Truro & M M & 19P & 5 & M & M \\
\hline Clinton Point
Clyde & 0 & 1 & 13
5 & - 3 & 2.8
0.4 & - 5.5 & G1mam & 11 & - 1 & 20 & 4 & 0.3 & -13.4 & Yarmouth & 15 & 20 & 7 & 15.1 & - 6. \\
\hline Clyde
Contwoyto Lake & O & M & \({ }_{\text {c }}^{5}\) & - \({ }_{\text {OP }}\) & 0.4 & [ \(\begin{array}{r}\text { - } 11.4 \\ M\end{array}\) & Goland Lake & M & x & 20P & 2 & M & & & & & & & \\
\hline Contwoyto Lake
Coppernine & M & M & \({ }_{13}^{12 \mathrm{P}}\) & \({ }_{0}^{08}\) & 14.6 & 10.1 & laland Lake
Lynn Lake & & 2 & 18 & - 1 & 0.0 & -11.4 & Prince edward isl & & & & & \\
\hline Coppernine
Coral Harbour & M & M & \({ }_{\text {13 }}^{13}\) & - \(\begin{array}{r}0 \\ -4\end{array}\) & 14.6
0.4 & \begin{tabular}{|r}
10.1 \\
-8.6 \\
\hline-8.7
\end{tabular} & Lynn lake
Norway louse & 9 & x & 21 & - 1 & 0.0 & & Charlottetown & 13 & 19 & 7 & 12.1 & - 7.1 \\
\hline Coral Harbour
Dewar Lakea & M
-3 & M & 98
5 & -4 & 0.4
0.0 & -8.6 & Norway louse
Pilot Mound & 11 & - 1 & 27 & 1 & 1.8 & -10.5 & Summerside & 140 & 19 & 8 & 12.8 & -9. \\
\hline Dewar Lakea
Ennadal & & M & M & -7 & 0.0 & -10.7
\(M\) &  & 12 & -1 & 24 & 2 & 2.0 & -11.2 & & & & & & \\
\hline Ennadal
Eurekn & M
-7 & M
2 & - \({ }^{\text {M }}\) & -18 & 7.3 & 4.7 & The Pas & 11 & & 26 & - 1 & 1.0 & -10.7 & NEWFOUNDLAND & & & & & \\
\hline Eurekn
Fort Rellance & - 10 & 2 & -18 & -18 & 7.3
0.4 & - 5.3 & The Pas & & & 20 & - 2 & 0.0 & -11.8 & Argentia & \(14 . \mathrm{x}\) & 20 & 10 & 45.5 & x \\
\hline Fort Rellance
Fort Simpson & 10 & 3
\(M\) & \({ }_{28}^{18}\) & 2 & 0.4
\(M\) & -5.3
\(-M\) & Thompson
Winnipes & 12 & -1 & 25 & 4 & 1.2 & -12.8 & Battle Harbour & M M & 14 & 4 P & 6.0 & 5.6 \\
\hline Fort Simpaon
Fort Smith & M & M & 23P & 0 & M
10.4 & S. M
2.1 & Winnipes & 12 & - 1 & 25 & 4 & & & Battle Harbour
Bonavista & 12.2 & 20 & 8 & 20.8 & 8.3 \\
\hline Fort Sinith & 12 & 4 & 27 & - 1 & 10.4
4.2 & - 2.1 & ONTARIO & & & & & & & Burgeo & 13 & 18 & 7 & 69.0 & 52.2 \\
\hline Froblsher Bay
Giadman Point & 2 & 0 & 6
5 & -1 & 4.2
22.4 & -4.5 & Armatrong & & & 20P & - 7 & 5.0 & -16.0 & Cartwright & 90 & 15 & 3 & 32.6 & 13.8 \\
\hline Cladman Point
Hall Beach & 2 & 3 & 5
3 & \begin{tabular}{l}
-2 \\
-3 \\
\hline
\end{tabular} & 22.4
2.8 & \(\begin{array}{r}19.7 \\ -1.4 \\ \hline\end{array}\) & Armstrong
Atikokan & & -3 & 24 & - 5 & 0.3 & -15.4 & Churchill Falls & 72 & 13 & 1 & 61.8 & 39.8 \\
\hline Hall Beach & 0 & 1 & 3 & -3 & 22.8
18.6 & - \(\begin{array}{r}19.4 \\ 10.8 \\ \hline\end{array}\) & At ikokan
Earlton & M & - M & 15P & 3 & M & & Comfort Cove & 12 & 19 & 6 & 32.6 & 21.9 \\
\hline Hay River & 12 & 4 & 25 & 3 & 18.6
7.8 & 10.8
4.5 & Earlton
Geraldton & & - 2 & 18 & - 4 & 6.4 & - 5.8 & Daniel's Harbour & 12 & 18 & 7 & 9.4 & 6.8 \\
\hline Inuvik & 3 & 0 & 11 & -1 & 7.8
12.9 & 4.5
11.4 & Geraldton
Gore Bay & 10 & - & 18 & - 2 & 1.2 & -21.2 & Deer Lake & 11 & 20 & 2 & 32.9 & 20.4 \\
\hline Jenny Lind Island & 2 & 3 & 5 & - 2 & 12.9 & 11.4 & Gore Bay
Kapuskasing & 10
7 & - -4 & 18 & 1 & 9.6 & -9.3 & Gander & 12 & 19 & 4 & 32.4 & 10.5 \\
\hline Lady Franklin Point & 4 & 3 & 8 & - 1 & 9.5 & 6.6
-9.1 & Kapuskasing
Kenora & 11 & -4 & 12 & 1 & 0.0 & -21.4 & Gonder & 10.0 & 16 & 5 & 62.5 & 46.4 \\
\hline longstaff bluff & 1 & 2 & \({ }^{6}\) & -4 & 0.0 & - 9.1 & Kenora & 112 & - 1 & 19 & 4 & 27.0 & -21.4 & Goose & 10 & 12 & 3 & 37.6 & 21.4 \\
\hline Mackar Inlet & -1 & 3 & 5 & -6 & 2.8 & - 5.3 & Kingston & 12 & - 3 & 19 & 4 & 27.0
10.4 & - 4.2 & Hopedale
Port aux Basques & 13 & 17 & 8 & 40.6 & 21.1 \\
\hline Mould bay & -4 & 3 & 1 & -11 & 3.8 & 1.6 & Lansdowne & & -2 & & & 44.5 & & Port aux Basques
St Albans & M M & 20P & 4 & M & \\
\hline Nicholson Peninsula & 3 & 2 & 10 & 2 & 20.8 & 16.9 & london & & - 5 & \[
\begin{aligned}
& 19 \\
& 12 \mathrm{P}
\end{aligned}
\] & 1p & 44.5
\(M\) & 25.4
\(M\) & \begin{tabular}{l}
St Albans \\
St Anthony
\end{tabular} & 4 ¢ & 15 P & Sp & M & x \\
\hline Norman Wella & 10 & 4 & 24 & 1 & 19.2 & 12.5 & Moosonee & M
\(M\) & M
\(M\) & \[
\begin{aligned}
& 12 \mathrm{P} \\
& 18 \mathrm{P}
\end{aligned}
\] & & M & M & St Anthony
St John's & 13.1 & 20 & 4 & 42.8 & 21.9 \\
\hline Pelly Ray & -1
-2 & 3
x & 3 & - 6 & 14.4
0.8 & 7.6
\(\times\) & Mount Forest
Muskoka & & \[
\begin{array}{l|l}
M \\
M
\end{array}
\] & \[
\begin{aligned}
& 18 \mathrm{P} \\
& 22 \mathrm{P}
\end{aligned}
\] & \[
\begin{aligned}
& 6 P \\
& 1 P
\end{aligned}
\] & M & M & St John's & 14 & 18 & 8 & 63.0 & 46.7 \\
\hline Pond Inlet
Port Burwell & - 2 & x
x & 2
7 & - \({ }_{-1}\) & 0.8
21.6 & \begin{tabular}{l}
x \\
x \\
\hline
\end{tabular} & Muskoka
North Bay & \[
\begin{aligned}
& M \\
& 8
\end{aligned}
\] & \begin{tabular}{|r} 
M \\
-5
\end{tabular} & \[
\begin{aligned}
& 22 P \\
& 14
\end{aligned}
\] & \({ }_{2}^{1 P}\) & 4.2 & -21.9 & Stephenville & 14.2 & 19 & 7 & 41.4 & 19.9 \\
\hline Port Burwell
Resolute & \(M\)
-4 & 2 & 1 & \(-10_{18}\) & 21.6
12.7 & X
8.4 & North Bay
Ottawn & 8 & - & 19 & 3 & 7.2 & -21.9 & Wabush Lake & 14. & 13 & 2 & 27.6 & 10.1 \\
\hline Resolute & & & 1 & -10 & 12.7 & & Petawawa & 9 & & 19 & - 1 & 2.0 & & & & & & & \\
\hline & & & & & & & Pickle Lake & 8 & - 3 & 19 & - 3 & 2.4 & -12.2 & & & & & & \\
\hline & & & & & & & Red Lake & & & 20 & -3 & 1.2 & -13.8 & & & & & & \\
\hline
\end{tabular}```

